

2020 SECURING RD&I INVESTMENTS FOR A SUSTAINABLE EUROPEAN RECOVERY





This year, the COVID-19 pandemic has brought leaders across the globe to work together to mitigate the current crisis. In 2020, EARTO members have demonstrated the essential role of Research and

Technology Organisations (RTOs) in supporting Europe's recovery from the COVID-19 pandemic. Going forward, putting Europe's economy on growth path and making us more resilient to future crises, the need for strengthening Research, Development and Innovation (RD&I) has become crystal clear and vital. Together with its industrial partners, EARTO repeatedly called for the European Institutions to agree on an RD&I budget at the level of Europe's ambitions, both in the next Multiannual Financial Framework (MFF) and in the European Recovery Plan. Creating the framework conditions and investing in pan-European collaborative RD&I and strategic ecosystems is key to European technology sovereignty and to enabling the digital and green transitions. The outcome of budget discussions has been quite positive, with a decent budget dedicated to collaborative applied RD&I in

Horizon Europe's Pillar II. In addition to the budget discussions, EARTO has not shied away and provided its input and position to European Institutions in key EU RD&I policy dossiers, such as the renewed European Research Area, or the implementation of Horizon Europe and its Model Grant Agreement, amongst many others. For 2021, EARTO and its members will dedicate their work to build a more ambitious, resilient, sustainable, green and digital future for Europe.

Antti Vasara

EARTO President, President & CEO, VTT

As 2020 marked the finalisation of the negotiations for the new EU programmes, EARTO had an intense and successful year with the publication of more than 20 position papers, focusing on all important RD&I dossiers. Having a say in all future European RD&I activities, EARTO showed its commitment to make sure that research and technology are a key vehicle for Europe's sustainable recovery. Despite the spread of COVID-19, EARTO continued its work and strived harder than ever before to promote RTOs' interests. Thanks to its members' trust and support, EARTO very well adapted to the COVID-19 work environment and digitalised all its activities, including meetings, Working Groups, Task Forces and events. With the active work of its experts, EARTO highlighted RTOs' positions and supported the establishment of all EU programmes with an RD&I dimension, such as Horizon Europe, Regional, Space, Defence and Digital Europe Programmes. EARTO also launched several series of webinars to keep the good and direct connection between EARTO members and EU policy makers, providing them support to shape the future of EU RD&I and Industrial policy. We are now looking forward to 2021 with the kick start of all these key EU RD&I programmes. EARTO will keep providing its experts' input to the European Institutions for the successful implementation of those programmes.

Iñaki San Sebastián EARTO Vice-President, CEO, Tecnalia

The EARTO network has remained attractive regardless of the COVID-19 outbreak, and as in the last years, EARTO's membership has grown in 2020, welcoming 8 new members from Europe and beyond. Within EARTO, the recently created "RTOs International Network" (RIN) is key to highlight and demonstrate the important role of RTOs, while strengthening collaboration between RTOs to tackle global challenges together. EARTO has also reinforced its collaboration with the OECD, shedding light on RTOs' role in co-creation initiatives and to set-up mission-oriented policy at all levels. Looking ahead at the years to come, EARTO will continue its work to promote its members' positions and shape the future RD&I policies and instruments. One key target for 2021 will be to seize the momentum of the renewed European Research Area to trigger the creation of a European strategy for Technology Infrastructures, which is long overdue and will be essential to build the sustainable and digital future that Europe needs. In general, RTOs very much value their participation in networks like EARTO, which enables them to strengthen their capacity and impact on tackling socio-economic challenges at global scale.

Pia Sandvik EARTO Treasurer, President & CEO, RISE



2006

Launch of

Responsible
Partnering guidelines
with EIRMA, EUA,
and Proton Europe

2008

EARTO AERTOS ERA-NET aiming at exploring joint programming between RTOs

2010

EARTO in EC 1st High-Level Group on KETs

EARTO launches yearly brochure "Impact Delivered: Technology for a Better World" highlighting key contribution of RTOs to innovation

EARTO in EC's
Expert Panel for FP7
Midterm Review:
adoption of FP7
simplification
measures defended
by EARTO

2010-2013

EARTO's 3-year campaign for an adequate H2020 & EU Financial Regulation implementation: 15 position papers, over 30 meetings with the EC, 5 speeches at European Parliament hearings and 2 commissioned studies on the impact of RTOs and the importance of applied research

2012

EARTO in ERA SHO Platform

EARTO in ERIAB

Launch of Twitter account and LinkedIn group on H2020

2000 CREATION

2004

in EURAB,

4 EARTO members

implementation of

new EU measures

supporting SMEs'

R&I activities

2001

Association recognised by EU Commissioner Busquin

2005

EURAB's report on RTOs and ERA

EARTO joins EU Commissioner Potoc'nik's Sounding Board

2007

EARTO chairs EC's SME Advisory Group for FP7

The DESCA Group, supported by EARTO, publishes FP7 model consortium agreement

EARTO in ERAB

2009

Launch of EARTO Innovation Prize. Prize delivered over the years by EU Commissioners, EC Chief Scientific Advisers and EIT Chairmen

2009-2011

EARTO addresses
European Parliament
5 times on the
simplification of
FP7, FP6 ex-post
audits and EU's
Financial Regulation

2013

Creation of the Large Research Infrastructure Scheme (LRI) in H2020

EARTO members in 2nd EC High-Level Expert Group on KETs

InfoDay on H2020 with EIRMA

2014

EARTO active on **State Aid Rules** Revision

EARTO ERRIN paper on Synergies ESIF/ H2020

1st feedback paper on H2020 1st calls with IGLO

FARTO Recommendations for Future EU **Innovation Policy**

1st Letter to EC **President Juncker** against cuts to H2020 in EFSI

2016

EARTO President hands over EIC paper to Commissioner Moedas

EARTO addresses EP on H2020 Midterm Review. EIC and EU auditing policy

EARTO contributes to various EU discussions on **ESIF Simplification** and post-2020 programming period

Launch of two new technology oriented **Working Groups:** MedTech and **European Data Space**

2018

EARTO shares its position on EU Post-2020 programmes: Horizon Europe, Digital Europe, Space, Defence, **Structural Funds**

2nd ioint declaration for an ambitious **Horizon Europe** budget by 25 Industry & RTOs' Associations

EARTO launches its 2nd Economic **Footprint Study at EARTO Impact Day**

EARTO in 4 HLGs on Industry 2030, **Important Projects** of Common European Interest (IPCEI), Artificial Intelligence. and the Open Science Policy Platform (OSPP)

2015

EARTO, CESAER, **EUA**, LERU and Science Europe Joint Statement on EFSI

EARTO CEOs meet EU Commissioners Moedas & Cret'u

Launch of EARTO 1st Innovation School, with two editions in 2015

Signature of MoU with JRC

Launch of EIB InnovFin Advisory Services on RTOs and ioint WG with EIB

2017

EARTO in EC 3rd **High-Level Group** on KETs

EARTO strengthens its collaboration with EIB, EIT, JRC and OECD

EARTO presents its views to the EC **HLG** on maximising impact of EU R&I Programme, the HLG H2020 Midterm Review, the EESC **Midterm Review** panel, and the HLG **ESIF Simplification**

2019

EARTO promotes its positions on EU Post-2020 programmes' regulations: Horizon Europe (incl. Model Grant Agreement), Digital Europe, Regional, Space, Defence

EARTO joins forces with 90+ industry associations to call for an ambitious Horizon **Europe Programme**

EARTO & Vanguard Initiative publish a joint statement on EC's proposal to review the GBER

EARTO in 4 EC HLGs: Industry 2030, IPCEI, **Artificial Intelligence** and the OSPP

EARTO members sit in EU Missions' Board and Assemblies

2020

- EARTO supports its members' actions against the COVID-19 pandemic and its socio-economic consequences: various EARTO members involved in research fighting COVID-19 and set-up of an EARTO Task Force COVID-19
- EU budget for RD&I with its industrial partners, incl. Open Letter to Council President Charles Michel: €5 billion NGEU top-off & €4 billion top-off by EP in the final negotiations
- EARTO promotes its positions on EU Post-2020 programmes' regulations: Horizon Europe (incl. Model Grant Agreement), Digital Europe, Regional, Space, Defence
- (TIs): a new European Strategy on TIs is to be developed as an action of the newly launched **European Research Area**
- EARTO & its regional partners publish 3 joint statements on Synergies Post-2020, the new Interregional Innovation Investments and EC's **Consultation reviewing the GBER**
- EARTO promotes a balanced approach between IPRs and Open Science Policy (paper & webinar)
- **EARTO** collaborates with the OECD on Mission-oriented policies: case studies on RTOs' co-creation initiatives used by the OECD and a position paper published on EU missions' possible governance
- Adapting to the pandemic, EARTO organises several series of digital webinars with EU Officials, enabling its members to discuss key EU topics
- **EARTO** meets key EU Commissioners, their Cabinets and Director-Generals to discuss and provide EARTO inputs on strategic EU dossiers
- **EARTO** in 3 EC HLGs: Artificial Intelligence, OSPP and the newly established EU Sustainable Finance Platform





ACTIVE WORKING GROUPS ORARY TASK FORCES

COMMUNICATION & POSITIONING IN FIGURES



137 ARTICLES ON KEY DOSSIERS IN EARTO NEWSLETTERS
140 ARTICLES PUBLISHED ON THE WERSITE NEWS SECTION



TWITTER & LINKEDIN ACCOUNTS GATHER MORE THAN

5,900 FOLLOWERS



EARTO IN

3 EC HLGS

ARTIFICIAL INTELLIGENCE, OSPP AND EU SUSTAINABLE FINANCE PLATFORM





8 ACTIVE WGS AND 80%
OF MEMBERS ACTIVELY
INVOLVED IN OUR WGS



29

COUNTRIES ACTIVE IN OUR WGS



BOARD & STEERING COMMITTEE COMBINED HAVE MET

8 TIMES
(2 BOARD + 6 STCO)



EU Influence

- Strongly voice the need of an ambitious EU budget for RD&I
- Work with EU Institutions to finalise the post-2020 programmes:
 Horizon Europe, Digital Europe, Space, Defence, Structural Funds
- Work with EC and Member States' experts on Horizon Europe's implementation, including financial rules (e.g. unit costs/internal invoices, personnel costs, audits and system and process audits, lump-sums), and legal rules (e.g. open science, IPR, dissemination & exploitation of results) of the Model Grant Agreement
- EARTO in 3 EC HLGs: Artificial Intelligence, OSPP and the EU Sustainable Finance Platform
- Work with EU institutions on the EU R&I Legal Framework for a balanced approach between IP policy and efficient EU data sharing policy
- EARTO meets numerous EU Officials to discuss and promote EARTO's positions on strategic EU dossiers, incl. Cabinet's Members of EC President von der Leyen, as well as Cabinets' Members of Commissioners Mariya Gabriel, Thierry Breton, Margrethe Vestager, Elisa Ferreira and Director-Generals of EC DG R&I, Jean-Eric Paquet and new EC DG DEFIS, Timo Pesonen
- Collaboration with the OECD: official data on RTOs, knowledge co-creation and the role of intermediaries, mission-oriented policy
- Collaboration with the JRC: EARTO in the board of the TTO Circle, EARTO members in JRC Board & JRC expert group on State Aid for RD&I

Promoting RTOs and their reputation

- EARTO Special Events: Public webinar on "Towards a Balanced Approach Between IPRs and Open Science Policy", internal workshop on Missions and 12 digital webinars with EU Officials enabling its members to discuss key EU topics
- EARTO participation in EU R&I Days, EU Regions Week 2020, European Strategy Summit and 2nd RTO Innovation Summit
- Raised RTOs' profile highlighting members' success stories at our Innovation Awards Ceremony, with its brochure and press release

Networking with other stakeholders

- Policy Event and Innovation Awards ceremony: more than 300 participants. 2 winners: Helmholtz Association and VTT
- Collaboration with EU Industry associations for an ambitious Horizon Europe programme
- Collaboration with regional partners, incl. the Vanguard Initiative on Synergies Post-2020 and on the EC Consultation on Interregional Innovation Investments



IMPACT DELIVERED



Slowing down osteoporosis







Non-obtrusive technique needed





Safe and non-toxic fire-protection gel





IMPACT EXPECTED



Eggs without chickens





Paralysed patients are not alone





Superheroes' filaments come to life



MEMBERS IN H2020 IN FIGURES

(eCorda data October 2020)



EARTO MEMBERS REPRESENT 1% of the Beneficiaries BUT RECEIVE

8% OF THE AVAILABLE FUNDING



INDUSTRY PARTICIPATION INCREASES TO 34%
WHEN EARTO MEMBERS ARE INVOLVED IN THE PROJECT (24% WHEN THEY ARE NOT)



EARTO MEMBERS COORDINATE

33%
OF THE PROJECTS IN WHICH THEY PARTICIPATE



EARTO MEMBERS PARTICIPATE IN LARGE COLLABORATIVE PROJECTS
WITH ON AVERAGE €5.4M EU CONTRIBUTION AND



SPENT IN PILLAR II (INDUSTRIAL LEADERSHIP) GIVEN TO



SPENT IN PILLAR III (SOCIETAL CHALLENGES) GIVEN TO PROJECTS WITH EARTO MEMBERS,



To define **common positions** and **exchange best practices,** EARTO has fixed **WGs**.

Throughout 2020, **5 POLICY WGs** and **3 TECHNOLOGY ORIENTED WGs** were running.

POLICY WORKING GROUPS

WG EU Framework Programmes

Chair

EARTO Secretariat

- 1 HIGH-LEVEL ROUNDTABLE ON RD&I POLICY DURING R&I DAYS
- 1 INTERNAL WORKSHOP ON MISSIONS
- 2 SERIES OF WEBINARS WITH EU OFFICIALS
 (INCL. 12 WEBINARS IN VARIOUS RD&I TOPICS OF INTEREST)
- 13 PAPERS PUBLISHED IN 2020
- EARTO Presse Release: Horizon Europe's Budget Allocation
- EARTO Reaction to the new EC Communication on European Research Area (ERA)
- EARTO Paper: Setting-up a European Strategy for Technology Infrastructures
- EARTO Inputs for the EC Communication on European Research Area (ERA)
- EARTO Press Release: Call for the European Parliament to Become the Champion of EU RD&I Investments
- EARTO Open Letter to President Michel More Ambitious EU RD&I investments needed in the next MFF
- EARTO Response to the EC Consultation on the Renewed Sustainable Finance Strategy: focus on the future role of R&I part
- EARTO Inputs for the EC Communication on Horizon Europe Missions
- EARTO Press Release: Call for a Swift MFF Agreement Ensuring Ambitious EU RD&I Investments
- EARTO Paper on the EU Economic Recovery Package: Mobilising European RD&I Capabilities & Skills towards EU Economic Recovery Post COVID-19
- EARTO Press Release on the New EU Industrial Strategy
- EARTO Position Paper: Mobilising European RD&I Capabilities & Skills towards the European Green Deal
- EARTO Open Letter to President Michel on the MFF for the Special European Council meeting of 20 February

Cooperation with EC DGs & other Stakeholders

DG R&I, DG CONNECT, DG GROW, DG JRC, EP (ITRE), European Political Strategy Centre, Business Europe, Digital Europe, Orgalim and 30+ other Industry associations

KEY ISSUES FOR 2021

- Horizon Europe: following launch & implementation, Clusters/KETs, Partnerships, Missions, EIC, EIT, etc.
- ERA implementation: new EU strategy on Technology Infrastructures
- Digital Europe Programme: Innovation Hubs & TEFs

WG Legal Experts

Chair & Core Team

CEA & EURAC, TNO

- 1 PUBLIC WEBINAR ON "TOWARDS A BALANCED APPROACH BETWEEN IPRS AND OPEN SCIENCE POLICY"
- 4 PAPERS PUBLISHED IN 2020
- EARTO Paper: Towards a Balanced Approach Between IPRs and Open Science Policy
- EARTO Feedback on the EC H2020 Data Management Plan's Template
- EARTO Joint Contribution to the EC consultation reviewing the GBER
- EARTO Analysis of Recital 5 of Horizon Europe's Regulation

Cooperation with EC DGs & other Stakeholders

DG R&I, DG CONNECT, DG GROW, DG COMP, DG TRADE, DG JRC, EP (ITRE)

KEY ISSUES FOR 2021

- Horizon Europe implementation: Rules for Participation and Model Grant Agreement (legal aspects) & Annotated Grant Agreement
- Open Science policy, incl. Data Management Plan, FAIR data, European Open Science Cloud, Open access to publications, Plan S
- Intellectual Property Rights, Standard Essential Patents & Standardisation
- EU State Aid rules: implementation and revision
- Pre-Commercial Procurement

WG Financial Experts

Chair & Core Team

TNO & AIT, DTI, Fraunhofer, VTT

- 3 PAPERS PUBLISHED IN 2020
- EARTO Technical Paper on the Calculation of Personnel Costs in Horizon Europe
- EARTO Paper on Horizon Europe's Internal Invoices Scheme
- Contribution to the petition on the Calculation of Personnel Costs in Horizon Europe

Cooperation with EC DGs & other Stakeholders

DG R&I, DG BUDG, ECA, EP (ITRE, BUDG, CONT), Members States', MGA experts, **Accountancy Europe**

KEY ISSUES FOR 2021

- Horizon Europe implementation: Rules for Participation and Model **Grant Agreement (financial aspects)** & Annotated Grant Agreement
- Usual cost accounting practices, unit costs, allocation keys, internally invoiced goods and services
- · Audits, cross-reliance, system and process audits
- Lump Sum pilots

WG Impact

EARTO Secretariat



• EARTO Paper: Setting-up a European Strategy for Technology Infrastructures

Cooperation with EC DGs & other Stakeholders

OECD, DG R&I, DG JRC, EUROSTAT

KEY ISSUES FOR 2021

- Organising EARTO data collection and benchmarking studies
- Demonstrating the impact of RTOs by sharing recent studies
- Work towards official OECD and EUROSTAT data on RTOs (flagging in national statistics)
- Collaboration with OECD in joint projects on common topics: cocreation, knowledge transfer and RD&I Intermediary organisations, technology infrastructures, etc.

WG Structural Funds

Chair & Core Team

Tecnalia & Fraunhofer, VTT



- Joint contribution to the public consultation on Interregional Innovation Investments (I3)
- EARTO Joint Contribution to the EC consultation reviewing the GBER
- Joint Statement on EU Interregional Innovation Investments: towards EU economic recovery

Cooperation with EC DGs & other Stakeholders

DG R&I, DG REGIO, DG JRC, DG CONNECT, ERRIN, Vanguard Initiative, Committee of the Regions, EP (REGI)

KEY ISSUES FOR 2021

 Synergies with Horizon Europe incl. Interregional Innovation Investments (I3) & transfer of Cohesion resources to other **EU Programmes**

TECHNOLOGY ORIENTED WORKING GROUPS

WG MedTech

Chair & Core Team

CEA, AIT, LEITAT



Cooperation with EC DGs & other Stakeholders

DG R&I, DG GROW, DG REGIO, DG SANTE. DG CONNECT, MedTech Europe, EFPIA, COCIR, Vanguard Initiative

KEY ISSUES FOR 2021

- Input to Horizon Europe Partnership on Health & Clusters looking at health related topics
- Linking with Medtech SMEs
- · Role of Medtech RTOs in Horizon Europe
- Monitor and influence the creation of the new EU4Health programme
- Inputs the new EIC Transition instrument

WG Security Research

Chair & Core Team

TNO & VTT, AIT, INOV



 EARTO WG Security & Defence Paper: Towards Horizon Europe: Bridging the Valley of Death in Security Research

Cooperation with EC DGs & other Stakeholders

DG DEFIS. DG R&I. DG CONNECT. DG HOME. EDA. IMG-S. CEN CENELEC. EIB. Seren 4

KEY ISSUES FOR 2021

- Input to Horizon Europe (security & defence related topics)
- First Work Programmes of Horizon Europe
- European Defence Fund
- RTOs in Secure Societies

WG Space Research

Chair & Core Team

CSEM & Fraunhofer, TNO

3 KEY ISSUES FOR 2021

Cooperation with EC DGs & other Stakeholders

DG DEFIS. DG GROW. DG R&I. ESA, ESTEC, EASN, Eurospace, SME4Space

KEY ISSUES FOR 2021

- Mapping of technologies of the EARTO WG Space
- Input to Horizon Europe Partnership & Technology Platform on Space
- Collaboration with ESA: ESA GCC model subcontract, ESA Harmonisation of Technologies



EARTO WELCOMED 8 NEW MEMBERS IN 2020:

A*STAR (SG), AIST (JP), BRTA (ES), CETAQUA (ES), CSIRO (AU), ELKH (HU), IDEKO (ES), Tekniker (ES).

Our Membership Categories are

- Individual Members: organisations established in member countries of the European Union or European Economic Area or in an "Associated Country" or intergovernmental organisations owned by multiple countries of the European Union or European Economic Arevt, in the meaning of the EU Framework Programme for Research and Technological Development. Individual members' predominant activity is to provide research, development, technology and innovation principally to governments and the industry. They are public or private non-profit organisations. Individual members are managerially independent. The organisation is a legal entity or part of a larger non-profit organisation and has its own financial system (issuing its own financial statement, annual report etc.). EARTO services accessible: They receive all the services of the Secretariat without restriction.
- Association Members: not-for-profit national/regional/sectoral associations established in the European Union or European Economic Area or in an "Associated Country", in the meaning of the EU Framework Programme for Research and Technological Development and whose members are predominantly organisations which meet the conditions for individual membership and whose membership is broadly representative of the industrial research and development, technology and innovation sector in the territory, sector or other sphere of activity of the said association. EARTO services accessible: Only the "Secretariat" of the association strictu sensu shall enjoy the rights of EARTO membership (i.e. Association cannot send its members to participate to EARTO Working Groups).
- Corresponding Members: industrial research and technology organisations which are established in countries which do not meet the geographic criteria of individual membership. EARTO services accessible: Newsletter service, participate to EARTO general events, can join one Working Group, do not have voting rights.
- Associated Members: individuals or organisations which do not qualify for membership of the Association and which by their activities, their financial contributions or other means, make a significant contribution to the fulfilment of the purpose of the Association. EARTO services accessible: Newsletter service, participate to EARTO general events, can join one Working Group, do not have voting rights.

Our Yearly Events

To foster networking between members and exchanges with external partners, EARTO organises a number of internal meetings (Executive Board, Steering Committee, Working Groups) and public events. Yearly public events include:

- One Annual Conference is generally co-hosted by one EARTO member in its own country, rotating every year. In 2020, due to the COVID-19 pandemic, the EARTO's Annual Conference was cancelled.
- One Policy Event discusses EU R&I Policy, followed by the Innovation Awards Ceremony, where EARTO members compete for the prize for best innovation of the year (two categories: Impact Delivered & Impact Expected). This year both events were held digitally gathering more than 300 participants.
- Innovation Schools: EARTO launched in 2015 a new set of events, the Innovation Schools, specially dedicated to EU policymakers from EC, EP and Member States. This year, EARTO Innovation School was transferred into digital webinar series focused on key EARTO dossiers, incl. "Towards a Balanced Approach Between IPRs and Open Science Policy".

Our Daily EU Policy & Press Monitoring

- EARTO Newsletter, which includes outcome of Working Groups' meetings, policy developments and reporting of events.
- EARTO website's news section updated regularly with information from the monitoring of over 50 websites of EU Institutions and key press.
- Twitter (5,900 followers) & EARTO LinkedIn Group on "EU Framework Programmes - News and Views" (13,000 members).
- EARTO Members' Area containing all EARTO newsletters, WGs' documents and non-public policy documents gathered as a result of networking efforts.

Our Meeting Room & Flexible Working Space

Our meeting room is available to members for meetings of up to 12 participants under a small compensation (€250/day, lunch arrangements extra). Members needing a larger meeting room in Brussels are welcome to contact the EARTO Secretariat for assistance. In addition, EARTO has an extra one-person working space for its members to use whenever in Brussels. Due to the COVID-19 pandemic, as of March 2020, EARTO Secretariat is mostly teleworking as of March and this service has therefore been suspended.

EARTO Secretariat

Muriel Attané, Secretary General

Kadija Taffah, Deputy Secretary General - Membership, Finance & HR

Erwan Kermadec, Senior Advisor - Technology & Policy Affairs

Sophie Viscido, Senior Advisor - Policy Strategy & Analysis

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