

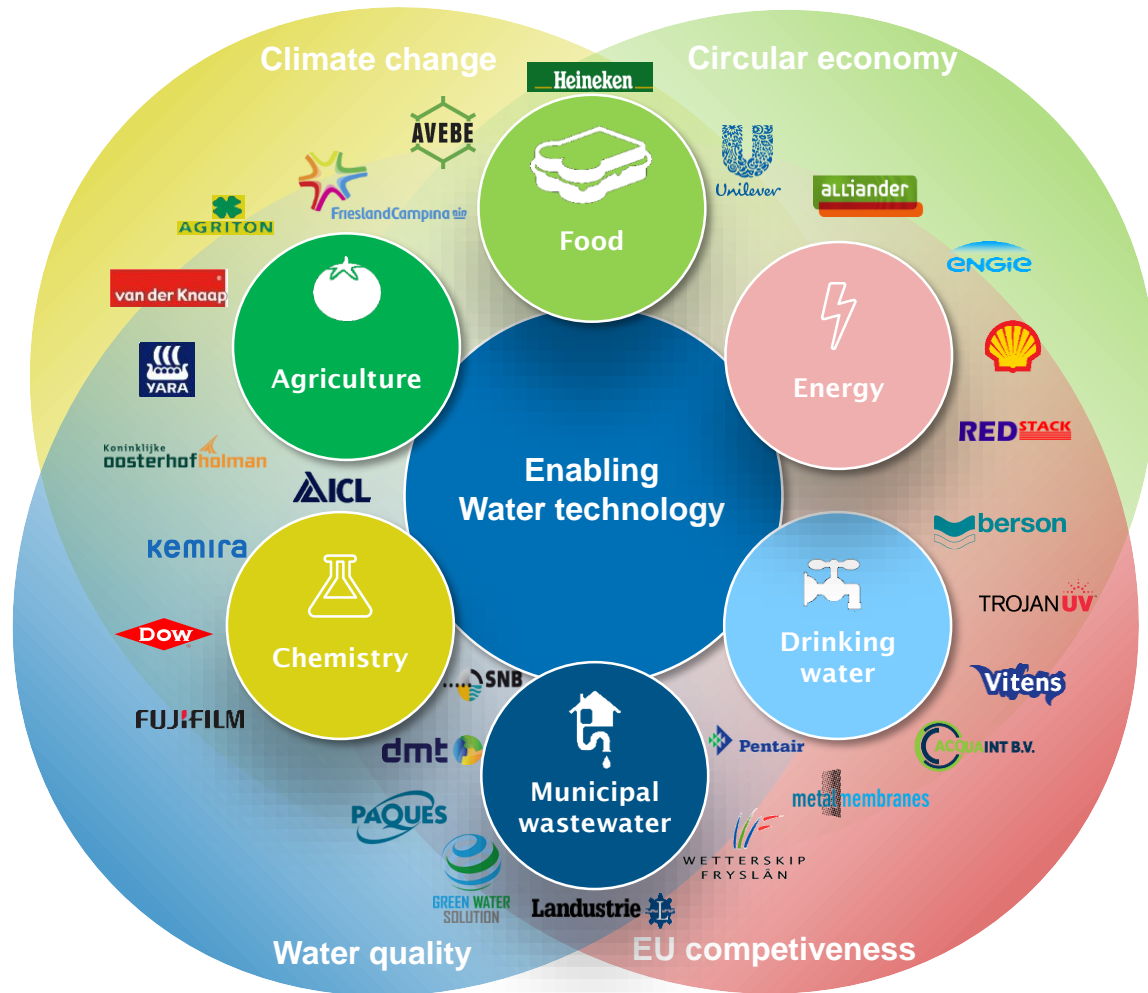


High-risk research transforming new ideas into breakthrough innovations and start-ups

prof.dr.ir. Cees J.N. Buisman

Conference on **Water Technology & Circular Economy**

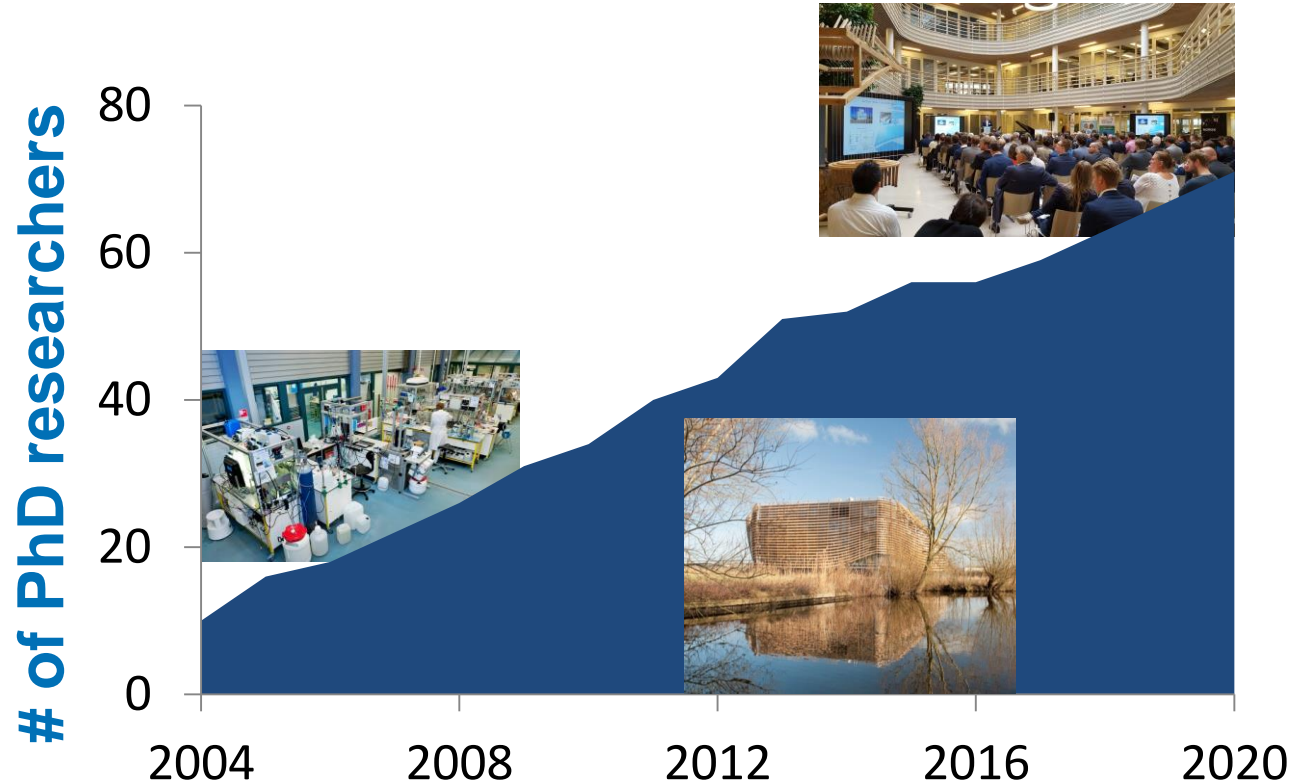
combining scientific excellence with commercial relevance



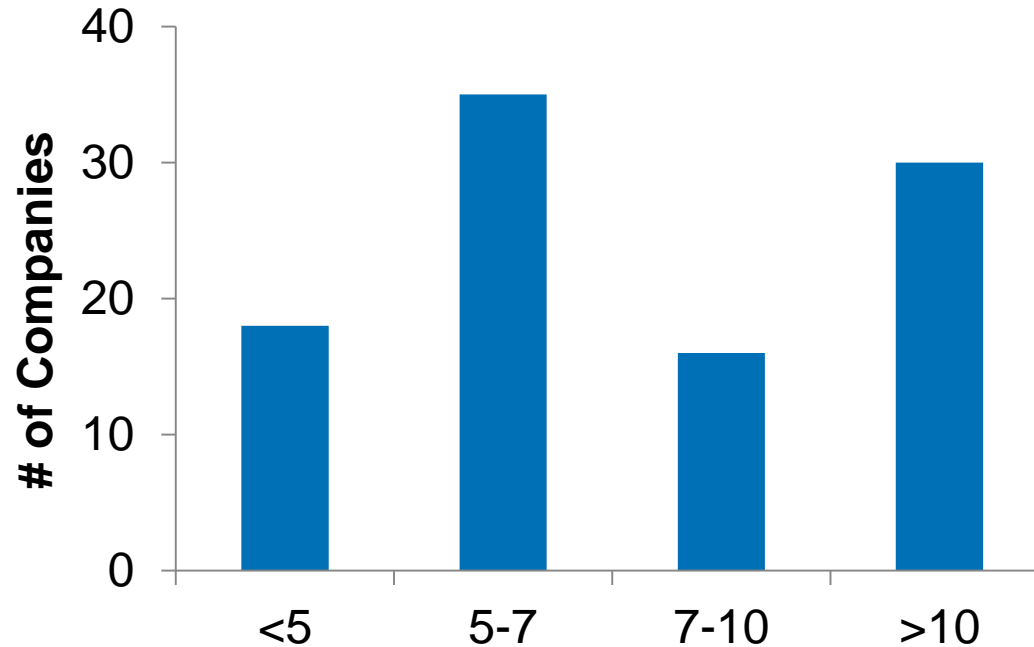
Participant companies



Development Wetsus into international water hub



Long term commitment companies (years)



Wetsus Output

83 Patens

33 transferred to companies

87 PhD dissertations

600 MSc theses

569 Scientific papers

146 in top 10%

33 Spin-off companies



23 Knowledge partners



Universidade do Minho



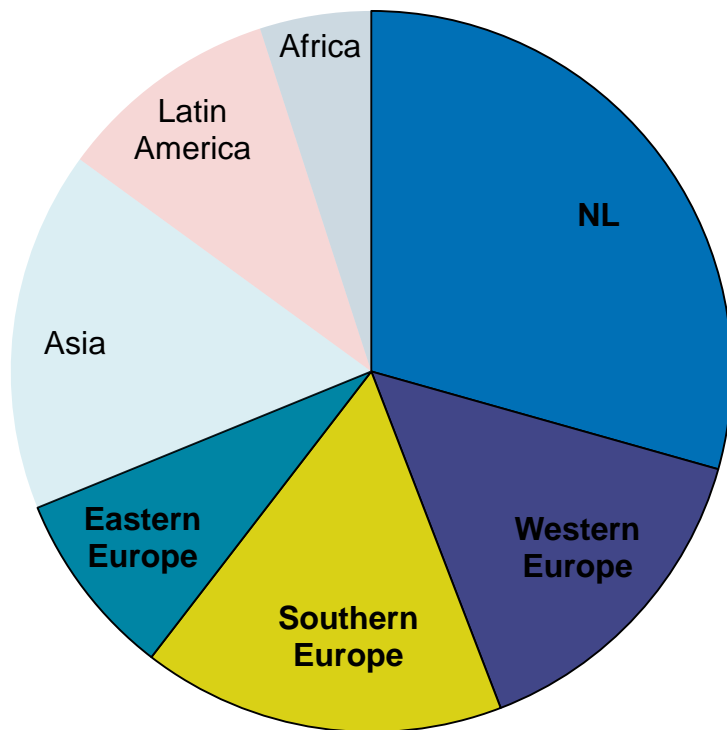
UNIVERSITEIT TWENTE.



Imperial College
London

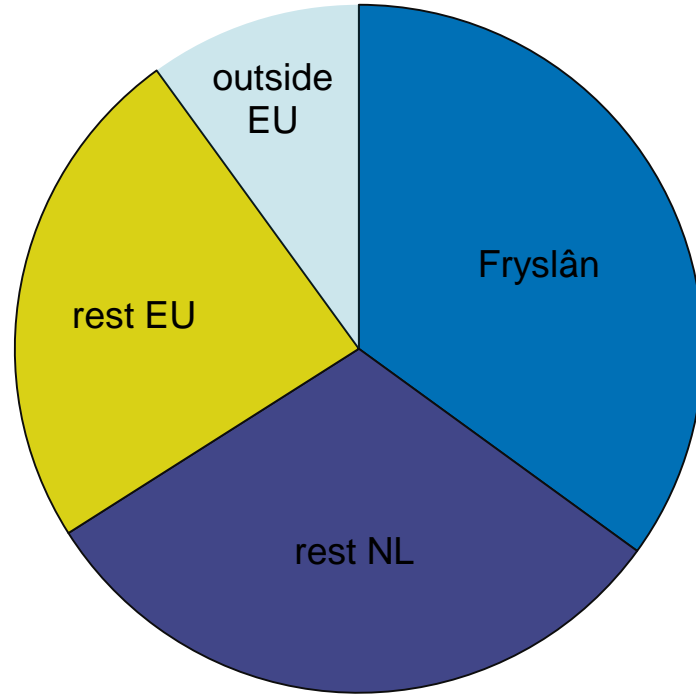


Magnet for international talents

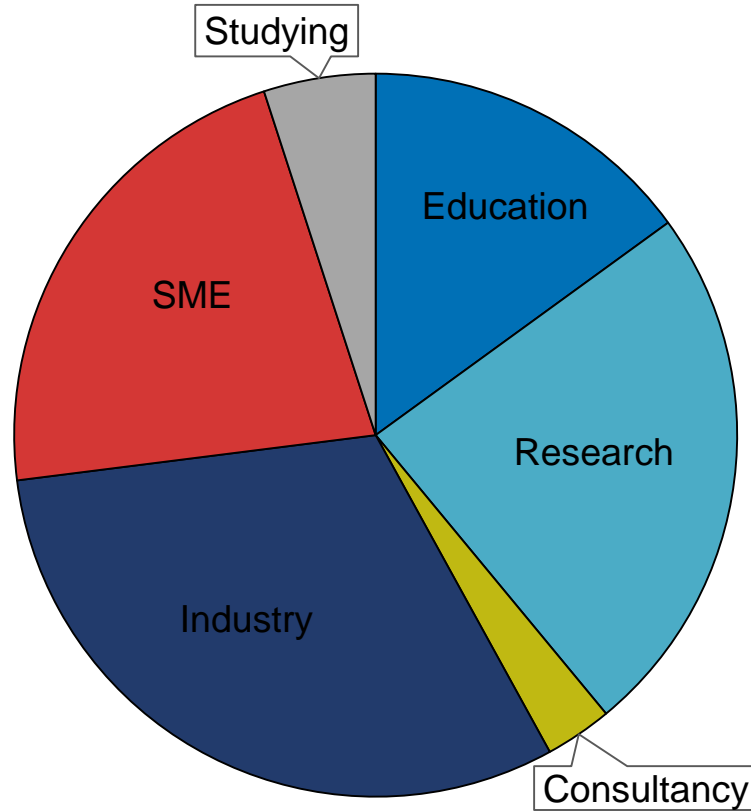


Origin of PhD researchers

Wetsus alumni go to



Wetsus alumni go to



International partners Wetsus

USA/Canada

Trojan UV
DOW
DC Water
Pentair
Green Water Solution
Nalco

Finland

Kemira

UK

Anglian Water
Scottish Water
Coherent Water Systems

Japan

Fuji
Kurita

Ireland

O₂ Environmental

Denmark

Grundfos

Germany

Skion
Esco Salt
Integro

Austria

IPF
SNT

Norway

Yara

Israel

ICL

France

Aqua Nirvana
Laborelec-Engie

Spain

Estrella de Levante

Belgium

Avecom

Saudi Arabia

Aramco

EU projects granted since May 2015



NEWBIES



WaterSEED



MEDUWA-Vecht



SmartVFA



iWATERMAP



ResourcingWater

George Barley Prize by Everglades Foundation



St. Lucie Canal

Algae bloom

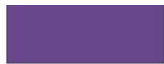
George Barley Prize





iWATERMAP

provinsje fryslân
provincie fryslân 



Ministry of
Education and Science
Republic of Latvia



REGION OF CRETE
ΠΕΡΙΦΕΡΕΙΑ ΚΡΗΤΗΣ



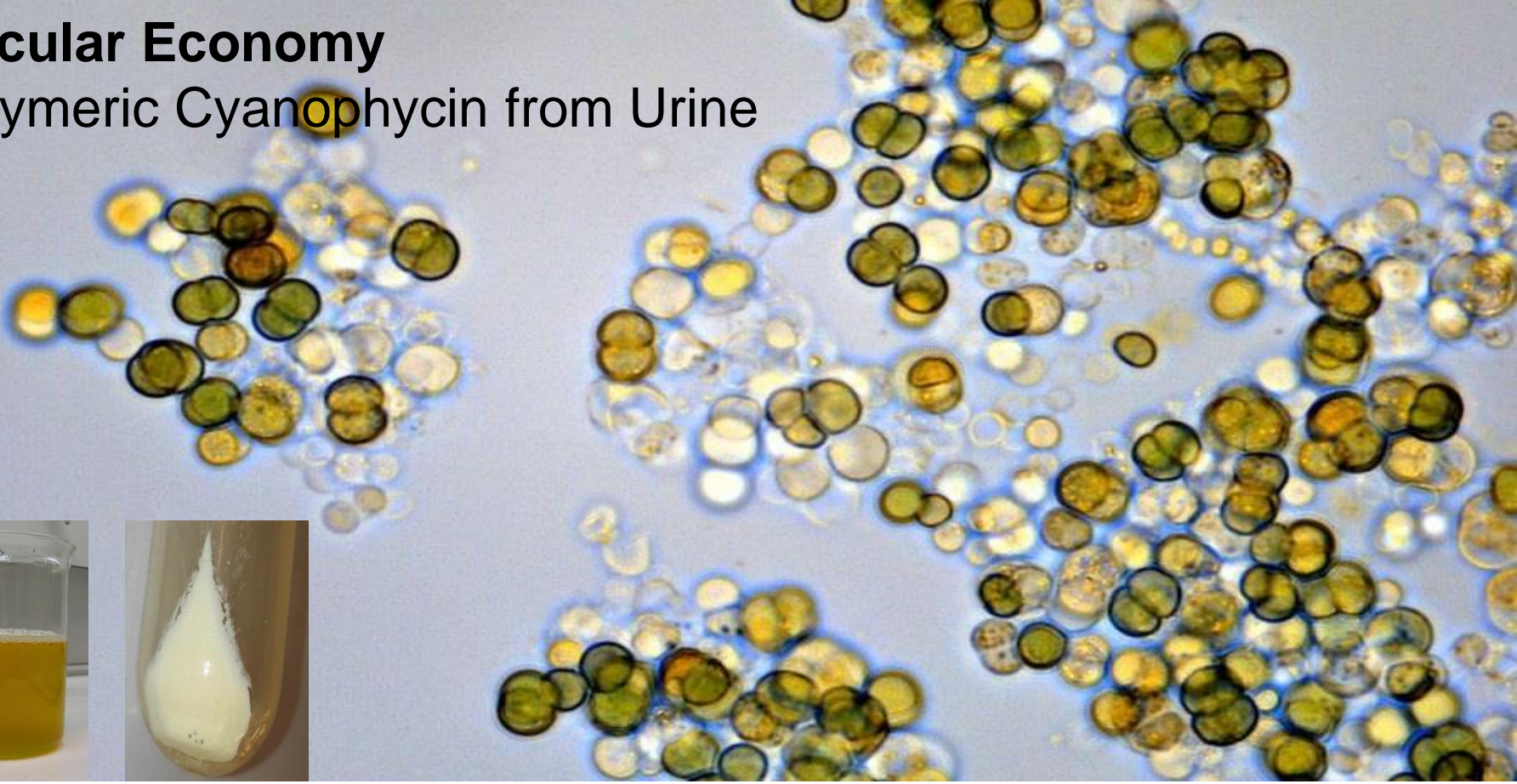
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RIGA TECHNICAL
UNIVERSITY

Circular Economy

Polymeric Cyanophycin from Urine



Circular Economy

Phosphate recovery

WWTP using Fe-based coagulants



Magnetic separator

➔
Digested
Sewage
sludge



➔
Vivianite

P-fertilizers & Fe recovery



Circular Economy

Biopolymers from water



Circular Economy

Natural flocculants



10 kV X1,500 10 µm

Upscaling Biobased chemical production



Lab
~0.3 kg/d



Pilot



Full-scale
~3 ton/d

Upscaling Blue energy



Lab
~mW



Upscaling
1kW



Pilot
50kW



Demo
1MW

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

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- the City of Leeuwarden, the Province of Fryslân
- The Netherlands Organisation for Scientific Research



Ministry of Economic Affairs and
Climate Policy of the Netherlands

