Introducing the Competence Centre on Technology Transfer

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Competence Centre for Technology Transfer

• To create a single reference point for expertise on technology transfer at the EC

• Support the entire EU policy cycle, from the upstream concept stage to the downstream implementation phase.

• To deepen understanding and knowledge of technology transfer through research and aggregation of results and best practices
Competence Centre for Technology Transfer

ACTIVITY AREAS

TECHNOLOGY TRANSFER CAPACITY BUILDING
FINANCIAL INSTRUMENTS CONCEPTION AND DESIGN
SUPPORT TO INNOVATION ECOSYSTEMS AND CLUSTERS

OPERATIONAL AND POLICY SUPPORT

JRC DIRECTORATES
OTHER DGs (RTD, GROW, Etc.)
EU PROGRAMMES (H2020, COSME, Etc.)

COMMUNITY OF PRACTICE

TTO CIRCLE
EXPERTS
The smart specialisation

THE SMART SPECIALISATION PLATFORM

Why it was created

- Research & Innovation
- Digital Growth
- Shift to Low Carbon Economy
- Competitiveness of SME

What is happening

- 3 regions
- 178 regions
- 18 countries
- >70 peer reviewed regional/national innovation strategies

Technology Transfer is an implementation tool of Smart Specialisations
30+ Public Research Organizations
200,000 staff
35,000 patents
4,200 Startups
5,200 software
Supporting EC DGs/MS with Expertise and Competences

- RTD – Conception and ex-ante evaluation of InnovFin TT
- DG NEAR – Coordination of TT related capacity building measure in the Western Balkans
- DG NEAR – Regional proof of concept support scheme for the Western Balkans
- DG REGIO – Assessment and recommendations on improving operational performance of Sofia Tech Park
- DG REGIO – Strategic Evaluation of Bulgarian Centres of Competence and Centres of Excellence
- DGs RTD/NEAR – Benchmarking study of TT ecosystems in 12 neighbourhood countries
- DG COMP – Study on the application of the state-aid regulation to RDI organisations
- Slovakia/DG REGIO – evaluation study on STP project in Kosice
Studies

• IP collateralisation and securitisation (2016)
• PPPs in Science and Technology Parks and Innovation Districts (Q1 2020)
• Corporate Venturing (Q1 2020)
• Technology Transfer Metrics (Q1 2020)
• Innovative investment models for sustainable and inclusive urban innovation ecosystems (Q4 2020)
• Technology Transfer Metrics II (Q4 2020)
• TT Knowledge Management (2021)
• China Flagship Report II (Chapter on IP and TT)
Covid-19 related support

- Together with DGs GROW, RTD and SANTE and SECGEN possibilities for creation of a patent pool for Covi-19 related technologies. In collaboration with UN Medicines Patent Pool
- Supporting DG GROW and Commission’s Clearing House in relation to PCR test kits and reagents
EC-JRC & ASTP collaboration

European Expert Group on KT Metrics Harmonisation
Objective

• JRC Expert Group was set-up in partnership with ASTP to:
  • Identify a core set of harmonised metrics
  • Specify conditions and actions towards a European-wide collection of such indicators

Christophe Haunold
Petra Karanikic
Andrea Piccaluga
Cecile Cavalade (ASTP liaison)
Alison Campbell (Chair)
KT Indicators: the four quadrants

**INTERNAL CONTEXT**
- KTOs/TTOs — Size & Maturity
- Direct Funding for KT
- Indirect funding for KT
- PRO KT Strategy
- PRO policies for KT & IP
- Research Expenditure
- Number of Researchers

**ENVIRONMENT**
- R&D spend as % of GDP
- HERD
- BERD
- Public funding for KT
- Investment capital
- Ecosystem supports & facilities

**ACTIVITY**
- Disclosures
- Licences & assignments
- Spin-offs
- Research contracts
- Research collaborations
- Consultancy

**IMPACT**
- Jobs created & retained
- Aggregate investment in spin-offs
- Products on market
- Internal culture change (PRO)
- Societal benefits
- Economic benefits

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ULB TTO – LIEU / 2020.07.03 / C.Cavalade – C.Haunold
10 recommendations

Recommendations 1-5

1. Indicators should span the range of KTT channels
2. Indicators should reflect both inputs and outputs
3. Numbers alone are not sufficient to understand the outcomes from KTT
   • + evidence based case studies.
4. Harmonised indicators not a league table of good or bad performance
   • Use for tracking development and trajectory of KT
5. A common set of definitions be adopted, as proposed in 2009 EU Report
Recommendations 6-10

• 6. New Expert Group on implementation of indicators
   Needs PRO senior leadership involvement

• 7. EC should explore a centralised approach for EU-wide KT data collection
   and reporting. Support, incentivise & manage through “KT credible” organization

• 8. EC should support creation and management of a central database
   Reports & data – detail & anonymization

• 9. Governments & Ministries should encourage and incentivise their
   PROs/universities to engage, collect data and report on KT

• 10. EC should develop a common set of indicators across its KT and research funding
      programmes
Global findings and next steps
Common themes

- Output indicators cannot be assessed in isolation. Context matters
- Simple “benchmarking” of outputs is dangerous
- Indicators are a (welcome) tool and not an end in themselves
- Indicators must be meaningful to each country
- The search for a single indicator is neither helpful nor meaningful
Using indicators in practice
Next steps – JRC Expert Group follow-up study

- Dissemination
- Adoption
- Blueprint for data collection, analysis and reporting
- Develop Composite indicators /scoreboard
- Timeline June - Dec 2020