

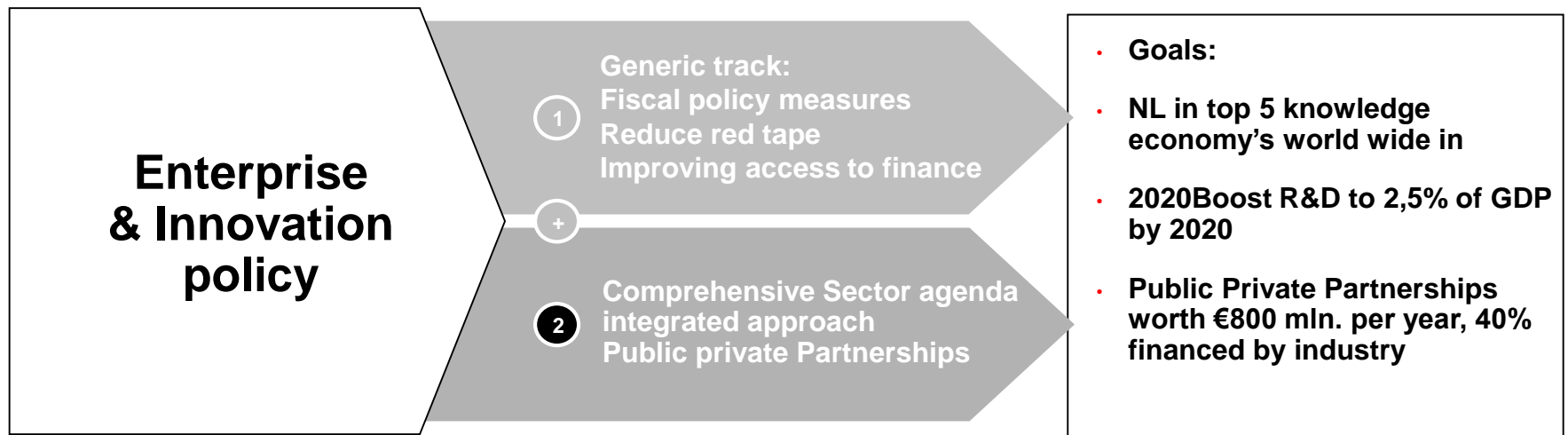
Innovation Policy

Topsector Life Science & Health

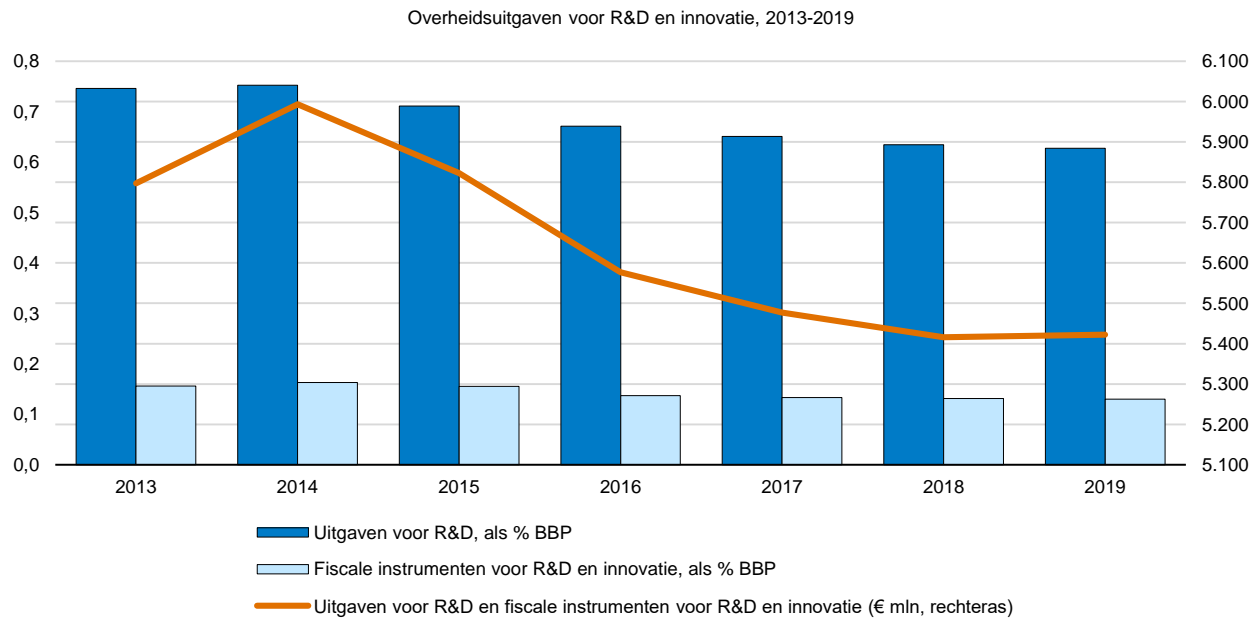
Odilia Knap
Deputy Director
Dep. Innovation & Knowledge
Ministry of Economic Affairs

Dutch Enterprise & Innovation Policy

Focus on maintaining an internationally competitive business environment



Government funding RTD declines

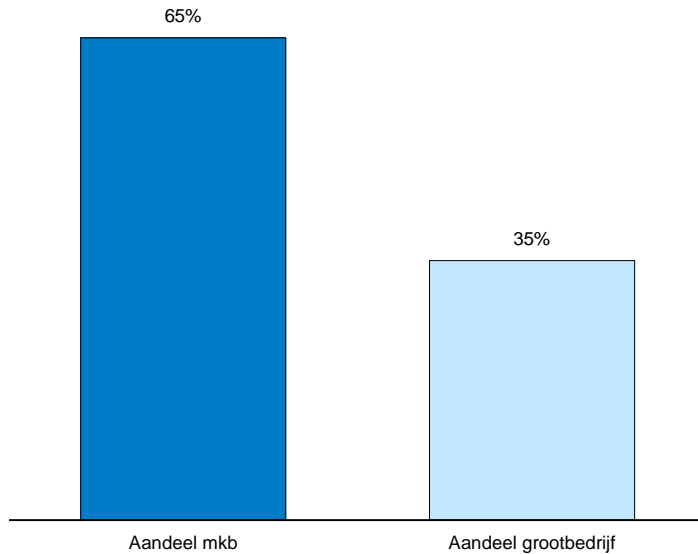


From 2014 a decline in government funding for RTD...

... this decline is due to an overall decline of direct government funding

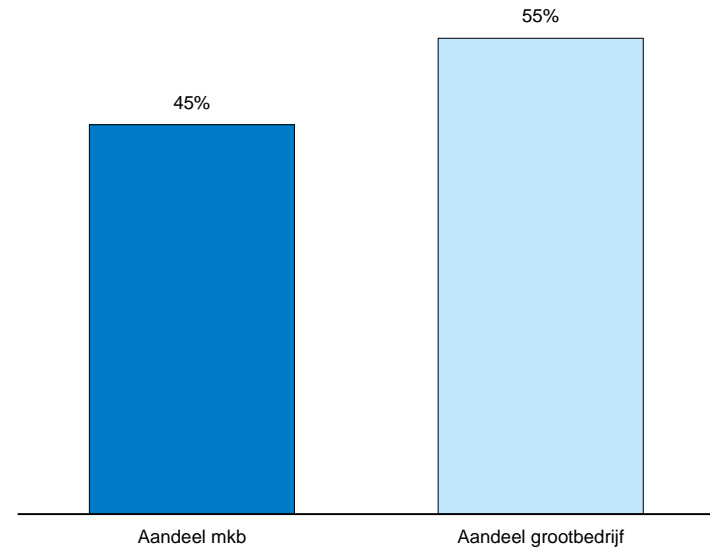
> 50% of innovation instruments to SME

Budget innovatie-instrumenten ten gunste van bedrijven verdeeld naar mkb en grootbedrijf (op basis van gebruik in 2014)



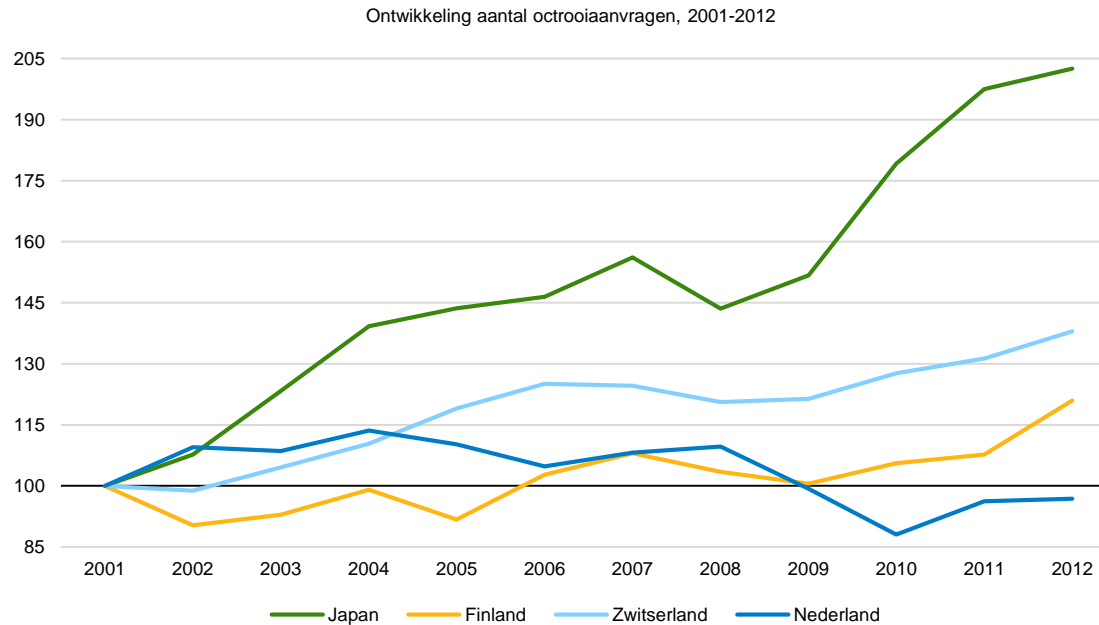
65% of the budget of innovation instruments goes to SMEs ...

Privaat uitgevoerde R&D in Nederland, verdeeld naar mkb en grootbedrijf (2013)



... 45% of RTD in the Netherlands by SMEs

Growth patent applications from 2010



Between 2008 and 2010 decline in number of patent applications ...

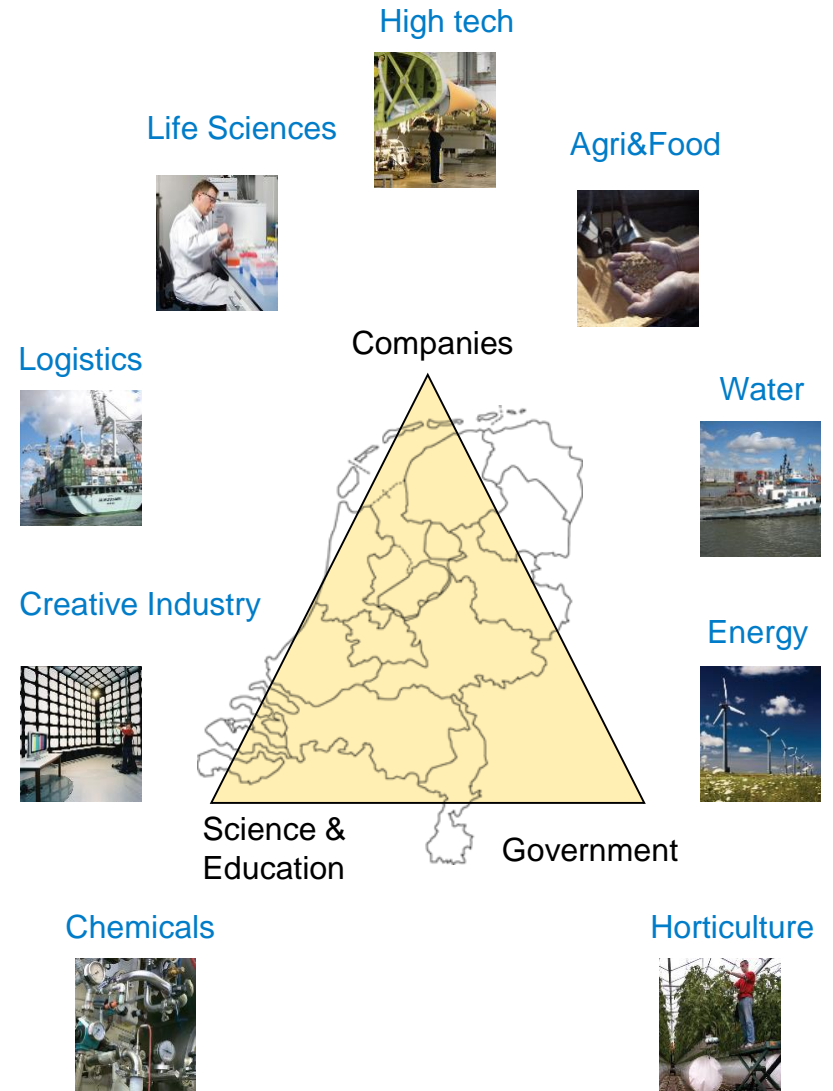
... from 2010 onwards the number of patent applications in the Netherlands is rising

NL Industry & Innovation policy: Life Sciences & Health (LSH) appointed by the Dutch government as priority sector.

- Approach: integral, demand-driven solutions that contribute to health & wellbeing in the broadest sense.
- Public Private Partnerships: top teams formed with representatives of Industry, Academia and Government

Strengths

- Healthy ageing: self management & regenerative medicines
- Medical Devices
- Personalized nutrition
- E-health
- Personalized medicines



DUTCH HEALTH CARE: high quality, accessible and affordable

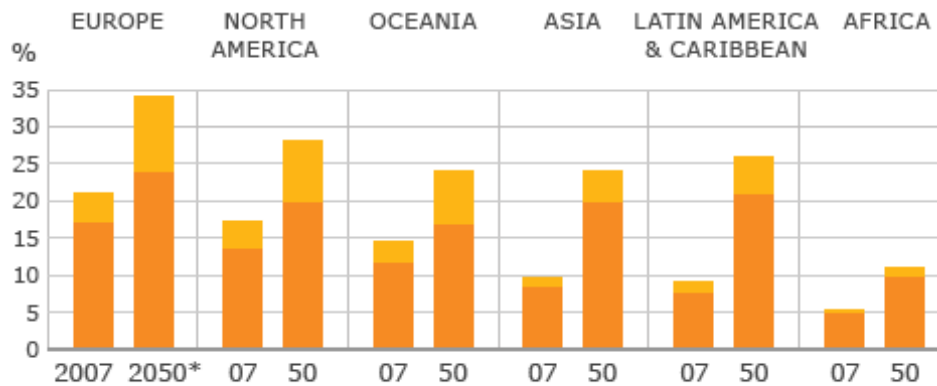
- Euro Health Consumer Index has ranked The Netherlands #1 in Europe several years in a row. We also outrank the United States, Australia & Canada, and New Zealand in comparative studies.
- Strong primary and outpatient care
- Delivered at a relatively low cost
- Excellent healthcare & R&D infrastructure
- Strong knowledgebase

Shared global societal challenge

keeping healthcare systems sustainable with an aging population, lifestyle change, and a rising burden of chronic disease.

Global population is living longer

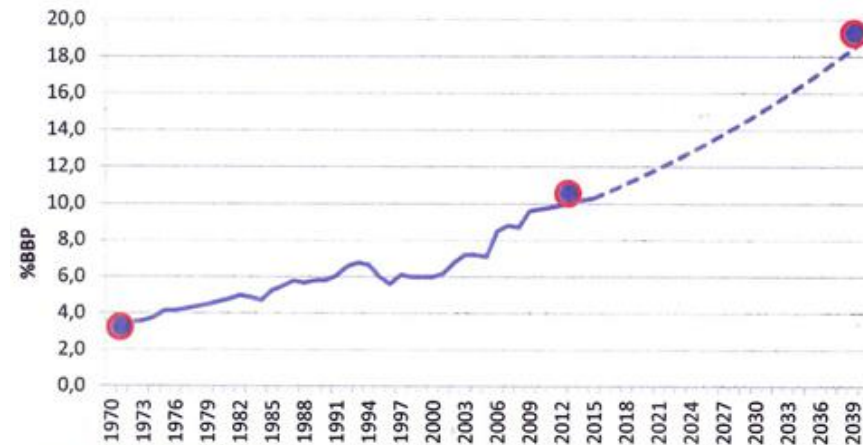
60-80 year olds Over 80s (as % of total population)



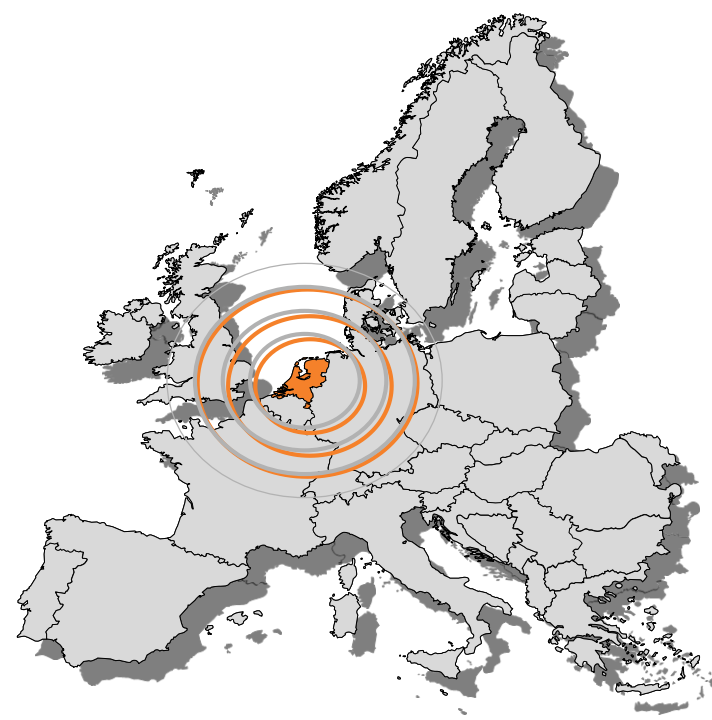
*2050 (prediction)

Source: UN

Rising costs of healthcare as a percentage of GDP



Knowledgebase



THE NETHERLANDS

The world's most concentrated life sciences cluster

1200 biotech companies

8 university medical centers

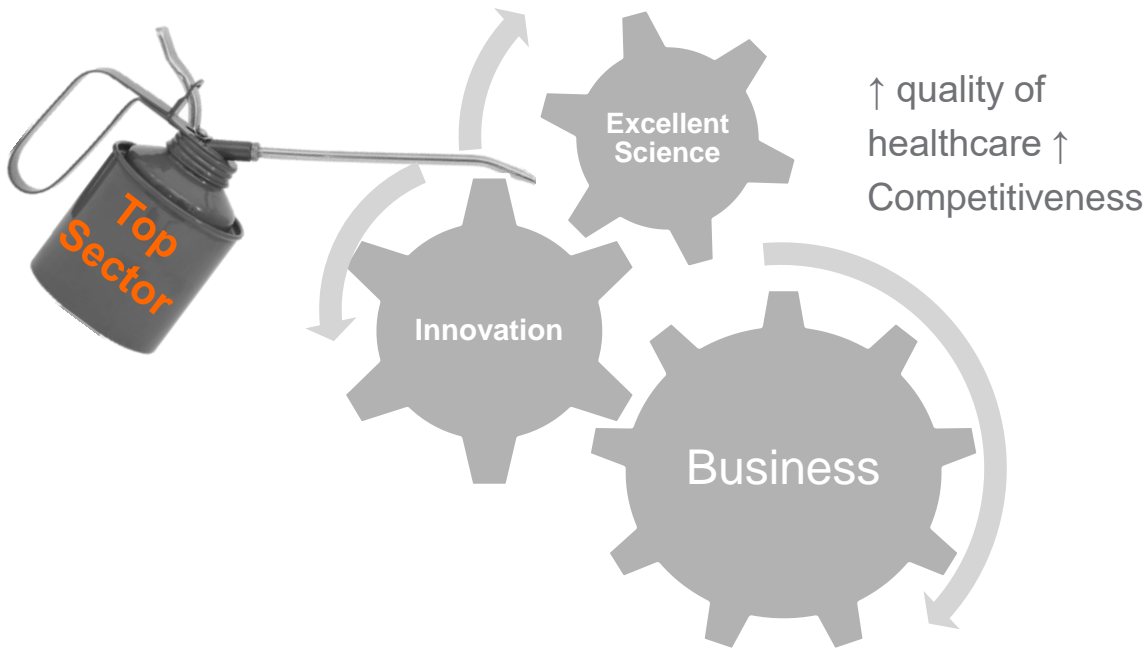
12 universities engaged
In biomedical research

...All within a **120** mile radius!

- 2nd world wide in Cardiovascular research
- 2nd world wide in Rheumatology
- 2nd world wide in Neurodegenerative Diseases
- No. 1 in Europe in Oncology
- Leading position in Diagnostics and Imaging

Top Sector Life Sciences & Health: *a facilitator*

Public Private Partnerships: *vital functioning citizens in a healthy economy*



PPP's: Position the Netherlands as the place to be for business and innovation

- Oncology
- Medical Devices (IMDI)
- Regenerative Medicine (Regmed XB)
- One Health (NCOH)

Shared Challenges – Smart solutions

The Portable Artificial Kidney

<https://youtu.be/ht2YGRZPjms>

- Partnership that Aims to improve the quality of life of 2,5 million kidney patients worldwide by making dialysis available for all through the development of a portable artificial kidney.
- the Dutch Kidney Foundation, TNO, Twente university, Maastricht university and University Medical Center Utrecht with Debiotech and AWAK technologies.
- Dutch Health Insurance companies Zilveren Kruis, Menzis and CZ announce Investment of 6,4 mln. euro to accelerate development and ensure a smooth adoption of the innovation after clinical trials (08-07-2016)

Health Deals

- New instrument of Ministry of Health and Economic Affairs to reduce barriers for the application of innovations in the healthcare sector
- 1st deal signed last week on the 8th of June
- Decision Support Systems for personalised medicine - oncology
- IBM and several leading dutch cancer hospitals



Shared Challenges – Smart solutions

Magic Table

<https://www.youtube.com/watch?v=77QStv3OF68>

- Cross over between the topsector Life Science & Health and Creative Industry focused on wellbeing of people with dementia