



March 2022

REPORT ON FORUM OF EUROPEAN UNIVERSITIES

Argus Research & Innovation Project

(Grant agreement No 101017448)





Introduction to the deliverable

In the context of Task 8.2 of its Grant Agreement, called "Coordination with other University Alliances", the partners of the Arqus Research and Innovation project committed to attend and contribute to an event organized by the Forum of European Universities (FOREU) and to deliver a Report on their participation in this event, which is this deliverable, D8.2 "Report on FOREU".

The full text in the Grant Agreement describes it like this:

"The 17 alliances selected in the first call have agreed to ensure collaboration in the implementation of their projects for developing their transformation agenda for research and innovation. This collaboration will also be open to the alliances selected in the second call. A very specific activity will be attending together a Forum of European Universities (FOREU), face-to-face if possible and if not on-line, around month 14 at which to discuss and share assessment of current practices, best practices, progress made/success stories implementing our long-term strategies and identification of barriers, whether they be legal, financial or regulatory, taking into account the level at which each barrier exists (local, regional or European)."

The planned event took place on 2nd March 2022, on-line, and was called 1st TORCH Annual Open Forum: "Sustainability in a (post?) pandemic world: asking the right questions on the role of universities in R&I today". The event was organised by TORCH (Transforming Open Responsible Research and Innovation through CHARM), the research arm of the CHARM-EU Alliance, for the group of the 41 European University Alliances funded in the two Erasmus + Pilot Calls (FOR-EU1 and FOR-EU2).

The Arqus Alliance was represented by Arqus Research and Innovation, the project developing its research dimension.

This event brought together University managers of the Alliances, policymakers and European Commission representatives to discuss how universities and, namely European Universities Alliances, can contribute to a European internal market for knowledge and maximize the impact of Research and Innovation in a (post?) pandemic world for a better, inclusive and sustainable future. The Forum fostered an in-depth debate around this perspective and its objective was not only presenting results, but more specifically, the process the Alliances have followed, the barriers found and lessons learned.

Arqus R&I took active part in the panel session devoted to "European universities: Towards a reform of the research assessment system" (see point 3.3 of the Forum Debrief in the full Report below). This session analysed the challenges and benefits of reforming such a multi-actor system to support a diverse range of outputs, activities and career directions. The panel also looked at the role that the European Universities initiative can play in driving such reform and consider whether there are benefits for teaching and other activities outside of research. The panel was chaired by Doris Alexander (Chair FOR-EU1 R&I subgroup).

The Arqus Alliance was represented in this panel by Prof. Tullio Vardanega (University of Padua), leader of Work Package 3 in the Arqus R&I project, devoted to "Alternative Assessment Approaches" of research and researchers' careers.

Professor Vardanega presented the work done in this area in Arqus R&I: on the one hand, a best practice document was developed and on the other, a discussion paper is being prepared as a consequence of the latter. The best practices document contains an analysis of research assessment practices currently applied

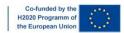




in the Arqus partner universities (both "traditional" and "alternative"), makes proposals of best practices that could be (further) developed and asks a series of questions on the status quo and viability for the development of "alternative" assessment practices. The ensuing Discussion Paper will contain a summary and discussion of the replies given by each universities' high-level officials for research assessment to those questions.

Please find below the full Report on the FOREU event.





TORCH: ANNUAL OPEN FORUM 1 REPORT

Transforming Open Responsible Research and Innovation through CHARM





TABLE OF CONTENTS

EXECUTIVE SUMMARY: ANNUAL OPEN FORUM 1 REPORT	7
1. INTRODUCTION & FORUM OBJECTIVES	10
Concept Note	10
Promotion & Dissemination	11
Participants	12
Organizing Committee	12
This Report	13
2. FORUM PROGRAMME	14
3. FORUM DEBRIEF	17
3.1 Open Ceremony / Welcome Address	17
3.2 Plenary Session. R&I Trends in (Post?) Pandemic Scenarios	19
3.3 Panel Session. European Universities: Towards a Reform of the Research Assessment Sy	
3.4 TORCH Clusters. Crosscutting conversations across R&I topics and sustainability	31
TORCH Cluster 1: R&I Common Science Agenda and European Universities	31
TORCH Cluster 2: Business & Society and Academic Cooperation	36
TORCH Cluster 3: Public Engagement	44
TORCH Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda	47
3.5 Panel Session. Open Science	54
3.6 Closing Words	60
4. CONCLUDING REMARKS	61
ANNEX I: PUBLIC PROGRAMME AND PROMOTIONAL MATERIAL	64
ANNEX II: PRESENTATIONS	68





LIST OF FIGURES & TABLES

Figure 1. Open Ceremony.	14
Figure 2. Plenary Session. R&I Trends in (Post?) Pandemic Scenarios.	19
Figure 3. Panel Session. European Universities: Towards a Reform of the Research	24
Assessment System.	
Figure 4. TORCH Cluster 1: R&I Common Science Agenda and European Universities.	29
Figure 5. TORCH Cluster 2: Business & Society and Academic Cooperation.	36
Figure 6. TORCH Cluster 3: Public Engagement.	39
Figure 7. TORCH Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda.	45
Figure 8. Panel Session. Open Science.	50
Figure 9. Closing words.	51
Table 1. TORCH Open Forum number of participants.	9
Table 2. TORCH Open Forum social media engagement.	52





EXECUTIVE SUMMARY: ANNUAL OPEN FORUM 1 REPORT

The TORCH Project enhances CHARM-EU's academic and research networks, as it builds up the R&I dimension of CHARM-EU, promoting a challenge-driven transformative agenda with a transdisciplinary and intercultural vision laying its foundation in three Cross Cutting Principles of RRI: Interdisciplinarity, Gendered Innovation, Ethics and Integrity; and four Transformational Modules: Common R&I Agenda, Cooperation with Non-Academic Actors, Open Science Practices, Citizen Science and Public Engagement.

The first TORCH Annual Forum was a dissemination activity designed to discuss progress and results of the TORCH project and beyond. It included relevant aspects such as open science, public engagement, and Cross-cutting principles to address a transformative R&I Agenda, which were shared with other European Universities. As such, all the Alliances were invited to participate, as the event was devised as the shared activity all FOREU1 Alliances included in their proposals.

The Forum was launched under the title **Sustainability in a (post?) pandemic world: asking the right questions on the role of Universities in R&I today**. It was held online on March 2, 2022 and virtually hosted by Eötvös Loránd University Budapest (ELTE). During the event, different relevant topics were covered such as:

- Current challenges in the research assessment reform and how the European Union is approaching it and what can we learn from the work done by the European University alliances.
- Share best practices and discuss how European University alliances can impact a sustainable future through a common R&I Agenda and the role that such a common agenda may play in achieving the European Green Deal and more broadly contributing to the implementation of the SDGs.
- · Discuss how universities and alliances can better work with enterprises and citizens.
- The importance of cross-cutting principles such as ethics, integrity, interdisciplinary, and gendered innovation in responsible research, as well as the challenges in developing a common implementation approaches by the European University alliances.

The event was addressed to university leadership, European University alliances, and different actors engaged in R&I and university-industry-citizen collaboration. It was also relevant for policymakers, as the European Commission's perspective was included. More than 100 participants attended the different sessions.

Representatives of different institutions' leadership (CHARM-EU Alliance: UB and ELTE; FORTHEM Alliance: JGU Mainz) opened the event in the **inaugural ceremony**.





The first **plenary session** served to frame the topic of the forum: **The R&I framework and the (post?) pandemic scenarios**. Some current trends/strategic thinking on this topic (state of play and looking forward) were discussed. As well as what we are doing to advance this agenda and the role of the European Universities initiative and their SwafS projects.

The **panel session 'European Universities: Towards a Reform of the Research Assessment System'** focused on the reform of the research assessment system for research, researchers and institutions to improve their quality, performance and impact. This session discussed the rationale, the proposed approach and principles and work to date, analyzing the challenges and benefits to reforming such a multi-actor system to support a diverse range of outputs, activities and career directions. The panel also looked at the role that the European Universities initiative can play in driving such reform and considered whether there are benefits for teaching and other activities outside of research.

The **TORCH Clusters (Crosscutting conversations across R&I topics and sustainability)** sought to combine R&I impact/actions and sustainable factors. In order to enhance policy coherence by promoting systemic approaches across the same challenges (SDGs/European Green Deal) while presenting main progresses on the TORCH project and other Alliances' SwafS projects. It was divided into four parallel thematic clusters (linked to different transformational modules):

- Cluster 1: R&I Common Science Agenda and European Universities. This session went over the methodology and sharing preliminary results, learning and experiences from EU alliances in its work on identifying research strongholds and using bottom-up protocols to compare institutional priorities and good practices.
- Cluster 2: Business & Society and Academic Cooperation. The objective of the session was to share best cases from universities on collaboration between business and university or on spin-off creation.
- **Cluster 3: Public Engagement**. During this session, some good practices and (dis)incentives for public engagement and transdisciplinary science at the individual, the university, the systemic, and the stakeholders' levels were discussed.
- Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda. Developing a common European research framework in different countries and cultures and across a number of different disciplines requires addressing the challenges of ensuring ethically fully supported interdisciplinary research while incorporating cross-cutting principles analysis into all areas of R&I processes, including career choices and opportunities as well as research project development and management. Having established our research strengths, we ask, how can we make our research even better?





The final **panel session** on **Open Science** had three alliances, CIVIS, AURORA and CHARM-EU, to introduce the Open Science practices and plans of their current SwafS projects.





1. INTRODUCTION & FORUM OBJECTIVES

CHARM-EU represents a Challenge-Driven, Accessible, Research-based and Mobile model for the co-creation of a European University aligned with the European Values and the Sustainable Development Goals (SDGs). It is an initiative formed by five research-based universities: University of Barcelona (UB), Trinity College Dublin (TCD), Utrecht University (UU), Eötvös Loránd University Budapest (ELTE), and University of Montpellier (UM).

The TORCH Project enhances CHARM-EU's academic and research networks, as it builds up the R&I dimension of CHARM-EU, promoting a challenge-driven transformative agenda with a transdisciplinary and intercultural vision, and laying its foundation in three Cross Cutting Principles of RRI: Interdisciplinarity, Gendered Innovation, Ethics and Integrity; and four Transformational Modules: Common R&I Agenda, Cooperation with Non-Academic Actors, Open Science Practices, Citizen Science and Public Engagement.

The first TORCH Annual Forum is a dissemination activity designed to discuss progress and results of the TORCH project and beyond. It includes relevant aspects such as open science, public engagement, and Cross-cutting principles to address a transformative R&I Agenda, which are shared with other European Universities. As such, all the Alliances were invited to participate, as the event was devised as the shared activity all FOREU1 Alliances included in their proposals.

Concept Note

The Open Forum was launched under the title **Sustainability in a (post?) pandemic world: asking the right questions on the role of Universities in R&I today**. Held online on March 2, 2022, and hosted by Eötvös Loránd University Budapest (ELTE).

While experts' opinions are significantly different regarding the remaining threat of COVID-19, everyone agrees that the pandemic has permanently changed the world around us from many different aspects and for many different sectors. As we work to shape our future and deal with many societal challenges, how can universities and European Universities alliances contribute to a European internal market for knowledge and maximize the impact of R&I in a (post?) pandemic world for a better, inclusive and sustainable future? In exploring the role that R&I can play, consideration needs to be given to the importance of strengthening cooperation throughout the entire knowledge square (Education-Research-Innovation-Business & Society) utilizing a responsible research and Innovation framework that is fit for purpose.

Exploring synergies and facilitating best practice exchanges with other European Universities alliances who are addressing these same challenges will facilitate all HEIs to support innovative





solutions for a greener and digital transition¹ paving the way out from the pandemic crisis in a sustainable and inclusive manner. Such sharing of knowledge also supports the values and current policy agenda of the new European Research Area Research. If R&I undergoing change, becoming more collaborative and open, then we must look also at the current research assessment system so that researchers are evaluated on the basis of appropriate criteria. Research assessment reform, such as that underway in the EU as well as being addressed through the transformational modules by many alliances, can contribute to the process of supporting the development of attractive and sustainable research careers in Europe maximizing the possibility of supporting and retaining the best talent needed to design innovative solutions to societal challenges. During the Forum, different relevant topics were covered, such as:

- What are the challenges in Research assessment reform, how is the EU approaching it and what can we learn from the work of the European Universities alliances?
- Sharing learning and discussion on how European University alliances can impact a sustainable future through a common R&I Agenda and the role that such a common agenda may play in achieving the European Green Deal and more broadly contributing to the implementation of the SDGs.
- · How can Universities and alliances better work with Enterprises and with citizens.
- The importance of cross cutting principles such as Ethics, integrity, interdisciplinary, gendered innovation in responsible research, and the challenges in developing common implementation approaches by the Alliances.

Promotion & Dissemination

The event was publicized through different means in order to reach the target relevant audience. It was shared via mailing with the whole community involved in CHARM-EU and TORCH (scientific and technical staff involved in the projects' development, plus teachers and researchers participating in diverse related activities). In addition, all CHARM-EU Newsletter subscribers (+800 individuals) were invited. All five partners also distributed the invitation among their respective relevant staff. Likewise, all the European Universities were invited to join (the FOREU1 group via their SwafS coordinators; the FOREU2 via their R&I subgroup coordinator).

¹ This objective aims to support the EC's <u>Strategic Plan 2020-2024 DG Research and Innovation</u> in which states that *"the R&I policy is an engine of the green and digital transitions on the continent and stairways to 'the future we want'."*





Regarding social media, and following CHARM-EU dissemination strategy, it was promoted via different official channels (Twitter, Instagram, Facebook, LinkedIn, website) of CHARM-EU and the five institutions (#TORCHForum2022). Specific promotional material was designed (see Annex I).

Registration for the event was managed through Google Forms, including a privacy statement acceptance request, in compliance with GDPR.

Participants

The TORCH Forum was addressed to university leadership, European Universities members, and any actors engaged in R&I, university-industry-citizen collaboration. It was also relevant for policymakers, as the European Commission's perspective was included. The number of participants is shown in Table 1.

No.	Sessions	No.	Cluster Sessions
189	Individual registrations prior to the event	32	Participants in Cluster 1
102	Participants in the morning sessions	23	Participants in Cluster 2
103	Participants in the afternoon sessions	27	Participants in Cluster 3
50	Participants in the closing session	20	Participants in Cluster 4

 Table 1. TORCH Open Forum number of participants (see agenda).

Organizing Committee

The Forum was organized by TORCH staff and members of different European Universities (after a call to find a team of representatives of the FOREU1 Alliances was issued), in close collaboration with the TORCH WP Leaders. The Forum Organizing Committee is as follows (in surnames alphabetical order):

- Ms. Doris Alexander, Trinity College Dublin (CHARM-EU Alliance). Associate Director of European Engagement, TCD.
- · Dr. Nikole Birkle, JGU Mainz (FORTHEM Alliance). FIT FORTHEM Coordinator.
- Ms. Valentine de Callataÿ, Université libre de Bruxelles (CIVIS Alliance). CIVIS Liaison Officer.
- · Ms. Meritxell Chaves, University of Barcelona (CHARM-EU Alliance). CHARM-EU Manager.
- Ms. Nicole Font, University of Barcelona (CHARM-EU Alliance). CHARM-EU Communications Manager.
- · Ms. Julie Hyzewicz, Aix-Marseille Université (CIVIS Alliance). RIS4CIVIS Project Manager.





- Prof. Katarzyna Molek-Kozakowska, University of Opole (FORTHEM Alliance). FIT FORTHEM Dissemination and Communication.
- · Dr. Jaime Llorca, University of Barcelona (CHARM-EU Alliance). TORCH Project Manager.
- · Dr. Nina Straub, JGU Mainz (FORTHEM Alliance). FIT FORTHEM Project Manager.
- · Dr. Ferenc Takó, Eötvös Loránd University (CHARM-EU Alliance). TORCH Project Manager.

This Report

This report constitutes TORCH's deliverable D10.4, and contains the Forum Agenda, followed by a debrief of all sessions and presentations, as well as the main conclusions drawn from the discussion. All presentations (ppt) showed during the event are collected in Annex II. The report is to be distributed among the FOREU1 Alliances.





2. FORUM PROGRAMME

SUSTAINABILITY IN A (POST?) PANDEMIC WORLD: ASKING THE RIGHT QUESTIONS ON THE ROLE OF UNIVERSITIES IN R&I TODAY.

1st TORCH Annual Open Forum. March 2, 2022 (online). Host: Eötvös Loránd University Budapest.

10:00 - 10:30 | OPENING CEREMONY / WELCOME ADDRESS

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University. Speakers:

- · PROF. LÁSZLÓ PALKOVICS. Minister of Innovation and Technology, Hungary (video message).
- · PROF. LÁSZLÓ BORHY. Rector, Eötvös Loránd University.
- PROF. JORDI GARCIA. Vice Rector for Research, University of Barcelona.
- PROF. STEFAN MÜLLER-STACH. Vice President for Research, JGU Mainz. Read by DR. NICOLE BIRKLE, FIT FORTHEM Managing Coordinator (FORTHEM Alliance).

10:30 - 11:30 | PLENARY SESSION. R&I TRENDS IN (POST?) PANDEMIC SCENARIO

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University. Speakers:

- Ms. APOSTOLIA KARAMALI. Head of Unit, Directorate-General for Research and Innovation, European Commission.
- · DR. CSILLA STÉGER. Manager at PwC Hungary Ltd. Government Advisory, Division responsible for HE–government relationships.
- PROF. JOAN X. COMELLA. Director, Vall d'Hebron Institute of Research (VHIR). TORCH Quality Committee.
- PROF. JORDI GARCIA. Vice Rector for Research, University of Barcelona.

Rapporteur: DR.JAIME LLORCA. TORCH Project Manager, University of Barcelona.

11:30 - 11:45 | SHORT BREAK

11:45 - 12:30 | PANEL SESSION. EUROPEAN UNIVERSITIES: TOWARDS A REFORM OF THE RESEARCH ASSESSMENT SYSTEM

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University.

Chair: Ms. DORIS ALEXANDER. Associate Director of European Engagement, Trinity College Dublin. Speakers:

- PROF. LUDOVIC THILLY. University of Poitiers. Executive Board Chair, Coimbra Group.
- · DR. ANOUK TSO. Director of International Affairs, University of Amsterdam (EPICUR Alliance).
- · DR. TULLIO VARDANEGA. University of Padova. Research Project Supervisor (ARQUS Alliance).
- PROF. FRANK MIEDEMA. Vice Rector for Research, Utrecht University (CHARM-EU Alliance).





Rapporteur: DR. JAIME LLORCA. TORCH Project Manager, University of Barcelona.

12:30 - 13:30 | LUNCH BREAK

13:30-15:00 | TORCH CLUSTERS. CROSSCUTTING CONVERSATIONS ACROSS R&I TOPICS AND SUSTAINABILITY

· Cluster 1: R&I Common Science Agenda and European Universities

Chair: DR. FIONA KILLARD. Head of Strategic Research Development, Trinity College Dublin. Speakers:

- PROF. ALBERT DIAZ. Director of the Institute of Complex Systems, University of Barcelona (CHARM-EU Alliance).
- PROF. KATARZYNA MOLEK-KOZAKOWSKA, University of Opole. DR. MARIA DOLORES PITARCH, University of Valencia (FORTHEM Alliance).
- DR. NIHAN YILDIRIM, DR. EMRAH ACAR, DR. HÜR BERSAM SIDAL BOLAT. Istanbul Technical University (EELISA Alliance).

Rapporteur: DR. JAIME LLORCA. TORCH Project Manager, University of Barcelona.

· Cluster 2: Business & Society and academic cooperation

Chair: Ms. INESE ROZENSTEINE. TORCH Project Manager, University of Montpellier. Speakers:

- PROF. BENOÎT BARDY. University of Montpellier, BEAT HEALTH Project (CHARM-EU Alliance).
- · DR. ZOLTÁN URBÁNYI. Biotechnology Research Department, Eötvös Loránd University (CHARM-EU Alliance).
- PROF. ANICET BLANCH. University of Barcelona, Bluephage (CHARM-EU Alliance).
- DR. RASA VIEDERYTE. Klaipeda University, Manager of EU-CONEXUS Research for Society (EU-CONEXUS Alliance).
- DR. JOSEP BORDONAU, DR. JUAN JESÚS PÉREZ, DR. CRISTINA ARESTÉ. Polytechnic University of Catalonia, UPC-BarcelonaTech (Unite! Alliance).

Rapporteur: Ms. ELÉA PIPPO. TORCH Project Manager, University of Montpellier.

· Cluster 3: Public engagement

Chair: DR. MARJANNEKE VIJGE. Copernicus Institute of Sustainable Development, Utrecht University. Speakers:

- DR. ANNISA TRIYANTI. Copernicus Institute of Sustainable Development, Utrecht University (CHARM-EU Alliance).
- · DR. KATE MORRIS. Head of Campus Engage, Irish Universities Association.





• DR. TROELS JACOBSEN. Director of Innovation and societal engagement, University of Stavanger (ECIU Alliance).

• DR. TOMAS BERKMANAS. Faculty of Law, Vytautas Magnus University (T4Europe Alliance). Rapporteur: DR. KIRSTEN HOLLAENDER. TORCH Project Manager, Utrecht University.

· Cluster 4: Cross-cutting principles to address a transformative R&I Agenda

Chair: PROF. GEMMA MARFANY. Rector Delegate for Scientific Dissemination, University of Barcelona. Speakers:

- PROF. LORRAINE LEESON. Associate Vice Provost for Equality, Diversity and Inclusion, Trinity College Dublin (CHARM-EU Alliance).
- DR. TILL ANSGAR BAUMHAUER. Hochschule für Bildende Künste Dresden, EU4ART_differences Project Speaker & Leader (EU4ART Alliance).
- DR. MIREILLE STHIJNS, Maastricht University. DR. NURIA BAUTISTA PUIG, Carlos III University of Madrid (YUFE Alliance).

Rapporteur: MR. JEDRZEJ OLEJNICZAK. University of Wroclaw.

15:00 - 15:30 | SHORT BREAK

15:30 - 16:30 | PANEL SESSION. OPEN SCIENCE

Presenter: DR. FERENC TAKÓ. Head of International Strategy Office, Eötvös Loránd University. Chair: DR. Aczél Balázs Zoltán. Vice Dean of Research, Faculty of Education and Psychology, Eötvös Loránd University.

Speakers:

- DR. IGNASI LABASTIDA. Rector's Delegate for Open Science, University of Barcelona (CHARM-EU Alliance).
- · DR. MIHNEA DOBRE. Humanities Division, University of Bucharest (CIVIS Alliance).
- PROF. ROBERTO DELLE DONNE. University of Naples Federico II (AURORA Alliance).

Rapporteur: Ms. ANIKÓ GÁL-BÉLTEKI. TORCH Internal Coordinator, Eötvös Loránd University.

16:30 | CLOSING WORDS

Presenter: DR. FERENC TAKÓ. Head of International Strategy Office, Eötvös Loránd University. Speaker:

· PROF. JOAN GUÀRDIA OLMOS. Rector, University of Barcelona.





3. FORUM DEBRIEF

The section below shows a brief summary of the meeting development, with the minutes of all sessions and presentations.

3.1 Open Ceremony / Welcome Address

Representatives of different institutions' leadership (CHARM-EU Alliance: ELTE and UB; FORTHEM Alliance: JGU Mainz) open the event.

OPENING CEREMONY / WELCOME ADDRESS

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University.

Speakers:

- PROF. LÁSZLÓ PALKOVICS. Minister of Innovation and Technology, Hungary (video message).
- · PROF. LÁSZLÓ BORHY. Rector, Eötvös Loránd University.
- PROF. JORDI GARCIA. Vice Rector for Research, University of Barcelona.
- PROF. STEFAN MÜLLER-STACH. Vice President for Research, JGU Mainz. Read by DR. NICOLE BIRKLE, FIT FORTHEM Managing Coordinator (FORTHEM Alliance).

The inaugural ceremony is presented by **Prof. Enikő Magyari** (ELTE), and is opened by **Prof. László Palkovics** (Hungarian Minister of Innovation and Technology), who welcomes all participants and emphasizes the essential role the higher education institutions play in Hungary's strategy. In addition, he stresses the importance of cooperation between universities and research institutions and private companies, the academic staff mobility across Europe and the creation of international research networks, as well the Open Science and Responsible Research and Innovation practices to shape the future common R&I space.

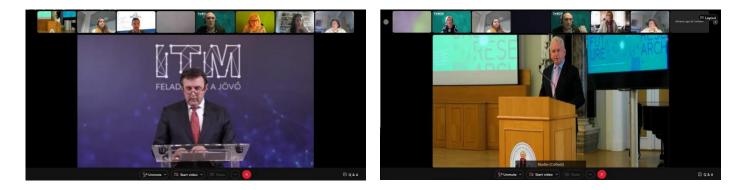
ELTE's Rector, **Prof. László Borhy**, and UB's Vice Rector for Research, **Prof. Jordi Garcia**, greet all attendees and reflect on the CHARM-EU values and objectives, achieved through the valuable collaboration of the five partner universities. The TORCH project continues this fruitful cooperation, and has the ability to transform our institutions following its cross-cutting principles (Interdisciplinarity/Transdisciplinarity; Gendered Innovation; Ethics and Integrity in research), and its four transformational modules: Common R&I Agenda; Cooperation with Non-Academic Actors; Open Science Practices; Citizen Science and Public Engagement.

Finally, **Prof. Stefan Müller-Stach** (Vice President for Research at JGU Mainz), in a message read by **Dr. Nicole Birkle** (FIT FORTHEM Coordinator), welcomes all participants, in particular the Alliances





that joined the event, as sharing experiences and progresses among the European Universities represents a key aspect to stimulate the network advances.



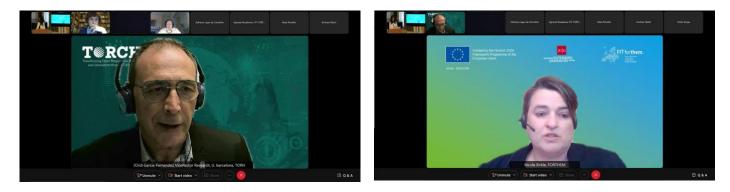


Figure 1. Open Ceremony. Speakers: Prof. László Palkovics (Hungarian Minister of Innovation and Technology); Prof. László Borhy (ELTE); Prof. Jordi Garcia (UB); Dr. Nicole Birkle (FIT FORTHEM).





3.2 Plenary Session. R&I Trends in (Post?) Pandemic Scenarios²

This introductory plenary session served to frame the topic: The R&I framework and the (post?) pandemic scenarios. Some current trends/strategic thinking on this topic (state of play and looking forward) were discussed. As well as what we are doing to advance this agenda and the role of the European Universities initiative and their SwafS projects.

PLENARY SESSION. R&I TRENDS IN THE (POST?) PANDEMIC SCENARIO

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University.

Speakers:

- Ms. Apostolia Karamali. Head of Unit, Directorate-General for Research and Innovation, European Commission.
- · DR. CSILLA STÉGER. Manager at PwC Hungary Ltd. Government Advisory, Division responsible for HE–government relationships.
- PROF. JOAN X. COMELLA. Director, Vall d'Hebron Institute of Research (VHIR). TORCH Quality Committee.
- PROF. JORDI GARCIA. Vice Rector for Research, University of Barcelona.

Rapporteur: DR. JAIME LLORCA. TORCH Project Manager, University of Barcelona.

The plenary session, entitled 'R&I Trends in the (Post?) Pandemic Scenario', was presented by **Prof. Enikő Magyari** (TORCH Project, ELTE).

Ms. Apostolia Karamali (Head of Unit, Directorate-General for Research and Innovation, European Commission) addresses the topics of the European Strategy for Universities, the new ERA and Innovation Policy, and the Horizon 2020³.

The European Strategy for Universities^{4,5} comprises four key objectives:

• Strengthen the European dimension in higher education and research. By bringing transnational cooperation to a higher level.

² Morning sessions recording available at: <u>https://www.youtube.com/watch?v=UthRInHKvsA</u>

³<u>https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en</u>

⁴<u>https://education.ec.europa.eu/document/proposal-for-a-council-recommendation-on-building-bridges-for-effective-european-higher-education-cooperation</u>

⁵<u>https://education.ec.europa.eu/document/commission-communication-on-a-european-strategy-for-universities</u>





- Consolidate universities as lighthouses of our European way of life. By: 1) strengthening quality and relevance for future-proof skills; 2) fostering diversity, inclusiveness, and gender equality; 3) promoting and protecting European democratic values.
- Empower universities as key actors of change in the twin green and digital transition. By developing skills, competences and technological innovation for the green and digital transition.
- Reinforce universities as drivers of Europe's global role and leadership. Universities are instrumental in building Europe's connection to the world.

The path towards a new European Research Area (ERA)⁶ is based on:

- A pact for R&I. Setting out the fundamental R&I values and principles for the new ERA, the priority areas for ERA actions and the policy coordination mechanisms.
- ERA Governance. Responding to new ERA strategic objectives. Ensuring prioritized policy initiatives and translation into action through better coordination and engagement at all levels.
- ERA Policy Agenda. Designed to contribute to the priority areas from the Pact for R&I, setting out the voluntary ERA actions which are defined and coordinated at Union level in order to attain agreed outcomes.

The ERA Policy Agenda⁷, focused on Research Careers, aims at deepening a truly functioning internal market for knowledge, via its Action 4: To Promote attractive and sustainable research careers, balanced talent circulation and international, transdisciplinary and inter-sectoral mobility across the ERA; and a set of foreseen activities.

The Innovation Policy establishes some intervention areas for further reflection, such as: Access to finance; Innovation divide; Talent; Framework conditions, including legislation; Innovation Ecosystem.

Dr. Csilla Stéger (Senior Manager at PwC Hungary) reflects on 'Today's Challenges and the need to transform higher education R&I', since R&I has become a key factor not only regarding economic growth, but also in our overall quality of life and survival. As a consequence, there is need to transform and reinvent the R&I as we know it today, via: Shorter R&I cycles; new ways of working; and better communication of outcomes.

⁶<u>https://ec.europa.eu/info/research-and-innovation/strategy/strategy-2020-2024/our-digital-future/era_en</u> ⁷<u>https://ec.europa.eu/info/files/european-research-area-policy-agenda-2022-2024_en</u>





PwC Hungary, in collaboration with Microsoft, has developed a vision for higher education transformation, and proposed a portfolio of related projects to make the vision come true, based on five pillars:

- \cdot Focus on students.
- · Reimagine teaching and learning.
- · Attract, retain and support excellent academic staff.
- \cdot Lead and foster research, development and innovation.
- · Service-oriented and agile background processes.

In order to build a successful research ecosystem, it is essential that institutions identify, understand and address the challenges researchers face; as well as to provide those researchers with an endto-end research career. In addition, a research strategy should be defined, to create well-structured comprehensive research offices and information systems.

Prof. Joan X. Comella (Director of the Vall d'Hebron Institute of Research) shares his thoughts on the many lessons we have learnt from the COVID pandemic that should illuminate our future and give raise to stronger collaborative research in Europe and globally. His speech addresses three main points: practical learnings on how we conduct research, considering actions we have taken and should continue doing; actions we put in practice and should stop doing or change the way we do them; and some general reflections on key issues to successfully face a crisis.

Practical learnings on how we conduct research (actions we have taken and should continue doing):

- Transnational exchange of data on patients' symptoms and responses to existing and novel medicines, to create an international shared database.
- De-bureaucratization of research. Authorization, funding, execution and transfer to the market to reduce the time of arrival to the patient. Without forgetting the quality standards particularly, the basis of the scientific method.
- · Created open, international task forces to jointly tackle any scientific and health challenge.
- Opened agile communication channels with governmental institutions to facilitate the arrival of research needs (bottom-up) and the transmission of strategic objectives (top-down).
- Set up online, life sharing of the whole genome sequences of an organism in order to facilitate collaborative research and the development of a vaccine in a year.





- Facilitated and promoted public-private collaborative relationships to shorten arrival of new solutions to the market (increased openness and trust before an emergency).
- · Promoted and trusted on new generational leaderships that have risen to the challenge.
- Transformed our ways of working and infrastructures into agile processes and organizational models ready to be easily adapted for the next challenge and to highly changing environments.
- Digitalized the way we work and we relate to each other (facilitation of meetings, facilitation of access to key people, facilitation of access to the patient).
- · Migrated from a "just in time" to a "just in case" scenario to work in.

Actions we put in practice and should stop doing or change the way we do them:

- Failed to take pandemic prevention and preparedness seriously. No real contingency plans in place.
- Set up of a non-equitable access system for vaccines. Rich countries have surplus that should be shared.
- · Applied very strict intellectual property regulations.
- \cdot Communicated what science does in a sub-optimal way.
- Science matters to take decisions but scientists are not the only relevant players. We should also consider governments and society.

General reflections on key issues to successfully face a crisis:

- Without a knowledge-based society we cannot face present and upcoming challenges and find innovative solutions to tackle them.
- Funding research an innovation in a wide range of themes and sectors is of paramount importance –we don't know where the next crisis is going to come from.
- Generous leadership and cross-sectorial collaboration are the bases for the advancement of research and innovation. Exemplified in the importance that the collaboration of clinicians, biologists, data scientists, mathematicians, engineers, informaticians, sociologists, economists (and others) had during the pandemics.
- \cdot We need a societal debate on the use of clinical data for the advancement of research and the improvement of health.





- We count on a generous society (industry, academia, citizens and individuals) that are ready to help philanthropically when needed.
- There is such thing as good competition. Under good competition, we get business and powerful people to compete for everyone else's sake (like in the case of the development of the vaccine).
- Market competition has benefits: it can yield lower costs and prices for goods and services, more choices and variety, greater efficiency and productivity, economic growth and development and more Innovation, such as helping accelerate the development of lifesaving vaccines, diagnostics and therapeutics. And also has pitfalls: It can induce people to be less cooperative, promote selfishness and free-riding and reduce contributions to public goods. Competition between countries can result in inequitable distribution of benefits.

Prof. Jordi Garcia (Vice Rector for Research, UB) closes the plenary session with a reflection on the previous speakers' presentations. He emphasizes the key role collaboration among institutions and researchers play in the new European higher education environment. This connects with the CHARM-EU aims and the TORCH Project values: Transdisciplinarity, Gendered Innovation, and Ethics and Integrity; which will reinforce our cooperation with non-academic actors, citizen science practices and public engagement, and the Open Science movement. Finally, he stresses the importance of young researchers in shaping the future R&I scenario.

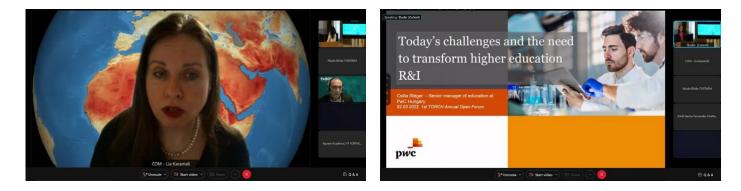










Figure 2. Plenary Session. R&I Trends in (Post?) Pandemic Scenarios. Speakers: Prof. Enikő Magyari (ELTE), Ms. Apostolia Karamali (EC Directorate-General for Research and Innovation), Dr. Csilla Stéger (PwC Hungary), Prof. Joan X. Comella (Vall d'Hebron Institute of Research), Prof. Jordi Garcia (UB).





3.3 Panel Session. European Universities: Towards a Reform of the Research Assessment System⁸

A reform of the research assessment system for research, researchers and institutions to improve their quality, performance and impact was called out as a priority area for joint action in the ERA policy agenda 2022-2024 which was approved as part of the Council conclusions on the future government of the ERA on 26th November 2021. This session discussed the rationale, the proposed approach and principles and work to date, analyzing the challenges and benefits to reforming such a multi-actor system to support a diverse range of outputs, activities and career directions. The panel also looked at the role that the European Universities initiative can play in driving such reform and considered whether there are benefits for teaching and other activities outside of research.

PANEL SESSION. EUROPEAN UNIVERSITIES: TOWARDS A REFORM OF THE RESEARCH ASSESSMENT SYSTEM

Presenter: PROF. ENIKŐ MAGYARI. Eötvös Loránd University.

Chair: Ms. DORIS ALEXANDER. Associate Director of European Engagement, Trinity College Dublin.

Speakers:

• PROF. LUDOVIC THILLY. Executive Board Chair, Coimbra Group.

· DR. ANOUK TSO. Director of International Affairs, University of Amsterdam (EPICUR Alliance).

· DR. TULLIO VARDANEGA. University of Padova. Research Project Supervisor (ARQUS Alliance).

• PROF. FRANK MIEDEMA. Vice Rector for Research, Utrecht University (CHARM-EU Alliance).

Rapporteur: Dr. JAIME LLORCA. TORCH Project Manager, University of Barcelona.

Prof. Enikő Magyari (TORCH Project, ELTE) presents the panel session 'European Universities: Towards a Reform of the Research Assessment System'.

Ms. Doris Alexander (CHARM-EU, TCD) chairs the session, and introduces the topic, briefly reviewing the recent development in the European higher education framework with regards to the researchers and institutions evaluation system reform. She mentions the challenges and benefits of such reform, and its linkages to the ERA strategy for 2022-2024 (Action 3). These changes need to have an effect on the whole research ecosystem, including R&I and higher education institutions, funders, and individual researchers. Gender equality and inclusiveness also must be part of this. She points out there has been a lot of consultation with the EC concerning this issue during the last year, and acknowledges the great work the European Universities have been doing through their SwafS projects, by addressing the strengthening of human capital and the rewards and incentives system,

⁸ Morning sessions recording available at: <u>https://www.youtube.com/watch?v=UthRInHKvsA</u>





and also via other transformational modules (e.g. Open Science, academia-business cooperation), which are stepping stones to accomplish a successful reform of the assessment models.

Prof. Ludovic Thilly (University of Poitiers) presents the role and views of the Coimbra Group on reforming the research assessment system. Such revision entails a number of opportunities:

- · 'European agreement and Coalition approach'. A timely initiative for universities to open the discussion on a possible reform of their research assessment.
- · Bottom-up, flexible approach, commitment to concrete actions.
- A much-needed change: transition from quantitative to more qualitative assessment of research and researchers.
- An opportunity to address the 'disciplinary injustice', which has negative effects on disciplinary 'reputation', distribution of funds, development of recognized research, career opportunities...
- · An opportunity to address gender bias in research.
- · A good starting point for mainstreaming Open Science through an emphasis on quality and equity.

Some challenges are also foreseen, as for instance: Setting up an EU framework that respects the autonomy of institutions and allows for differences in implementation; a systemic transformation is required, which has to be implemented quickly and co-creatively, with all stakeholders, and with strong interdisciplinary leadership; the legal aspects inherent to any reform of research assessment systems; there will be no change if the reform has a negative impact on funding and careers; possible languages for/of publication and the role of English as a lingua franca are crucial issues to address.

Prof. Thilly lays out some possible solutions for the aforementioned challenges:

- Recognition of good examples/role models: willingness to sign such an agreement is led by example. The more organizations will be signing it and vocally support it, the more will be motivated to join: 'collective sense of belonging'.
- Monitoring mechanism to reflect and elaborate on how to equip academic communities and researchers with effective tools to participate, share their experiences and hold their organizations responsible.
- · It is crucial that evidence-base changes be well-described, effectively communicated and widely accessible
- Dissemination and appropriation should go beyond signatories. Public debate, including earlystage researchers/future senior academics (and all other stakeholders).





- What is needed to ensure visibility and wide participation: A support instrument for the reform; a comprehensive informative web site; a platform where to discuss progress and share experiences.
- Structured support i: setting up a "bank of experts", a knowledge bank of training materials; education and training on open science...
- · Incentives: e.g. target & performance agreements, third-party funding...
- · Links to other frameworks (e.g. HRS4R, European Competence Framework for Researchers, etc.).
- Target researchers at all career stages (not just early career) to have a systemic impact (role of trainers and evaluators).

The expectations from the Coimbra Group could be summarized in getting more details on the European agreement; on some sort of international alignment with the rest of the world; and reaching an agreement that should allow signatories to integrate previous successful activities.

Dr. Anouk Tso (University of Amsterdam, EPICUR Alliance) presents the Researcher Assessment Framework, EPIQAssess, developed by EPICUR. The main objective is to create proof-of-concept for a holistic, inter- and transdisciplinary approach for collaborative research with and for a European society driven by early career researchers, by introducing a roadmap comprising two core elements:

- · Three experimental collaborative formats: EPICommunity, EPIClusters, EPIConnect.
- · A set of tools to support New Ways for Researcher Assessment: EPIQAssess, EPIGame.

European Universities should create attractive, creative, safe and sustainable academic homes for their most valuable resource: their human capital. However, current research and staff assessment models are not sufficiently catering for value performance or acknowledgement of competencies and skills. Thus, there is a demand for practical models to help universities achieve these objectives.

EPIQAssess characteristics can be summarized through some key features: it constitutes a practical tool; builds on robust analysis of policy papers; has an actionable, flexible, and dynamic approach. Its guiding principles are: Researcher perspective; Entire career life cycle; multi-dimensional; quantitative and qualitative criteria; adaptable to all disciplines. The next steps foresee its experimentation at four levels:

- · Deploy framework in online community: EPICUR as a testbed.
- · Institutional transformation: EPICUR member universities.
- · Structural impact: Could it be take-up by peer Alliances?





• Proactively influencing policy: Input to EC coalition approach.

Dr. Tullio Vardanega (University of Padova, ARQUS Alliance) introduces ARQUS R&I project, and describes its advances concerning the research evaluation models, as a result of a joint reflection from the partner institutions. The goal being to help make research assessment practices fitter to recognize, retain, and attract top talent. Firstly, the dominant criteria (currently being phased out?) have serious flaws:

- Slanted inward (peer only), single-sided (quantitative), impersonal (outsourced). Also, are specific types of publications the sole goal of research work?
- Scarcely apt to capture the diversity of research work and products, and to relate to the world outside.

The focus must be put in sustaining practices that widen the recognition of research products (Open Science) and modes of delivery (public outreach, knowledge transfer). As the main outcome, five questions to governing bodies of institutions are posed:

- How far do your research evaluation criteria capture the diversity of research disciplines, products, and cultures?
- · Is the transition to Open Science a strategic priority for you?
- · Do you contemplate the adoption of "narrative CV"?
- Do you contemplate the adoption of personalized objective-based evaluation attached to careeror salary-grade progression?
- · Is your research-product repository adequate for emerging needs?

Prof. Frank Miedema (UU, CHARM-EU Alliance) reflects on the previous speakers' points, and insists on the importance of exchanging information on the actions we are taking in our institutions, as we are currently doing within the Alliances and LERU. Reforming research evaluation, recognition and rewards is needed to change science to the way we want science to operate. It is essential to keep in mind the higher purpose we want to achieve: more impact for society. In that sense, we need to reward researchers for spending time in building a relationship with society, as for instance, UU introduced in its Open Science strategy⁹.

The evaluation system should get over old hierarchies that favored some disciplines over others (e.g. social sciences and humanities), and also flawed dynamics between the North and global South. In order to change the assessment system, we must keep in mind what is the strategy of our units,

⁹<u>https://www.uu.nl/en/research/open-science</u>

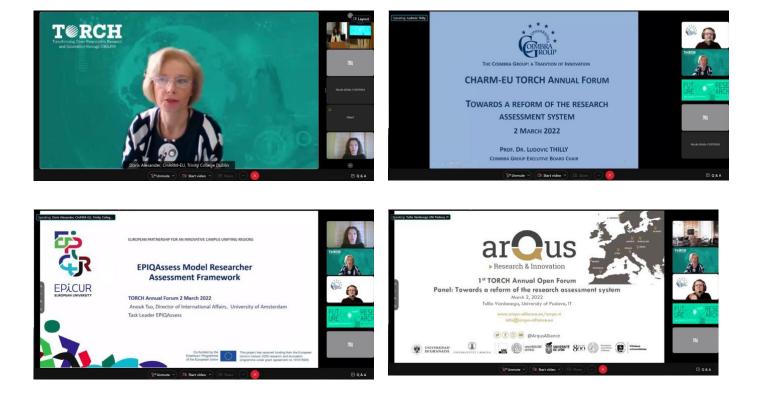




departments, etc. What do we want to achieve with our research, what is our mission, and what do we want to deliver to society. It is all about strategy, not only for young researchers' careers, but also for senior staff and institutional leadership, because if we change the evaluation method, we will be changing the reputation and the funding allocation system. Thus, basically, we will be changing the whole idea of what science is about. This process is, in a sense, a power game, a social and political game, since most of the resistance comes from those who might lose with the change.

Research evaluation is extremely context-dependent, and as such all types of science must be recognized and acknowledged. It is also about equality, diversity and inclusion, as diverse scientific disciplines need to be involved in producing sound advances and significant knowledge. Finally, it should not only be considered a European movement, but a global one.

After the presentations, a short interval for debate is opened, to discuss the need of connectivity (for research assessment, and across the European agenda), so that we can ensure the needs of all member states, institutions, and across are taken into account.







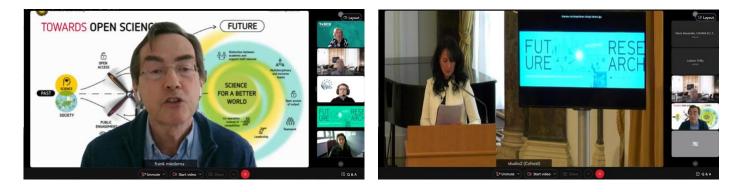


Figure 3. Panel Session. European Universities: Towards a Reform of the Research Assessment System. Speakers: Ms. Doris Alexander (TCD); Prof. Ludovic Thilly (University of Poitiers); Dr. Tullio Vardanega (University of Padova); Prof. Frank Miedema (UU), Prof. Enikő Magyari (ELTE).





3.4 TORCH Clusters. Crosscutting conversations across R&I topics and sustainability

These sessions sought to combine R&I impact/actions and sustainable factors. In order to enhance policy coherence by promoting systemic approaches across the same challenges (SDGs/European Green Deal) while presenting main progresses on the TORCH project and other Alliances' SwafS projects. It was divided into four parallel thematic clusters (linked to different transformational modules) to cover diverse topics on R&I using the European alliances experiences as a reference point.

Each group was led by a chair (to guide the session and discussion, providing questions and moderating the audience's participation), and had a rapporteur (that took notes, describing the content of the session, including results and challenges coming out of the debate).

TORCH Cluster 1: R&I Common Science Agenda and European Universities¹⁰

This session went over the methodology and sharing preliminary results, learning and experiences from EU alliances in its work on identifying research strongholds and using bottom-up protocols to compare institutional priorities and good practices.

Each speaker had a 10-15 minutes PowerPoint presentation followed by a discussion and ideas exchange with all participants.

Cluster 1: R&I Common Science Agenda and European Universities

Chair: DR. FIONA KILLARD. Head of Strategic Research Development, Trinity College Dublin.

Speakers:

- PROF. ALBERT DIAZ. Director of the Institute of Complex Systems, University of Barcelona (CHARM-EU Alliance).
- PROF. KATARZYNA MOLEK-KOZAKOWSKA, University of Opole. DR. MARIA DOLORES PITARCH, University of Valencia (FORTHEM Alliance).
- DR. NIHAN YILDIRIM, DR. EMRAH ACAR, DR. HÜR BERSAM SIDAL BOLAT. Istanbul Technical University (EELISA Alliance).

Rapporteur: DR. JAIME LLORCA. TORCH Project Manager, University of Barcelona.

The session, chaired by **Dr. Fiona Killard** (TORCH Project, TCD), comprised presentations on the advances towards a common scientific agenda from three Alliances (CHARM-EU, FORTHEM, EELISA), in their SwafS projects framework.

¹⁰ Session recording available at: <u>https://www.youtube.com/watch?v=Cr47EQn5rDo</u>





Prof. Albert Diaz (UB) presented TORCH's experience and progresses to date. TORCH's WP4, entitled 'Common Science Agenda', is focused on developing a list of potential research challenges CHARM-EU could tackle within each of its thematic areas, which could be developed further as pilots during the second half of the Project. These challenges, connected to the UN Sustainable Development Goals (SDGs), acknowledge the five institutions research interests, as well as their strengths and complementarities, and takes into account the state of the art, the financing mechanisms, barriers, and common infrastructures needed to implement them.

In order to achieve the WP4 goals, several sequential tasks have been carried out. First, a preliminary analysis on specialization and complementarities, mainly based on bibliometrics, was developed as an initial step. This study helped identify the main research trends within the five universities.

The second step focused on conceiving a list of potential research challenges the Alliance could develop further as pilots during the second half of the Project, from a multi -disciplinary, multiuniversity and gender-balanced perspective, combining curiosity-driven and utility-driven research, with a clear view on their societal impact. A multi-step participatory process was carried out, which was supported with a bibliographic analysis that helped establish the current state of authorship networks among the Alliance. The participatory process involved 389 researchers in its first phase, and led to the definition of three target SDGs, considering also each partner research priorities: SDG3 - Good health & Well-Being; SDG10 - Reduced Inequalities; SDG13 - Climate Action. A subsequent participatory step facilitated the organization of three SDG-driven focus groups, in which around 100 researchers participated, to settle on the topics that could be developed further as challenges. Six research challenges were proposed by the diverse researchers' sub-groups.

As an added value of the tasks carried out within this process, an interactive tool based on bibliographic analysis of current authorship networks was developed. This instrument will be available for the academic community of the CHARM-EU universities, and would help uncover researchers with common interests based on their scientific production.

The third and final step constituted an inquiry on financing mechanisms, barriers and existing infrastructures for the common scientific agenda to be implemented, and, more specifically, for the research challenges set out during the previous task to be pursued further.

Prof. Katarzyna Molek-Kozakowska (University of Opole) and **Dr. Maria Pitarch** (University of Valencia) presented FIT FORTHEM, and the steps and methods to collect data for a joint R&I strategy and sharing of resources within the FORTHEM Alliance.

The co-creation of common long-term R&I agendas comprised two steps:

• A SWOT analysis of the FORTHEM R&I capacities (involving focus groups and interviews with research administrators and experts).





· A survey on institutional R&I policies and practices in European Universities.

The aim was to measure awareness of institutional practices related to: Internationalization of Research; Open Science; Co-creation with external stakeholders; Science communication; Human capital. As a result, the Alliance published a book on existing best practices, including 86 good practices¹¹.

Concerning the connection, access and sharing of R&I resources, several steps were taken:

- Assessing the possibilities for linking of digital content for virtual access to research resources. Survey designed for, presented to, discussed with and filled in by the partners.
- Interim results. Identification of high potential research groups in SSH and PE/LS. Selection of Collections and Cultural Heritage items at partners' disposal
- Sharing the results. Bootcamp "The Social Sciences and Humanities Strongholds of the FORTHEM Alliance!". Meeting for the next FORTHEM funding application. FORTHEM Newsletter. General Assembly meeting.

The speakers finalized their presentation by sharing results regarding existing intersections among different research groups within FORTHEM in diverse research fields, such as:

- Social Sciences and Humanities: Individuals, markets and organizations; Social policies, welfare, work and employment; Language learning and processing; Cultures and cultural production; Human mobility, environment and space.
- Physics and Engineering: Nanophysics; Physical and analytical chemical sciences; Synthetic chemistry and materials; Earth system science.
- Life Sciences: Bioinformatics and computational biology; Physiology in health, disease and ageing; Food biotechnology and bioengineering.

The third presentation was by **Dr. Nihan Yildirim**, **Dr. Emrah Acar**, and **Dr. Hür Bersam Sidal Bolat** (Istanbul Technical University), introducing the EELISA Alliance and their SwafS project InnoCORE¹². The project focuses on the R&I dimension of the Alliance in a three-step plan:

• Make researchers and innovators know each other, create spaces for dialogue with citizens and with non-academic actors and set up a portfolio of shared scientific infrastructures; and a new networking platform that will give them access to the common research strategies.

¹¹ FORTHEM Alliance Universities' Selected Good Practices in R&I Towards a European University: <u>https://www.forthem-alliance.eu/about-us/news/detail-view/t/70450/</u>

¹² EELISA InnoCORE: <u>https://eelisa.eu/eelisa-innocore/</u>





- Foster and support the development of joint R&I actions and the creation of new structures (research groups, clusters, joint labs, start-ups, scientific parks).
- Optimize the outreach of R & I actions, maximizing their impact and promoting the knowledge exchange.

The InnoCORE R&I strategy for European Universities is based on: the collective nature of the EELISA Alliance; acting with a shared vision a collaborative strategy development process; comprehensive strategic understanding; attention to identifying intra- and inter-organizational resources; emphasizing the complementarities; detecting and unleashing synergies/complementarities among alliance members; combining strategic research lines and dimensions of the R&D strategy. In order to achieve these goals, a top-down and bottom-up approaches are combined.

A number of actions have been carried out within this task:

- \cdot Mapping of Strategic Research Areas of all EELISA Partners.
- · Analyzing, cataloguing, and matching existing resources of the alliance members both among and across the network.
- Map existing research infrastructures and facilities: Align existing infrastructures to optimize individual member investments and identify potential areas of joint investments.
- Strengthen the organizational capital of the alliance by linking EELISA community challenges.
- Embed the novel value-added activities to the existing alliance practices and extend the social capital of the alliance by coordinating its activities across the FOREU2 network.

Two pilot areas of research on grand challenges, and 11 strategic research areas have been identified. Pilot areas: 1) Smart, Green and Resilient Cities; 2) Sustainable and Smart Industries. Strategic Research Areas: 1) Artificial intelligence; 2) Health; 3) Digital; 4) Culture, creativity and inclusive society; 5) Climate, energy and mobility; 6) Connectivity; 7) Food, bioeconomy, natural resources, agriculture and environment; 8) Social sciences and humanities; 9) Advanced material science and engineering; 10) Smart industry and space technologies; 11) Natural sciences.

These are explored according to the intervention areas of six clusters of the EU Horizon 2030 programme, as empowering research and innovation in these strategic areas within EELISA InnoCORE R&I strategy will serve the mission of contributing to a sustainable, digital and inclusive Europe. The linkages with the UN SDGs have also been explored.

The speakers' final remarks focused on the future directions of the project, in particular related to the mapping of strategic research areas within the Alliance, and involving:





- · Analysis, and enhancement of Labs and facilities as infrastructures.
- · Platform and Database creation on researchers, communities and clusters.
- Research Output and Efficiency Analysis: The research outputs of EELISA Innocore partners per capacity measures.
- EEELISA InnoCORE strategy will leverage the academic corporate collaboration and high impact competency of partners for creating industry linkages towards the mission and performance improvement in strategic research areas with industry collaboration.
- Additional efforts for providing a higher level of economic impact. R&I strategy also contribute to expanding funding sources.

A brief dialogue followed the presentations, focused on the challenging tasks developing a common R&I agenda across European Universities entail, as well as on different methods and tools for bibliographic analysis on institutions' collaboration and strengths.

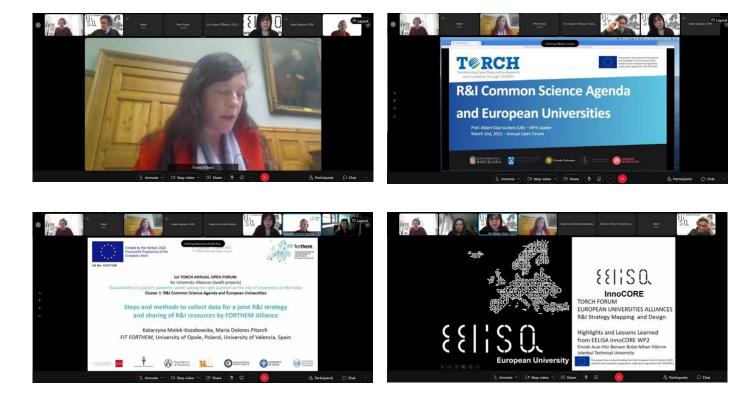


Figure 4. TORCH Cluster 1: R&I Common Science Agenda and European Universities. Speakers: Dr. Fiona Killard (TCD); Prof. Albert Diaz (UB); Dr. Katarzyna Molek-Kozakowska (University of Opole); Dr. Maria Dolores Pitarch (University of Valencia); Dr. Nihan Yildirim, Dr. Emrah Acar, Dr. Hür Bersam Sidal Bolat (Istanbul Technical University).





TORCH Cluster 2: Business & Society and Academic Cooperation¹³

The objective of the session was to share best cases from universities on collaboration between business and university or on spin-off creation. A few discussion questions were laid out prior to the meeting, in order to steer the conversation:

- Based on these good experiences/best cases, how to go beyond and improve even more the cooperation between academia and Business and Society?
- How did the 2 years of sanitary crises impact this cooperation? (Share positive elements).
- How to go beyond national borders and create a common way of cooperation between academia in the EU and business?

Each speaker had a 10-15 minutes PowerPoint presentation followed by a discussion and ideas exchange with all participants.

Cluster 2: Business & Society and academic cooperation
Chair: Ms. INESE ROZENSTEINE. TORCH Project Manager, University of Montpellier.
Speakers:
· PROF. BENOÎT BARDY. University of Montpellier, BEAT HEALTH Project (CHARM-EU Alliance).
 DR. ZOLTÁN URBÁNYI. Biotechnology Research Department, Eötvös Loránd University (CHARM-EU Alliance).
· PROF. ANICET BLANCH. University of Barcelona, Bluephage (CHARM-EU Alliance).
 Dr. RASA VIEDERYTE. Klaipeda University, Manager of EU-CONEXUS Research for Society (EU- CONEXUS Alliance).
• DR. JOSEP BORDONAU, DR. JUAN JESÚS PÉREZ, DR. CRISTINA ARESTÉ. Polytechnic University of Catalonia, UPC-BarcelonaTech (Unite! Alliance).

Rapporteur: Ms. ELÉA PIPPO. TORCH Project Manager, University of Montpellier.

TORCH WP5 identified different success stories coming from partner universities. These success stories include cooperation of researchers with different non-academic actors, creation of spinoffs/start-ups, boosting innovations and other activities. The objective of the cluster was to present these initiatives and demonstrate how they are contributing to sustainability in post pandemic world. During the cluster, three TORCH universities and two other European University Alliances were asked to present a success story of an academic spin-off creation or collaboration between a

¹³ Session recording available at: <u>https://www.youtube.com/watch?v=k7wWpHsjIGk</u>





researcher/a research group/ a university and an enterprise that had an innovative and sustainable impact in addressing specific end-user needs or societal challenges, related to TORCH focus areas. To emphasize a focus on knowledge and technology transfer, each presentation could include an explanation and how the university's TTO has supported the project presented. The session is chaired by **Inese Rozensteine** (TORCH Project, UM).

Prof. Benoît Bardy (UM) presented the project BEAT HEALTH¹⁴, a musical application for the rehabilitation of Parkinson's patients and the training of athletes. From 2013 to 2016, BeatHealth was a collaborative project (STREP) co-funded by the European Union under the Seventh Framework Programme (FP7). The project is one of the winners of the ICT 2013 Call 10 in the Challenge 5.1 (Personalized health, active ageing, and independent living). From 2017 to 2021, the project beneficiated from maturation funding with the support of the University of Montpellier and the SATT AxLR tech transfer society and the Region Occitanie.

The project resulted in an international patent and was laureate of several innovation competitions (for instance Companies on Campus from Montpellier University of Excellence, Time-to-market Factory from the SATT AxLR, Deep Tech Funds from BPI France). The objective of the Beat-Health project was to develop an intelligent smartphone application that guarantees optimal and personalized synchronization between the person's pace and the music. The application is connected to movement sensors on the person and sends the data to a computing server which in turn adjusts the rhythm of the music to optimize the person's movement, in a real-time dynamic feedback loop.

A study was conducted on the neurological mechanism that links movement and music. It found that music acts as a distraction from effort or suffering, and is a source of motivation. In fact, it acts as a natural synchronizer and helps to stabilize walking or running. Progress has been noted for Parkinson's patients, particularly in reducing the number of falls. A cognitive architecture was developed, including the synchronization algorithm, its customization according to the profile of the users (patients and athletes), and a smartphone application adapted to patients (BeatPark) and athletes (BeatRun) was developed. A dozen experiments were carried out with healthy volunteers and with patients suffering from Parkinson's disease, quantifying the interest and effectiveness of BEAT-HEALTH for rehabilitation and sport.

The project has resulted in twenty international publications and a patent. Given these encouraging results, a multi-center clinical study was undertaken to validate the device on a very large number of patients and athletes. The technology transfer to the medical and sports world has begun. During the summer 2021, BeatHealth SAS was created with seven associates. The society now employs 10 persons. The society commercializes five solutions for rhythmical abilities.

¹⁴ Beat Health: <u>http://www.euromov.eu/beathealth/homepage</u>





To sum up, Prof. Bardy presented the keys elements of success for science-bases entrepreneurial project:

- \cdot Be open to innovation activities.
- \cdot Societal impact from first clinical trial results a clear push.
- \cdot Decisive and operational role of the SATT AxLR.
- · Facilitating role of the University of Montpellier.

Prof. Anicet Blanch (UB) presented Bluephage¹⁵, a biotechnological spin-off specialized in producing testing kits to identify fecal and viral indicators within water. They developed a new approach for analyzing coliphages as viral indicators of water quality.

Prof. Blanch started his presentation with key numbers to explain why microbial water quality assessment and monitoring is critical for water safety plans and sanitation safety plans. Indeed, bacterial indicators are limited and cannot detect the presence of viral pathogens, while coliphages can. He then presented what is coliphages and how to analyze them. Then, he presented the Bluephage approach and technology: a patented bacterial host strain for coliphages that turns its growing culture into blue color in presence of infective virus. The Bluephage method allows to provide results in a working-day on average six hours. They have decided to create a spin-off to transform and transfer knowledge to market, outside of the university at industrial level.

Prof. Blanch highlighted having a very good experience working with research groups, with the sharing and creation of new knowledge, the creation of a patent. He highlighted the importance of seed capital support and of competitive public funding to support valorization of public research and transfer to industrial level.

The research-based start-up has received several funding and awards from its constitution in 2017 up to now, for instance the Proof of Concept from the Bosch i Gimpera Foundation of the University of Barcelona in 2017, the SME Award from « Water Europe Innovation Award » in 2020, just to take a few examples. In addition, Bluephage has beneficiated from the European Commission funding 'Seal of Excellence' twice in 2020.

The third speaker was **Dr. Rasa Viederyte** (Klaipeda University, EU-CONEXUS Research for Society). She spoke on the subject 'Towards more efficient cooperation: First steps are done. What are the second ones?'. Her presentation focused on Innovation Roadmap for accessing innovation communities, mainly of the strategic steps to be done in order to get closer to business and society.

¹⁵ Bluephage: <u>https://bluephage.com/</u>





As the EU-CONEXUS core thematic area is Smart Urban Coastal Sustainability, the presentation also shortly outlined collaboration strategic direction towards ports and cities. Additionally, she presented an example of Inobiostar¹⁶, a spin-off from Klaipeda University, as part of EU-CONEXUS. This spin-off has developed an aerogel - a paper-based material that absorbs only oil and not water, and thus allows oil from the environment to be removed quickly, efficiently and in an environmentally friendly way. In 2020, they filed an EU patent. In 2021, the took part of ClimAccelerator, an accelerator programme for science, innovation and technology. The product launch is planned for October 2022, and the sale and marketing strategy and entrance on the market for 2023. The end-users of the product developed by Inobiostar are manufacturing, shipping industries, ship building industries.

Forthcoming, the spin-off will apply for Women Tech EU from the European Commission and the EIC-EIT Climate-KIC from the European Innovation Council, a call co-funded by the European Union.

Then, **Dr. Zoltán Urbányi** (ELTE) presented the very active and living collaboration between the two entities. There are four main fields of the ELTE-Richter collaboration:

- · Common research projects.
- · Common R&D grants.
- "Contract Research Organization" university as a service provider.
- Education

First of all, ELTE is a service provider to the company for developing analytic network and perform research tasks. Moreover, Richter Plc and ELTE University are working on a common research project currently in preclinical phase: ACE2-Fc to develop fusion protein for the treatment of COVID-19 disease. The project was initiated in March 2020 by ELTE and supported by the Hungarian Ministry of the Innovation and Technology. It involves ELTE, Gedeon Richter, University of Pécs and Immunogens Ltd. Finally, Richter Plc is involved in the education programmes of the ELTE university, notably with a Biotechnology Mcs Program, which train future talents for the Biopharmaceutical industry, internships, invited lecturers etc.

This presentation has allowed to present a multi-faced collaboration between the academia and an enterprise in various activities, to train students, conduct joint research and valorize public research in order to create goods and services useful for society in a pandemic scenario, such as COVID-19 treatment.

¹⁶Inobiostar: <u>http://www.inobiostar.com/</u>





The final speaker was a representative of UNITE!¹⁷, **Dr. Joseph Bordonau** (Polytechnic University of Barcelona) presented the UNITE! progress to create an "Open Innovation Community" within the consortium and to develop Regional Innovation Strategies to share the agendas with companies in three main areas of collaboration: Smart Specialization Strategies (S3), Lifelong learning, and Ethics in Sustainable Engineering. He highlighted the need for lifelong training in regions to upscale, reset and keep up-to-date skills.

The UNITE! Alliance has developed a classification grid to classify and rank their different partners and external actors to see which strategy they should follow to approach and manage them according to their profile. From this classification grid, different categories of actors (+450 actors) have been identified:

- · Associations, Community and Coworking.
- · Education and Research.
- · Incubators, BICs, Accelerators and Science Parks.
- · Investors.
- · Public institutions to co-build the agenda.
- · Trade Unions.
- \cdot Non-profit organizations can contribute the matically.
- \cdot Companies.
- Industry associations allow SMEs to be involved. Usually SMEs do not have the capacity to be involved so approaching industry associations is an effective way to include them.

Inese Rozensteine, chair of the session, suggested the speakers to answer one or more questions of their choice from the three proposed questions for discussion (see above).

Prof. Bardy was happy to underline the numerous similarities between the paths of the different speakers on public research valorization and transfer, similarities in the way to do things, even if coming from different countries. He votes for the European model to boost collaborations between academia and business and for more collaboration between European countries. He really appreciates the European Union context for collaboration, the mix of cultures and actors. The European Union context allows to bound together, learn together and create confidence. He believes that the European Commission Seal for Excellence is an excellent idea and he is in favor for more European mechanisms to push for collaboration between academia and business. Would also

¹⁷ UNITE! University: <u>https://www.unite-university.eu/</u>





like to see more incentives to support scientists to engage in public research valorization and transfer. He gave the example of reducing the teaching time of lecturers-researchers being involved in a technology transfer process. To go beyond and improve collaboration between business, society and academia, Prof. Bardy calls for even more FACILITATION mechanisms from universities and local, national and European institutions.

Prof. Blanch deplores the lack of funding/budget accessible to support public research valorization and technology transfer. In addition, he notices that there are a lot of legislative limitations within Europe that limit models of transfer available and that sometimes result in brain drain, good scientists running away from the European stage and from the European market. Also, he notes that the DMOs are not always fitted for tech transfer.

Then, Dr. Viederyte presented four key elements in order to go beyond and develop more collaboration between business and academia:

- · Focus on joint research and development projects.
- · Focus on open access centers, capacities and resources.
- · Strengthen Technology Transfer Offices and Centers.
- Continuous communication and valorization of research, sharing good practices, more inclusive participation.

She also notes that it is essential for the universities, their scientists and research to be visible. Answering the second proposed question for discussion, Rasa Viederyte shared the positive elements that emerged from the Covid-19 pandemic and its impact on Research and Innovation. The Research and Innovation has beneficiated from the common positive outcomes of Covid-19 when it comes to working remotely, such as online meetings and other remote digital tools. The remote working has allowed research groups and universities to improve their capacities in transfer networks, sharing of common activities and strengthening remote cooperation. Finally, Rasa Viederyte gave some answer elements for the proposed third question on how to go beyond national borders to improve collaboration within the European Union and beyond. She believes that do so, we must start by working on building capacities with our internal existing resources and that we should work as a system. In order to enter new markets, we firstly need to identify the demand areas for such cooperation.

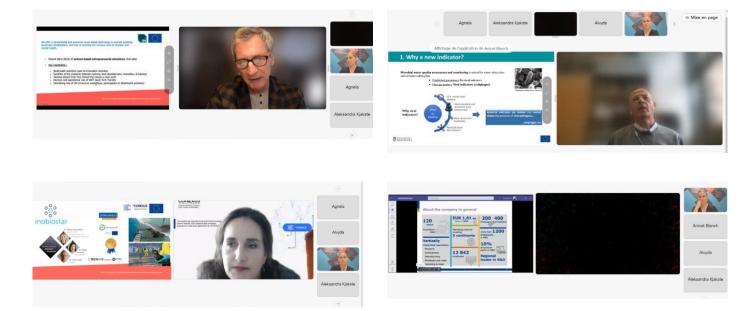
Dr. Bordonau shared to be very enthusiastic seeing and hearing about these success stories and believes that using novel effect is very useful to raise awareness about what some researchers are doing to valorize and transfer public research. Universities and European Alliances must all joint the common strategy lead by the European Commission. It is also important to define and use indicators to valorize research generated from the research groups and see is the market is effectively





addressed. Finally, he highlighted the importance of pro-activity of researchers, research groups, universities and Alliances in showing and proving to society and politics that we are able as academic community to do applied research and provide useful and economically viable solutions, goods and services for a sustainable world. As a first start, a simplification of bureaucracy in the formalization of collaboration between scientists and enterprises would be welcome.

As a closing remark, it was very interesting to meet between European Universities Alliances and to share best cases. It has allowed us to see the similarities between our Alliances, between Business & Society and academic cooperation, and the paths of spin-off creation. The presentations have also shown the importance of having access to various source of funding at different stages of the process of research valorization and technology transfer. Speakers were also able to share some avenues for reflection to go beyond and strengthen theses collaborations, at different level (local, national, European or even international).







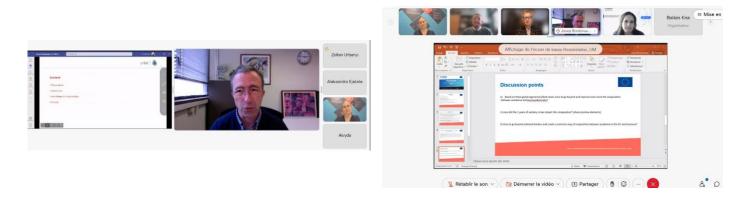


Figure 5. TORCH Cluster 2: Business & Society and Academic Cooperation. Speakers: Prof. Benoît Bardy (UM); Prof. Anicet Blanch (UB); Dr. Rasa Viederyte (Klaipeda University); Dr. Zoltán Urbányi (ELTE); Dr. Josep Bordonau (Polytechnic University of Catalonia); Inese Rozensteine (UM).





TORCH Cluster 3: Public Engagement¹⁸

Public engagement and transdisciplinary science are key in realizing Open Science and in engaging societal actors in the generation and use of (scientific) knowledge. Many universities around the globe, including European Universities, are navigating their way to develop an understanding of these concepts, and to integrate these into their core mandates and operationalize these in both research and education. What are the current modalities and good practices for stimulating public engagement and transdisciplinary science? And what are the incentives and disincentives in doing so? During this session, some of the good practices and (dis)incentives for public engagement and transdisciplinary science at the individual level, the university level, the systemic levels, and the level of stakeholders were discussed. A variety of speakers were invited representing these different levels and engaging in a discussion of existing opportunities and challenges, as well as to explore future steps to reach and/or push the boundaries of Open Science.

Each speaker had a 10-15 minutes PowerPoint presentation followed by a discussion and ideas exchange with all participants.

Cluster 3: Public engagement

Chair: DR. MARJANNEKE VIJGE. Copernicus Institute of Sustainable Development, Utrecht University. Speakers:

- DR. ANNISA TRIYANTI. Copernicus Institute of Sustainable Development, Utrecht University (CHARM-EU Alliance).
- · DR. KATE MORRIS. Head of Campus Engage, Irish Universities Association.
- DR. TROELS JACOBSEN. Director of Innovation and societal engagement, University of Stavanger (ECIU Alliance).
- DR. TOMAS BERKMANAS. Faculty of Law, Vytautas Magnus University (T4Europe Alliance).

Rapporteur: Dr. KIRSTEN HOLLAENDER. TORCH Project Manager, Utrecht University.

The session, chaired by **Dr. Marjanneke Vijge** (TORCH project, UU), which drew 21 participants, opened with a presentation on TORCH Work Package 7 on (dis)incentives for public engagement and transdisciplinary science" by Dr. Annisa Triyanti (TORCH project, UU), followed by two representatives of two other European University Alliances: Dr. Troels Jacobsen (ECIU Alliance, University of Stavanger), Dr. Tomas Berkamanas (ECIU Alliance, Vytautas Magnus University). The fourth presenter was Dr. Kate Morris (Irish Universities Association).

¹⁸ Session recording available at: <u>https://www.youtube.com/watch?v=SdF7twfpEHo</u>





Dr. Annisa Triyanti (UU) shared results from WP7's empirical research at five TORCH partner universities focusing on (dis)incentives of public engagement and transdisciplinary science practices as part of the open science debate. TORCH WP7 on public engagement deals with practices for stimulating co-creation of challenge-driven research and innovation with societal stakeholders and furthering "democratization of science" by collecting and sharing existing practices. The research shows that recognition and rewards systems are key enablers for public engagement and transdisciplinary science. The team identified topics to address in the future such as harnessing open science as a way to become more inclusive and the need for institutional models to mainstream public engagement and transdisciplinary science within the larger open science movement. Universities can act as testbeds for innovation to support public engagement and transdisciplinary science and contribute to reducing inequalities.

Dr. Troels Jacobsen (University of Stavanger, ECIU Alliance) is also involved in the SwafS project SMART-ER, and explained their background and pointed to parallels with TORCH: both have work packages on Public Engagement and developing Research Strategies. ECIU has developed a joint long-term research strategy for SDG11. Their SMARTER- Academy addresses a.o. Public Engagement, citizen science, public engagement and Challenge based learning, focused on training and mutual learning of partners. Concerning incentives, they allocated seed funding to different research topics.

Dr. Tomas Berkmanas (Vytautas Magnus University, T4Europe Alliance) explained the approach of T4ERI (TRANSFORM4EUROPE Alliance). They have a strong participation from Eastern Europe. Also, they focus on Public Engagement, Open Science and Citizen Science. The latter is still not so well known or developed, for instance the national Bird Count day is a popular example, but approaches could be broader than this. During the discussion it became clear that activities in this area are more prominent in natural sciences and more difficult to be implemented on SSH fields, or even legal studies are more difficult to involve.

Dr. Kate Morris (Irish Universities Association) presented the Campus Engage programme of the Irish University Association which kicked off in 2014. One key element in their approach is to help researchers think backwards from the desired impact to identify steps how to achieve this. The many trainings they offer are growing in popularity, and to date more than 800 staff attended those with the latest one having a 400% over subscription. Their website is www.campusengage with many resources for how-to guides and policy briefings. Sharing successes and pioneering works, Dr. Morris also pointed to the need for knowledge transfer metrics. She shared their motto which is: If you want to go fast, go alone. If you want to go far, go together.

All participants agreed that it is challenging to sustain citizen engagement in projects beyond singular events. Also, they agreed that the terminology is understood and applied in diverse ways, concerning Public Engagement vs. Citizen Science.





Overall, there is a need to develop a more strategic approach for Public Engagement and citizen science, to date many activities are still fragmented and knowledge sharing is limited and although generally there is an agreement that this is important, there is no clear responsibility assigned. The participating experts indicated that the sharing of ideas and experiences in this pioneering field is very fruitful and would welcome more in-depth exchange in the future.

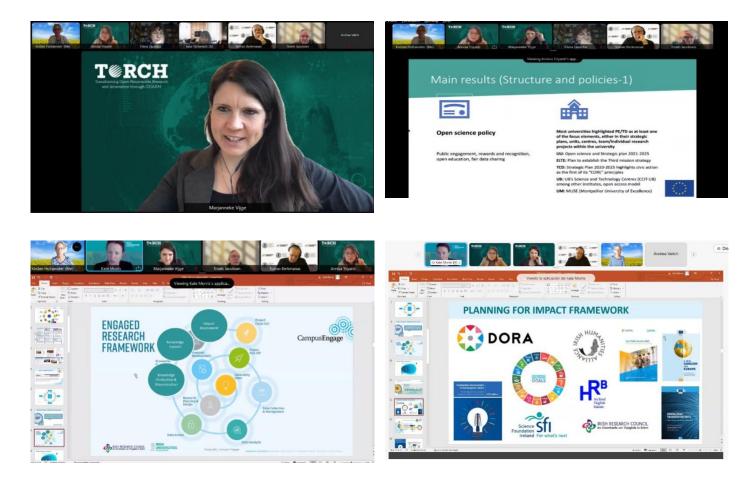


Figure 6. TORCH Cluster 3: Public Engagement. Speakers: Dr. Marjanneke Vijge (UU); Dr. Annisa Triyanti (UU); Dr. Troels Jacobsen (University of Stavanger); Dr. Tomas Berkamanas (Vytautas Magnus University). Dr. Kate Morris (Irish Universities Association).





TORCH Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda¹⁹

The TORCH Project aroused to strengthen CHARM-EU's academic and research networks by promoting a challenge-driven transformative agenda with a transdisciplinary and intercultural vision. At the Project's foundation lies Responsible Research & Innovation: three cross-cutting principles of Gendered Innovation, Ethics & Integrity, and Interdisciplinarity/Transdisciplinarity. These principles are strongly connected with four other areas of the Project: Common R&I agenda; Cooperation with Non-academic Actors; Open Science Practices; and Citizen Science & Public Engagement. The research the CHARM-EU alliance intends to strive towards will be based on the common strengths of the alliance institutions; it will involve cooperation with non-academic stakeholders; it will involve Open Science practices; and it will engage with citizen science and public engagement. The three cross-cutting principles are present throughout all these aspects of research. Developing a common European research framework in different countries and cultures and across a number of different disciplines requires addressing the challenges of ensuring ethically fully supported interdisciplinary research while incorporating cross-cutting principles analysis into all areas of R&I processes including career choices and opportunities as well as research project development and management. Having established our research strengths, we ask, how can we make our research even better?

Each speaker had a 10-15 minutes PowerPoint presentation followed by a discussion and ideas exchange with all participants.

Cluster 4: Cross-cutting principles to address a transformative R&I Agenda

Chair: PROF. GEMMA MARFANY. Rector Delegate for Scientific Dissemination, University of Barcelona. Speakers:

• PROF. LORRAINE LEESON. Associate Vice Provost for Equality, Diversity and Inclusion, Trinity College Dublin (CHARM-EU Alliance).

- DR. TILLANSGAR BAUMHAUER. Hochschule für Bildende Künste Dresden, EU4ART_differences Project Speaker & Leader (EU4ART Alliance).
- DR. MIREILLE STHUNS, Maastricht University. DR. NURIA BAUTISTA PUIG, Carlos III University of Madrid (YUFE Alliance).

Rapporteur: MR. JEDRZEJ OLEJNICZAK. University of Wroclaw.

¹⁹ Session recording available at: <u>https://www.youtube.com/watch?v=--L1IX07LkA</u>





Prof. Gemma Marfany (TORCH project, UB) chaired the session, and introduced some topics that could steer the conversation after the presentations: Open Science and social responsibility of academics; gender gap/inclusivity; research integrity and ethics; multiculturality.

Dr. Till Ansgar Baumhauer (Hochschule für Bildende Künste Dresden, EU4ART) first discussed the background of artistic research. Artistic practice can be approached as research to provide insight and knowledge. The topic has been approached from a variety of perspectives and methodologies, some of which are nation-specific; with regard to that last point, not all degrees can be obtained everywhere, e.g. Saxony cannot award a PhD in fine arts. The scope of artistic research encompasses a wide range of art-related topics, i.e., fine arts, music, film, theater. The project involves a number of aspects, such as fostering artistic practice and research, Third Cycle at art universities, internationalization, inclusivity, managing employees and staff as well as third mission. The difficulties of the project include the peculiarities of the system of education for arts and the questions of ethics and integrity.

The speaker addressed the gender inequality issues, mentioning the gender equity plans and gender gap, as well as intersectionality. For Dresden it is 60-40 F-M students, whereas on the job market the proportion shifts to 30-70 F-M.

The speaker then mentioned that artistic research involves the debate of the notion of acceptance and visibility thereof, as well as the methodologies of teaching (them being process oriented) and the legibility of the artistic outcome. Finally, artistic research emphasizes the inter-/transdisciplinarity and it is very successful in doing so; this facilitates the co-supervision across multiple disciplines, hands-on skill-focused teaching methodologies that involve the new digital technologies. Finally, he tackled the Western focus on aesthetics and artistic excellence and the questions of insight and knowledge production.

Prof. Marfany suggested that most of research is interdisciplinary, while research in Art often transcends that and facilitates the deeper, transdisciplinary level that involves more involved relationships between the disciplines.

Prof. Lorraine Leeson (TCD) discussed the ways in which we can make research easier in terms of collaboration, equity, ethics and multidisciplinarity in a European University Alliance

The speaker discussed the CHARM-EU R&I Dimensions Model: Inter/transdisciplinarity, Gender innovation and Ethics/integrity; all of those involve the research activity which is becoming professionalized, which thus comes with additional obligations (researchers have to engage with new types of activities). These encompass the transformational modules focused on shared strengths of the members of the alliance, such as the common R&I agenda. Engaging in this requires roadmaps and plans, which are fortunately available through project networks. The question





remains as to how to connect all those different, individually-developed pieces, develop joint policies etc.

Research ethics and integrity is an essential element of responsible R&I - making joint research easier requires streamlining the way in which implementing joint administrative processes are handled on the cross-institutional level. In terms of inclusiveness, gendered equality and other equality grounds the speaker stressed that it is important to bring together several lines of expertise; she also stressed that the research is what matters, rather than the background from which the researchers come from. Overall response to equality was also deemed inconsistent as the universities have very disparate responses to equality and its different facets, which should be streamlined.

In terms of inter/trans/multidisciplinarity, the process needs to be developed to facilitate these kinds of research. Most universities are mostly monodisciplinary and time-consuming cultural shifts are required to make the shift to inter/trans/multidisciplinary research projects happen.

The speaker also discussed the challenges and opportunities, stressing the consortium-wide gender equality plans & consortium good research practices.

Dr. Mireille Sthijns (Maastricht University) and **Dr. Nuria Bautista** (Carlos III University) introduced YUFERING: The YUFE model towards a community engaged model of R&I, a leading model of student-centered, open and inclusive European University open to all people; the project aims to create a university that emphasizes those features. YUFE is a top scoring alliance which has been created from bottom-up. The speaker introduced a number of YUFE projects: Erasmus+ EUI pilot, DIOSI (H2020), YUFERING focused on Europe-wide knowledge transfer and INNO4YUFE focused on innovation.

The presentation itself then focused on YUFERING, facilitating the creation of shared research structures, sharing best practices; the approach is to be scalable, effective and impactful. YUFERING encompasses a number of subtasks - mapping best practices in community-engaged research, YUFE-Wide analysis of existing R&I policies, support and decision making,

The presentation focused on the community-engaged R&I. The survey conducted indicated that over 50% of researchers thinks about the community engagement when considering what their job offers, stressing how important community-based research is. 67% respondents indicated the importance of involvement in community-based research; 45% participated in knowledge transfer activities. The first subtask mapped, defined and tested the approach, which defined the community engagement in research, resulting in the definition of community-engaged research and innovation. Community-based research and innovation's most important part is the social impact, active involvement of the affected community partners and implementation of the research outcomes and solutions.





The challenges for the projects involved logistics (time and funding), proper partners for collaboration as well as the principle-related issues. The future of the project is to map existing R&I policies, support and decision-making processes. Nuria Bautista Puig emphasized the importance of having units that facilitate inter-university communication on the matters pertinent to this. Dr. Sthijns stressed the fact that one of the main challenges in a university where research is student-and community-centered is to maintain high quality of the research performed, and they were addressing how to measure this quality.

The first part of the debate focused on Open Science and the way in which scientists and academics interact with the society. Much emphasis was put on the ways in which scientists can indeed interact with the society itself and how realistic these prospects are. It was stressed that since most universities are publicly funded, they are indebted to the society and need to repay that debt by properly disseminating the research results. Then, emphasis was placed on the fact that the researchers should not be overburdened by the formal responsibilities placed on them.

Prof. Leeson indicated the importance of open science and asked: is it right and fair that we expect everyone to engage with all these things. Dr. Sthiijns responded that it is important to tackle the societal challenges; there should be some shared ownership for the research for all parties involved. Dr. Baumhauer remarked that artistic practice cannot be replaced by society-related practice. They intend to open the discourse and go beyond the 'ivory tower', making the research achievements provide benefits to the society. Prof. Marfany indicated that the approach is very interesting but cannot be the only/unique component of the development of science. Universities face different challenges that go beyond just doing research for the sake of doing research. She asked as to how they envision the actual implementation of the project.

Dr. Baumhauer remarked that working with alliances causes certain things to happen, forcing negotiation, discussion and looking for intersections that allow for cooperation and joint work. It is hard to pin down how the developments will go but these are taking place nonetheless. Prof. Marfany remarked that the projects make scientists and universities a part of the community; being publicly tax-funded, universities have the obligation to "return the favor" to the community and disseminate it. Prof. Leeson responded to how funding bodies place too much different tasks on the shoulders of the researchers, forcing an individual to cope with a multitude of different issues; she emphasized how this can be alleviated by cooperation of many researchers who share the responsibilities.

Dr. Sthijns indicated that the societal challenge faced by the research groups varies across fields/disciplines; for some disciplines, it is easier to involve the non-academic actors in dissemination, for some in implementation - the process is strongly reliant on the type of research one is dealing with. Thus, it is important to consider this notion and to standardize how it is approach to a certain extent. Prof. Marfany responded stressing the point of Lorraine - not everyone can be good at everything and thus the sharing of responsibilities indeed becomes very important. Dr.





Bautista remarked on the importance of the evaluation/how cooperation is assessed, appraised and rewarded - currently its value is heavily underemphasized.

The second part of the debate addressed the gender gap and inclusivity discussion. It was pointed out that the job profile development is still mostly patriarchal. Importantly, the system evaluates achievements through the masculine view of the world. Hence, achieving higher positions and competing with men requires women to become, act and compete like men. Then it was brought to attention that the gender equality practices should be shared/promoted cross-institutionally.

Dr. Baumhauer remarked on how tricky this issue is, the system of success of job profile development of artists is beyond the academia and thus not within the control of the universities. The system is still male-focused. Many aspects of the problems cannot be explained by rational discussion/elaboration. The universities are open to all the types of diversities, though; this being said, not all countries facilitate diversity equally, which means this issue cannot be easily regulated.

Prof. Leeson reflected that it is important to monitor the change over time and foresee it to a certain extent. The process of achieving equality takes a lot of time; importantly, it is important to establish how this can be effectively done and how the gender equality achievements can be extrapolated to facilitating other types of equalities. She discussed the step by step approach which cumulatively brings large changes.

Dr. Sthijns indicated that YUFERING does also focus on the equality, also in the interviews for their positions. She stressed how important is to identify the specific barriers that exist and to handle them appropriately.

Prof. Marfany explained that improving the number of female students did not translate well to the actual count/proportions of PhD students and academic employees. The system has empowered the more vulnerable communities but at the same time, the competition itself is not fair as it is easier for the competitive, masculine view of the world to attain the goals needed to attain certain positions. It is not the opportunities that need to be improved but to fix the "bottleneck" - the criteria used to set goals and hire scientists. Successful women should also mentor younger women so that the latter can learn about the barriers and the ways in which those barriers can be circumvented.

Prof. Leeson asked about implementing the gender equality plans on the alliance level, rather than on the level of particular institutions, what practices could be used, shared and leveraged. Prof. Marfany responded that these practices should indeed be considered cross-culturally and institutionally.

The third part of the debate focused on research ethics and integrity. The discussion encompassed implementing research ethics in everyday life. It was emphasized that the validity of research is defined by the fact that the research is conducted with best possible efforts and in line with ethical





standards. It was, however, also mentioned that sometimes research ethics regulations are too strict, which might prevent some of the underprivileged groups from being involved in science in the first place.

Prof. Marfany asked how Europe should implement research ethics and integrity in everyday life. Dr. Baumhauer, speaking in the context of research in arts, mentioned the issue of freedom of artistic expression (which is frequently discussed) - does politics limit the expression? Can the label of artistic freedom be used to allow for behavior that goes beyond "normal social interaction"? Dr. Sthijns responded to the notion of research integrity. She spoke of publicly available research and how that affects community. Then she mentioned the importance of involving community actors.

Prof. Marfany mentioned that research can only be referred to as "good" if it is done in line with ethical standards and conducted with best possible efforts so that it does not diminish other research in the field.

Prof. Leeson mentioned that as we codify our research ethics approaches and work towards protecting people, we do not marginalize groups that should in fact be considered because getting through the research ethics requirements are too stringent. Prof. Marfany added that people can be taught to produce content that is in line with those requirements; it is difficult through, but should be stressed nonetheless and will come naturally if it is indeed instructed properly.

The final part of the debate was centered on multiculturality. The discussion encompassed the norms of conducting and presenting research that would permit more inclusivity of the less privileged groups. Example of the deaf sign language users was brought into attention, as this group requires access to texts that are multimodal.

Dr. Sthijns indicated that it is important that academic and non-academic actors represent the community overall (reflecting the differences in both genders and cultures).

Dr. Baumhauer claimed that it is important to decipher visual symbolization of different cultures - getting into an intercultural exchange requires one to understand the background. We need to redefine what we consider to be "valid" ways of doing research - this has to be intensified to make it possible to include people into our societies.

Prof. Leeson used the example of deaf sign language users. She said we must remember in research that not all languages are written, discussing the notion of inclusivity of sign language community and the multimodality of dissemination of research.





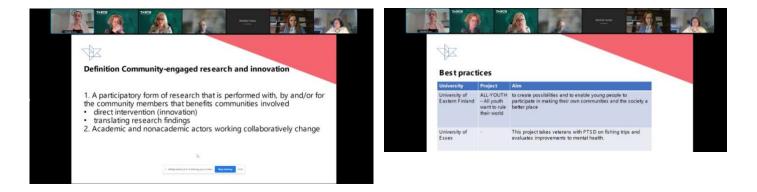


Figure 7. TORCH Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda. Speakers: Prof. Gemma Marfany (UB); Dr. Till Ansgar Baumhauer (Hochschule für Bildende Künste Dresden); Prof. Lorraine Leeson (TCD); Dr. Mireille Sthijns (Maastricht University); Dr. Nuria Bautista (Carlos III University).





3.5 Panel Session. Open Science²⁰

In this panel, three alliances, CIVIS, AURORA and CHARM-EU, introduced the Open Science practices and plans of their current SwafS projects. Among others, the panel discussed the following overarching questions:

- How can the different universities and alliances support each other in their Open Science activities?
- What are the main limitations of introducing Open Science practices in research and student communities?
- What sort of incentives were found to be effective in promoting Open Science among researchers?
- What's the role of Open Science communities in pursuing cultural change at the different universities?

Each speaker had a 10 minutes PowerPoint presentation followed by a discussion and ideas exchange with all participants.

PANEL SESSION. OPEN SCIENCE

Presenter: DR. FERENC TAKÓ. Head of International Strategy Office, Eötvös Loránd University.

Chair: DR. ACZÉL BALÁZS ZOLTÁN. Vice Dean of Research, Faculty of Education and Psychology, Eötvös Loránd University.

Speakers:

- DR. IGNASI LABASTIDA. Rector's Delegate for Open Science, University of Barcelona (CHARM-EU Alliance).
- · DR. MIHNEA DOBRE. Humanities Division, University of Bucharest (CIVIS Alliance).
- PROF. ROBERTO DELLE DONNE. University of Naples Federico II (AURORA Alliance).

Rapporteur: Ms. Anikó Gal-Bélteki. TORCH Internal Coordinator, Eötvös Loránd University.

CIVIS, AURORA and CHARM-EU, introduced the Open Science practices of their projects. Presentations were followed by an interactive discussion. The session was chaired by **Dr. Balázs Aczél** (TORCH Project, ELTE) and introduced by **Dr. Ferenc Takó** (TORCH Project, ELTE).

²⁰ Afternoon sessions recording available at: <u>https://www.youtube.com/watch?v=HTOWf6bMfpk</u>





Dr. Mihnea Dobre (University of Bucharest, CIVIS Alliance) presents the CIVIS Alliance' SwafS project, which is titled RIS4CIVIS. Module 5 deals with Open Science. The presentation focuses on next steps and a collaborative discussion. Initial phase: surveying Open Science landscape at CIVIS universities. The survey built on LERU questionnaire specifying the eight pillars of Open Science. As expected, a large variety of OS policies and local OS support exists at each CIVIS university and most of them are involved in European discussions about OS. However, adoption of OS policies and frameworks is largely connected to the OS development of each country.

Next step, two general goals for further action:

- \cdot 1. Raise awareness about OS policies/practices within each university community.
- · 2. Increase collaboration between the alliance's universities.

Goals to be achieved through promoting OS training and searching the way to develop a recognition system. Discussion points raised:

- OS policies are needed but not sufficient; double actions needed: bottom-up and top-down, as well; need to familiarize community with Open Science practices; offer trainings in Open Science; support OS infrastructure – i.e. make Open Science a service as knowledge base for researchers and academic staff.
- Global approach: Related to some discussions in the morning panel session: there's a need for general transformation in the system of rewards and incentives at the universities. Needs to discuss this issue with other (e.g. Human Resources Management) departments. It is important not only to promote new ways but also to explain why and how we're going to do this. Only by expanding the discussion can we achieve the desired cultural change.

Prof. Roberto delle Donne (University of Naples Federico II) introduces the AURORA Alliance, which comprises of 10 universities committed to social impact of their academic excellence. SwafS Programme objectives: their students be social entrepreneurs, tackle major challenges of society, pioneer in sustainability, address SDGs. Pilot domains: Sustainability and climate change; Digital society; Health and well-being; Culture: diversity and identity.

AURORA: SwafS Programme work packages briefly introduced –WP6/Open Science started recently. Goal: sharing and implementing Open Science practices –lead Naples University, co-lead Amsterdam University; sharing research sources. Open Science should be defined in this regard. AURORA's Scope of Open Science: FAIR and responsible research; Public engagement and valorization; FAIR education; Recognition and rewards; Policy; Community; Support-Skills- Knowledge; Infrastructure.

AURORA's Open Science deliverables:

 \cdot D6.1 - an Open Science function to their SDG dashboard.





- · D6.2 a shared knowledge base of Open Science resources, policies and best practices.
- · D6.3 Open Science training modules for young researchers.
- · D6.4 Open Science community starter kit and a platform for these communities to interact.

Open Science-related project objectives: OS makes use of AURORA's *Open Education Database*; research students/PhDs to become OS ambassadors; social entrepreneurship and research for society; AURORA support agenda for research and innovation; best practices for pooling research infrastructures, expertise; data and resources; build an OS researchers' network; shared knowledge base and joint strategy (OS, OA); barrier solution in sharing OS infrastructure; etc. OS communities: to create bottom-up learning communities of researchers as students.

Survey on the actual Open Science experience in AURORA universities, e.g. Open Data Stewardship. In all AURORA universities there are some OS practices in place, but partners are at different level of involvement, expertise, practice or focus. (E.g. most of them are committed to Open Science principles, such as Open Access, FAIR data, linked Open Data, but some have more focus on OA publishing or OA university press or sharing research data). The most important is to exchange experiences and learn from each other.

Dr. Ignasi Labastida (UB) introduces the TORCH project conducts very similar activity regarding Open Science to that of AURORA's project. 1st deliverable: Our survey on the current situation was also based on the LERU Open Science Roadmap describing the 8 pillars of Open Science. As a 9th pillar, related to leadership, we defined the need of cultural change in our universities. For that reason, we applied a "traffic light survey", a color coding of preparedness. Green means e.g. that OS policy or practice is already in place, yellow means policy is in process, although more aspects needs to be added here, while red means it is not yet available. This allows to show the different starting point of each institution and their progress in time. For example:

- Education and skills: these are the layers we are most ready in OS, we're all committed to train our staff on OS.
- Recognitions and awards: color codes are mostly yellow and red i.e. we need to work on this issue the most.

How we go ahead? We monitor the change. The 2nd deliverable: Tool for this: Open Science Dashboard (see model display) - We follow not only the outputs by pillars but also how the changes in behavior related to Open Science evolve. We plan to share here events, trainings, etc. It is an initial proposal, details are still under discussion. The final version will be shared with the alliance's colleagues.





The debate section, led by Dr. Aczél, centered on three main questions regarding collaboration between universities and Alliances, limitations to introduce Open Science practices, and incentives to promote it.

Question 1: How can the different universities and alliances support each other in their Open Science activities?

Dr. Dobre: Collaboration between universities is the most important. Just keep the conversation going on and do not force institutions to do something they are not ready for. Prepare and support institutions who have not implemented Open Science practices yet. Organize trainings, webinars. Offer local support to local academic community: speakers, expertise or even small local funding. Good example: universities are at different level: some has got an Open Science unit while others have almost nothing. Open Science policies are needed at the universities. Offer sufficient space for discussion for each partner university to promote Open Science further. E.g. discuss reforms on research awarding and evaluation. It is important to know each university's aim and needs in the field of Open Science. Interactions at the institutional and national level as well as the expertise provided by large organizations are important alike. However, this should be a community-based approach – this cannot be done neither bottom-up nor top-down solely.

Dr. Labastida: Share as much experience as you can, get inspiration, see how policies are evolving (e.g. in the Netherlands every university has got Open Science practitioners.) People needs to be put together in order to establish an Open Science community and to learn from each other.

Prof. delle Donne: agrees that sharing experience and learning is important. Some universities are more specialized in certain fields of Open Science than others are. There's a need for a minimum level of sharing: create share platforms. There's also different level of knowledge at the universities reflected in general policy level. We should reach a common level that we can improve together. We operate in different context that leads to the development of different infrastructure (e.g. university press). AURORA is at the beginning of common work, but sees already opportunities for common development.

Dr. Aczél: Open Science does not happen on its own, it needs facilitators and needs to be encouraged through events and tools like the mentioned Educational Database or Open data Stewardship. Open Science has got many pillars, some of them are more in focus than others.

Question 2: What are the main limitations of introducing Open Science practices in research and student communities?

Prof. delle Donne: diffusion of Open Science in various scientific communities: bibliometric and nonbibliometric sectors, linked to national assessment criteria >> available platforms that make publishing scientific results in an effective way; governments can be influencers, e.g. in Italy the STM (science-technology-medicine) sector opens up publications >> may have fewer positive





consequences due to market aspects. It is easier to foster Open Science in the non-bibliometric sector.

Dr. Labastida: Agrees. Motivation and incentives must be clear. However, at every case of change we need to support the change for Open Science at institutional level. Combined efforts of the individual researcher and the university are needed. The cultural change has limitations.

Question 3: What sort of incentives were found to be effective in promoting Open Science among researchers?

Dr. Dobre: We need to work at several levels, explain Open Science needs to an academic and non-academic community.

Prof. delle Donne: It depends on the level. If you finance research and push researcher to publish in Open Access way and ask them to publish not only the final results but also that of intermediate research phases, then provide funding for that. Evaluation: give recognition to the research in Open Access publishing. In Italy, Open Science practices are not yet specifically or not better evaluated than others.

Dr. Labastida: The main incentive is time. When researchers are obliged to publish in Open Science repository, do it in an optimal way. Show that Data Management Plan is not just another element of bureaucracy. Help them: prove that choosing this way will save time for them. Provide services, facilities, infrastructure.

Dr. Aczél: Agrees. Researchers should understand the core of Open Science; external incentives are not enough. Adopt new practices to support the change/ the approach. Help them decrease the boundaries. Academia, following Open Science practices, can help researchers in many ways, there are proofs for that. But researchers have to be dedicated. It's important to understand the research arena.









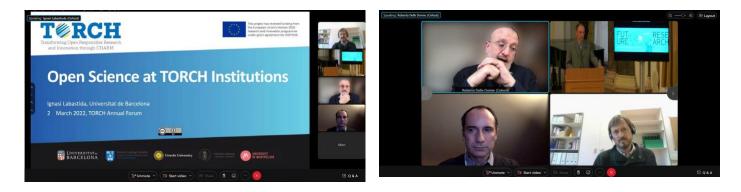


Figure 8. Panel Session. Open Science. Speakers: Dr. Balázs Aczél (ELTE); Dr. Ferenc Takó (ELTE); Dr. Mihnea Dobre (University of Bucharest); Prof. Roberto delle Donne (University of Naples Federico II); Dr. Ignasi Labastida (UB).





3.6 Closing Words

Dr. Ferenc Takó (Head of International Strategy Office, ELTE) presented the closing ceremony, and gave the floor to **Prof. Joan Guàrdia** (Rector, UB), who thanked all the speakers and participants and offered a concluding speech, reflecting on the CHARM-EU and TORCH values and goals, as well as in the European Universities enterprise.

Prof. Guàrdia reflects on the importance of initiatives like CHARM-EU, since the future of knowledge generation is transnational, and, as such, the TORCH Project plays an essential role in the joint task the five partner universities are carrying out. The future of higher education institutions, in order to shape the forthcoming R&I scenario, relies on three main aspects. Firstly, forming robust Alliances between universities, that empower Open Science and collaboration (for which TORCH is a great example). Furthermore, science is the only means to build a new community around knowledge, that contemplates the European shared values. Finally, inclusiveness must be the cornerstone of the new reality we are creating, a reality in which all the diverse European realities have room.

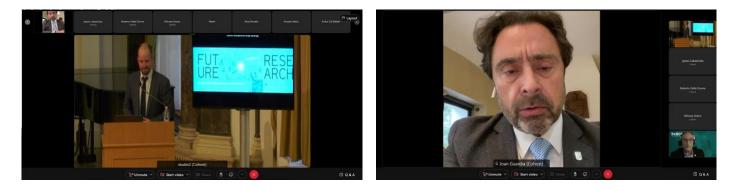


Figure 9. Closing words. Speakers: Dr. Ferenc Takó (ELTE); Prof. Joan Guàrdia (UB).





4. CONCLUDING REMARKS

The first TORCH Open Forum under the title **'Sustainability in a (post?) pandemic world: asking the right questions on the role of Universities in R&I today'** was held online on March 2, 2022, hosted by Eötvös Loránd University Budapest (ELTE).

The meeting was addressed to diverse relevant collectives: university leadership, academic and technical staff, as well as any actors engaged in R&I, university-industry-citizen collaboration. It was also relevant for policymakers, as the European Commission's perspective was included. More than 100 participants attended the different sessions, in which 42 chairs and speakers took part. All sessions were recorded and will be available in the CHARM-EU YouTube Channel. Updates on the event were also live-tweeted (Table 2).

Platform	Reach
Twitter	8.759 impressions
(during the event)	168 interactions
LinkedIn	504 impressions
(highlights campaign)	246 views
Facebook / Instagram	1045 reach
(highlights campaign)	45 likes / interactions

 Table 2. TORCH Open Forum social media engagement.

The event was conceived as a dissemination activity not only to share and discuss the TORCH Project progresses and beyond, but also as the shared activity all FOREU1 Alliances included in their proposals. As such, all the European Universities were invited to participate, since the topics covered were relevant to their development:

- What are the challenges in Research assessment reform, how is the EU approaching it and what can we learn from the work of the European Universities alliances?
- Sharing learning and discussion on how European University alliances can impact a sustainable future through a common R&I Agenda and the role that such agenda may play in achieving the European Green Deal and more broadly contributing to the implementation of the SDGs.
- \cdot How can universities and Alliances better work with enterprises and citizens.
- The importance the Alliances face concerning ethics, integrity, interdisciplinary, gendered innovation in responsible research and innovation.

The plenary session **'The R&I framework and the (post?) pandemic scenarios'** put together a diverse panel of speakers who discussed the current trends on this topic, including: the European





Strategy for Universities and the new ERA and Innovation Policy from the EC perspective; the challenges and need to transform the higher education and R&I sectors, from the business environment point of view; and the many lessons we have learnt from the COVID pandemic that should illuminate our future and give raise to stronger collaborative research in Europe.

The panel session **'European Universities: Towards a Reform of the Research Assessment System'** focused on the revision of the evaluation system for research-performing institutions, researchers, and funding agencies. Representatives from European Universities and University Associations conversed about the challenges and needs to achieve this reform, since it will change the way we do science, and, more importantly, the impact science has on society, which constitutes the higher purpose.

The **TORCH Clusters ('Crosscutting conversations across R&I topics and sustainability'**) served the purpose of exchanging experiences and practices among several Alliances concerning a number of transformational modules:

- Cluster 1: **R&I Common Science Agenda** and European Universities. Three Alliances (CHARM-EU, FORTHEM, EELISA) shared their progresses and challenges in advancing towards a common scientific strategy within their SwafS projects.
- Cluster 2: Business & Society and Academic Cooperation. Five examples of academia-business environment cooperation were shared, in the form of spin-off creation or academic-enterprise collaboration. Cases from CHARM-EU, EU-CONEXUS, and UNITE! were presented. Participants were also able to debate the needs and avenues to go beyond and strengthen collaboration at an institutional, local, national and European levels.
- Cluster 3: Public Engagement. Good practices and (dis)incentives to foster public engagement and transdisciplinarity were presented, working at different levels: individual (researcher); university level; systemic level; and societal level. Speakers (from CHARM-EU, ECIU, T4EUROPE, and the Irish Universities Association) agreed on the need to develop a comprehensive approach for public engagement and citizen science, as to date many activities are still fragmented and knowledge sharing is limited.
- Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda. Developing a common European framework across different countries, cultures, and scientific disciplines, requires addressing the challenge of ensuring ethical research, by incorporating some cross-cutting principles into all areas: Open Science and social responsibility of academics; gender gap/inclusivity; research integrity and ethics; and multiculturality. Participants from CHARM-EU, EU4ART, and YUFE discussed how these aims could be integrated within the diverse institutions and the European Universities initiative.





The panel session on **Open Science** had representatives from CIVIS, AURORA and CHARM-EU, who introduced the advances and good practices in their respective institutions and Alliances. The debate centered on potential limitations and incentives to implement a common Open Science roadmap, as well as on how to encourage collaboration and exchange of experiences among universities.





ANNEX I: PUBLIC PROGRAMME AND PROMOTIONAL MATERIAL

Public Programme



WHAT IS THE TORCH ANNUAL FORUM?

The TORCH Annual Forum is a unique opportunity for participants to reflect and discuss the role of Universities and society in R&I today. The event will bring together various European Universities alliances to discuss about trends and challenges in R&I.

Top 3 Reasons you can't miss the TORCH Annual Forum





You will discuss about the You will discuss about the challenges in Research assessment reform, how the European Union is approaching it and what we can learn from the work of the European Universities alliances.



Exchange ideas and knowledge on how European University alliances can impact a sustainable future through a common R&I Agenda.

More info at: www.charm-eu.eu

PROGRAMME TORCH ANNUAL FORUM 2 MARCH 2022 (ONLINE EVENT)

10:00 - 10:30 Opening ceremony | Welcome address

// Link: https://elteiig.webex.com/elteiig-en/j.php? MTID=m211f1e46df0d8c7c42c712c7e2090775

- Presented by: Prof. Enikő MAGYARI. Eötvös Loránd University Prof. Dr. László PALKOVICS. Minister of Innovation and Technology, Hungary (video message)
- Prof. Dr. László Borhy, Rector, Eötvös Loránd University
- Prof. Dr. Jordi Garcia, Vice-Rector of Research, University of Barcelona
- Message from Prof. Stefan Müller-Stach, Vice President for Research at JGU Mainz, FIT FORTHEM coordinator read by dr Nicole Birkle, FIT FORTHEM managing coordinator

10:30 - 11:30 Plenary session | R&I trends in the (post?) pandemic scenarios

This introductory plenary session will serve to frame the topic: the R&I framework and the (post?) pandamic scenarios. What are some current transdartarsegic thinking on this topic (state of play and loaking forward?) What we are doing doing to advance this spenda and the role of the European Universities intilstive and the'sWAFs projects.

- Moderator: Prof. Enikő MAGYARI, Eötyös Loránd University
- Ms Apostolia Karamali, Head of Unit, Directorate-General for Research and Innovation, European Union
 Prof. Dr. Jordi Garcia, Vice-Rector of Research, University of
- Profit private Barcelona
 Sarcelona
 Cailla Stégar, Manager at PwC Hungary Ltd. Government
 Advisory, division responsible for HE-government relationships
 Dr. Joan X Comella. Director. Vall d'Hebron Institute of
 Research (VHIR). TORCH Quality Committee

11:30 - 11:45 Short break





PROGRAMME TORCH ANNUAL FORUM PROGRAMME TORCH ANNUAL FORUM 13:30 - 15:00 TORCH CLUSTERS 11:45 - 12:30 Panel session | European universities: CLUSTER 1 R&I Common Science Agenda and European Universities Towards a reform of the research Link: https://elteiig.webex.com/elteiig-en/j.php? MTID=m78df5346fa62d6537f37231aBd3844ad assessment system Chair: Fiona Killard. Trinity College Dublin Link: https://eltelig.webex.com/eltelig-en/j.php? MTID=m211f1e46df0d8c7c42c712c7e2090775 Rapporteur: Jaime Llorca (UB) This session will discuss the rationale, the proposed approach and principles and work to date, analysing the challenges and benefits to reforming such a multi-actor system to support a diverse range of outputs, settivities and career directions. The panel will also look at the role that the European Universities initiative can play in driving such reform and considers whether there are benefits for teaching and other activities outside of research. Speakers: • Albert Disz. TORCH (CHARM-EU). University of Bercelona • Katerzyna Molek-Kozakowska and Maria Pitarch. FIT FORTHEM, University of Opole, Poland, University of Valencia, Spain • Nihan Yildirim. EELISA InnoCORE (EELISA) • Emrah Acar EELISA InnoCORE (EELISA) • Emrah Acar EELISA InnoCORE (EELISA) Hür Bersam Sidal Bolat EELISA InnoCORE (EELISA), ITÜ (Istanbul Technical Presented by: Prof. Eniko MAGYARI. Eotvos Loránd University University) Chaired by: Doris Alexander. Trinity College Dublin CLUSTER 2 Business & Society and academic cooperation + Ludovic Thilly. Chair of the Executive Board. Coimbra Group Ludovic Inny Chair of the Executive Board, Comman arou Anouk Tao, Director of International Affairs, University of Amsterdam, EPICUR - Research Tullio Vardanega (AROUS) Prof. Dr. F. Miedema, Vice Rector Research, Utrecht University, TORCH (CHARM-EU) Link: https://elteiig.webex.com/elteiig-en/j.php? MTID=m487722d2b7163bbc0faeb78e5249f405 Chair: Inese Rozensteine. TORCH (CHARM-EU). University of Montpellier Rapporteur: Elea Pippo. TORCH (CHARM-EU) University of Montpellier. Speakers Benoît Bardy. University of Montpellier. With the project BEAT HEALTH, a musical application for the rehabilitation of Parkinson's patients and the 12:30-13:30 Lunch Break training of sthletes • Dr. Zoltán URBÁNYI, Manager of Department, Biotechnology Research 13:30 - 15:00 TORCH Clusters | Crosscutting Department Dr. Anicet Blanch. University of Barcelona. Founder and CTO of Bluephage conversations across R&I topics and (a biotechnological company specialized in producing testing kits to identify faecal and viral indicators within water Rasa Viederyte, EU-CONEXUS RFS-Research for Society Manager. sustainability Four parallel sessions that seek to to combine R&I impact/actions and sustainable factors. It will help to enhance policy ocherence by promoting systemic approaches across the same challenges (8DBG/European Grean Deel) while presenting main progresses on the TORCH project. Klaipeda University, Lithuania. Josep Bordonau, UPC-BarcelonaTech, Unitel Juan-Jesús Pérez, UPC-BarcelonaTech, Unitel PROGRAMME TORCH ANNUAL FORUM 13:30 - 15:00 TORCH CLUSTERS CLUSTER 3 Public engagement 15:30 - 16:30 Panel session | Open Science Link: https://elteiig.webex.com/elteiig-en/j.php? MTID=me90b505d0bc8f343cc241eab10505be Link: https://elteiig.webex.com/elteiig-en/j.php? MTID=m211f1e46df0d8c7o42c712c7e2090775 Chair: Dr. Marjanneke Vijge, CHARM-EU. Utrecht University Rapporteur: Kirsten Hollaender (UU) In this panel, three alliances, CIVIS, AURORA and CHARM-EU, will introduce the Open Science practices and plans of their current SWAF projects. Speakers: Dr. Annisa Triyanti, TORCH. Utrecht University. Presenting the findings from WP7 on (dis)incentives for public engagement and transdisciplinary Presented by: Prof. Enikó MAGYARI. Eötvös Loránd University Chair. Dr. Aczál Balázs Zoltán (ELTE) Rapporteur: Anikó Gal-Belteki (ELTE) science Kate Morris, Head of Campus Engage at the Irish Universities Association. • Troels Jacobsen. University of Stavanger. Director of Innovation and societal engagement. ECIU Alliance Prof. Tomes Berkamanes. Associate Professor at the Faculty of Law, Vytautas Magnus University. T4ERI (T4Europe) Speakers: • Ignasi Labestida, TORCH (CHARM-EU), CRAI Research Unit. griss Expected other returns (C), then respectively of the respective of the control of the CLUSTER 4 Cross-cutting principles to address a transformative R&I Roberto delle Donna. Work Package leader for Open Science in AURORA RI (AURORA) Agenda Link: https://elteilg.webex.com/elteilg-en/j.php? MTID=m680f470abe386ced8b82c87d0c8236ee 16:30 Closing Chair: Gemma Marfany, TORCH (CHARM-EU), University of Barcelona Rapporteur: Jedrzej Olejniczak, FORTHEM Presented by: Prof. Enikő MAGYARI. Eötvös Loránd University Speakers: Closing words by Prof. Dr. Joan Guàrdia Olmos. Rector. University of Barcelona (TORCH Coordinator) Speakers: Lorraine Lesson. TORCH (CHARM-EU). Trinity College Dublin. Till Anegar Baumhauer. Project Speaker & Leader. EU4ART_differences. EU4ART Mireille Sthijns. Leading of the community-engaged research and innovation (CERI) work package in VUFERING (VUFE) Nuris Bautiste Puig. R&D Technicel Support at YUFERING and researcher at Carlos III University of Madrid.

15:00 - 15:30 Short break

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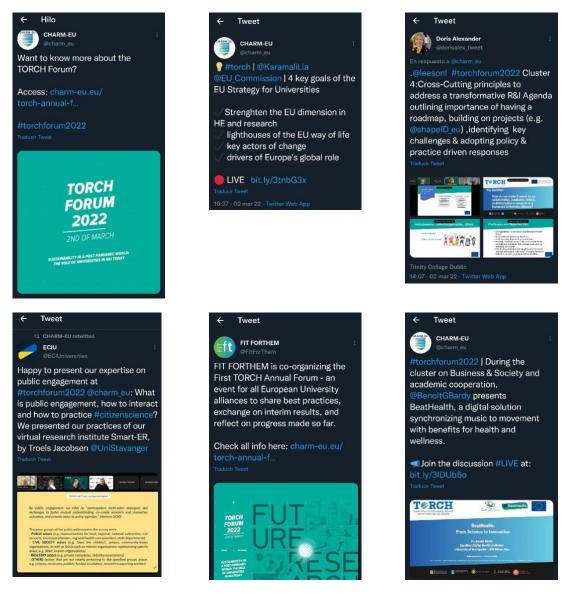
Twitter & Instagram







Social Media Promotion and Live Tweets (examples)













ANNEX II: PRESENTATIONS

Plenary Session: R&I Trends in (Post?) Pandemic Scenarios

Ms. APOSTOLIA KARAMALI. Head of Unit, Directorate-General for Research and Innovation, European Commission.









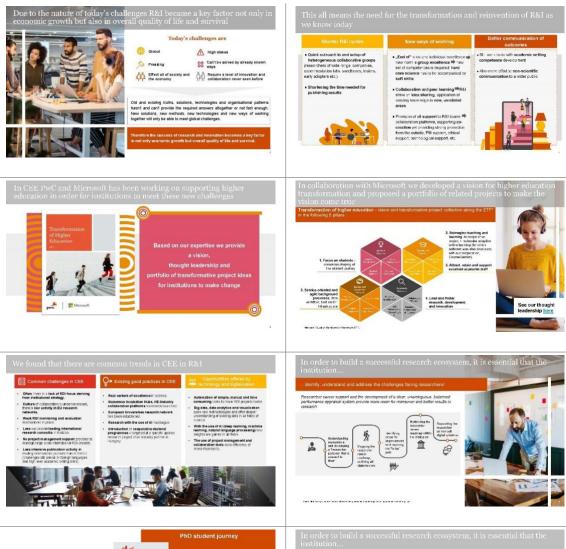
Plenary Session: R&I Trends in (Post?) Pandemic Scenarios

DR. CSILLA STÉGER. Manager at PwC Hungary Ltd. Government Advisory, Division responsible for HE– government relationships.









First step of the "researcher journey" the PhD experience

Reimagine the PhD student journey in your institution and assure the first research experiences to be positive & inspiring

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Panel Session: European Universities: Towards a Reform of the Research Assessment System

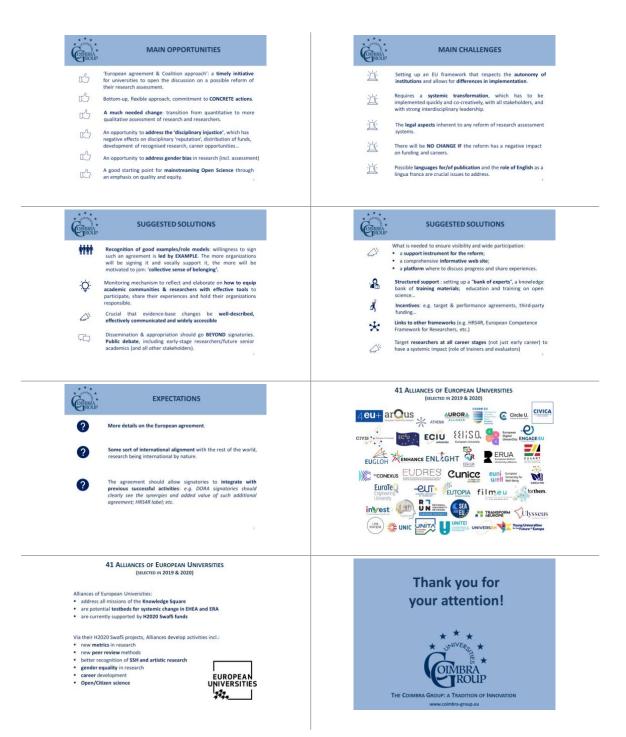
PROF. LUDOVIC THILLY. University of Poitiers. Executive Board Chair, Coimbra Group.









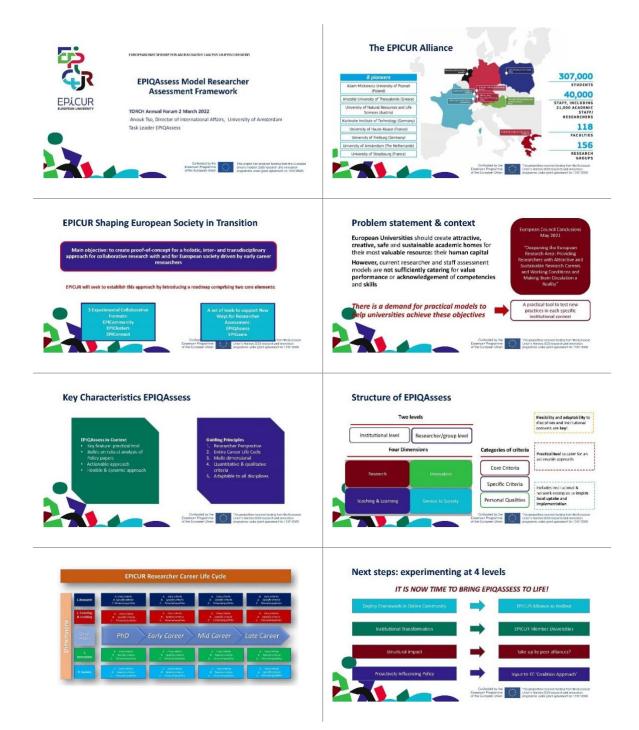


Panel Session: European Universities: Towards a Reform of the Research Assessment System

DR. ANOUK TSO. Director of International Affairs, University of Amsterdam (EPICUR Alliance).



Co-funded by the H2020 Programm of the European Union



Panel Session: European Universities: Towards a Reform of the Research Assessment System DR. TULLIO VARDANEGA. University of Padova. Research Project Supervisor (ARQUS Alliance).







Cluster 1: R&I Common Science Agenda and European Universities

PROF. ALBERT DIAZ. Director of the Institute of Complex Systems, University of Barcelona (CHARM-EU Alliance).







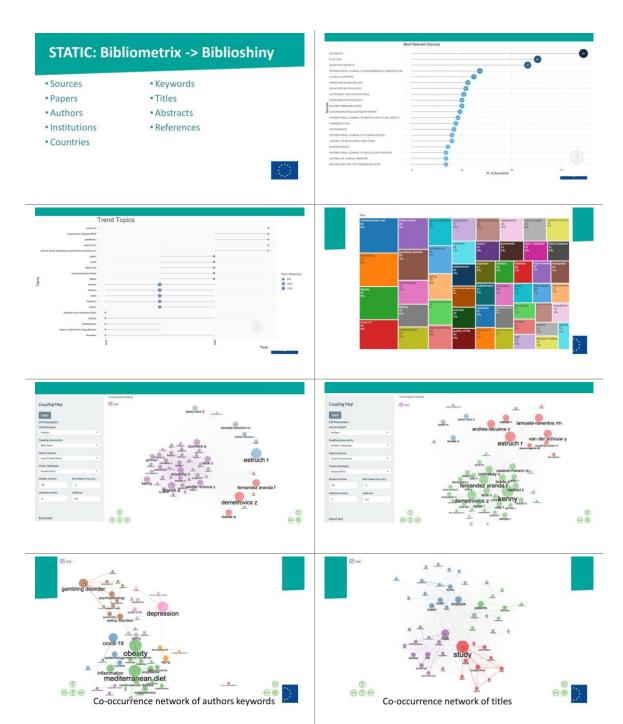




94.2 – Institutional analysis	D4.2 – Participatory Process
Each partner examines results:	D0000116emplot Leep UK 0000 1.6 minitis 0.6 minitis
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 Compared to choices by the researchers according to TORCH 	3. Integrality, Exercence, Grander Equality and Construction Company of Constr
Thematic areas	Elitibility - Reduced Integrations Stridge - Texas and a Stringe Ended Active (K. Eg. Class, Archite Headpointy - Texas and Texas and Texas and Texas and Texas and
	3 SDGs selected after institutional analysis :
Final decision taken by WP4: 3 SDG's in a broad sense	- 3. Good Health & Well-Being - 10. Reduced Inequalities
1.000	-13. Climate Action
94.2 – Challenges Formulation	D4.2 – Challenges Formulation
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Assign researchers to SDG	Proposals: SOG3-C1: ACTIVE: Adult Televante. Ansa Ric d Insuenteer Frein d Seese SECS 205 Min d Reamshore Frein d Reams
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	activity across Europe. 21 Induces 7 2
	SDG3-C2: Prevention and S1. Instally Tell 4
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- 547	infectious diseases.
4.2 – Challenges Formulation	D4.2 – Challenges Formulation
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Available Bibliometrics (SDG3)	Bibliometric analysis (SDG3) • authors identified with SDG3 + TL1, from questionnaire • Searched in Scopus YEARPUB AFT 2017 • BIB file with complete information • Authors (filtered AU-ID), title, affiliations • Citations, references, keywords, abstracts
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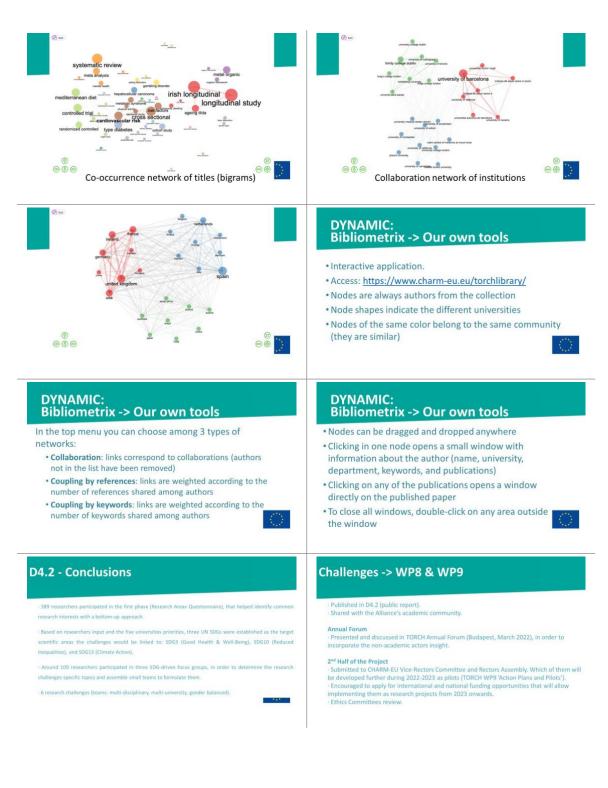






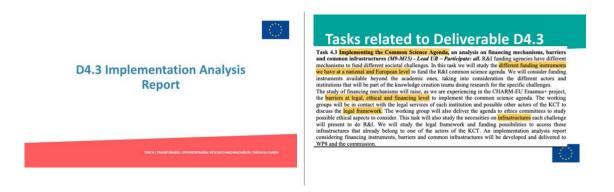












Cluster 1: R&I Common Science Agenda and European Universities

PROF. KATARZYNA MOLEK-KOZAKOWSKA, University of Opole. DR. MARIA DOLORES PITARCH, University of Valencia (FORTHEM Alliance).

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Funded by the Notion 2020 Francesch Program of the European Union	FIT forthem.	Funded by the Horizon 2020 Framework Programme of the European Union	HT FORTHEIM - 2 March 2022 14° TORICH Annual Open Forum	FIT forthem.
1st TORCH ANNUAL OPEN FORUM			FIT FORTHEM	
for University Alliances (SwafS projects)		Eastaring Inc	titutional Transform	ation
Sustainability in a (post?) pandemic world: asking the right question on the role of U Cluster 1: R&I Common Science Agenda and European Univers	Jniversities in R&I today ities	Fostering ins		ation
Steps and methods to collect data for a joint R8		\cap		$\neg \frown$
and sharing of R&I resources by FORTHEM A	lliance			TRONG INTERNATIO- NT EXPERT - NAL COMPETI-
Katarzvna Molek-Kozakowska, Maria Dolores Pita	irch			ERVICES TIVENESS
FIT FORTHEM, University of Opole, Poland, University of V				
	Constantian Constantian		HINGIA UE OBERLANDIA	CONTRACT DISCUSSION
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FIT FORTHEM Mission		Work package WP title		WP Leader
		WP1 PROJECT MANAGEMENT		ICU MALA DE
bearing in mind Global Challenges, and Missions defined by Horizon Europ			N AND PROFESSIONALIZATION IN RESEA	JGU Mainz, DE RCH JGU Mainz, DE
Sustainable Development Goals, fostering cooperation between a governance, and citizens,	cademia, industry,	AND INNOVATION MANAGEM	ENT	
The second s		WP3 CO-CREATION OF COMMON LC	ONG-TERM R&I AGENDAS FOR FORTHEM	UVEG Valencia, ES
 mainstreaming a more cross-linked and digitized science and communi- current weaknesses in the acceptance of Open Science requirements 	cation to overcome	WP4 CONNECT, ACCESS, AND SHAR	R&I RESOURCES	UNIPA Palermo, IT
		WP5 LIVING LABS FOR SOCIETALLY E	MBEDDED CO-CREATION OF KNOWLED	GE JYU Jyväskylä, Fl
 joining forces with other alliances, stakeholder networks, and policy maker 	5	WP6 ESTABLISHING A JOINT VIRTUA	AL RESEARCH POLICY AND SERVICES OFFI	CE UB Dijon, FR
eliminating site-specific disadvantages of institutions, and opening new car	eer perspectives			
boosting cross-institutional transnational research cooperation, ta	king the specific	WP7 DISSEMINATION AND COMMU	NICATION	UO Opole, PL
characteristics of each institution into account	ang the specific			
		Diversion	ALENCIA Maria	OF LATVIA
Runded by the Horison 2020 HTTOTHUL - 3 Much 2022 Pranework Registrate of the European Usion	FIT for them.	Funded by the Horizon 2020 Framework Programme of the European Union	FTT FORTHEM - 2 March 2022 14 RDROH Annual Open Forum	FIT forthem.
GA No: 101017248 CO-CREATION OF COMMON LONG-TERM R&I AGENDAS	WP 3	GA No: 101017248		WP 3
		 Survey launched in several languages Survey closed on January 2022 		···· *
STEP ONE SWOT analysis of the FORTHEM R&I capacities		Collected over 2,095 answers		01er, 18
Focus groups in 6 out of 7 universities		Measure awareness of institutional practices re	slated to	
 Interviews with designated top-level research administrators/experts 91 p 	ersons	 Internationalization of Research (priorites, f 		LILTR UNITA III
STEP TWO		and supports to engage in them)	in the second	UNITA III
Survey on institutional R&I policies and practices in European universities		 Open Science (policies, practices, experience Co-creation with external stakeholders (esta 	is, tools)	
INTERIM RESULT (two deliverables, including)		support measures)		
 Book on existing best practices in FORTHEM universities. A total of 86 good 	d practices + 8	 Science Communication (services and tools dissemination and communication) 	or	
introductory chapters.		 Human Capital (recruitment, assessment, per 	rsonal development,	
		career support)		
	CO SUBJECTIV		INTER III OD BROTHERSE	OF LATVIA OF LATVIA





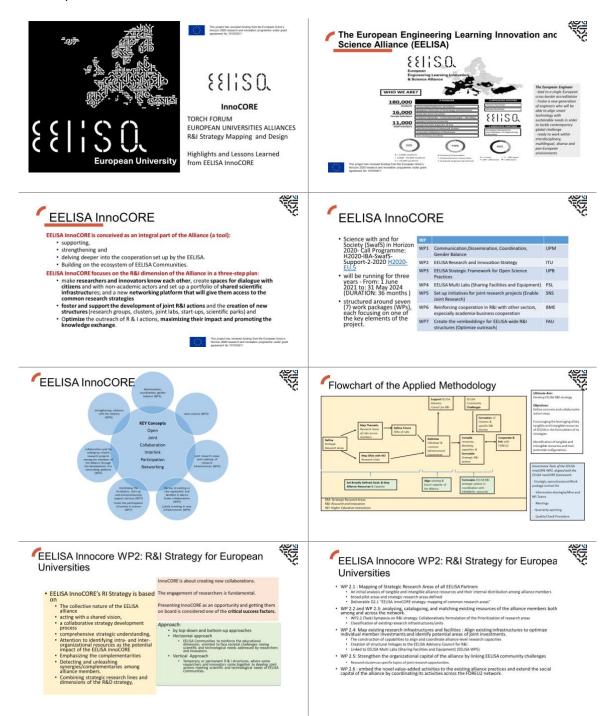
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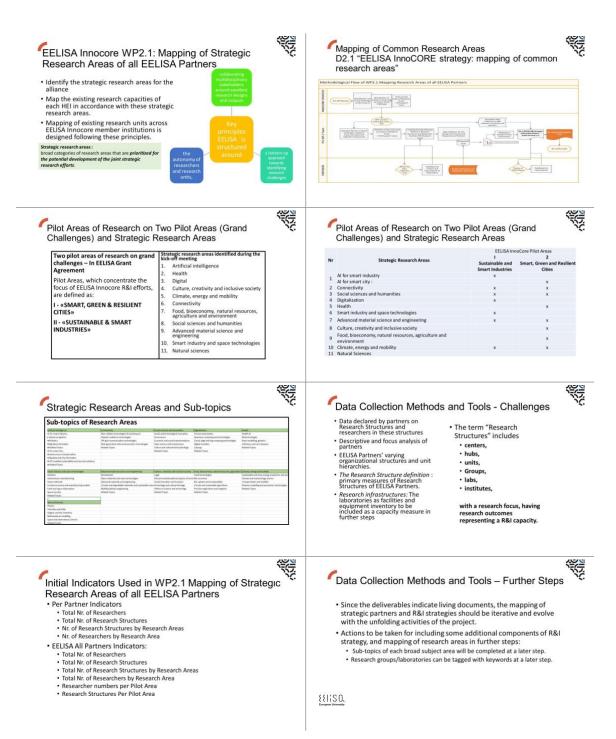
Cluster 1: R&I Common Science Agenda and European Universities

DR. NIHAN YILDIRIM, DR. EMRAH ACAR, DR. HÜR BERSAM SIDAL BOLAT. Istanbul Technical University (EELISA Alliance).



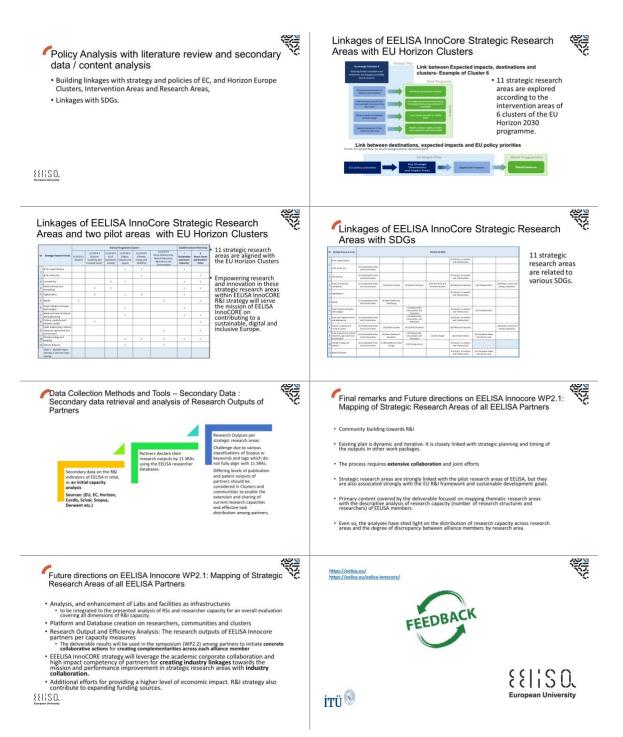
















Ms. INESE ROZENSTEINE. TORCH Project Manager, University of Montpellier.

T®RCH	Agenda
Transforming Open Responsible Research	12:32 - 1325: Opening
and Innovation through CHARM	15:00 - "3:45" Presentation of + 864.7 HeA.7F +
	And Kimul Anthy', Inners y of Mirr priling "Energy"
TORCH ANNUAL FORUM	13/5-12.35. Presentation of + Blaep Page- 27. A socie Elanch (de rearb), of same ona, spor in)
2 nd of March 2022 – Open Forum	$15.05,1405$; [FI] (2006).05 characteristic donate in correcting car manifest and presente on the historistic advantation $P_{\rm eff}$, from Vodeng a School during a School and statistic during a School advantation of the statistic during
Cluster 2 – Business&Society and academic cooperation	10 0%-Kduc Godesin Morteel Re Coanser of BLINE 3: Ze this URAMAN, Nerviger of Roamshining Research Superiment, Biodesin Richter Mo
1:30 pm – 3:00 pm	14.15 11.23 : UNITEL = Opun Intervalian Community integral input size input size in users with
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Welcome !	Cluster 2 – « Business&Society and academic
ARM/EU : Challenge driven, Accessible, Research based, Mobile European University renotes UN Descriptionage from States strategic et al. Journey of Variation Variation (UV) strategics of the second strategics of the seco	cooperation »
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Discussion points	Closing remarks
 Based on these good experiences/best cases, how to go beyond and improve even more the cooperation between academia and Business&Society? 	 5 different insights into cooperation between the academia and business and society thank you for she ring with us your experience!
	 Opportantly to meet colleages from low other European & famees, it will hepetally lead to mere cooperation and oxidanges
2) How did the 2 years of sanitary crises impact this cooperation? (share positive elements)	Feedback from the discussion : How is go beyond
	 Positive impact of samilary crises on Ri and susseinable projects. How to go longend exiting a boreast.
3) How to go beyond national borders and create a common way of cooperation between academia in the EU and business?	We will show pot presentation + minutes and report of the cluster
at now will and one reason and personal reasons around way or contraction according to the colorable providence.	Wessey in loach
7004) 1946-1946-2949-1959-1963-1953-1954-19-14-0-14-0-14-0-14-0-14-0-14-0-14-0-	THEN IT MARTINE OF MILLION AND AND AND AND AND AND AND AND AND AN

Cluster 2: Business & Society and Academic Cooperation

PROF. BENOÎT BARDY. University of Montpellier, BEAT HEALTH Project (CHARM-EU Alliance).



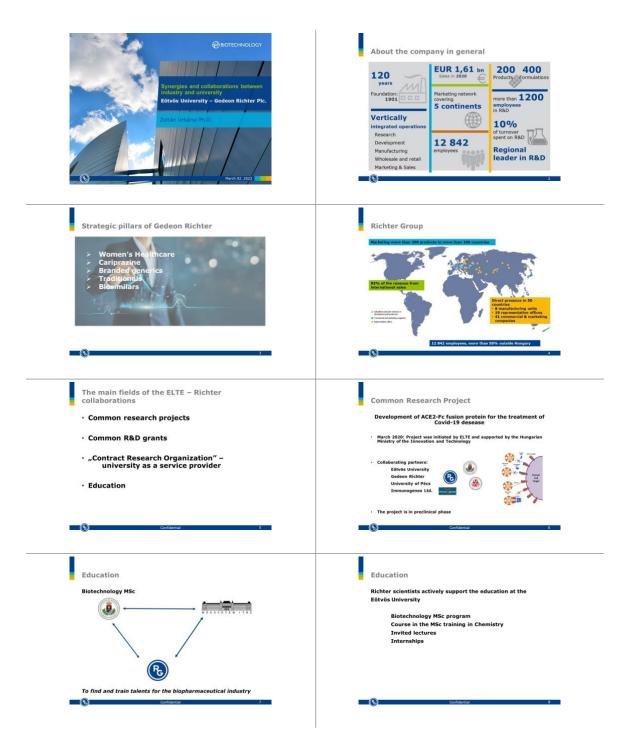




DR. ZOLTÁN URBÁNYI. Biotechnology Research Department, Eötvös Loránd University (CHARM-EU Alliance).



Co-funded by the H2020 Programm of the European Union









PROF. ANICET BLANCH. University of Barcelona, Bluephage (CHARM-EU Alliance).



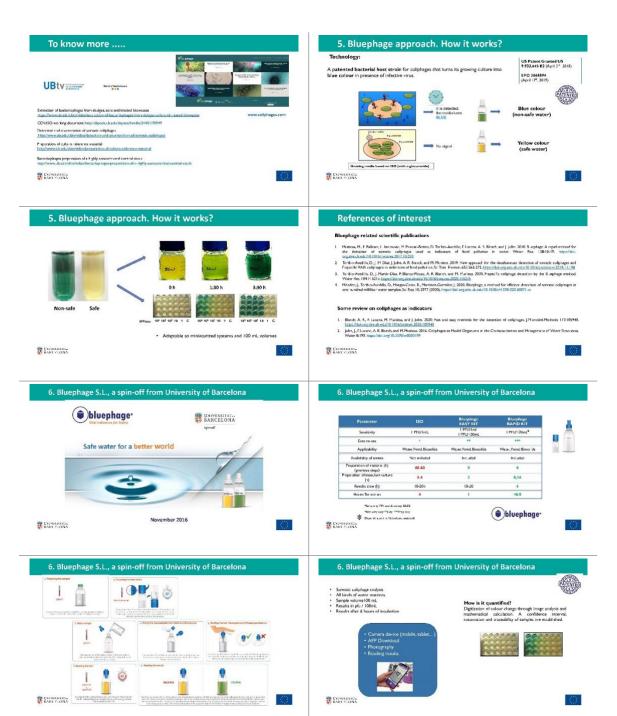


















DR. RASA VIEDERYTE. Klaipeda University, Manager of EU-CONEXUS Research for Society (EU-CONEXUS Alliance).

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			100	
Towards more efficient cooperation: First steps are do	ine.		6 (X)	
What are the second ones?		tion	I FI Star	O Ur
	i denn indi	ustry university cooperation	All All A	1
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1º TORCH Annual Open Forum: Sustainability in a (post?) pandemic world: asking the right quest			distantia	
the role of Universities in R&I today	Lion on 1 Bardonoveve w Bowerth			
2 ^{ne} March, 2022	(at)(et)	weiter and weiter and an an and an and an and an and an an and an an an and an an an and an	toxes	Universität
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DR. JOSEP BORDONAU, DR. JUAN JESÚS PÉREZ, DR. CRISTINA ARESTÉ. Polytechnic University of Catalonia, UPC-BarcelonaTech (Unite! Alliance).

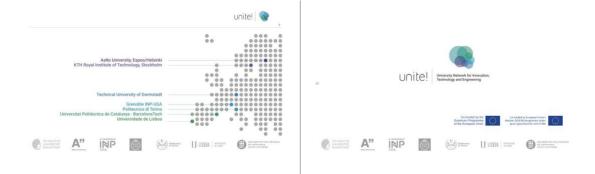




naforming Open Responsible Research	unite!
Unite! Depen Innovation Community integrating different stakeholders Dese Bordonau, Juan Jesús Pérez, cristina Aresté UC: Barcelona Tech Weiter et etteret enter et enter etteret et etteret etteret et enter etteret etteret etteret etteret etteret etteret etteret etteret etteret etteret etteret etteret e	Content • The purpose • Initial work • Identifying the stakeholders • Actions
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• Creation of an Open Innovation Community within Unite! • Develop Regional Innovation Strategies through Unite! • Smart Specialization Strategies (S3) • Lifelong Learning • Ethics in Sustainabile Engineering	Initial work Instant analysis External analysis Stakeholders Stakeholders Opportunities Barriers
unite!	unite!
Identifying the Stakeholders (1 of 2) • Stakeholder Analysis ++>	Identifying the Stakeholders (2 of 2) * The categories of +450 Stakeholders we have considered: Associations, Community and Coworking
Manage Cost Manage Cost Manage Cost Manage Manag	Education and Research Incubatora, BLCs, Accelerators and Science Parks Investors Public Institutions Trade Unions Non Porfit Organizations Companies Industry Associations







Cluster 3: Public Engagement

DR. ANNISA TRIYANTI. Copernicus Institute of Sustainable Development, Utrecht University (CHARM-EU Alliance).

	1 TORCH Annual Forum-Day 2-	-Cluster Public Engagement	e
Work Pack	age 7: Public Engagem	ent Objective Concepts Actions and	deliverables (brief description and status)
A	Marjanneke Vijge (WP7 leader), nnisa Triyanti, Dries Hegger, Peter Driessen, Kirsten Hollaender	Main results Reflections Recommend Discussion p	lations
BARCELONA	E Trans (adapted adapted a	en austración	
Objective		Concep	ots
Objective 7 1. To co	ellect and share existing modalities and pra	actices for	
stimulating co-creat societal stakeholder Objective 7.2 To col mono-disciplinary, e	tion of challenge-driven research and inno rs and to further "democratisation of scien llect and share existing practices to balanc excellence-driven research and global chall nary research and innovation.	nce".	Public engagement: "the myriad of ways in which the activity and benefits of higher education and research can be shared with the public"
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stimulating co-creat societal stakeholder Objective 7.2 To col mono-disciplinary, e driven transdisciplir	tion of challenge-driven research and inno rs and to further "democratisation of scien llect and share existing practices to balanc excellence-driven research and global chall	ce". ce between lenge- Our research atte	Public engagement: "the myriad of ways in which the activity and benefits of higher education and public"
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	i Aliana ana ana ana ana ana ana ana ana ana	Level Opportunities Coulingers Individual - Unitation and indipations of individuals, - Carconary - Methoding and a sense of individuals, - Widelation of scientific research. - Widelation of scientific research. - Coulingers - Widelation of scientific research. - Widelation of scientific research. - Widelation of scientific research. - Coulingers - Coulingers
Open science policy Public engagement, rewards and recognition open education, fair data sharing	Most universities highlighted PP/TD as at least one of the focus elements, either in their trategic plans, using, centres, tamp filled/last research projects which the university UU:Open science and Strategic plan 2021-2025 BUTE Plan to establish the Third mission strategy TCO:Strategic Plan 2022-2023 philpits circle action as the first of its "CORE" principles UB: UB's Science and Technology Centres (CCT-UB) among other institutes, open access model UDK-MOXE (Montegiller University of Ecolience)	University • Supportive university including (degraduate nine related to public magazement. University • Supportive university including addices (Open science induced to public magazement. • Audio of walkillity and impact of current policies and structures in place. University • Supportive university including indications of department and Devices and Structure and policies (Open science) • Audio of walkillity and impact of current policies and structures in place. • Other science in the indication of additional science in the indication of the university discuster and englicitations dedicated rate on public regragement: • Supportive University indications and displace Supportive University in the university indications of the indication of the indication of the indication of the Supportive University indications of the indication of the indication of the Supportive University indications of the indication of the indications of the Supportive University indications of the indication of the Supportive University indication indication of the Supportive Uniter Support indication of the Support indication of the Supporti
Main results (Oppo	ortunities and challenges-3)	Reflections
Interactives - Availability of instancial III - Availability of instancial IV - Access to scientific information - Proceeding quality of instancial - Proceeding quality of instancial - Proceeding quality of instances - Proceeding quality of instances - Discrete field decting usering a model scientific active test on the quality of instances in the quality discrete quality of instances - Availability of hording - Sustainability is a floce area - Sustainability is a floce area		Open Science • PE & To at the heart of open science = science with and for society • Open science accelerate PE & TD, providing new approach to disseministing results through digital technologies a moder collaborative tools • facilitate science disseminiation & promotes participatory approach to disseministing results through digital technologies a moder collaborative tools • Open science is an important way to involve underprivileged society Democritation of science is not a familiar/usable term. Those who are opposing this term concerned about the the term means that science needs to be based on the democratic vole, while that should not be the case • leveraging European universities' role in providing structures and processes that drive and extend reflective path related to open science • universitie carry an important role in further contributing to democratic society and ustability. • a strabed for innovation, inventory of existing good particles and infrastructures. • a strabed for innovation, inventory of existing good particles and infrastructures. • a strabed for innovation, inventory of existing good particles and infrastructures. • a strabed for innovation, inventory of existing good particles and infrastructures. • a strabed for innovation, inventory of existing good particles and infrastructures. • Constant evaluation is needed for the university to monitor the progress of its role
Recommendations	: (1)	Recommendations (2)
dual/keam level increase capacity by participating in dirititain research and educational ining programmes at all levels owide peer support to colleagues am science) and explore ways to prove public engement and utilize motificiplinary approaches in research d education programmes	University level • To mainstream public engagement and transdisciplinary science within the general open science vision • To opening up effective spaces for learning and dialogue • To emeted both inter- and transdisjonary approaches in research and education. • To provide the enabling environment: financial levers, visibility, resources, capacity building and support system in both • To establish research and recognition system to incentivise • scientists and ensure implementability • To reflect the larger role of the university to bridge science with society, especially the marginalised and disadvantaged communities, and find a way on how to assess the progress	 Systemic level-National To improve the vision of science-society interactions, to enserved as an essential issue at the national level. To driversify and scale-up funding mechanism To obtaiblish and maintenism a forum to tool the interventity to drive open science, including citizen enseguence To build an inventory and inform science is about these possibilities. To dready communication and cooperation between the actors of the innovation coopstem (quadruple helpi). To create a national Bormetter a commost of indicators to measure the impact of science for public science and to solve societal problems.
Discussion points	0	MOLTES GRÀCIES
	Flow far do we as universities and society want to go in opening up slic ciplinary retearch and education? Are there boundaries to Open	MUCHAS GRACIAS FÒRÇA GRÀCIAS

Cluster 3: Public Engagement

DR. TROELS JACOBSEN. Director of Innovation and societal engagement, University of Stavanger (ECIU Alliance).













Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda

PROF. LORRAINE LEESON. Associate Vice Provost for Equality, Diversity and Inclusion, Trinity College Dublin (CHARM-EU Alliance).









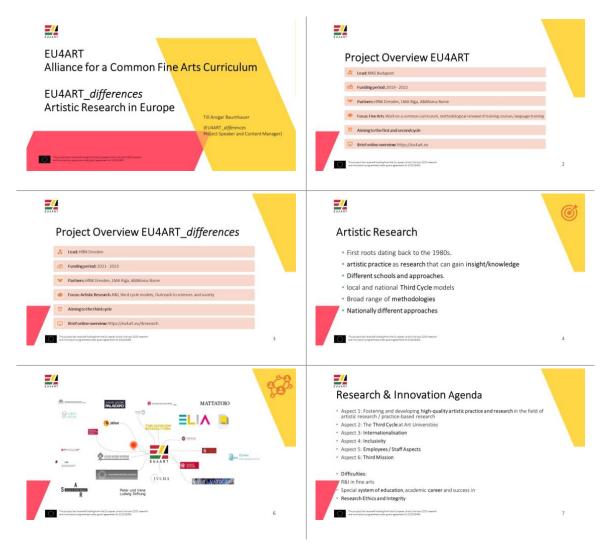






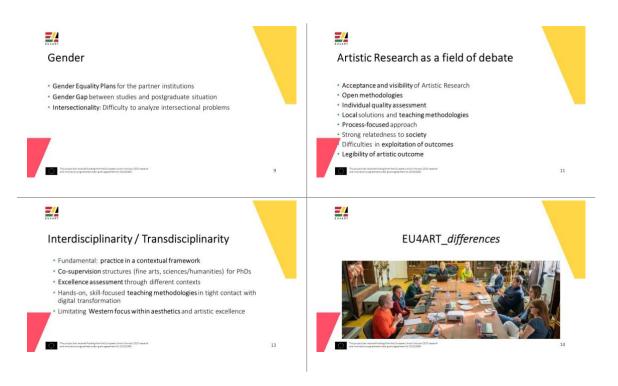
Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda

DR. TILL ANSGAR BAUMHAUER. Hochschule für Bildende Künste Dresden, EU4ART_differences Project Speaker & Leader (EU4ART Alliance).









Cluster 4: Cross-Cutting Principles to Address a Transformative R&I Agenda

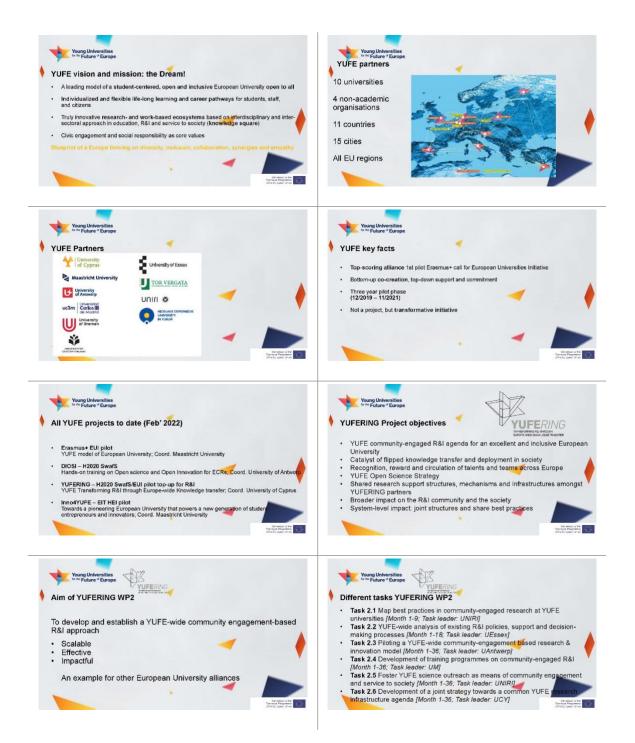
DR. MIREILLE STHIJNS, Maastricht University. DR. NURIA BAUTISTA PUIG, Carlos III University of Madrid (YUFE Alliance).





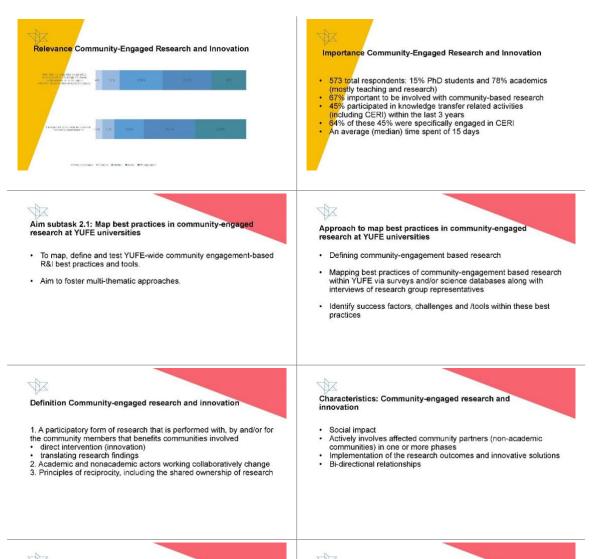














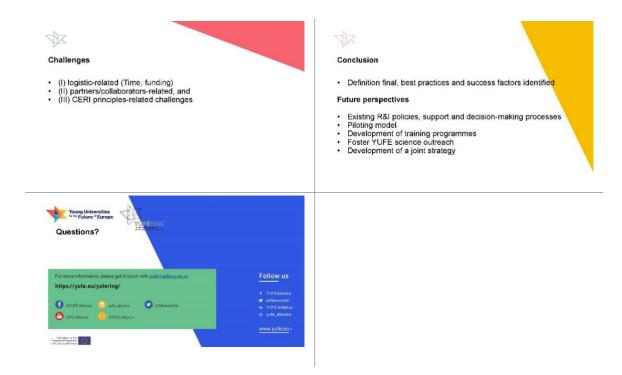
Success factors

- diversity and contextuality (I) research process co-design, knowledge sharing and co-production

- (II) continuity, structure, cyclical approach and impact (III) multiplying effects of working together in a trusting relationship (IV) learning, growing and changing together by introducing innovative services/programmes

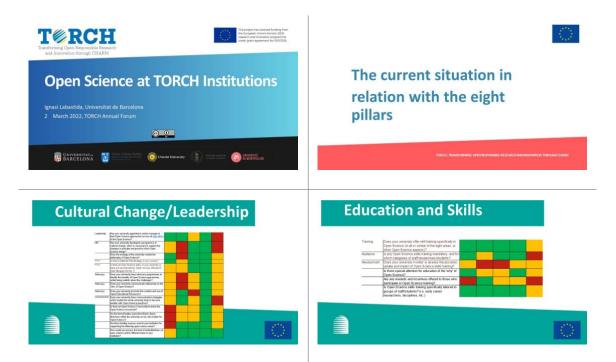






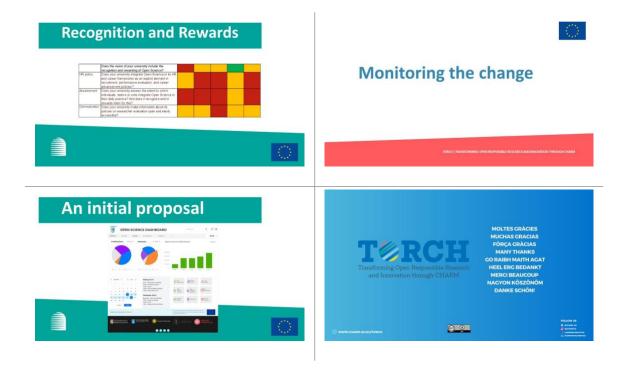
Panel Session: Open Science

DR. IGNASI LABASTIDA. Rector's Delegate for Open Science, University of Barcelona (CHARM-EU Alliance).









Panel Session: Open Science

PROF. ROBERTO DELLE DONNE. University of Naples Federico II (AURORA Alliance).



European Universities

Are transnational alliances of higher education institutions across the European Union aiming at a stronger and more integrated cooperation between European universities.

They aim to establish European interuniversity campus where: students, staff and researchers can enjoy mobility (physical or virtual) to study, train, teach, research & work

They will ambitiously become the universities of the future, revolutionizing the quality and competitiveness of European higher education



AURORA

Programme objectives

- Equip a diverse student population with the skills and mindset to make them social entrepreneurs and innovators, willing and able to tackle the major challenges of our societies.
- Make collaboration with external stakeholders and students regular practice in education, research and outreach – at local, national, European, and global levels.
- Lead by example and inspire others as pioneers in sustainability, reducing the footprint of our individual and collective activities and making substantial contributions to addressing the Sustainable Development Goals (SDGs).
- Build an enduring and sustainable infrastructure to support the collaborative activities of the alliance.







What we stand for: pilot domains

In order to effectively bridge programmes and disciplinary boundaries we have defined a set of four pilot "challenge domains" in which Aurora social innovation in teaching, research and outreach take effect. The domains are:

 Sustainability & Climate Change Digital Society & Global Citizenship

- · Health & Well-being
- Culture: Diversity & Identity

AURORA

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WP3 Aurora Learning for Societal Impact

- Aurora Competences Framework
- · Aurora Pilot Domains
- Aurora Social Transformation
- Aurora Borderless Learning
- Aurora Teaching For Societal Impact
- Aurora Learning Analytics

AURORA

What we do

- WP3 Aurora Learning for Societal Impact
- WP4 Aurora Engaging Communities
- WP5 Aurora Sustainability Pioneers

How we operate

- WP2 Quality management WP6 Sustainability and dissemination .

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WP4 Engaging Communities

- · Aurora Co-creation Practice
- Aurora Academic Collaboration
- Social Entrepreneurship & Innovation
- · Aurora Capacity Development Support
- Aurora Institute

WP5 Sustainability Pioneers

- Aurora SDG Research and Education
- Aurora Sustainable Campus Action Plan



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SWAFS-WP6

Sharing and Implementing

Open Science practices

Lead: UNINA

Co-lead: VU

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WP2 Quality Management

- Quality System
- Quality Culture
- Internal Quality Evaluation
- External Quality Monitoring Quality Enhancement

WP6 Sustainability & Dissemination

- Aurora Alliance Sustainability Plan
- Aurora Dissemination Plan

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SWAFS PROJECT

The focus of the project is to achieve an understanding of best practices and policies on sharing of research infrastructure and resources, cooperation on entrepreneurial activity, empowering human capital, mainstreaming open science and citizen engagement.

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OPEN SCIENCE

Open Science is the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods











implementation, strategies for Open Science Training and Open Data

Stewardship, etc.)

"bottom-up learning communities of researchers and students for learning and sharing about Open Science"





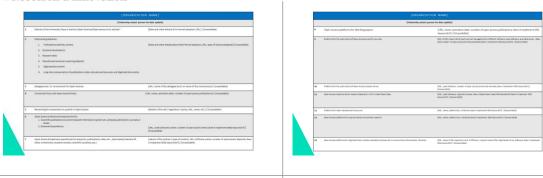
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