



Stairway to Excellence: Teaming up with Polish Regions

Institute of Fundamental Technological Research
Polish Academy of Sciences, Warschau
2016-04-27

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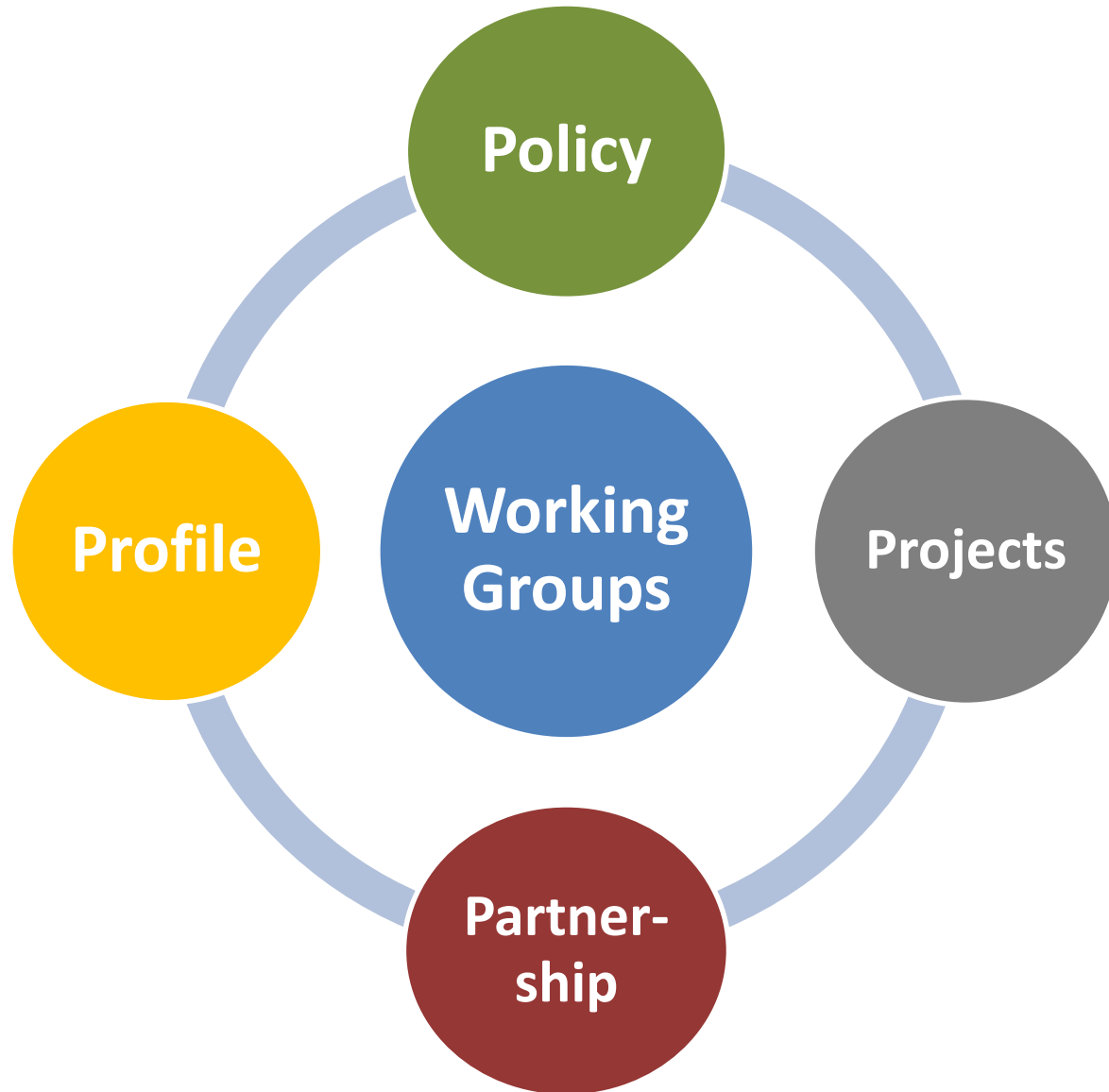
ERRIN



- Brussels-based Platform
- 120 member regions
- Focus on research and innovation
- Brokerage events
- RIS3
- Widening Participation

ERRIN Members:
Pomorskie
Kujawsko Pomorskie
Lodzkie Region
Malopolska

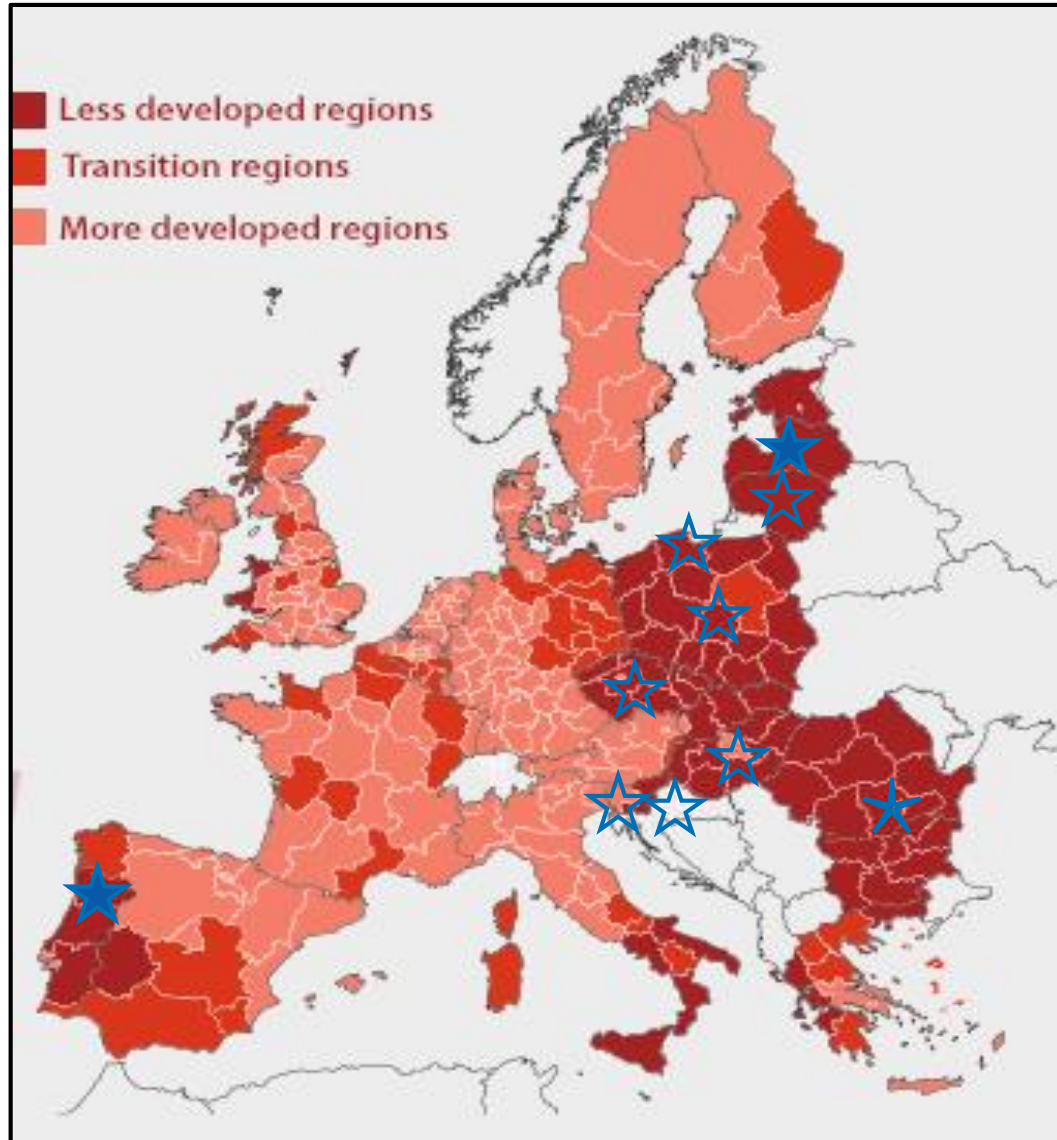
ERRIN Membership



ERRIN Working Groups 2016

Energy & Climate Change	Bio-economy/ Food & Agri	Health
Water / Process Industry	Transport	Smart Cities
Tourism	Advanced manufacturing/ Nano	Blue Growth
Design & Creativity	ICT	Policy / RIS3

Stairway to Excellence: building high trust network



Shortlist of 10 regions:

- Latvia (lv)
- North-Portugal (pt)
- Slovenia (sl)
- Lithuania (lt)
- **Pomorskie (pl)**
- **Łódź (pl)**
- Budapest (hu)
- South Moravia (cz)
- Bucharest (ro)
- Croatia (hr)

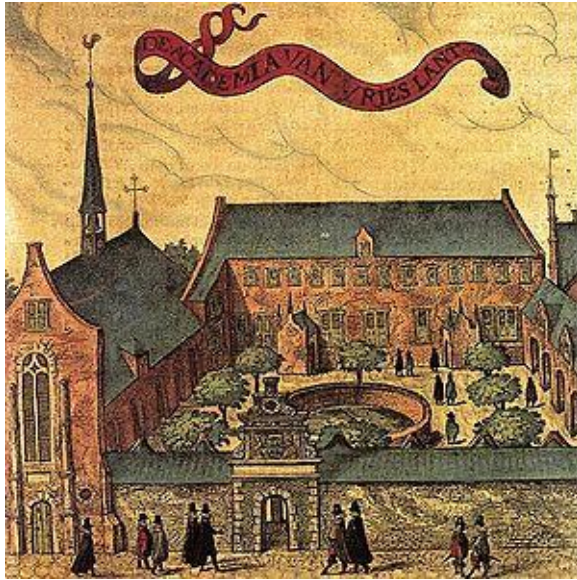


7th Century:
North Sea (or
the Frisian Sea)



It was the Frisians who
reinvented useful
money, and taught their
ideas to the Franks
under Charlemagne.



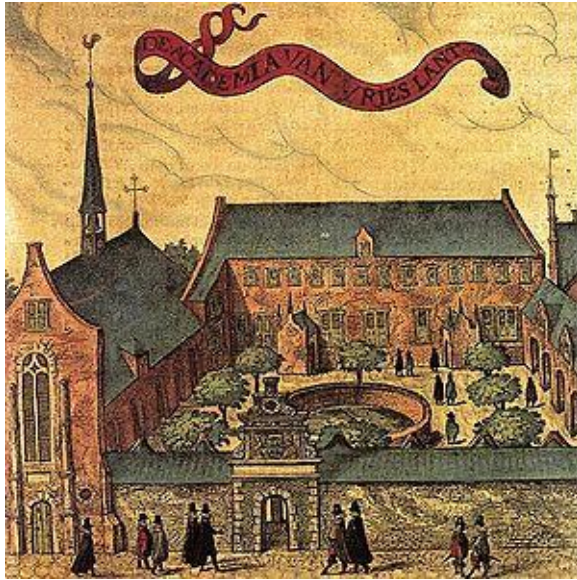


**258 years of
academic experience**

**University of Franeker or Academy of Friesland
(Latin: Academia Franekerensis)**



Stop your smart
regional
specialisation !



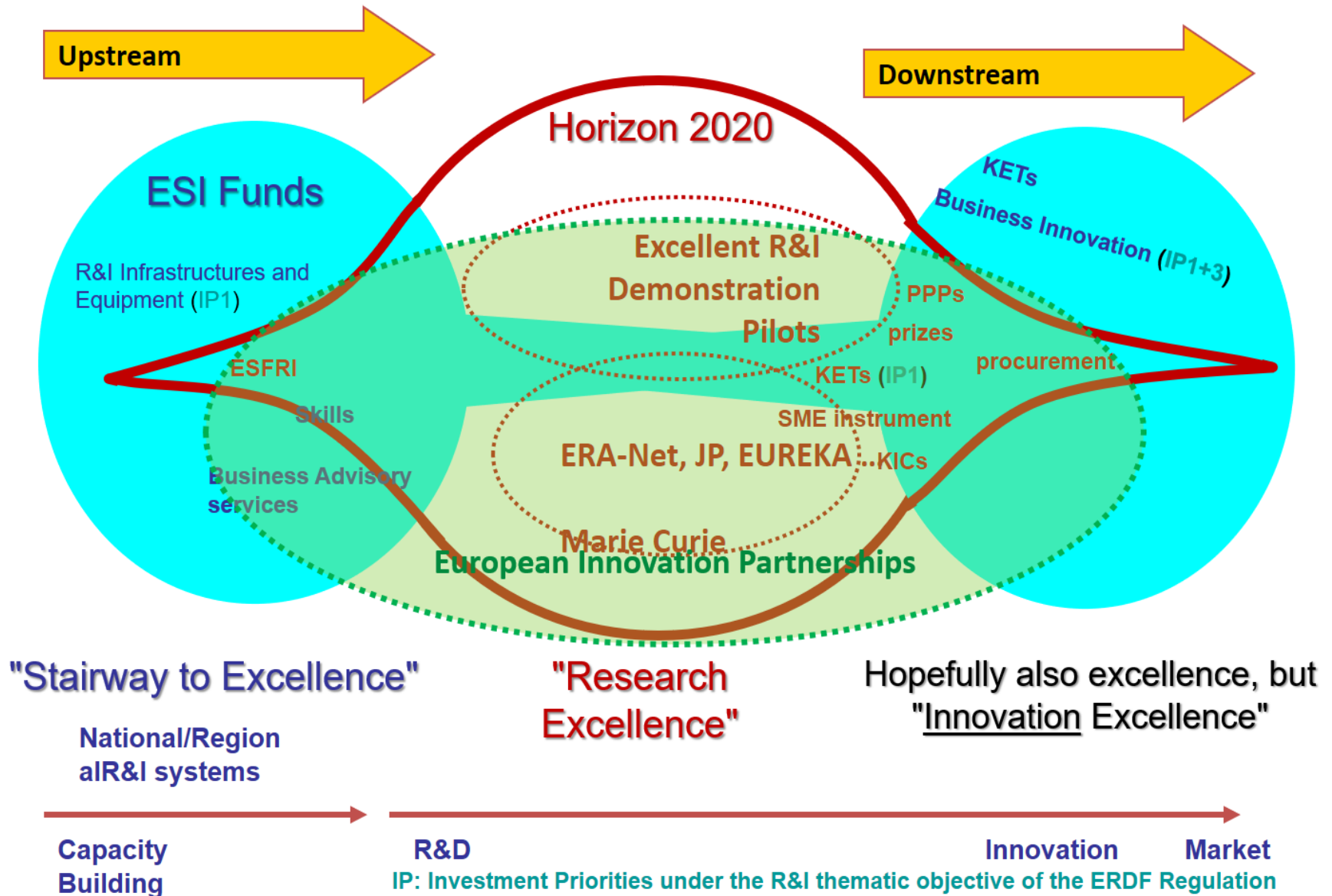
**University of Franeker or Academy of Friesland
(Latin: Academia Franekerensis)
Active 1585 – 1843 (258 years)**



Water & Milk



Synergies with Horizon2020?



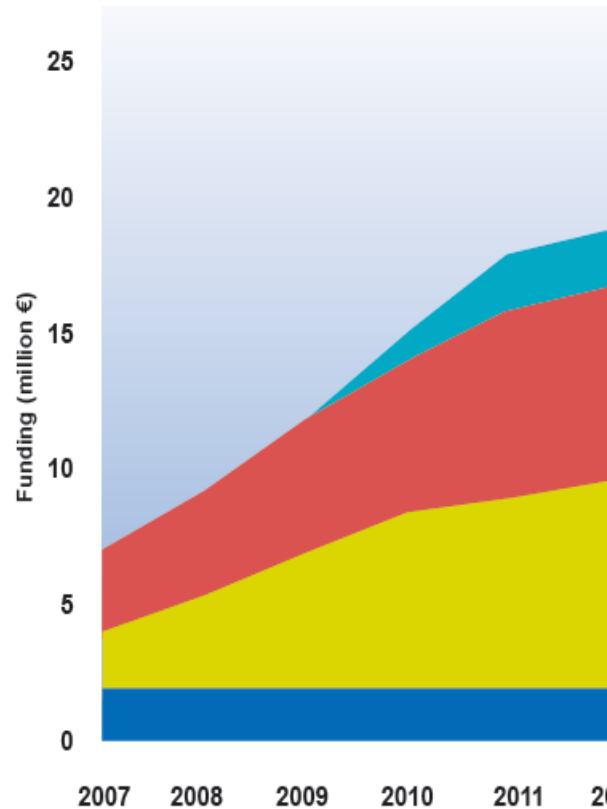
Wetsus PPP-model: a decade of growth through synergy in funding (2003-2017)

Vitens
Shell
Alliander
Unilever



2003: ERDF
Begin RIS3

Wetsus PPP-model: a decade of growth through synergy in funding (2003-2017)



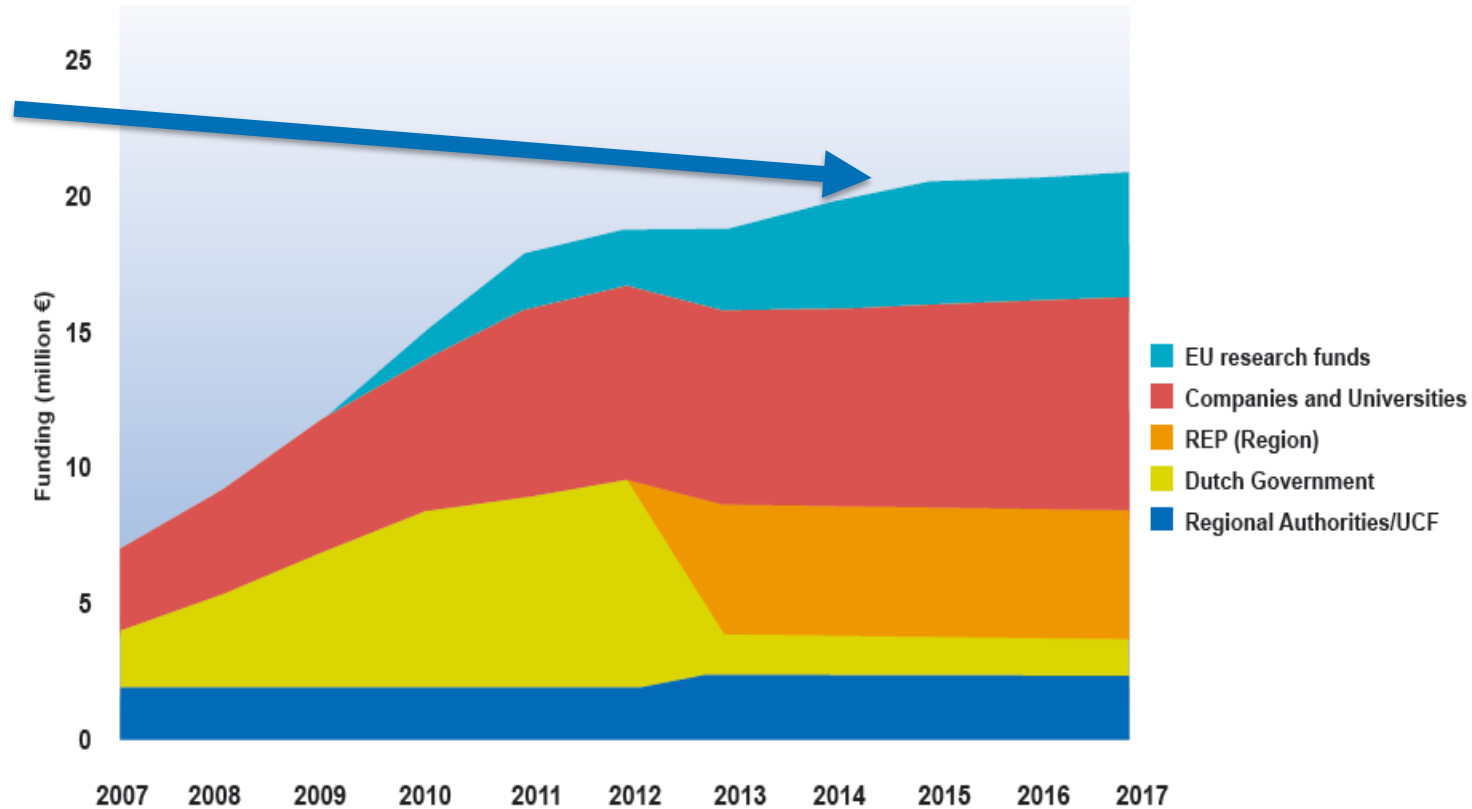
capmix:

ValuefromUrine



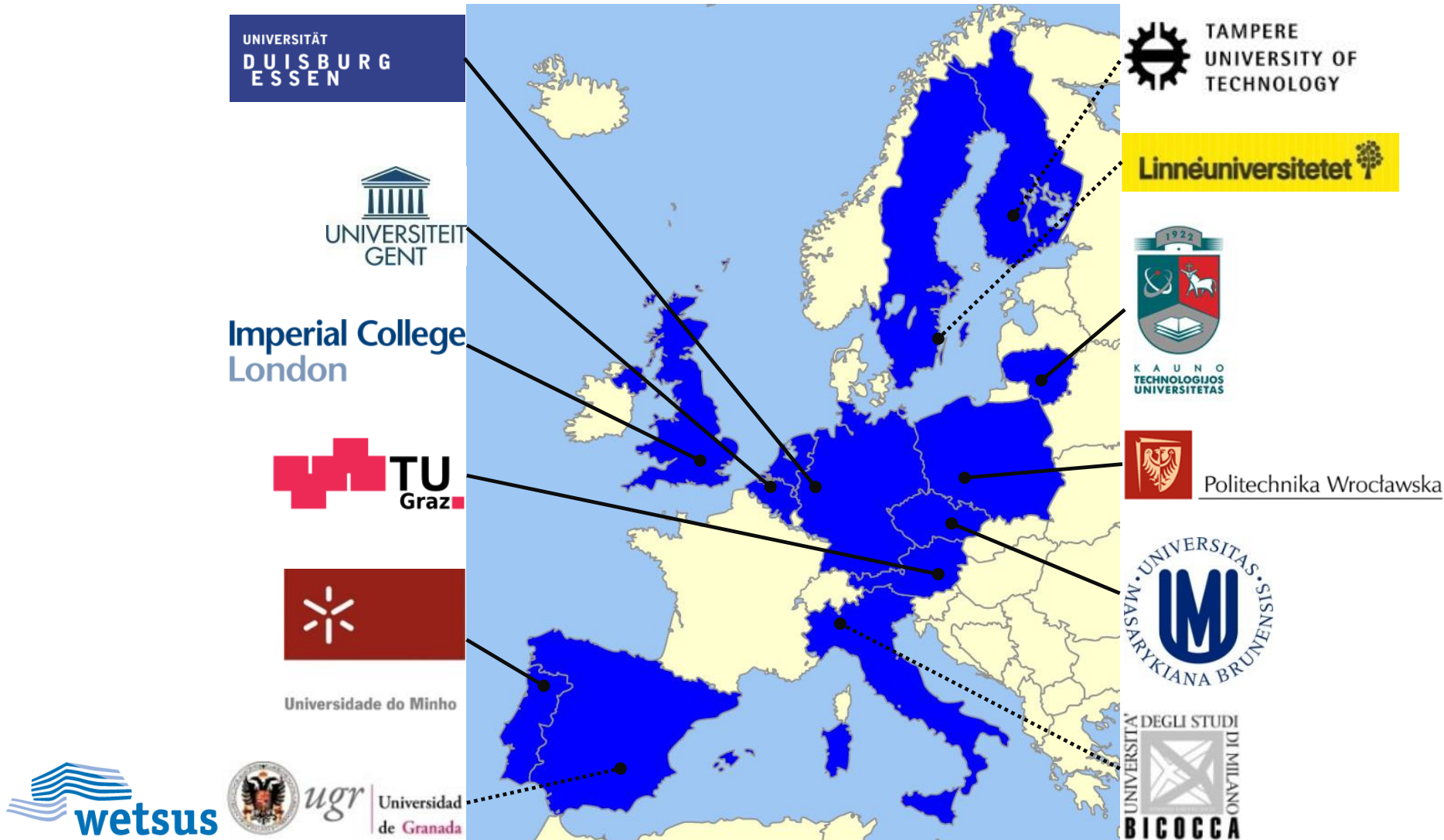
BioElectroMET

Wetsus PPP-model: a decade of growth through synergy in funding (2003-2017)

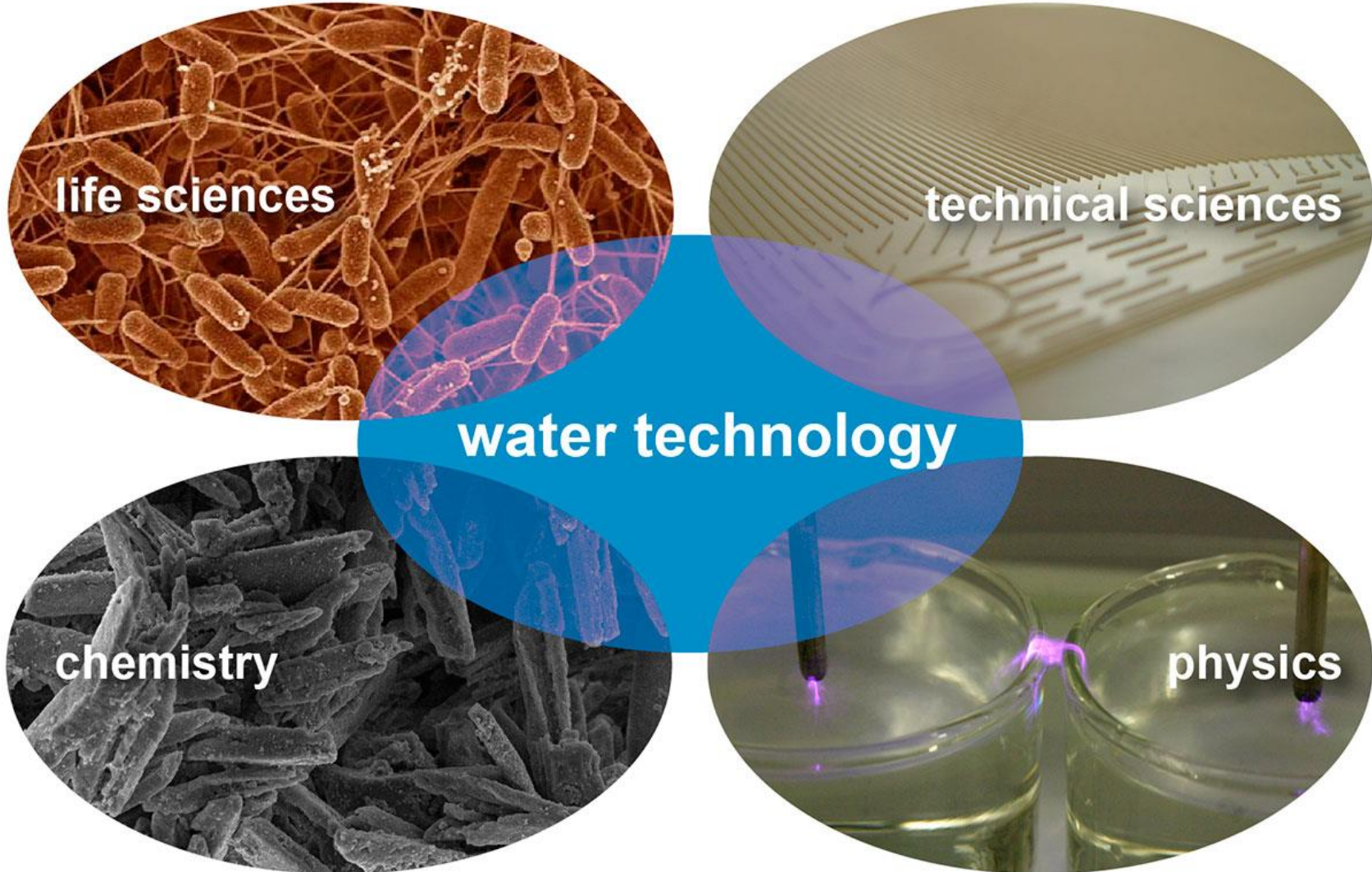


2003: ERDF
Begin RIS3

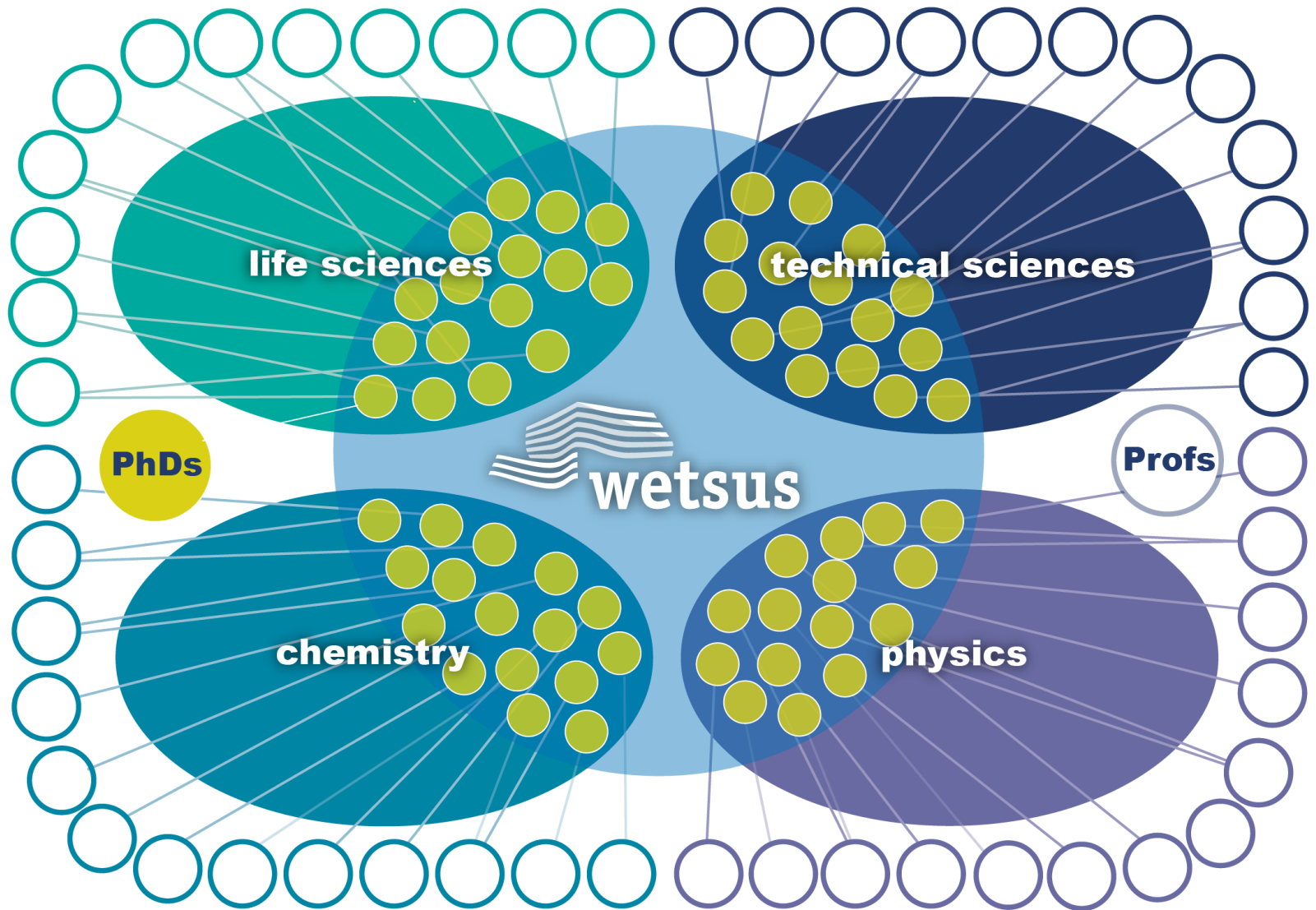
European university partners



Multidisciplinary Needed



Multidisciplinary research program



Research indicators per unit (full output 2005-2012/2013)

	RI	P
WETSUS	2.15	189
AUSTRALIA WATER	1.94	114
EAWAG	1.88	1377
TZW TECHNOL	1.62	75
KWR	1.56	228
UNESCO IHE	1.35	590
SUEZ ENVIRONM	1.16	63
ANJOU RECH VEOLIA	1.10	93

Trust based on cooperation

Companies (7)

Alliander
Landustrie
Fuji Film
Magneto
Mast Carbon
A.Hak
REDstack



Maarten van Riet
Theme manager



Universities 6 projects (4 PhD, 2 post-doc)

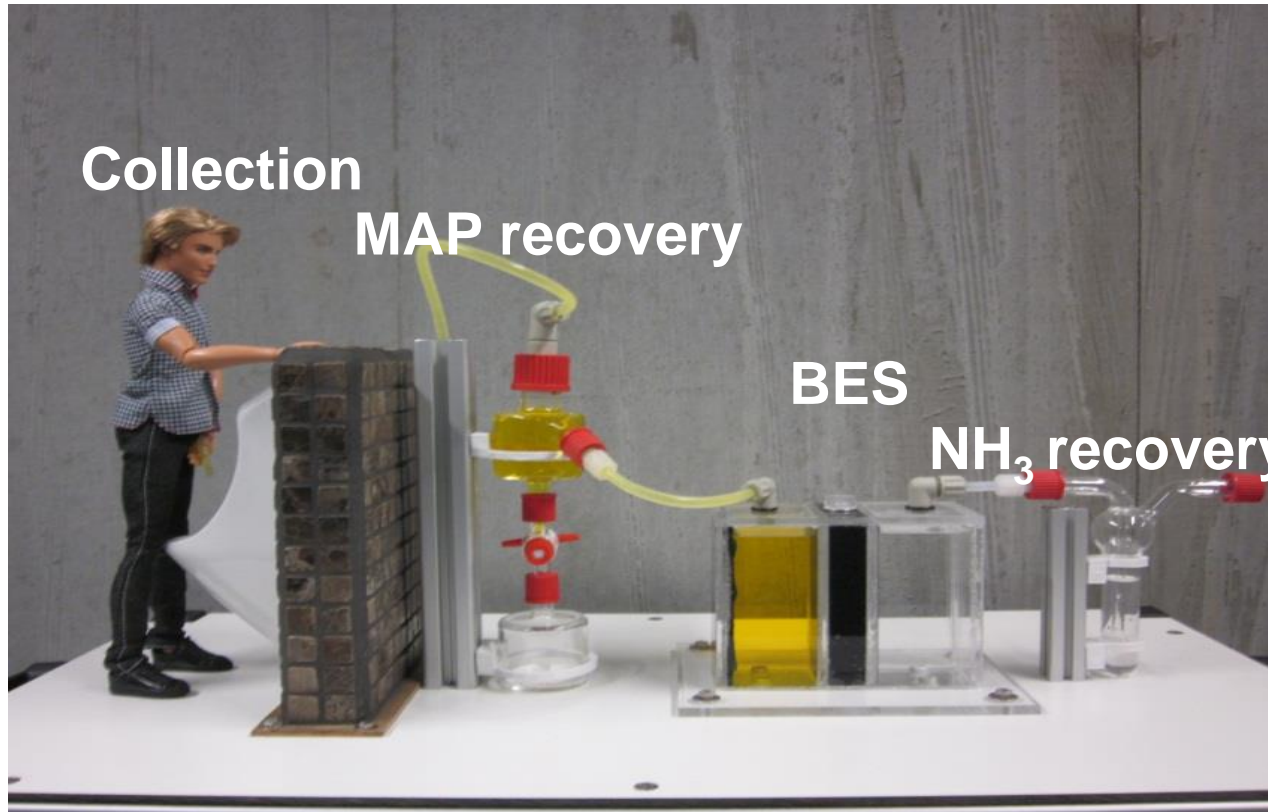
University Twente
Wageningen University

Salinity Gradient Energy





Breakthrough research and Innovation leading to Systemic Changes



Innovation Ecosystems become more important

**WATER
CAMPUS**

Leeuwarden

Science



Education

**Applied
Research**



Business



Study track water Leeuwarden

lifelong learning

Age >

from 10 years

from 12 years

from 16 years

from 20 years

from 25 years

Primary education

- 3 Water Days
- 8+ Program
- Water Wonder Lab

Secondary education

- Honours program
- Teaching material
- Profile Selection Test

Vocational education

- Training and education professionals
- Empowering vocational education

Applied sciences water

- Bachelor of
 - Environment
 - Biotechnology
 - Chemical Engineering

Master water technology

- MSc Water Technology (joint degree)

PhD

- Research schools

Business education

- MBA Program
- Masterclasses
- Business Challenge



Water university

Water Alliance members (mostly national)



Wetsus Participants (NL, EU and global)



Wetsus participants (EU + Global)

UK

Anglian Water

HAPPS

Mast Carbon

Berson UV

Germany

Skion

Esco Salt

Denmark

Grundfos

USA/Canada

General Electric

DOW

DC Water

Trojan UV

France

Veolia Eau

Aqua Nirvana

Laborelec-Engie

Saudi Arabia

Sabic

Japan

Fuji

Kurita

Kuraray

Austria

IPF

SNT

Ireland

O₂Environmental

Israel

ICL

Spain

Abengoa

Finland

Kemira

Neste Oil

Norway

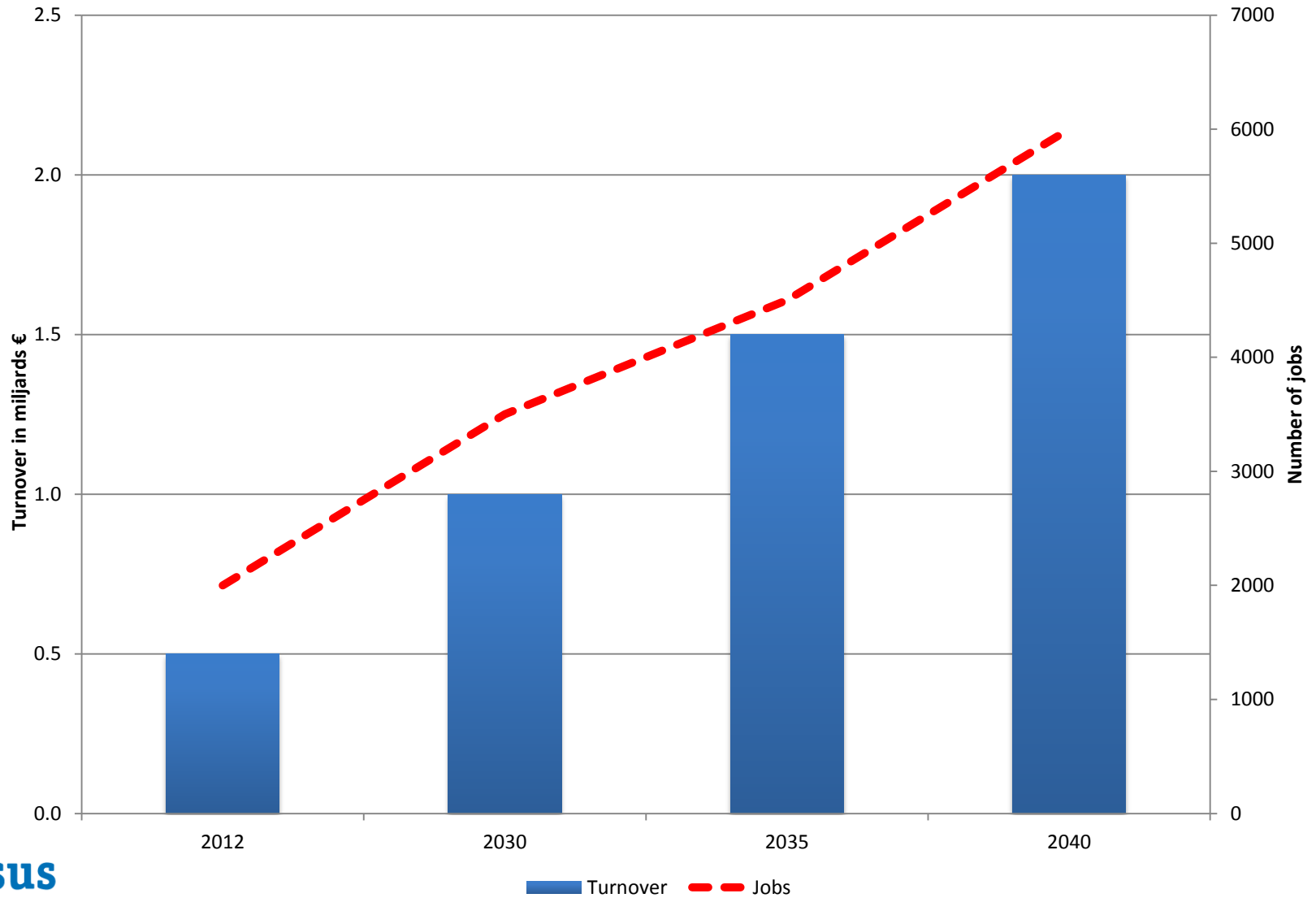
Yara

2007 – 2015: 80 patents and 25 spin-off companies created

Wetsus spin-off companies

• REDstack	• Automatic Electric Europe Special Products
• DeSaH	• HydrOwashr
• Westt	• Salttech
• Aqua Explorer	• Biotrack
• Dutch Rainmaker	• TailTec
• EasyMeasure	• Extlns Technologies
• Water ProMaSys	• Aiforo
• Capilix	• Duplaco
• Pure Green	• Somut
• Smart Frequencies	• Wisect
• Water Waves	• Djipper
• Metal Membranes	• High Voltage Water
• AquaBattery	

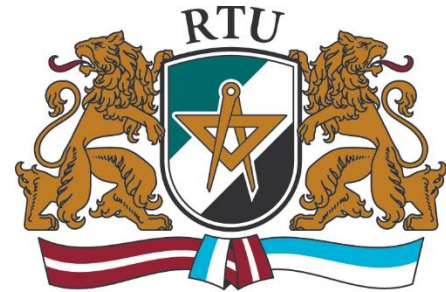
Watertech *jobs* and turnover in *Fryslân*



Seal of Excellence



Teaming: RTU-Wetsus
*Center of Excellence for Smart
Engineering Technologies*



hydr^owashr



Wetsus: European Centre of Excellence for Sustainable Water Technology

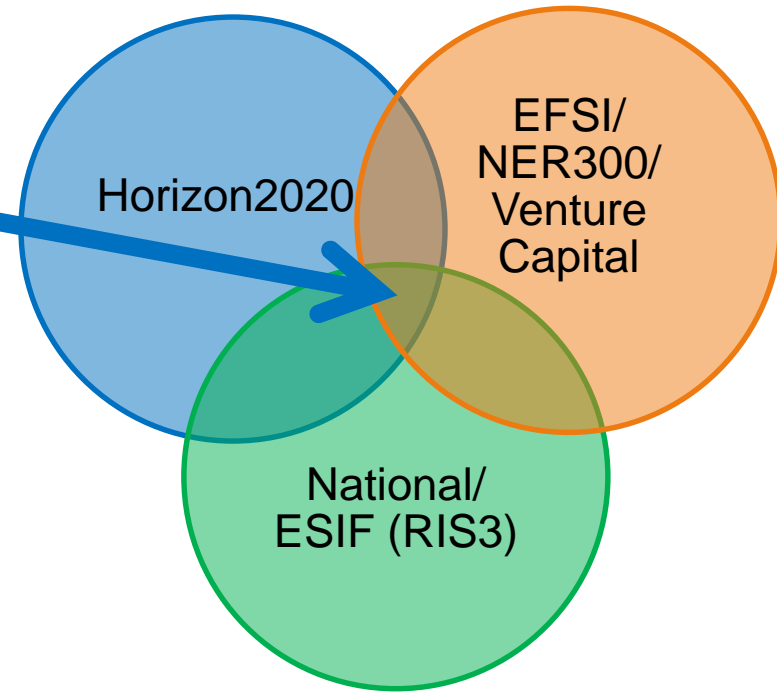


European Center of Excellence (EU-CoE)

The EU-CoE is active in the intersection between Horizon2020, national funding schemes, ESIF (RIS3) and market investments (such as EFSI, NER300 and Venture Capital).

The EU-CoE is the most efficient European cooperation model to achieve:

- High quality research papers
- Validation of research results
- Innovation efficiency
- Valuable Patents
- Spin-off companies
- World leadership in (emerging) industries
- Economic growth and jobs



European Center of Excellence (EU-CoE)

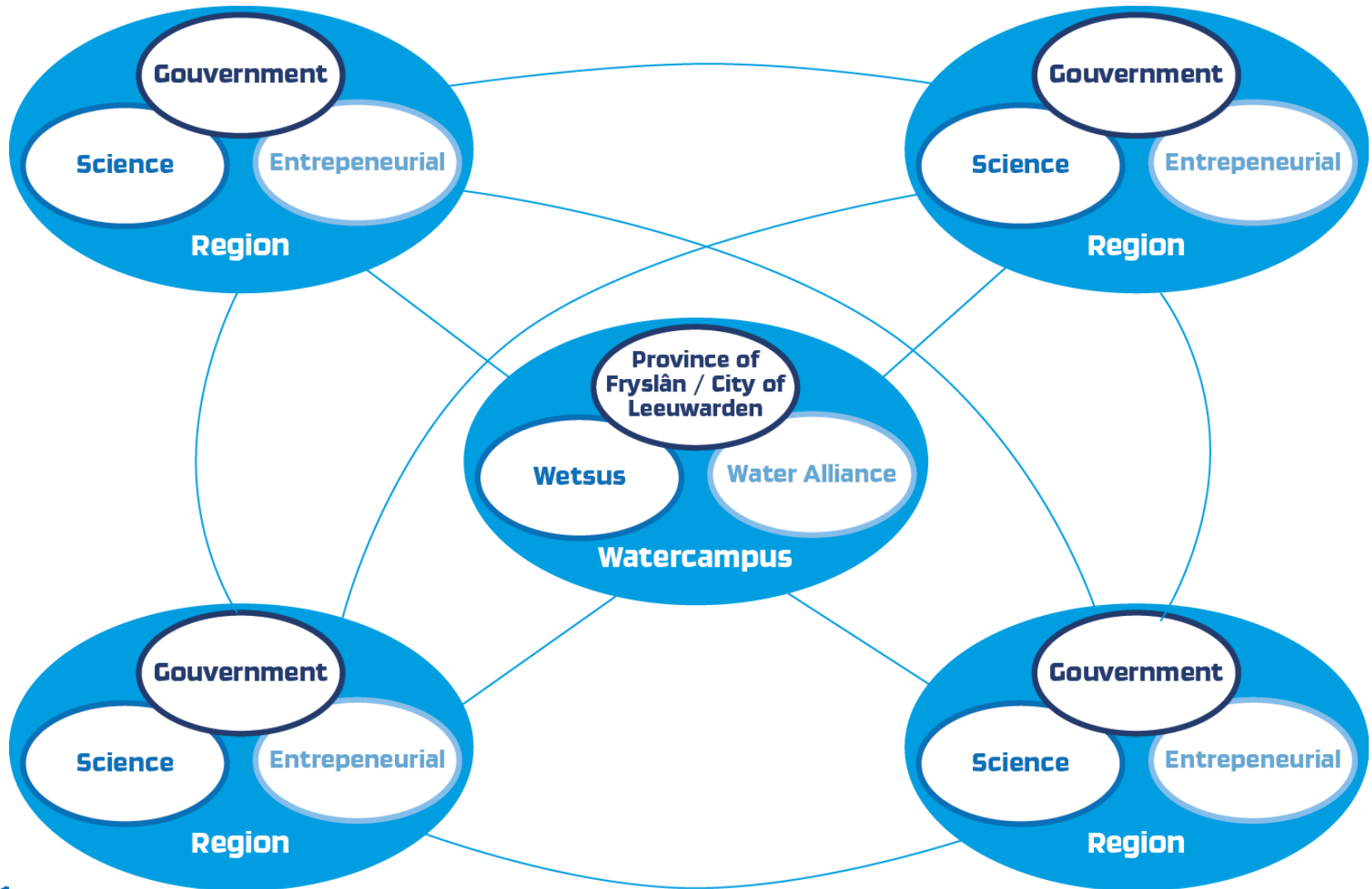
Soft conditions:

High Trust Environment
Innovation (reputation)
Partnership (benevolence)
Reliability (integrity)

Hard conditions:

- SMEs and Multinationals have equal rights
- Long-Term Public and Private Commitment
- Strict IP Regulation
- Distance from Peer Groups
- Companies Prioritize Research Projects
- Focus on Global Impact

Stairway to Excellence: Teaming up with Polish Regions



www.wetsus.eu
www.watercampus.nl
www.topsectorwater.nl

Wetsus is co-funded by:

- the Dutch Ministry of Economic Affairs (TKI-Topsector Water, Peaks in the Delta)
- the Dutch Ministry of Infrastructure and the Environment
- the European Union (European Fund for Regional Development and Seventh Framework Programme), investing in your future
- Northern Netherlands Provinces (REP-SNN)
- the City of Leeuwarden, the Province of Fryslân and University Campus Fryslân



Ministry of Economic Affairs



Ministry of Infrastructure and the Environment

