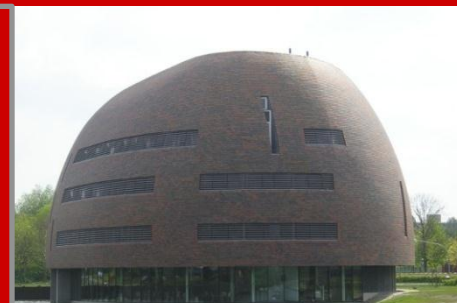




Science to the Market: The role of Public Private Partnerships





university of
groningen

Broad Research University

Number 4 in top 10 best places to work in academia in 2009 according to **The Scientist**

- › 30.000 students
- › >10% from abroad (130 countries)
- › 560 professors
- › >350 PhD Theses per year
- › 118 Master degree programs
- › 17 selective research Masters
- › 9 graduate schools





9 Faculties

- › Arts
- › Behavioural and Social Sciences
- › Economics and Business
- › Law Mathematics and Natural Sciences
- › Medical Sciences/University Medical Center
- › Philosophy
- › Spatial Sciences
- › Theology and Religious Sciences



university of
 groningen

Our Research Themes

ENERGY

HEALTHY AGEING

SUSTAINABLE SOCIETY





Content

- › Bringing Science results to the Market
- › Public Private Partnerships
- › Two examples
- › Conclusions

Traditional approach: Science to the Market

- › Sequential approach
- › Different ‘worlds’
- › Strong focus on IPR

Discovery



Development



Deployment





5 - 10 yr

**Fundamental
 Sciences**

4 - 8 yr

**Applied
 Sciences**

2 - 5 yr

**Applied
 technology**

0.5 - 3 yr

**Product
 Development**

**Technological
 Top-Institutes**

Universities

Research Contract Org.

precompetitive

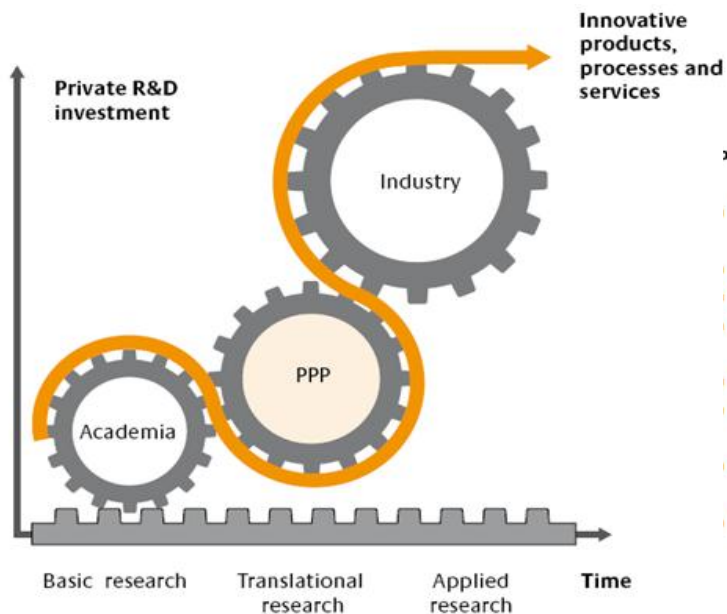
competitive

Company
 Research

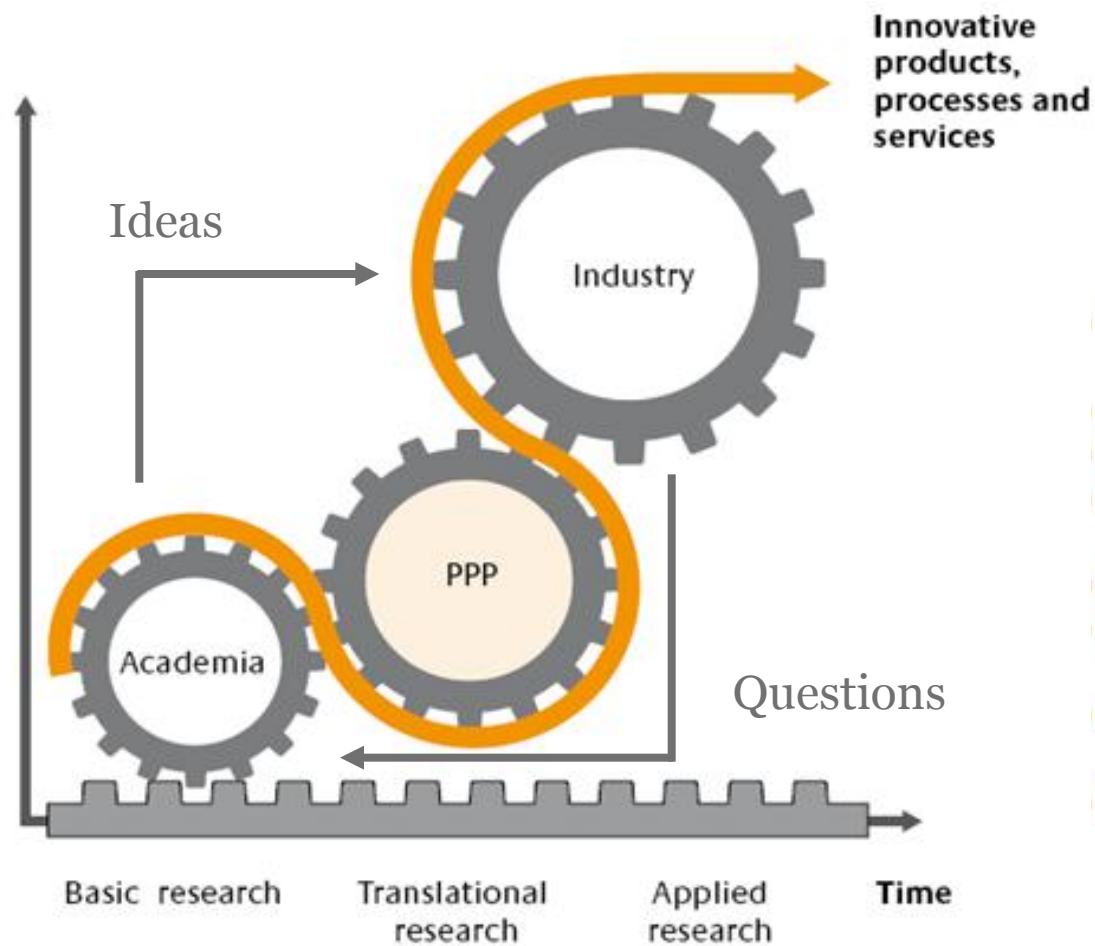
Company
 Development



Public Private Partnerships are a means to align and create critical mass

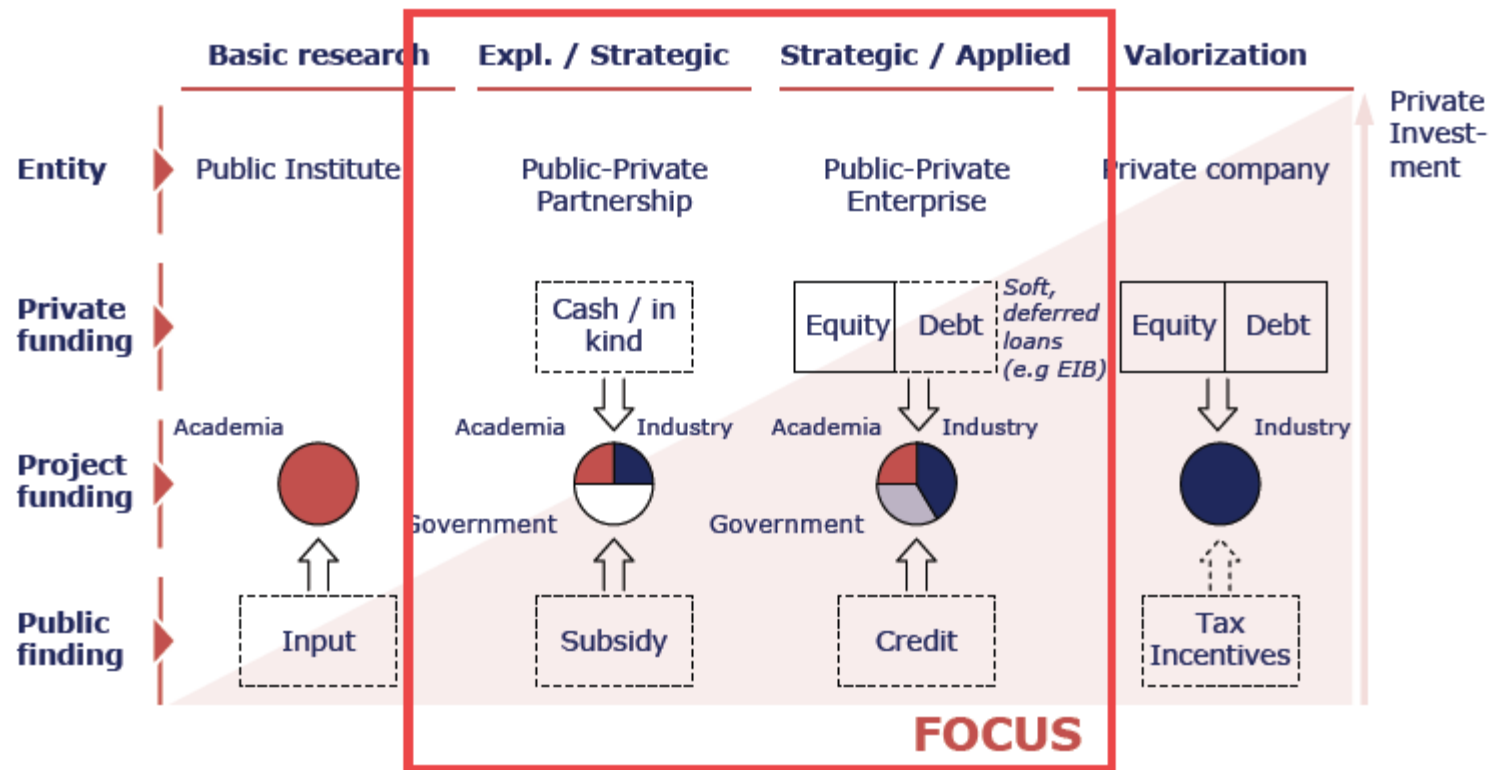


- › Bridge gap between industry and academia
- › Pool knowledge and resources
- › Multiply investment
- › Concentrate focus and mass
- › Organize translational research



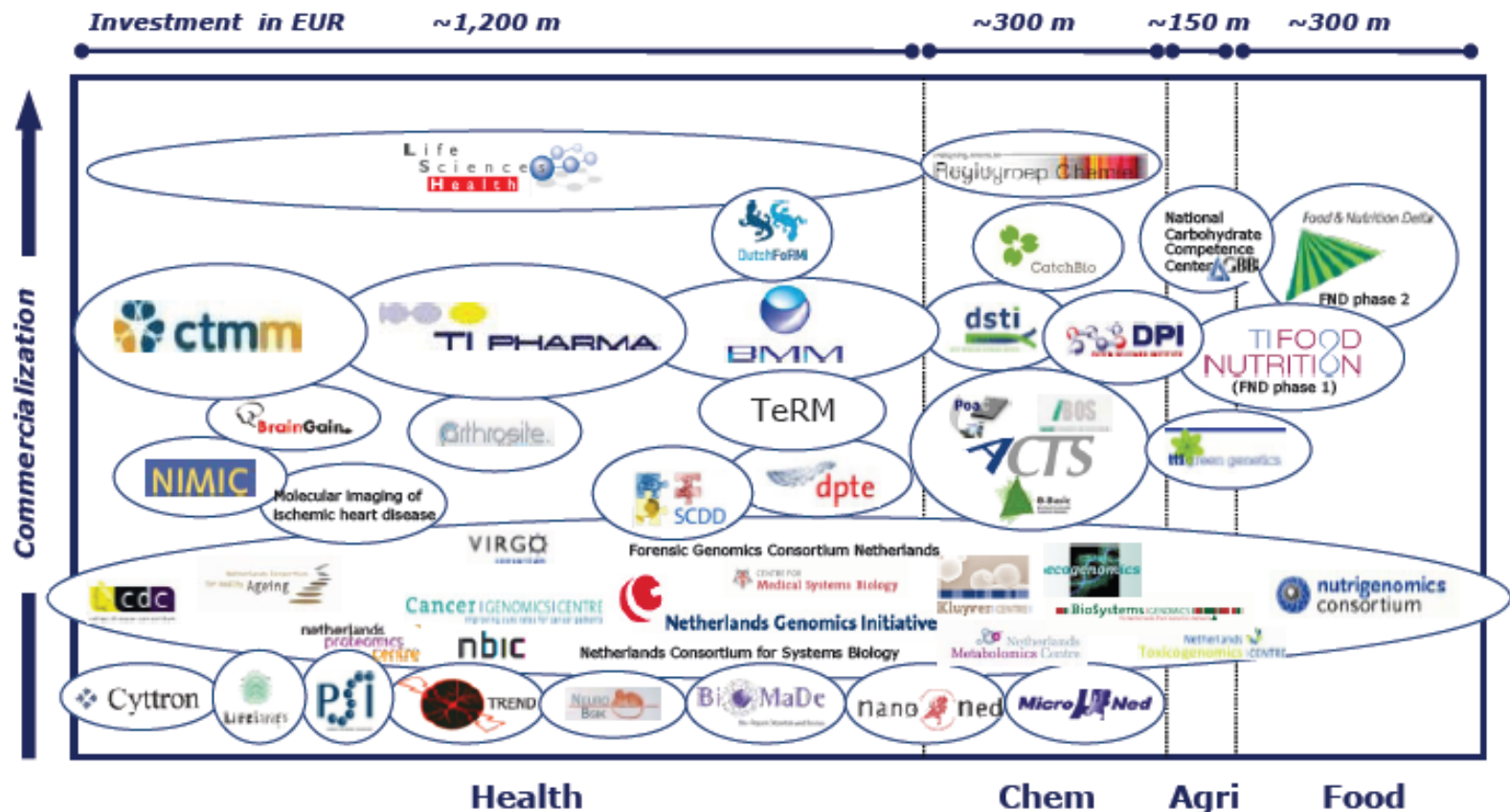


Funding of PPP's depends on their focus



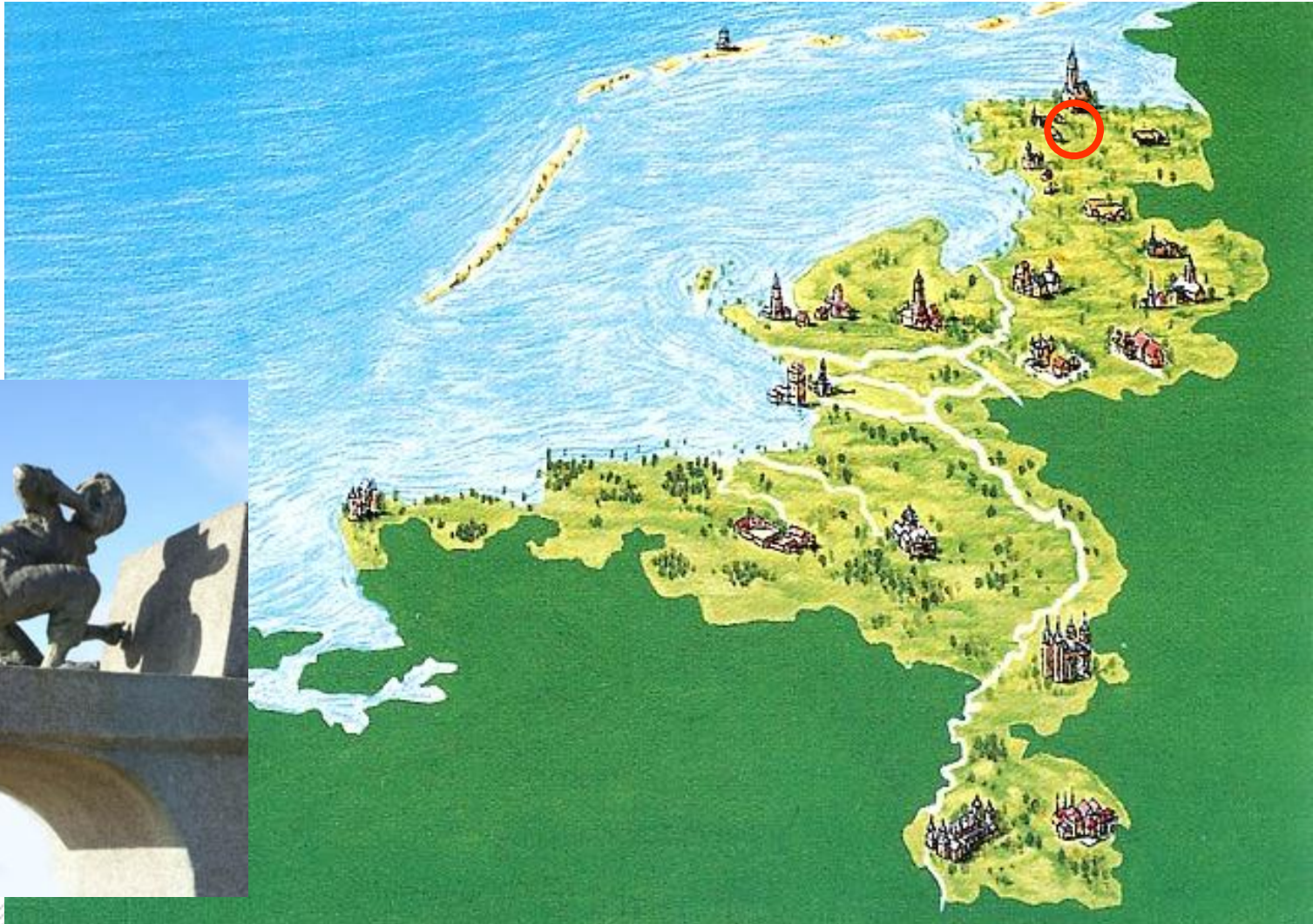


Immensely popular in the Netherlands





university of
groningen





We participate in >20 PPP's, including:

- › TI Pharma
- › Institute for Sustainable Process Technology
- › Dutch Polymer Institute
- › Center for Translational Molecular Medicine
- › BioMedical Materials
- › Netherlands Institute for Regenerative Medicine
- › Carbohydrate Competence Center
- › TI Food and Nutrition



Carbohydrate Competence Center

- › Applying science base on metabolism, modification and structure analysis of carbohydrates
- › Major processing companies seeking new markets for their agricultural products



CARBOHYDRATE
COMPETENCE CENTER

www.ccresearch.nl



Research linked to key Industrial Themes

- › Carbohydrates and Health: Nutrition and Pharma
- › Carbohydrates as renewable resource: BioBased Economy



CARBOHYDRATE
COMPETENCE CENTER

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Top Institute Food and Nutrition

- Strategic alliance of industry and research institutes supported by government
- To strengthen innovative capacity of food sector
- Building leading competences within the research organizations
- Fundamental research at pre-competitive level
- 2011: M€ 28, >300 researchers

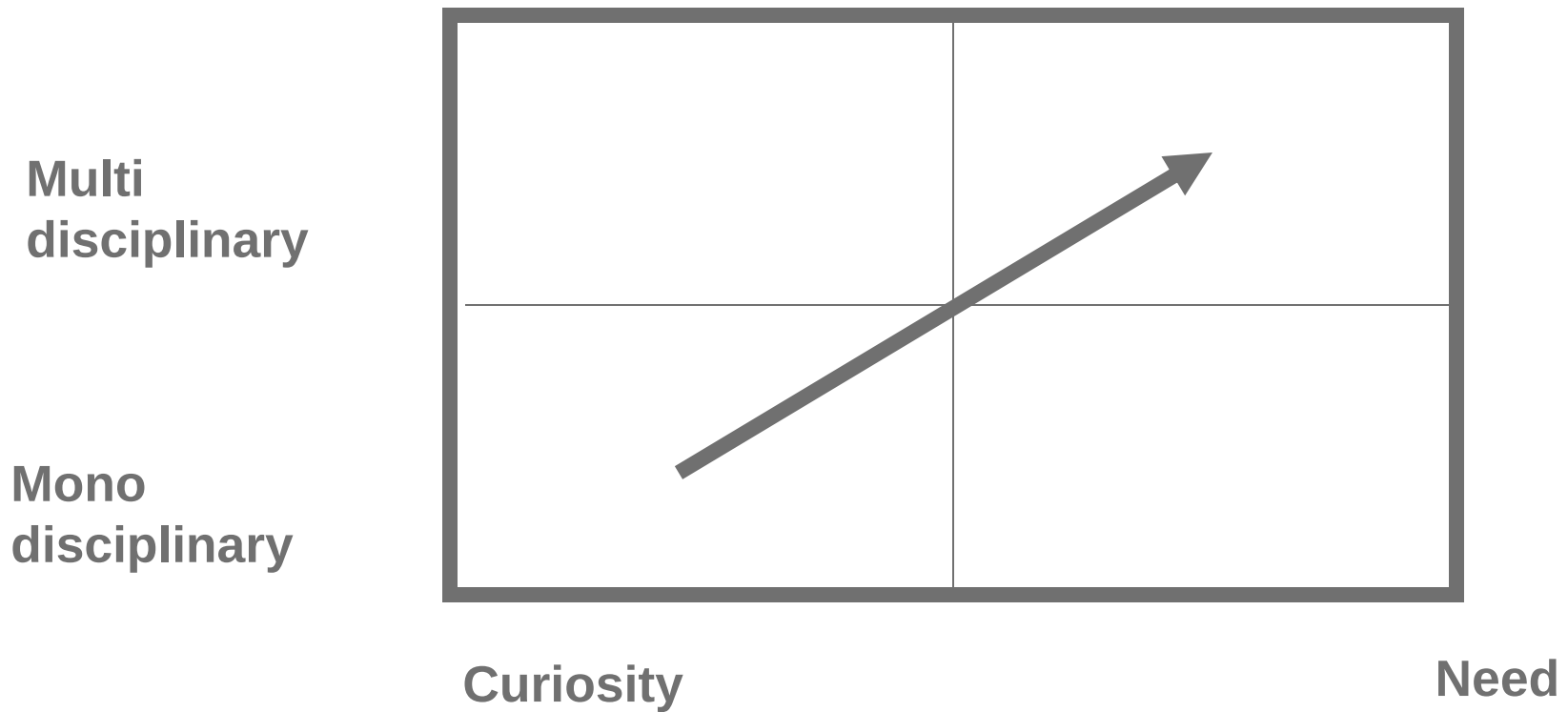


Top Institute Food and Nutrition

- Addressing two major challenges:
 - **Feeding a growing world population in a sustainable way**
 - **Delivering health to an aging society where chronic diseases prevail**
- Research on Nutrition and Health, Sensory, Innovative Production, Food Safety and Sustainability



Merging curiosity and needs





Science: results are published in peer reviewed journals or disseminated via lectures

Track record:

- › > 900 publications in peer reviewed journals
- › 2002 – 2006: 422 scientific papers
 - 103 in global top 10%
 - 14 in global top 1%
- › 96 PhD theses

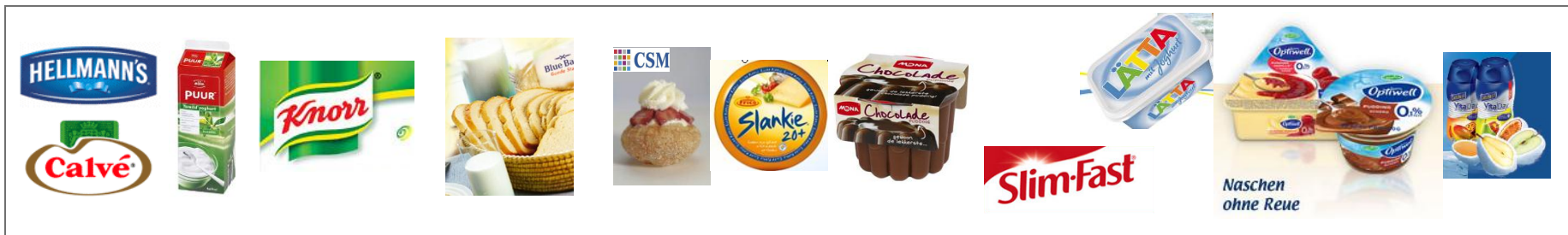
People: educated in excellent science and trained in industrially relevant research





Business: TIFN knowledge was used to develop new products or improve existing ones

- › 710 M€ incremental sales per year (high-added value)
- › TIFN-inside in 10 of food sector's top 20 innovations



- › 27 patent families granted, many applications filed
- › > 120 spin-off projects with knowledge institutes



Attractive proposition for Industry

2011-2015

- › internationalization
- › 14 new partners
- › adding >50% funding
- › 3 new themes





PPP's: Facilitating science to market

- › Merging industrial needs with advanced research
- › Organize translational research
- › Introduce industrial portfolio management
- › Raise adequate funding for ground breaking research
- › Bringing academic and industrial researchers together



Thank you for your attention

