

EARTO Policy Breakfast
Hosted by MEP Christian Ehler

**THE FUTURE OF
EU RESEARCH & INNOVATION POLICY**

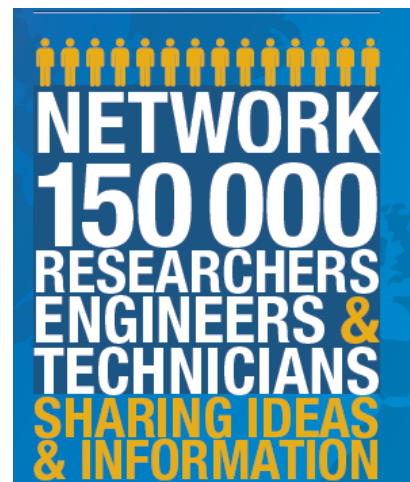


Maria Khorsand
EARTO President

EARTO: European Association of Research and Technology Organisations



Vision: Technology for a Better World

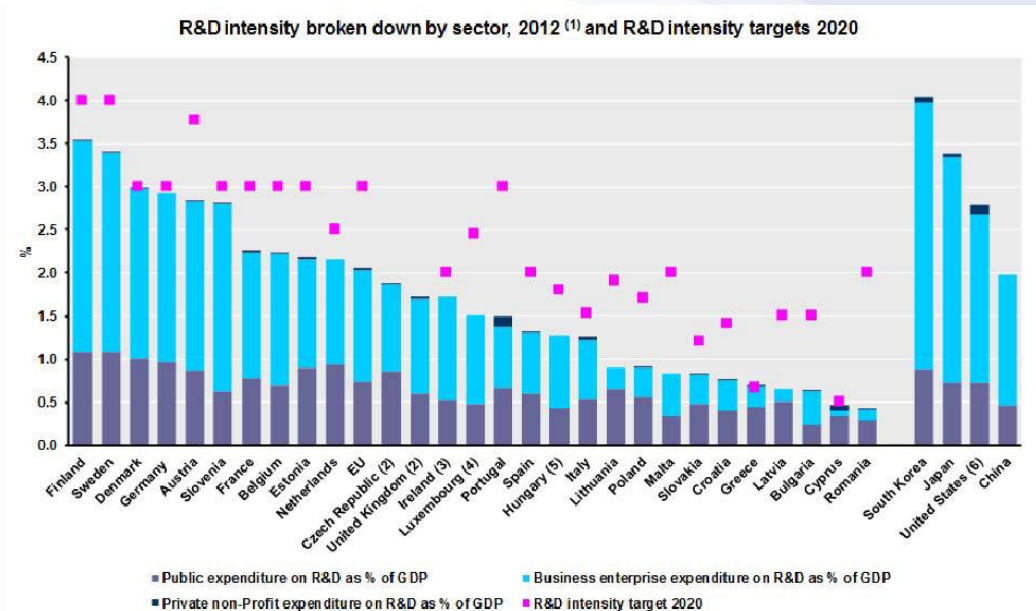


**Moto: Impact
Delivered!**



Europe Innovation performance lagging behind USA & Asia

- Europe represents:
 - 7% of world's population
 - 25% of global GDP
- Economic crisis
- Decrease of R&I budgets
- Increasing public deficits
- Increasing unemployment

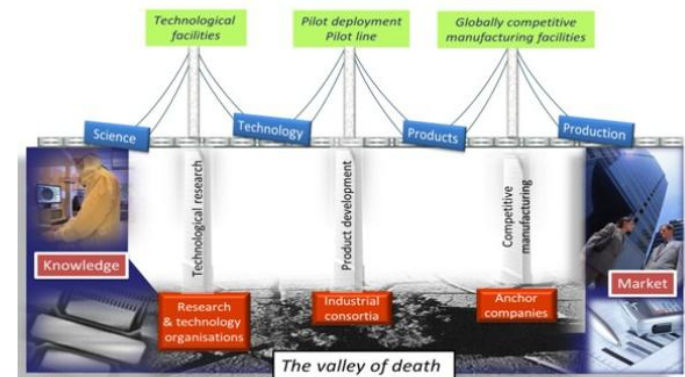


National & Private Investments in Research & Innovation need to be Protected & Encouraged!

RTOs Crossing the Valley of Death

- EU suffers from a slow process for **transferring excellent R&D results into innovative solutions for the markets**
- Improving bridging the valley of death will require **joint effort from RTOs & industry**
- RTOs have key role in **developing new infrastructures allowing piloting new technologies**
- Bridging the valley of death also **means solving societal challenges**: RTOs core activities are based on trans-disciplinary and user-centric approaches

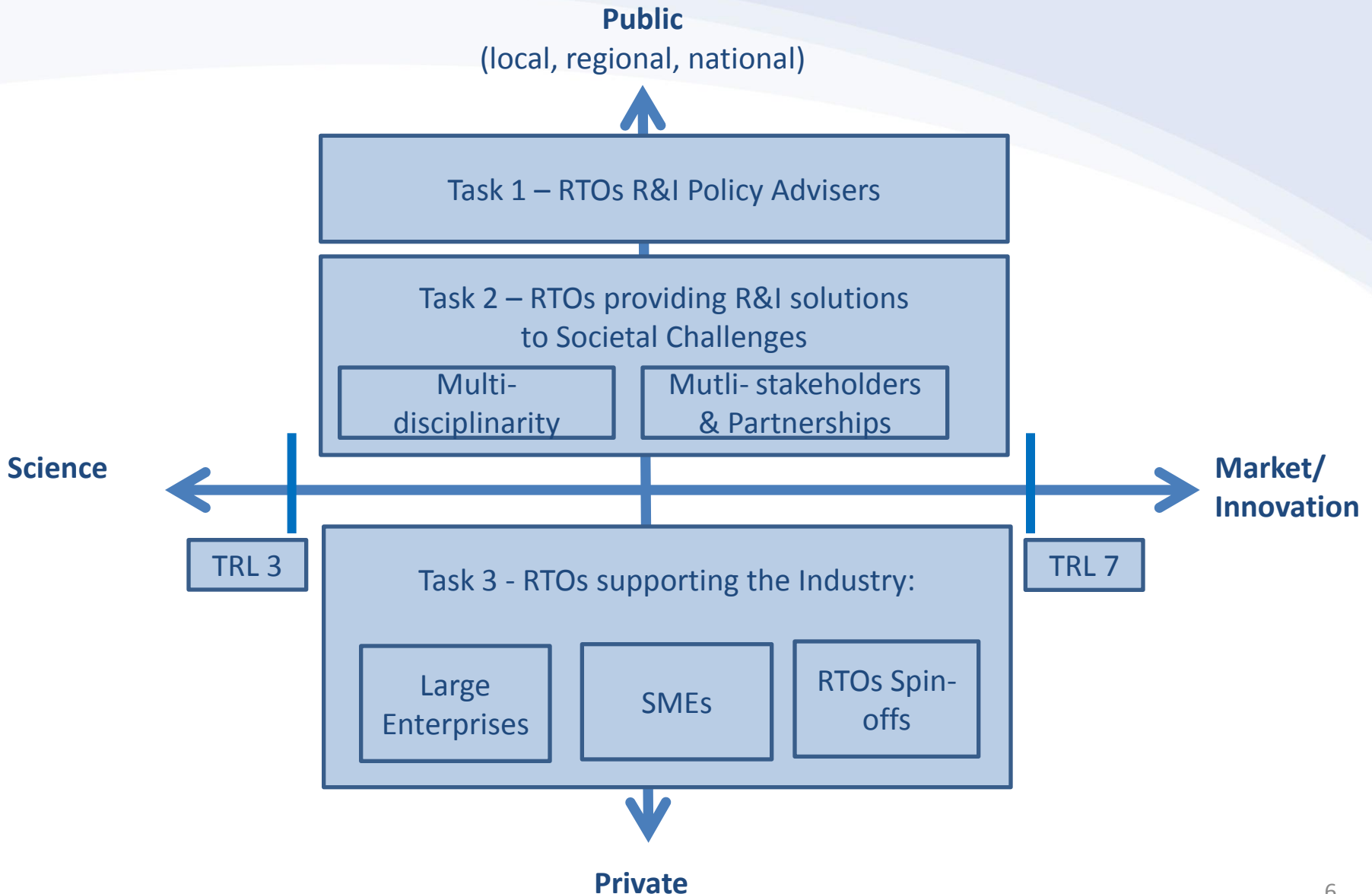
AN INTEGRATED APPROACH TO KETS FOR FUTURE COMPETITIVENESS: THREE PILLAR BRIDGE MODEL TO PASS ACROSS THE "VALLEY OF DEATH"



H2020 Societal challenges:

- Health, demographic change and wellbeing;
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;
- Secure, clean and efficient energy;
- Smart, green and integrated transport;
- Climate action, environment, resource efficiency and raw materials;
- Europe in a changing world - inclusive, innovative and reflective societies;
- Secure societies - protecting freedom and security of Europe and its citizens.

Understanding RTOs Activities



EU Innovation Performance & RTOs Impact

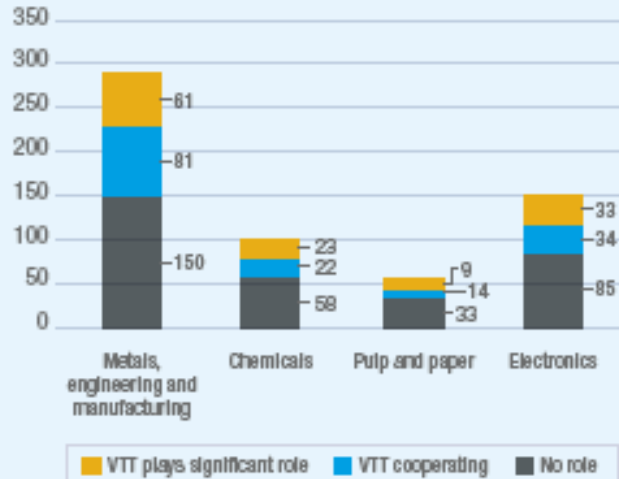
Example of VTT



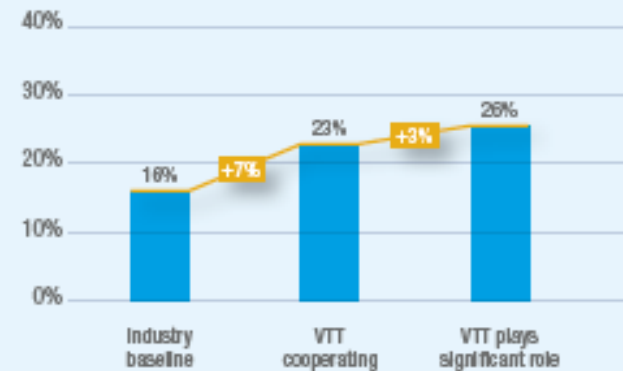
EXAMPLE FINLAND

Innovations in exporting industries

Innovations within the industry



Turnover development after the innovation



VTT's role and significance in the innovations of export industries. Increase in companies' turnover after innovation.

www.vtt.fi

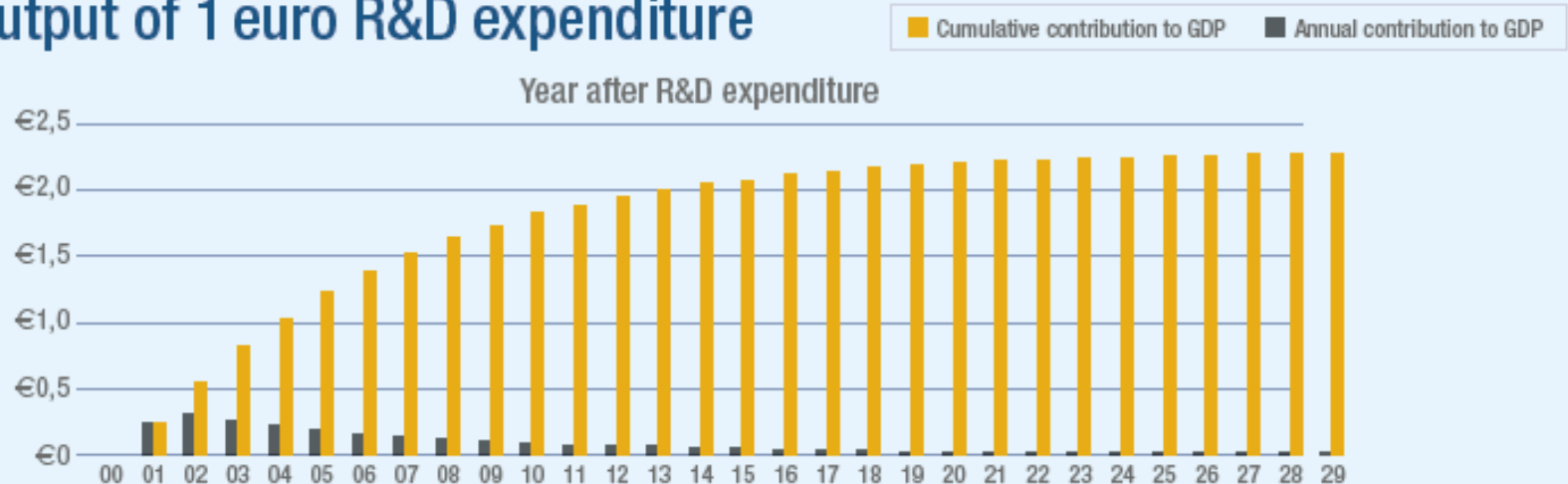
EU Innovation Performance & RTOs Impact

Example of TNO



EXAMPLE THE NETHERLANDS

Output of 1 euro R&D expenditure



A recent Dutch study has shown that for every 1 euro invested in Research & Development a cumulative (average) effect of 2.3 euro extra GDP will be incurred over the years.

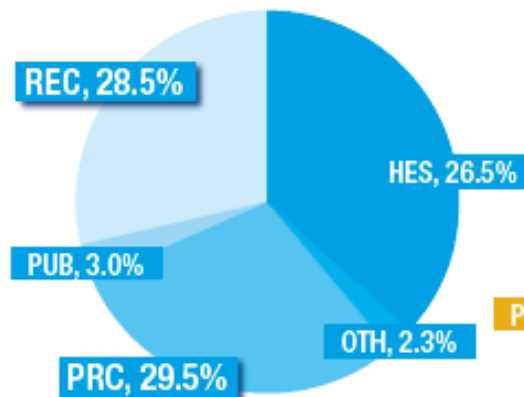
www.tno.nl

EU Innovation Performance & RTOs Impact Lesson from FP7 for H2020

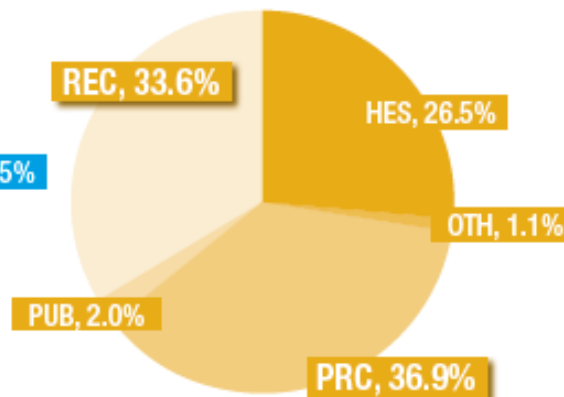
RTOs Supporting Industry Participation in EU Projects

All FP7 Cooperation Projects **vs** Projects with Large RTOs

FP7 Cooperation in total



FP7 Cooperation large RTOs



HES: Higher or Secondary Education PRC: Private for Profit (excluding Education)
PUB: Public Body (excluding Research and Education) REC: Research Organisations

EU Innovation Performance & RTOs Impact

Example of SP

Strongest Technology
Transfer Pathways

=

Direct Industry-RTOs
Cooperation via
Contracted Research,
Shared Facilities, etc.



ASTAZERO
ACTIVE SAFETY TEST AREA

EXAMPLE SWEDEN

A recent example is the world class AstaZero research and testing facility built in the south of Sweden to support research and testing into active vehicle safety.

This facility has been more than 7 years in the planning and represents the first full scale test site for future active road safety. The land for the facility was purchased from the local municipality. Necessary infrastructure in the form of access roads etc. was installed using regional funds. Guaranteed funding for between 5-12 years has been secured from both national research agencies and industry as security for bank funding of the remaining investment cost. The facility is owned by EARTO member SP with an academic partner to foster shared use and a broad range of research activities from blue sky to close to market.

www.astazero.com

EARTO 2 Recommendations for EU Innovation Ecosystems

Europe needs to invest in strong value-chains and innovation ecosystems

Europe needs to focus more on delivering impact from EU and national R&I investments

tecnalia  Inspiring Business



EXAMPLE SPAIN

FIK is a private interdisciplinary scientific & technological development initiative in the field of ageing and disability. Its goal is to obtain patentable results that allow the profitability of the enterprise to be optimised and which lead to products and/or services that maximise the personal freedom, independence, health and quality of life of the elderly and disabled whilst simultaneously generating an economic framework.

FIK is made up by 26 investment partners and has a budget of approximately 50 millions euros over a 10-year period (2007-2017) in the context of ageing and disability. FIK partners include: Financial bodies, Industrial groups, Social and health institutions, Mass media, Family investment funds, Public institutions and EARTO member TECNALIA as Knowledge Partner.

FIK approaches a grand challenge in developed societies while also representing a major economic opportunity.

<http://www.tecnalia.com/en/health/fik-a-private-enterprise-model/fik-a-private-enterprise-model.htm>

EARTO- EIRMA Conference 2015

Luxembourg

28-29 April 2015

**Industry & RTOs
Sharing Research
Facilities & Resources**

