EARTO

IMPACT DELIVERED

European Association
of Research and Technology Organisations

2019

SHAPING EU RD&I POLICIES AND PROGRAMMES POST-2020

www.earto.eu

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In 2019, thanks to its members' active involvement and strong commitment, EARTO has successfully fulfilled its mission by publishing and promoting 17 position papers, addressing all key topics of RTOs' interest. Our structure is still allowing EARTO to be a responsive network adapting to a demanding and evolving EU agenda. Combining the work of its Steering Committee, Board and Secretariat with the expertise gathered in its 8 Working Groups, EARTO Network is able to quickly and efficiently shape common positions. EARTO constantly supports the EU Institutions in defining EU RD&I policies. This year, EARTO has provided key inputs to EU Institutions for the creation of various EU programmes related to RD&I and their possible synergies: especially Horizon Europe, Regional, Space, Defence and Digital Europe Programmes. EARTO inputs covered not only how those programmes should be shaped, but also what new measures could be taken in order to maximise the impact of the future participation of RD&I actors such as RTOs. EARTO inputs have been very well received and proved to be useful to EU institutions in the making of the new EU regulations linked to the setting-up of those new EU RD&I programmes this year. Our network can be very satisfied with its impact.

Iñaki San Sebastián
EARTO Vice-President, CEO, Tecnalia

Europe is entering a new era that will have an impact on the future of next generations, with key societal, environmental and economic challenges to face. In this context, European leaders clearly need to prioritise Research, Development and Innovation (RD&I) in the next EU budget. Being one of the main drivers of prosperity and sustainable growth, public budget leveraging private RD&I investments in the EU, RD&I is essential to answer societal needs. With their expertise, RTOs will have a prominent role to play in supporting European leaders to define Europe's future RD&I policies. EARTO has provided European leaders with a set of concrete recommendations to develop effective and impactful post-2020 RD&I policies in Europe. These recommendations especially include the necessity to set-up an EU strategy on technology infrastructures, as well as to ensure efficient RD&I framework conditions in the EU to support private RD&I investments (e.g. competition law, industrial policy, internal market). For 2020, EARTO and its members aim at further promoting and discussing this set of recommendations with European leaders in a continued open dialogue. EARTO's contribution will deliver impact for the next EU programming period covering 2020 to 2027. Indeed, delivering societal and economic impact is deeply rooted in RTOs' missions and business models.

Antti Vasara
EARTO President, President & CEO, VTT

In 2019, EARTO has seen an unprecedent growth of its membership, welcoming 11 new members, from Europe and beyond. Our new international members are now active in the new RTOs International Network (RIN) that we launched this year. RIN constitutes a great opportunity to exchange best practices world-wide as well as present a common RTOs front towards international institutions. Today EARTO counts 29 countries from Europe and beyond demonstrating the stability of the association. Furthermore, one key topic treated by EARTO this year has been the promotion of the creation of a new EU strategy for technology infrastructures. Such pan-European strategy on technology infrastructures will be key for the new EU Industrial strategy to be based on EU technology leadership in key EU value chains. More work on this topic will be done in 2020. In addition, the European leaders are developing a new EU agenda with the new European Green Deal towards which European RTOs will have to position themselves in the coming year. EARTO is clearly dedicated to demonstrating RTOs' impact on tackling societal challenges like those targeted by the European Green Deal.

Pia Sandvik
EARTO Treasurer, President & CEO, RISE

EARTO TIMELINE

2004
4 EARTO members in EURAB, implementation of new EU measures supporting SMEs' R&I activities

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

2001
Association recognised by EU Commissioner Busquin

2005
EURAB's report on RTOs and ERA

EARTO joins EU Commissioner Potočnik'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

2019

2014

EARTO active on State Aid Rules Revision

EARTO ERRIN paper on Synergies ESIF/H2020

1st feedback paper on H2020 1st calls with IGLO

EARTO 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 joint 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, IPCEI, Artificial Intelligence, and the OSPP

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 organises 2 Innovation Schools on "the Next Cohesion Policy Programming Period" and on "Horizon Europe Implementation: Key Financial Aspects"

▶ EARTO CEOs meet EC DG R&I Director General Jean-Eric Paquet at EC High-level Roundtable on RD&I Policy during the EU R&I days

▶ EC Vice-President for Jobs, Growth, Investment and Competitiveness Jyrki Katainen and Finnish Interior Minister Kai Mykkäne speak at EARTO Annual Conference

▶ EARTO in 4 EC HLGs: Industry 2030, Important Projects of Common European Interest (IPCEIs), Artificial Intelligence and the Open Science Policy Platform (OSPP)

▶ EARTO members sit in EU Missions' Board and Assemblies

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 joint 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

17
POSITION PAPERS
INCL. 10 EARTO PAPERS ON HORIZON EUROPE

5
EARTO EVENTS

8
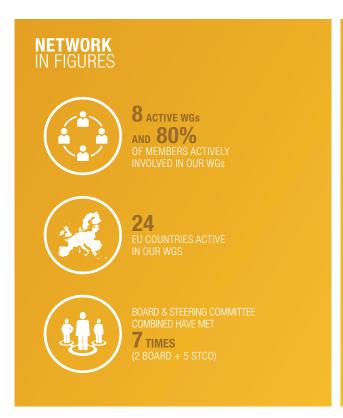ACTIVE WORKING GROUPS

EARTO
ACTIVITIES

EU Influence

- Strongly voice the need of an ambitious EU budget for RD&I

- Work with EU Institutions to prepare 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 4 EC HLGs: Industry 2030, Important Projects of Common European Interest (IPCEIs), Artificial Intelligence, and the Open Science Policy Platform (OSPP)

- Work with EU institutions on the EU R&I Legal Framework for efficient EU data sharing policy

- Meetings with EC Vice-President for Jobs, Growth, Investment and Competitiveness Jyrki Katainen, EC DG R&I Director General Jean-Eric Paquet, Commissioner Moedas, EC DG CONNECT Deputy Director General Khalil Rouhana, EC DG GROW Deputy Director General Antti Peltomäki

- Collaboration with the OECD: data on RTOs, technology infrastructures, knowledge co-creation and the role of intermediaries

- 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

- EARTO Speaker in the Closing Ceremony of RDI days

Promoting RTOs and their reputation

- 3 EARTO Special Events: High-level Roundtable with BusinessEurope on RD&I Policy during RDI days, Innovation Schools on "the Next Cohesion Policy Programming Period" and on "Horizon Europe Implementation: Lump-sums, Unit Costs, System Audits and Other Key Financial Aspects"

- Raised RTOs' profile highlighting members' success stories at our Innovation Awards Ceremony, with its brochure and press release

Networking with other stakeholders

- Annual Conference in Espoo, Finland: 250 participants, hosted by VTT

- Policy Event and Innovation Awards ceremony in Brussels: more than 250 participants. 2 winners: CEA and Fraunhofer

- Collaboration with 90+ EU Industry associations for an ambitious Horizon Europe programme

- Collaboration with ERRIN, Vanguard Initiative and other region networks on Synergies Post-2020

NETWORK IN FIGURES

8 ACTIVE WGs
AND **80%** OF MEMBERS ACTIVELY INVOLVED IN OUR WGs

24 EU COUNTRIES ACTIVE IN OUR WGS

BOARD & STEERING COMMITTEE COMBINED HAVE MET **7** TIMES (2 BOARD + 5 STCO)

COMMUNICATION & POSITIONING IN FIGURES

84 ARTICLES ON KEY DOSSIERS IN EARTO NEWSLETTERS
166 ARTICLES PUBLISHED ON THE WEBSITE NEWS SECTION

TWITTER & LINKEDIN ACCOUNTS WITH MORE THAN **5,600** FOLLOWERS AND **12,200** MEMBERS

EARTO IN **4** EC HLGs: INDUSTRY 2030, IPCEI, ARTIFICIAL INTELLIGENCE, OSPP

EARTO

INNOVATION AWARDS 2019

IMPACT DELIVERED

1ST PRIZE	2ND PRIZE	3RD PRIZE
Targeting better cancer care	The new ion age	End of the tunnel for firefighting system
Fraunhofer	TNO innovation for life	RI.SE

IMPACT EXPECTED

1ST PRIZE	2ND PRIZE	3RD PRIZE
Energy transition on the move	One step ahead	The seed of a good idea
cea	Fedit Centros Tecnológicos de España / CIT UPC CENTRE D'INNOVACIÓ I TECNOLOGIA UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH	tecnalia Inspiring Business

MEMBERS IN H2020 IN FIGURES
(eCorda data October 2019)

EARTO MEMBERS

EARTO MEMBERS REPRESENT
1% OF THE BENEFICIARIES
BUT RECEIVE
8% OF THE AVAILABLE FUNDING

INDUSTRY PARTICIPATION
INCREASES TO **33%**
WHEN EARTO MEMBERS ARE INVOLVED IN
THE PROJECT (24% WHEN THEY ARE NOT)

EARTO MEMBERS COORDINATE
32%
OF THE PROJECTS IN WHICH THEY
PARTICIPATE

EARTO MEMBERS PARTICIPATE IN LARGE
COLLABORATIVE PROJECTS
WITH ON AVERAGE
€5M EU CONTRIBUTION AND
14 PARTNERS PER PROJECT

61% OF THE FUNDING
SPENT IN PILLAR II
(INDUSTRIAL LEADERSHIP) GIVEN TO
PROJECTS WITH EARTO MEMBERS

54% OF THE FUNDING
SPENT IN PILLAR III
(SOCIETAL CHALLENGES) GIVEN TO PRO-
JECTS WITH EARTO MEMBERS

EARTO
WORKING GROUPS IN 2019

To define common positions and exchange best practices, EARTO has fixed Working Groups. Throughout 2019, 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 RDI DAYS

7 PAPERS PUBLISHED IN 2019

- EARTO Recommendations for European RDI Policy Post-2020
- EARTO Press Release on MFF: More ambition is needed for EU RD&I Investments
- EARTO Answer to the EC Consultation on the Digital Europe Programme
- EARTO Answer to the EC Consultation on Horizon Europe Implementation Aspects - horizontal aspects
- Joint Statement for an Ambitious Horizon Europe Programme with 92 industry associations
- EARTO Answer to the EC Consultation on Horizon Europe Programme Strategic Planning
- Press Release – EARTO Welcomes the EU Institutions' Agreement on Horizon Europe

Cooperation with EC DGs & other Stakeholders

DG R&I, DG CONNECT, DG GROW, DG JRC, European Political Strategy Centre, EP (ITRE), Business Europe, Digital Europe, Orgalim and more than 20+ other Industry associations

KEY ISSUES FOR 2020
- MFF & EU budget for R&I
- Horizon Europe: KETs, Partnerships, Missions, EIC Pathfinder, EIT, etc.
- Technology Infrastructures FP Simplification
- RD&I ecosystems and Innovation Hubs
- Digital Europe Programme

WG Legal Experts

Chair & Core Team: CEA & EURAC, TNO

3 PAPERS PUBLISHED IN 2019

- EARTO Recommendations for European RDI Policy Post-2020 – legal aspects
- EARTO Answer to the EC Consultation on Horizon Europe Implementation Aspects – legal aspects
- EARTO Note on Horizon Europe's recitals

Cooperation with EC DGs & other Stakeholders

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

KEY ISSUES FOR 2020
- Horizon Europe implementation: Rules for Participation and Model Grant Agreement - legal aspects
- 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 preparing revision
- Pre-Commercial Procurement

WG Financial Experts

Chair & Core Team: TNO & AIT, CEA, DTI, Fraunhofer, VTT

1 EARTO INNOVATION SCHOOL ON "TOWARDS HORIZON EUROPE IMPLEMENTATION: LUMP-SUMS, UNIT COSTS, SYSTEM AUDITS AND OTHER KEY FINANCIAL ASPECTS"

4 PAPERS PUBLISHED IN 2019

- EARTO Answer to the EC Consultation on Horizon Europe Implementation – financial aspects
- EARTO Paper on Horizon Europe Implementation Financial Aspects
- EARTO Feedback on Lump-Sums Pilot Experiences
- EARTO Feedback on H2020 Implementation

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 2020
- Horizon Europe implementation: Rules for Participation and Model Grant Agreement - financial aspects'
- Usual cost accounting practices, unit costs, allocation keys, internally invoiced goods and services
- Audits, cross-reliance, system and process audits
- Simplified cost option: feedback on H2020 Lump Sum pilots

WG Structural Funds

Chair & Core Team: Tecnalia & EURAC, Fraunhofer, VTT

1 EARTO INNOVATION SCHOOL ON "TOWARDS THE NEXT COHESION POLICY PROGRAMMING PERIOD"

2 PAPERS PUBLISHED IN 2019
- EARTO Joint Contribution to the EC Consultation Reviewing the GBER
- Joint Statement on Interregional Innovation Investments for European Value Chains

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 2020
- Post-2020 Cohesion Policy
- Synergies with Horizon Europe incl. Interreg Component 5 & transfer of Cohesion resources to other EU Programmes
- ESIF Simplification incl. state aid issues

WG Impact

Chair: EARTO Secretariat

1 PAPER PUBLISHED IN 2019
- EARTO Recommendations for European RDI Policy Post-2020

Cooperation with EC DGs & other Stakeholders

OECD, DG R&I, DG JRC, EUROSTAT

KEY ISSUES FOR 2020
- Organising EARTO data collection
- Demonstrating the impact of RTOs
- Work towards official OECD and EUROSTAT data on RTOs (flagging in national statistics)
- Collaboration with OECD on common topics: co-creation, knowledge transfer and RD&I Intermediary organisations, RD&I infrastructures
- Horizon Europe Impact Pathways

TECHNOLOGY ORIENTED WORKING GROUPS

WG Security & Defence Research

Chair & Core Team: CEA until October, then TNO & AIT, INOV, VTT

1 EVENT SUPPORTED: SMIIG

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 2020
- Input to Horizon Europe (security & defence related topics)
- First Work Programmes of Horizon Europe
- Recommendations for the European Defence Fund
- RTOs in Secure Societies

WG MedTech

Chair & Core Team: CEA, AIT, LEITAT

2 PAPERS PUBLISHED IN 2019
- Accelerating the Digitization and Market Access of Emerging Technologies for Healthcare – The Pivotal Role of RTOs
- Recommendations to the Health PPP SRA

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 2020
- Health PPP
- Input to Horizon Europe (health related topics)
- Linking with Medtech SMEs
- Influencing health Work Programme
- Role of Medtech RTOs in Horizon Europe

WG Space Research

Chair & Core Team: CSEM & Fraunhofer, TNO

1 PAPER PUBLISHED IN 2019
- Inputs for Governance of the Space Partnership (not public)

Cooperation with EC DGs & other Stakeholders

DG DEFIS, DG GROW, DG R&I, ESA, ESTEC

KEY ISSUES FOR 2020
- Input to Horizon Europe (space related topic)
- Mapping of technologies of the EARTO WG Space
- JTI Space – STEPP
- ESA GCC model subcontract
- EU Space programme and Space Partnership

EARTO
MEMBERSHIP & SERVICES TO ITS MEMBERS

EARTO WELCOMED 11 NEW MEMBERS IN 2019:

INTI (AR), IPT (BR), REDIT (ES), NST (KR), FTMC (LT), NORCE (NO), Łukasiewicz Research Network (PL), INESC TEC (PT), INOV (PT), NIC (SI) and NSTDA (TH).

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 Area, 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. an Association cannot send its members to participate to EARTO Working Groups).

- **Corresponding Members - RIN Members:** research and technology organisations which are established in countries which do not meet the geographic criteria of individual membership. EARTO services accessible to RIN Members: 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 fulfillment 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** with some 250 participants, co-hosted by one EARTO member in its own country, rotating every year. In 2019, Finnish EARTO member VTT kindly hosted the event in Espoo.
- One **Policy Event** in Brussels discussing EU R&I Policy with some 250 participants, followed by the **Innovation Awards Ceremony** in the evening, where EARTO members compete for the prize for best innovation of the year (two categories: Impact Delivered & Impact Expected).
- **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 Schools focused on "the Next Cohesion Policy Programming Period" and on "Horizon Europe Implementation: Lump-sums, Unit Costs, System Audits and Other Key Financial Aspects".

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 (5,600 followers) & EARTO LinkedIn Group on "EU Framework Programmes-News and Views" (12,200 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.

EARTO Secretariat

Muriel Attané, Secretary-General — attane@earto.eu
Kadija Taffah, Deputy Secretary-General - Membership, Finance & HR — taffah@earto.eu
Erwan Kermadec, Senior Advisor - Technology & Policy Affairs — kermadec@earto.eu
Sophie Viscido, Senior Advisor - Policy Strategy & Analysis — viscido@earto.eu
Eleni Dritsakou, Junior Policy Officer — dritsakou@earto.eu

EARTO
VISION

A European research and innovation system without borders in which RTOs occupy nodal positions and possess the necessary resources and independence to make a major contribution to a competitive European economy and high quality of life through beneficial cooperation with all stakeholders.

EARTO
MISSION

To promote and defend the interests of RTOs in Europe by reinforcing their profile and position as key players in the minds of EU decision-makers and by seeking to ensure that European RD&I programmes are best attuned to their interests; to provide added-value services to members to help them to improve their operational practices and business performance; to provide members with information and advice to help them make the best use of European RD&I programmes funding opportunities.

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European Association
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Rue Joseph II, 36-38
B-1000 Brussels
Enterprise N° 0465.567.732 (RPM Brussels)
Tel: +32 2 502 86 98
Email: **earto@earto.eu**
Website: **www.earto.eu**
LinkedIn: EU Framework Programmes – News and Views
Twitter: @EARTOBrussels