

Policies to promote university-industry cooperation

Financial and regulatory tools

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University-Industry Collaboration

NEW EVIDENCE AND POLICY OPTIONS



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SCIENCE-INDUSTRY KNOWLEDGE EXCHANGE

A MAPPING OF POLICY INSTRUMENTS
AND THEIR INTERACTIONS

OECD SCIENCE, TECHNOLOGY
AND INDUSTRY
POLICY PAPERS

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Mapping policy instruments to promote U-I cooperation

Financial instruments

- Grants to collaborative R&D projects
- Tax incentives to R&D
- Financial support to academic spin-offs
- Grants for IP applications
- Financial support to recruit PhDs or post-docs (e.g. industrial doctorate)
- Financial support to host industry researchers
- Public procurement of technology
- Innovation vouchers
- Public-private partnerships creating joint research laboratories
- Performance-based funding systems
- Funding of infrastructures and intermediaries

Regulatory instruments

- IP rights regime
- Regulation of spin-offs founded by researchers and students
- Regulations on career rewards for professors and researchers
- Sabbaticals and mobility schemes

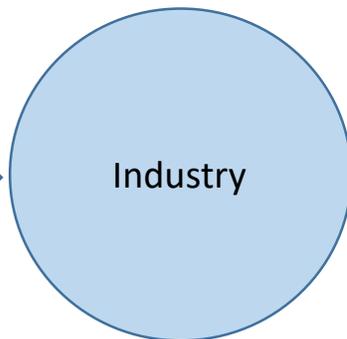
Soft instruments

- Awareness-raising
- Training programmes
- Networking
- Voluntary guidelines, standards and codes of conduct

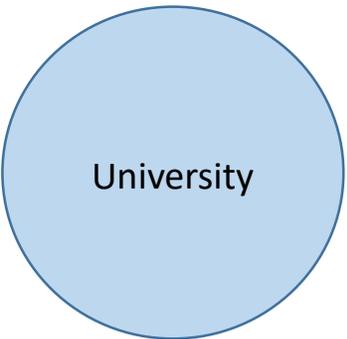
Financial tools address different modes of U-I cooperation

Knowledge transfer

Grants for academic spin-offs, proof of concept, IP

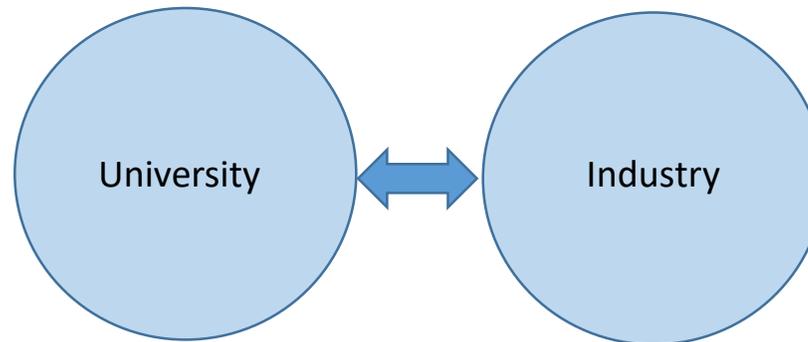


Tax incentives for R&D subcontracted to universities



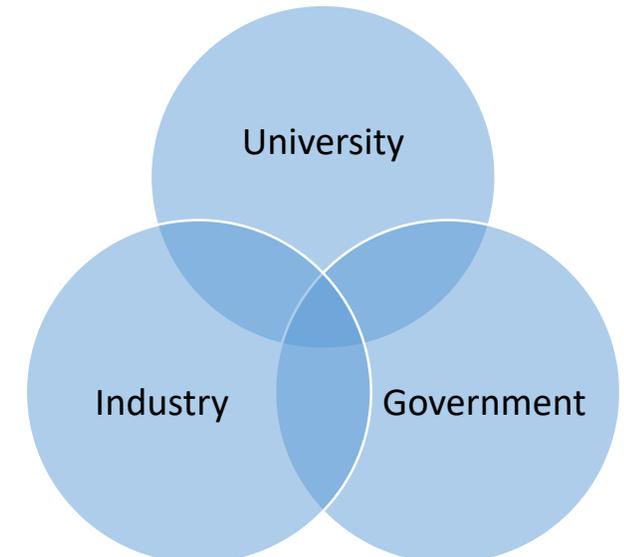
Collaboration

Competitive grants to collaborative research projects



Co-creation

Role of government extends beyond subsidies, becoming a partner or providing baseline funding over the long term



Examples of national policy programmes promoting co-creation through public-private (U-I) partnerships



IUCRC: Industry–University Cooperative Research Centers Program

Centers bring together:

IUCRC Sites
Faculty and students from
different academic institutions

+

IUCRC Members
Companies, State/Federal/Local
government and non-profits



SFI Research Centres

SFI Research Centres link scientists and engineers in partnerships across academia and industry to address crucial research questions.

Cooperation for sustainable innovation

The strategic innovation programmes



Collaborative Laboratory (CoLAB)



Public-Private Partnership
for Innovation

Policy initiative	Country	Start year	Annual grant (euros)	Funding period (years)	Number of centres
CRC	Australia	1999	4.4 million	10	23
CDG Labs	Austria	1988	700 000	7	90
Alliance Grants	Canada	2019	650 000	5	n.a.
CEI	Chile	2009	1.65 million	10	13
LabCom	France	2013	100 000	3	21
Research Campus	Germany	2012	2 million	12	9
FIEK	Hungary	2017	2.8 million	5	8
SFI Research Centres	Ireland	2014	5 million	6	17
OPERA	Japan	2016	n.a.	n.a.	n.a.
Top Consortia (TKI)	Netherlands	2014	n.a.	n.a.	15
Centres for Environment-friendly Energy Research	Norway	2009	n.a.	n.a.	11
CoLabs	Portugal	2018	n.a.	10	26
CIEN Strategic Projects	Spain	2014	1.4 million	4	77
Strategic Innovation Programmes	Sweden	2013	n.a.	12	16
IUCRC	USA	1973	127 000	15	77

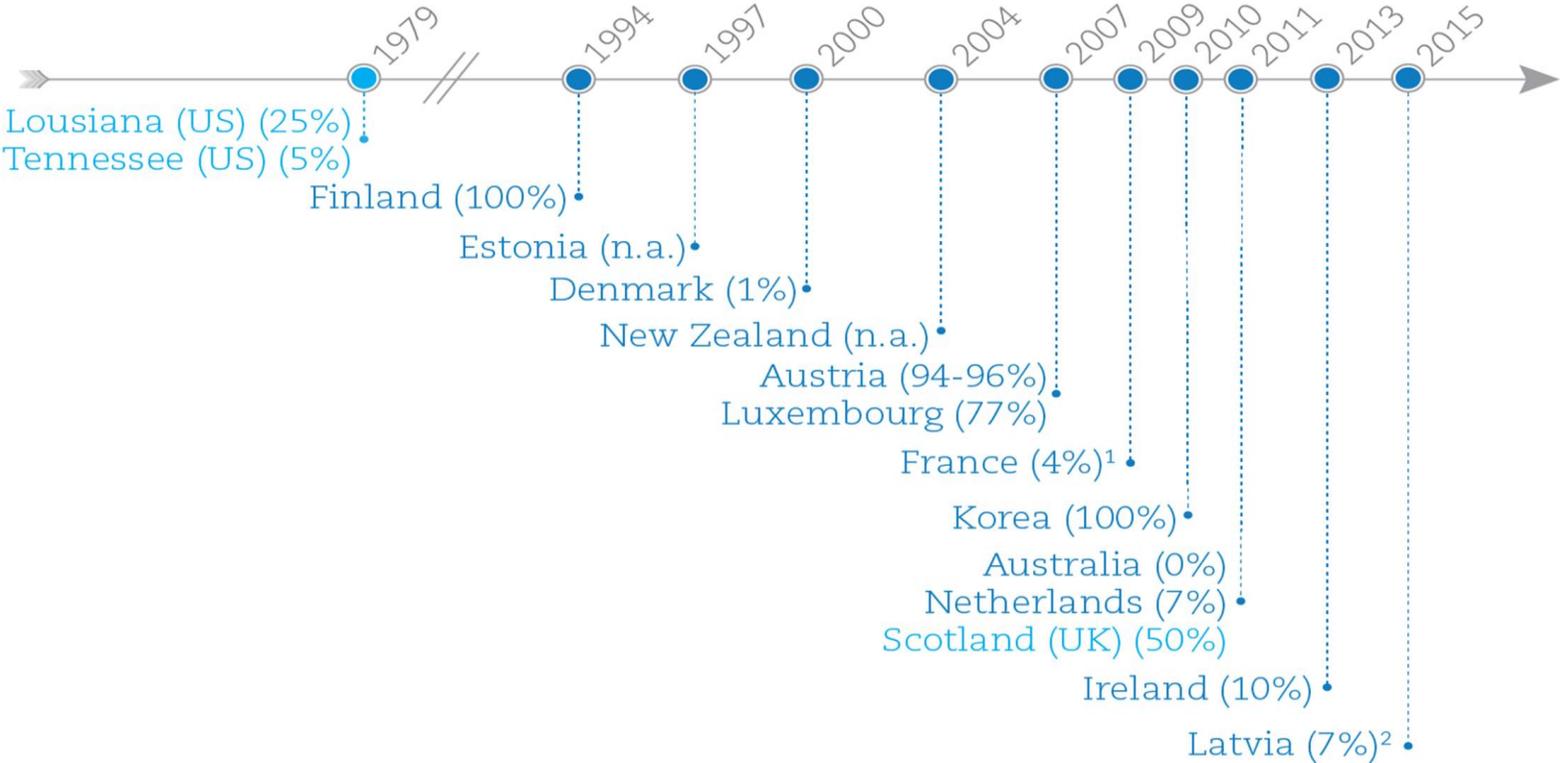
Performance-based funding systems of universities that consider industry engagement and socioeconomic impact

- Evaluating socioeconomic impact is more complex than scientific excellence, requiring qualitative methods (narratives, case studies)
- Example 1: UK Research Excellence Framework (REF), since 2004
- Example 2: CERCA research centers in Catalonia, Spain, since 2008



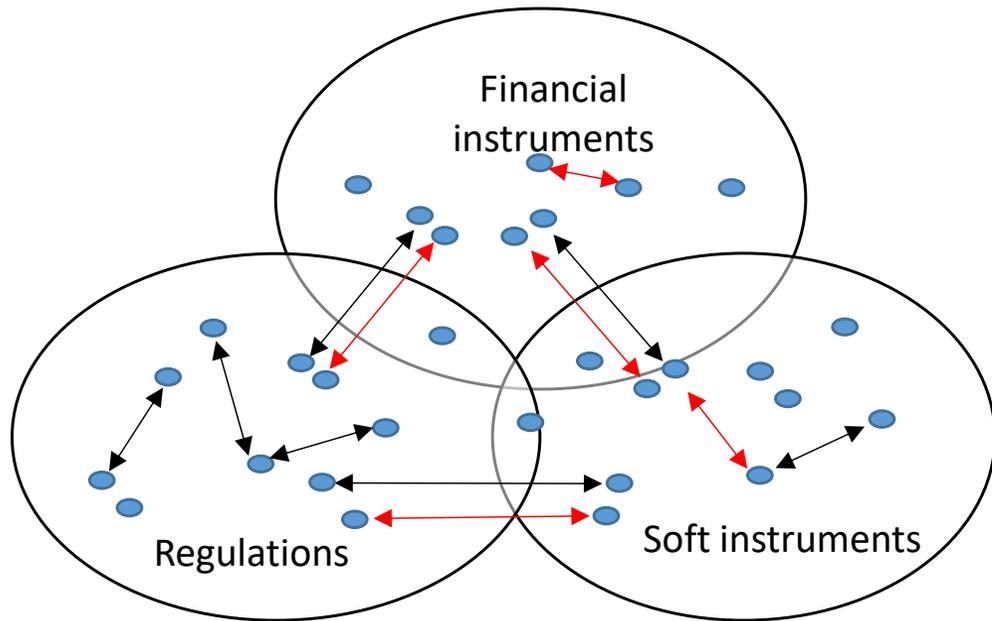
Increasing use of performance-based funding systems

Year of introduction of performance contracts and share of HEI budgets involved

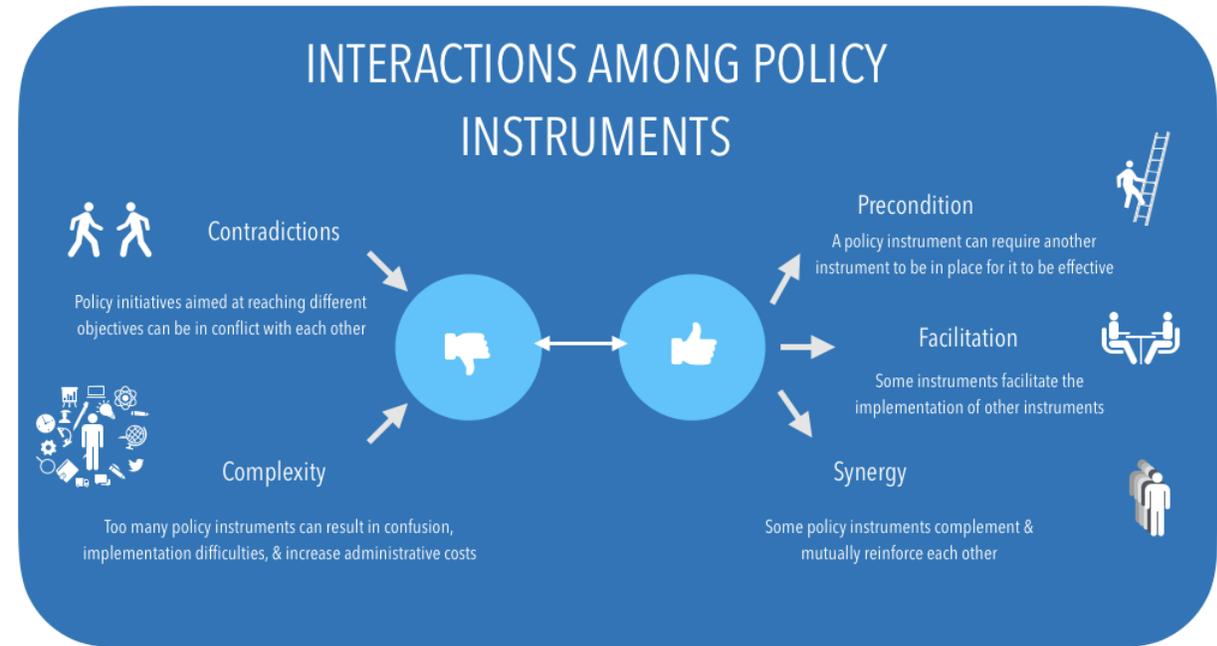


Source: OECD, 2019

Towards a coherent policy mix for U-I cooperation



● Policy instruments ←→ Positive interactions ←→ Negative interactions



Levels of governance

Institutional / Local / Regional / National / European