



Introducing the Competence Centre on Technology Transfer

Bucharest, 18th June 2019

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Patent Applications at EPO (2018)

EU-15 (West) 67,884_(1/3 from DE)

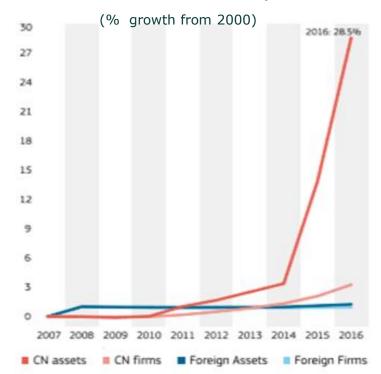
EU-13 (East) 1,246_(1/3 from PL)

US 42,300

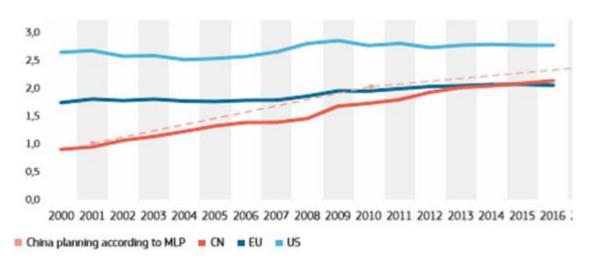
China 8,330_(x2 in 3 years)

Japan 21,712

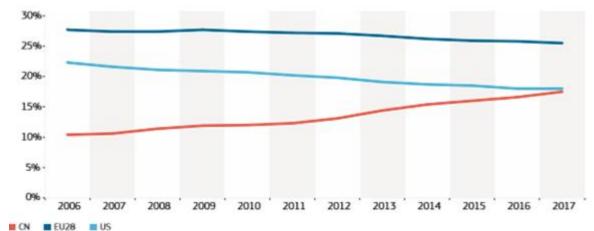
Chinese Shares in European Firms



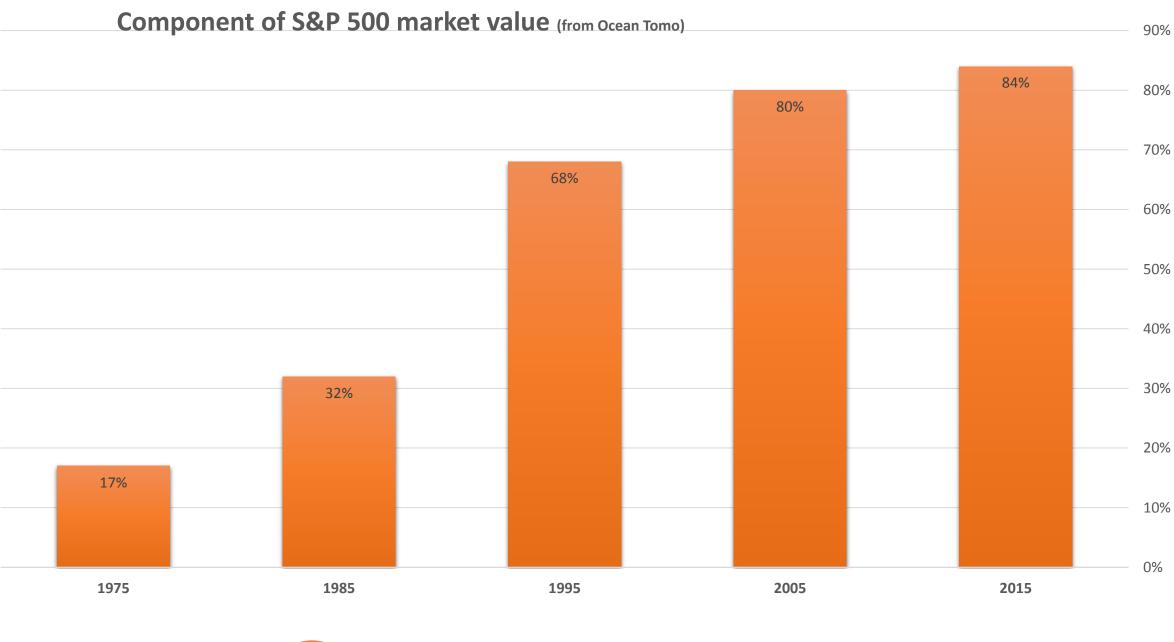
R&D Intensity



World Share of High Impact Publications



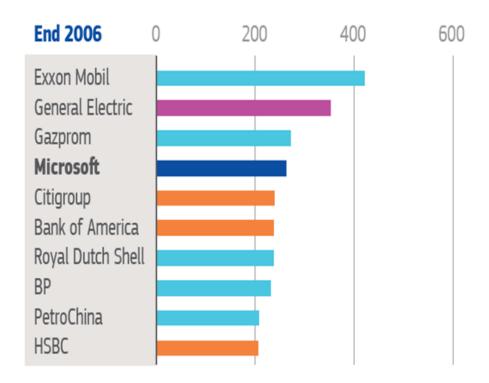


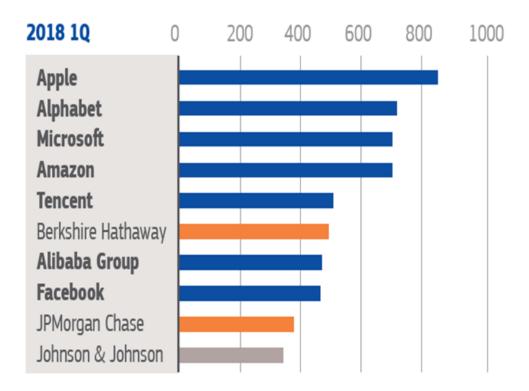




Market valuation in billion US dollars



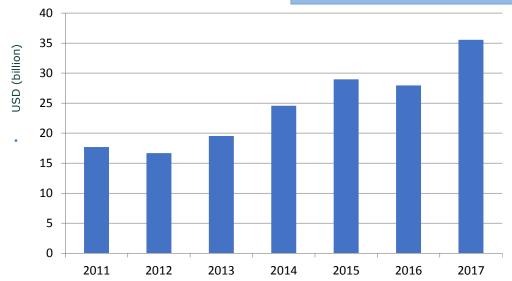




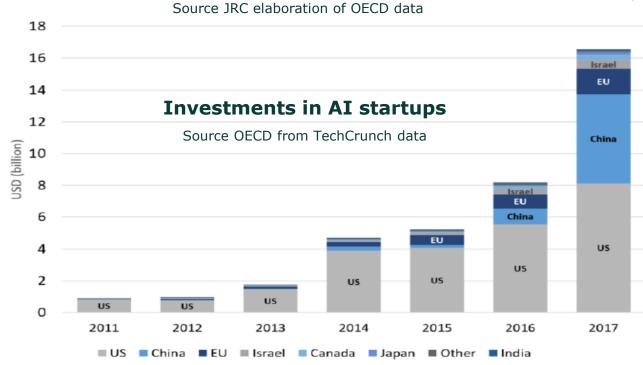
Source: Bloomberg, ycharts



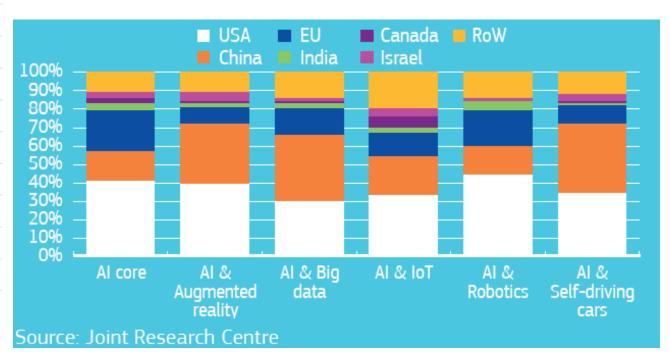
The Advent of Artificial Intelligence



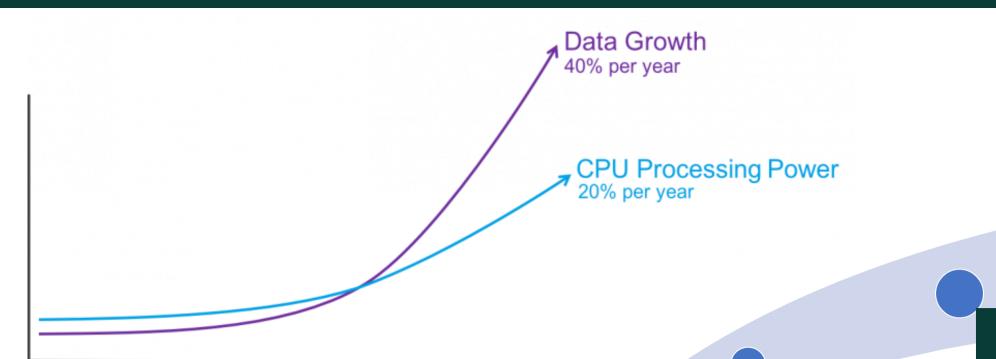
Investments in startups (and early stage) in OECD



- Exponential growth of AI startups (15b\$ in 2017 from 1b\$ in 2012),
- US leads but China is catching up very fast
- Europe is growing but at slower pace
- Investment if AI startups reached 50% of total investment in start-ups in OECD)
- Al share expected to grow
- Different shares depending on applications



Data Vs Computing Power



Technological solutions emerge

- New powerful chips
- Edge and Fog computing
- Quantum computing ...



Dedicated Al accelerators + smart sensors

General Purpose Microcontrollers + sensors Silicon-Born-Al on single Chip



Deep-Tech Start Ups



How to Exploit the Untapped Potential of RTOs' Deep-Tech Start-Ups in Europe

12 April 2017

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- Deep-tech start-ups are key to Europe's competitiveness and industrial renewal, delivering high socio-economic impact
- Contrary to US-type digital companies, EU-type deep-tech start-ups have great life expectancy and low rate of failure
- Need higher financial support early on, even though they tend to balance out at a later development stage
- They heavily rely on patent protection





NEW ENERGY

....Technology Transfer transforms knowledge into money"

MANAGER

OPPORTUNITY

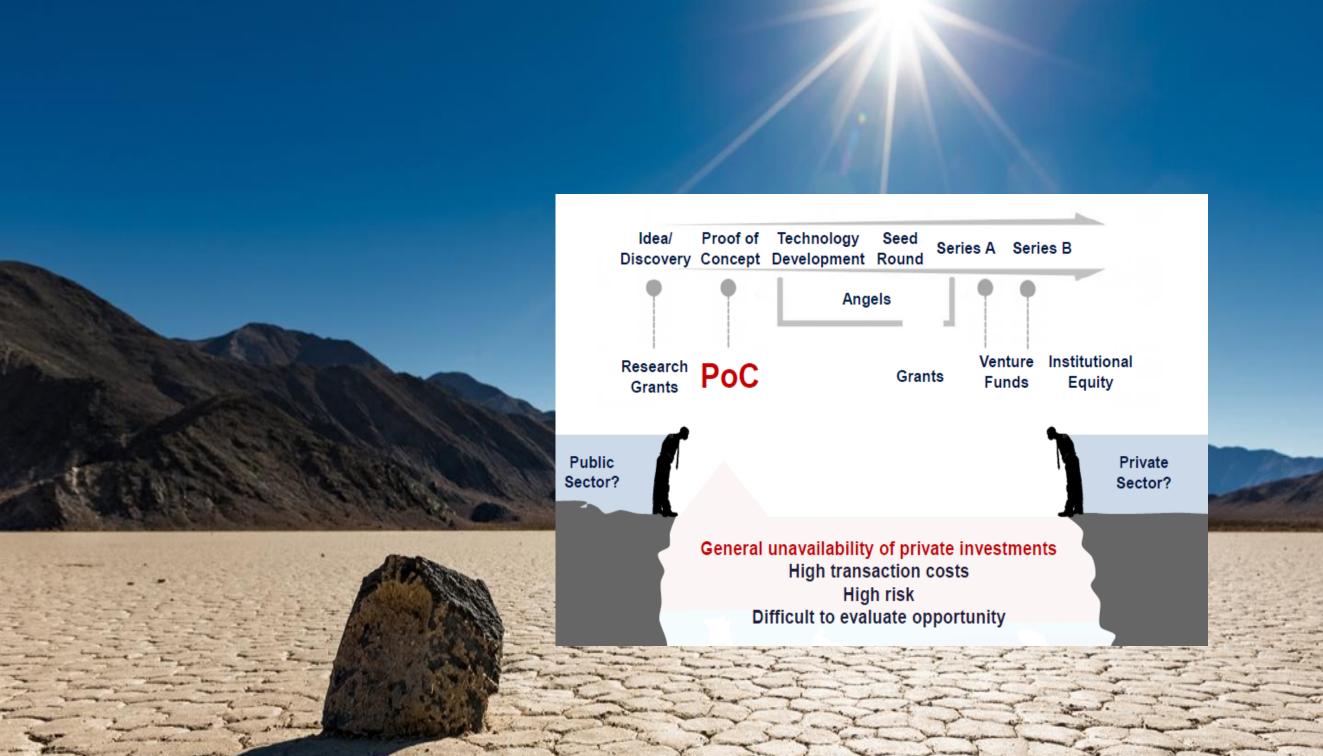
PLANNING RESEAR

INTERNATIONAL

APPLICATION

Geoffrey Nicholson, 3M, father of Post-It





The Technology Transfer Ingredients

People

Policies

Protected IP

Promotion

Finance

Proof of Concept

Prototyping

Private Equity (VC)

Places

Plan

Partnerships

Parks and Clusters



The smart specialisation

THE SMART SPECIALISATION PLATFORM



implementation tool of
Smart Specialisations

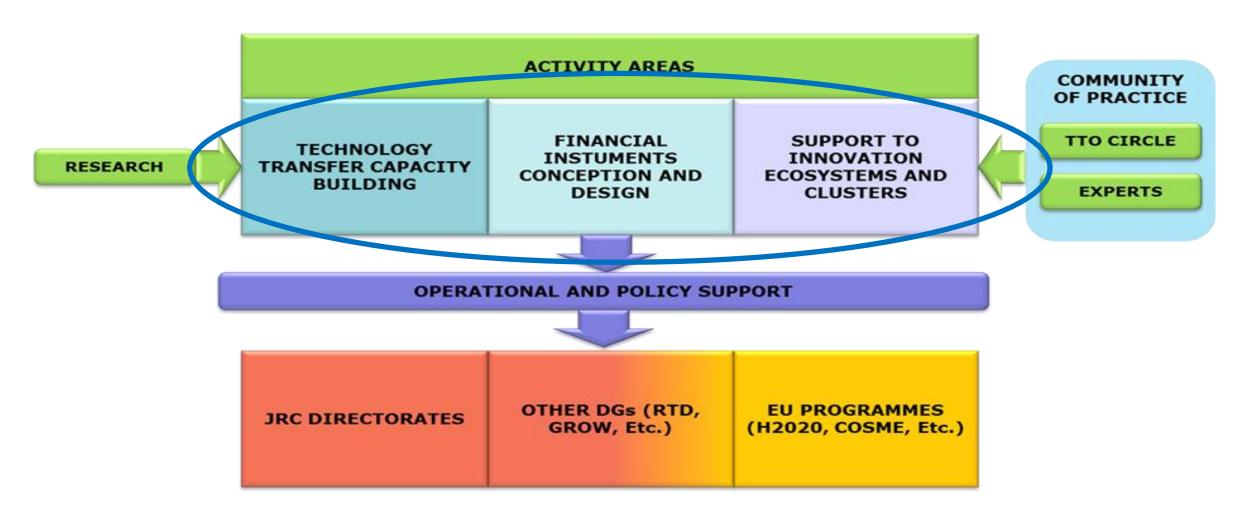


Competence Centre for Technology Transfer

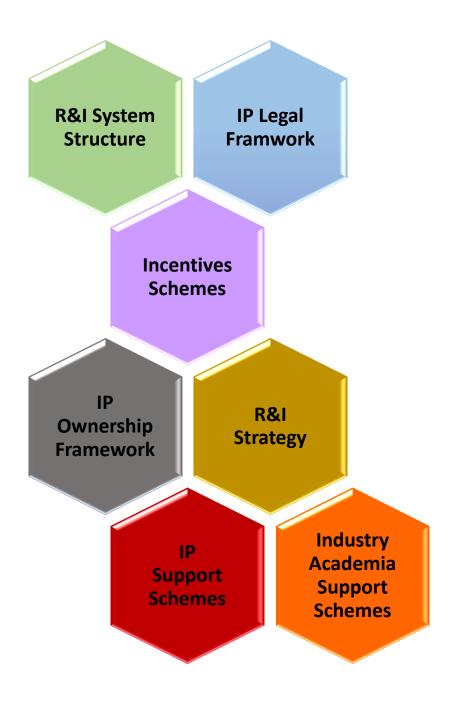
- Single reference point for expertise on technology transfer at the EC
- To support EU policy development, from upstream concept stage to the downstream implementation phase
- To deepen understanding and knowledge of technology transfer through research and aggregation of results and best practices



Competence Centre for Technology Transfer









TT Offices Procedures

Licensing Policies

ND/NCAs

IP policies

Spin-off Policies

Material
Transfer
Agreements
Policies

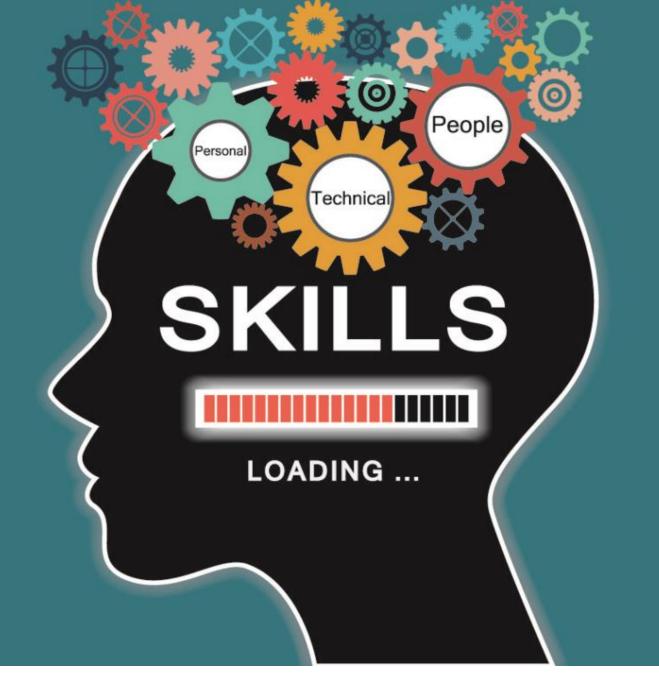
Disclosure policies



PoC Support

Contract Research policies





- Technology Scouting
- IP Identification
- IP Generation (patentability, freedom to operate, etc.)
- IP Management (valuation, evaluation)
- IP Licensing
- IP Assignment
- Dispute Resolution (arbitration and mediation)
- Spin-off Creation and Management
- Investor Relations
- Entrepreneurship







Urban Innovation Hubs on the rise in Europe

Paris - Station F (opened on 29/6/17)

Hosts up to 1000 start ups (3000 desks), 38,000 m², 310m x 58m, 20 accelerator programs, dismissed freight station, hotel (800 rooms) + restaurant (1000 seats)

Lisbon - Criativo do Beato (gradual opening)

35,000 m² in 20 buildings in former army food factory, 200m€ VC fund + tax incentives, plans for 100,000 m² extension to 3000 start ups

London – Plexal (opened on 12/6/2017)

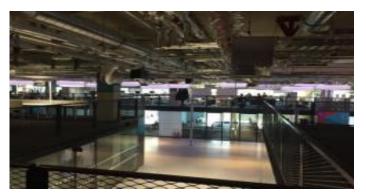
6,300 m² incubator in Queen Elisabeth Olympic Park (250ha). 800 desks, several acceleration programs.

Milan – Arexpo (masterplan in development)

New S&T park in Expo 2015 area of 100ha, focus on health, big data, agrifood and biotech. Includes university, hospital and large research centre.







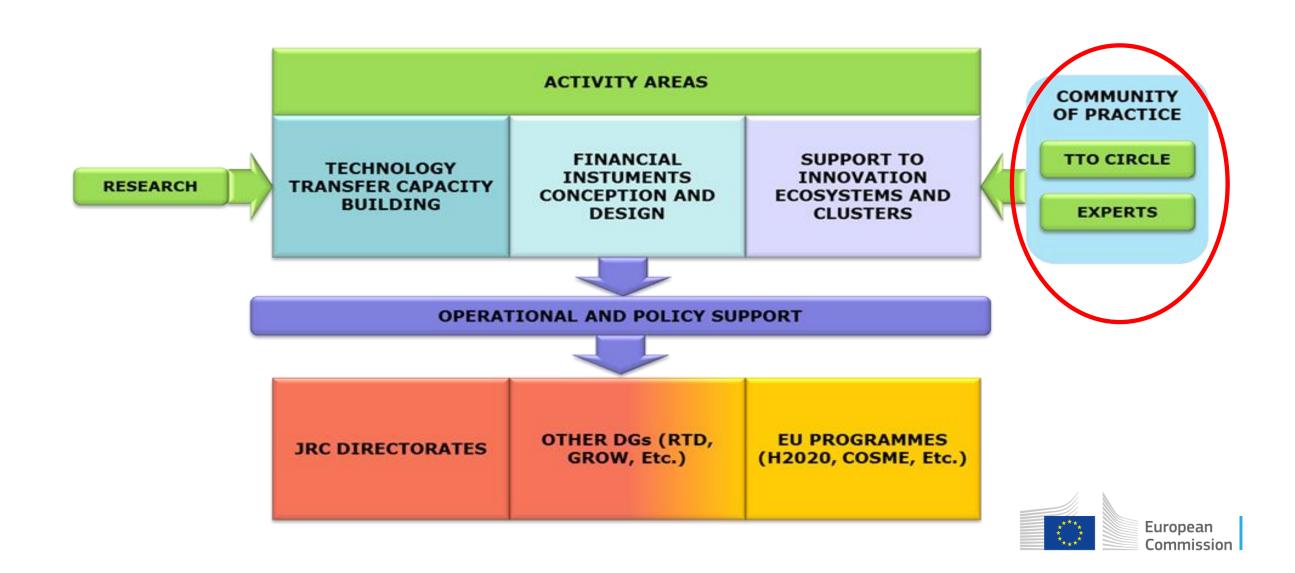


JRC Studies

- IP collateralisation and securitisation (2016)
- PPPs in Science and Technology Parks (2019)
- Corporate Venturing (2019)
- State Aid for innovation projects together with DG COMP (2019)
- TT analysis in Neighbourhood countries:
 - East Ukraine, Moldova, Belorussia, Azerbaijan, Georgia, Armenia
 - South Morocco, Tunisia, Algeria, Lebanon, Egypt, Jordan

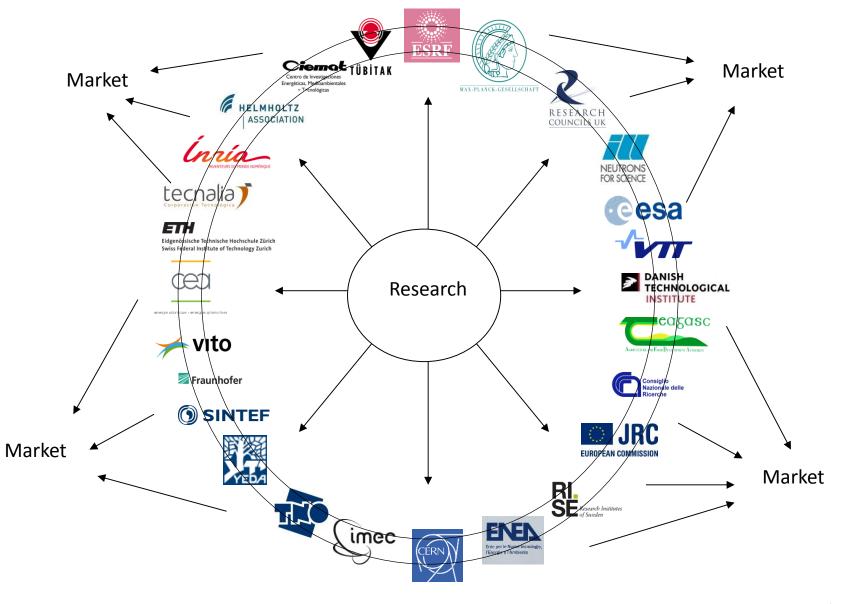


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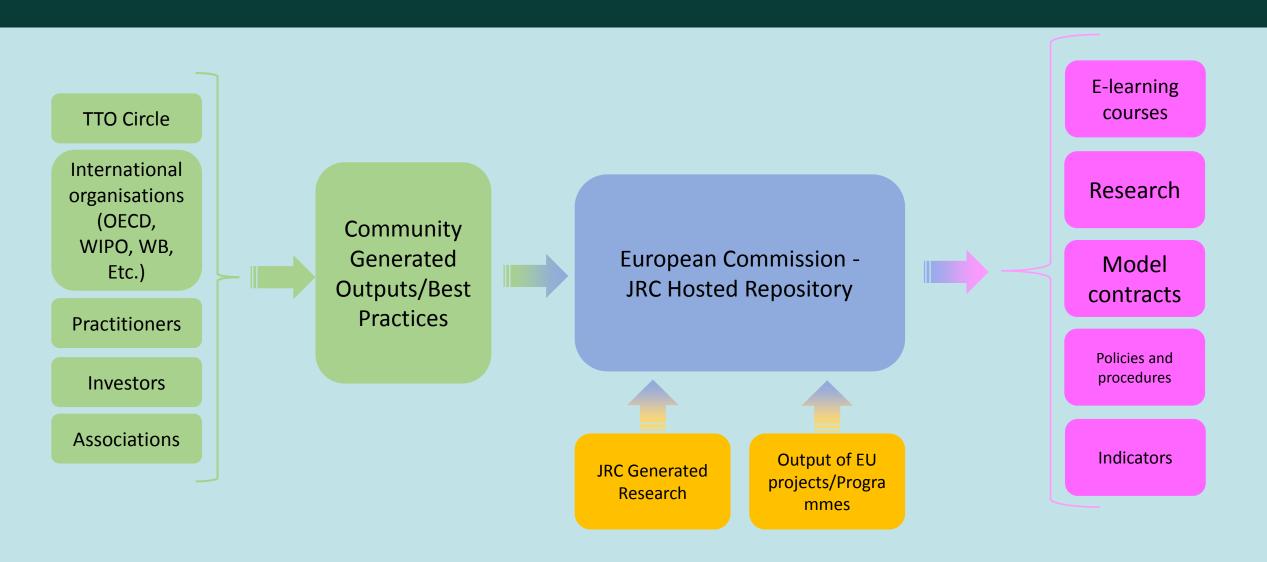
30+ Public ResearchOrganizations200.000 staff35.000 patents4.200 Startups

5.200 software





TT Community of Practice



https://ec.europa.eu/knowledge4policy/technology-transfer_en