



# **Innovation for Future Health – Vinnova in Life Sciences**

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# Vinnova in brief

- Swedish government agency working under the Ministry of Enterprise
- During 2015 the funds for Research and Development was 2,6 billion SEK.
- National responsibility for providing information and advice regarding the EU's Framework Programme for Research and Technical Development
- Over 200 people work at Vinnova's offices in Stockholm and Brussels
- Our Director General is Charlotte Brogren



# Three roles

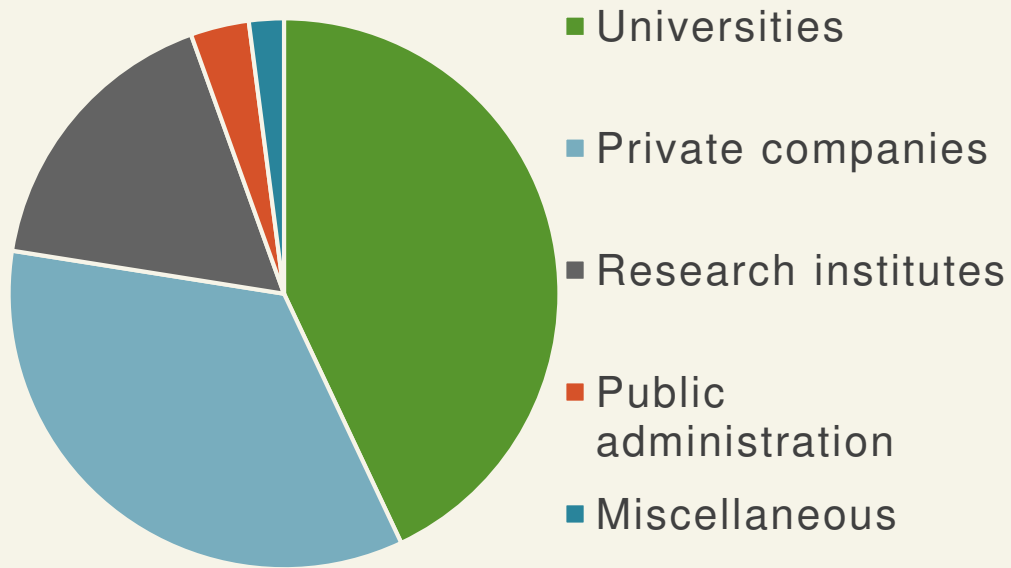
Funding Research &  
Innovation



National EU  
Contact Agency

Expert  
Agency

# 2,6



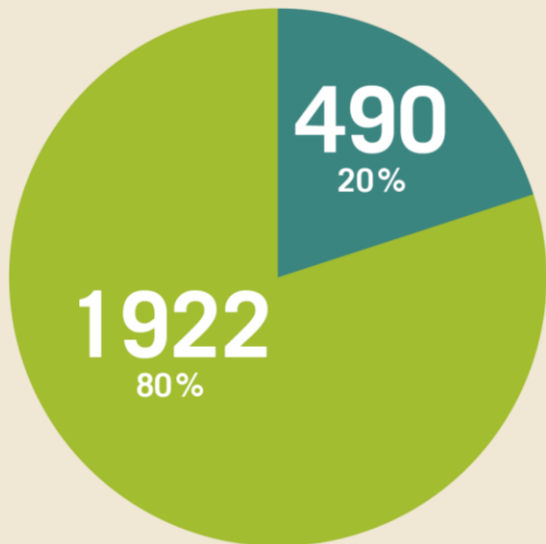
# Health and Life Science at Vinnova 2016 Challenges

- Ageing population
- Increase in chronic and lifestyle diseases
- Antimicrobial resistance
- Non-compatible IT-systems

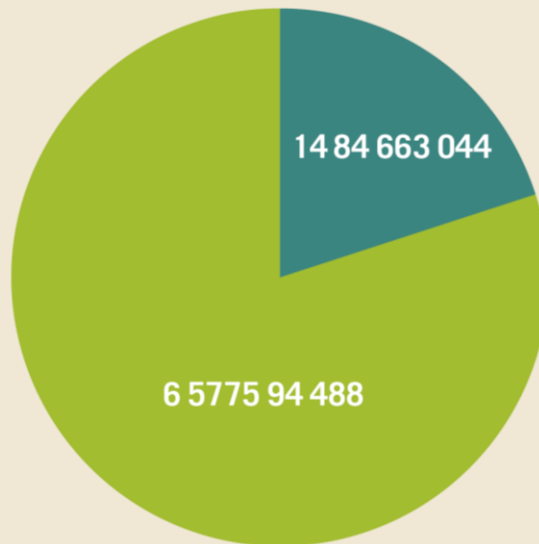


# Projects with relevance for health and life science

Antal projekt



Total finansiering, SEK



Projekt med relevans för hälsa  
Övriga projekt

# Meeting health challenges through innovation



**Efficiency and  
quality-driven health-  
care and social care**



**Competitive and  
innovative business  
sector**



**Collaborative  
ecosystem**



**20 testbeds and  
innovation hubs**



**Innovation  
management**



**Reimbursement  
models**



**The digital  
paradigm shift**



## Swedish Testbed for Innovative Radiotherapy

**A combined magnetic resonance scanner and radiotherapy treatment unit at Uppsala Hospital. This will be one of the first installation in the world of this next generation radiotherapy treatment unit, developed by Elekta, Siemens, ScandiDos, Cureos, Micorpos Medical, Gold Anchos.**



# AstraZeneca BioVentureHub

## - a novel Public-Private-Partnership model



- Established in 2014 with the aim to stimulate competitiveness in the life science industry
- Currently 17 small companies and 1 academic group
- Emerging life science companies and academic groups on AstraZeneca Gothenburg R&D site
- Rental agreement with full independence
- Open doors
- Possibilities to access AstraZeneca skills and infrastructure
- No strings attached – cost neutral to AstraZeneca via external funds



### Investors



Carl Bennet AB

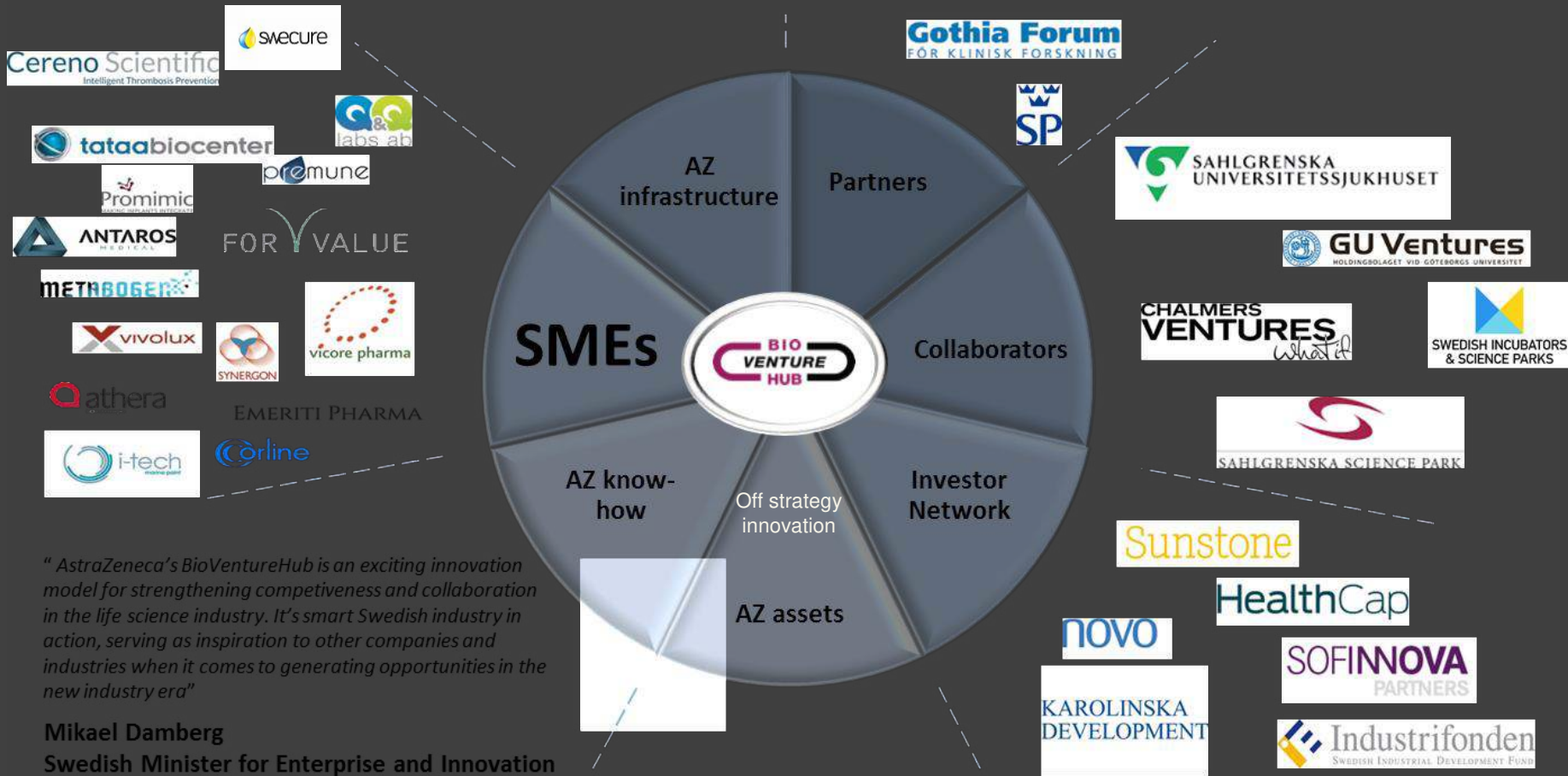


Göteborgs  
Stad

[www.azbioventurehub.co](http://www.azbioventurehub.co)



# A catalyst for life science innovation



*"AstraZeneca's BioVentureHub is an exciting innovation model for strengthening competitiveness and collaboration in the life science industry. It's smart Swedish industry in action, serving as inspiration to other companies and industries when it comes to generating opportunities in the new industry era"*

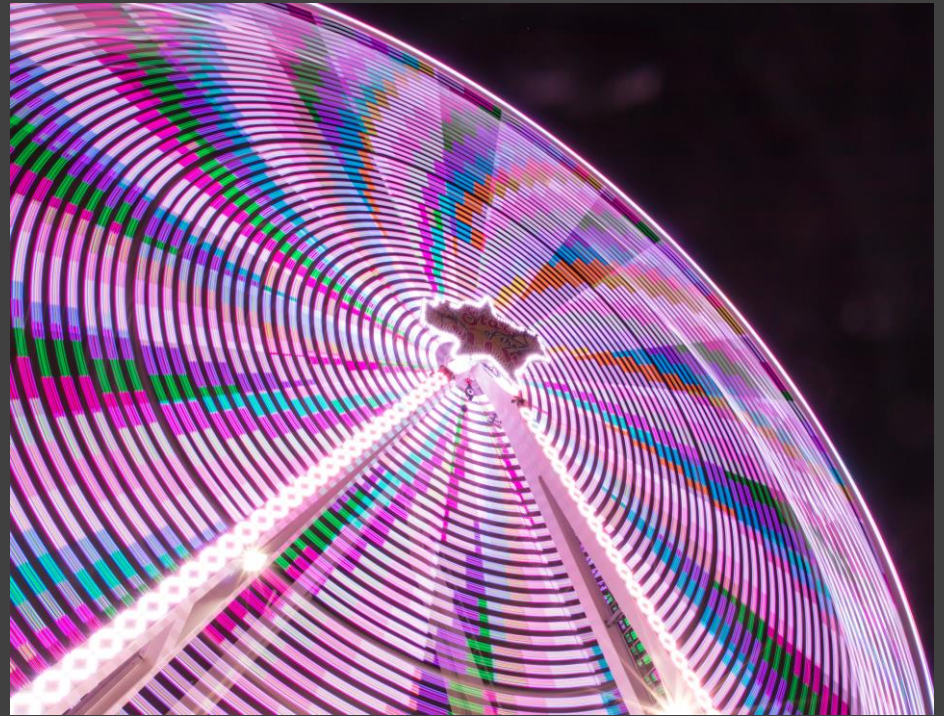
**Mikael Damberg**  
 Swedish Minister for Enterprise and Innovation

# Spin-Out – a pioneering model for collaborative innovation

**Background** – As part of its innovation partnership program, the Swedish government wants to see more life science companies in Sweden.

**AstraZeneca and Vinnova** are collaborating to develop a new innovation model to make it possible to breathe life into projects and innovations that established companies, for various reasons, have decided not to commercialize.

**How?** – By recycling non-commercialized innovations, that have value, in the form of new companies.



## Innovative SMEs

Programme innovation projects in companies finance the development of business concepts with great international potential of applying new knowledge or new technology. Projects must be in an early phase of development where commercial and development risks remain. The aim is for companies to attract resources to complete the development of the business concept.

[www.vinnova.se/smf](http://www.vinnova.se/smf)

# Eurostars

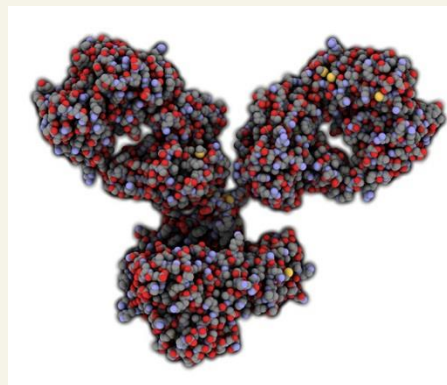
For SMEs with their own research and supports market-oriented R & D projects with partners from at least two countries

[www.vinnova.se/smf](http://www.vinnova.se/smf)



# Next-generation biologics

# ”to take the lead in research and production of biopharmaceuticals”





# A billion SEK investment

- Swedish government and participating companies  
400 MSEK
- Knut and Alice Wallenberg foundation, universities  
and AstraZeneca 510 MSEK

*Knut och Alice  
Wallenbergs  
Stiftelse*

AstraZeneca 




  
REGERINGSKANSLIET  
Government Offices  
of Sweden

# Challenged driven innovation:

- VINNOVA has identified four societal challenges where Sweden is considered to have good potential for international leading innovation of which is the Future Health Care. Challenges for the Future Health Care The good health of the population and a functioning health care for all are key requirements for sustainable growth.  
[www.vinnova.se/udi](http://www.vinnova.se/udi)



## Digipat – Optimized workflows and IT tools for digital pathology

-  Increased patient safety through faster and high-quality diagnosis
-  IT tools for digital pathology that can provide groundbreaking improvements with respect to efficiency and quality of care
-  Counties, hospitals, laboratories, medtech companies, universities and research institutes

CHALLENGE 2015-2017

Future  
Healthcare

STEP





**Stakeholder  
driven**

**Open to all**

**Joint  
vision and  
objectives**

**Long term  
investment**

**Inter-  
disciplinary**

**Research and  
innovation**

**STRATEGISKA INNOVATIONSPROGRAM**

**Renewal**

# 100

SWElife

Medtech  
4Health

MSEK per year building  
future health innovation



**SWElife**

National Innovation Program for  
a competitive life science  
ecosystem in Sweden

Goal: National use of expertise  
and resources

Evidence- and value-based  
healthcare and personalised  
medicine in practice

Swedish healthcare has  
introduced and established  
more value-creating innovations

Life Science in Sweden is  
internationally competitive

Increasing research and  
development in Life Science in  
Sweden.

[www.swelife.se](http://www.swelife.se)



# Medtech4Health

National innovation program that supports medical innovation in Sweden.

Goal: Contribute to improvements for patients and health care at the same time lead to industrial growth and increased exports.

[medtech4health.se](http://medtech4health.se)



**Think differently**



Swedish Governmental Agency  
for Innovation Systems