



The Swedish Innovation System and ESS

Peter Eriksson, Vinnova



About VINNOVA

- 200 employees
- Stockholm, Brussels and Silicon Valley
- Government agency under the Ministry of Enterprise and Innovation

Three roles



Investment in
research and
innovation

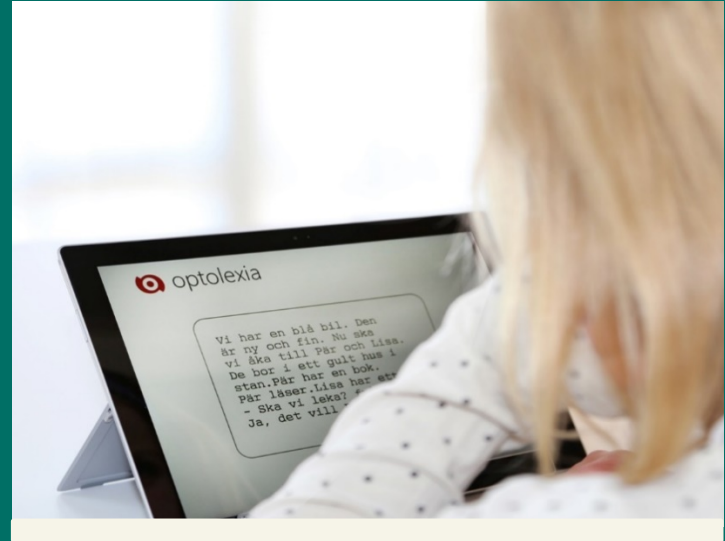


National EU node



Expert agency

We ensure research is utilized and relevant to society





Innovations often arise in collaboration
— we make this possible

A man in red shorts is captured mid-jump from a wooden diving board. The board is made of weathered wood and extends from the left side of the frame. The man is shirtless and has his arms outstretched. Below the board is a calm lake, and in the background, there is a line of green trees under a blue sky with scattered white clouds.

We provide opportunities for
daring to test new ideas before
they are profitable

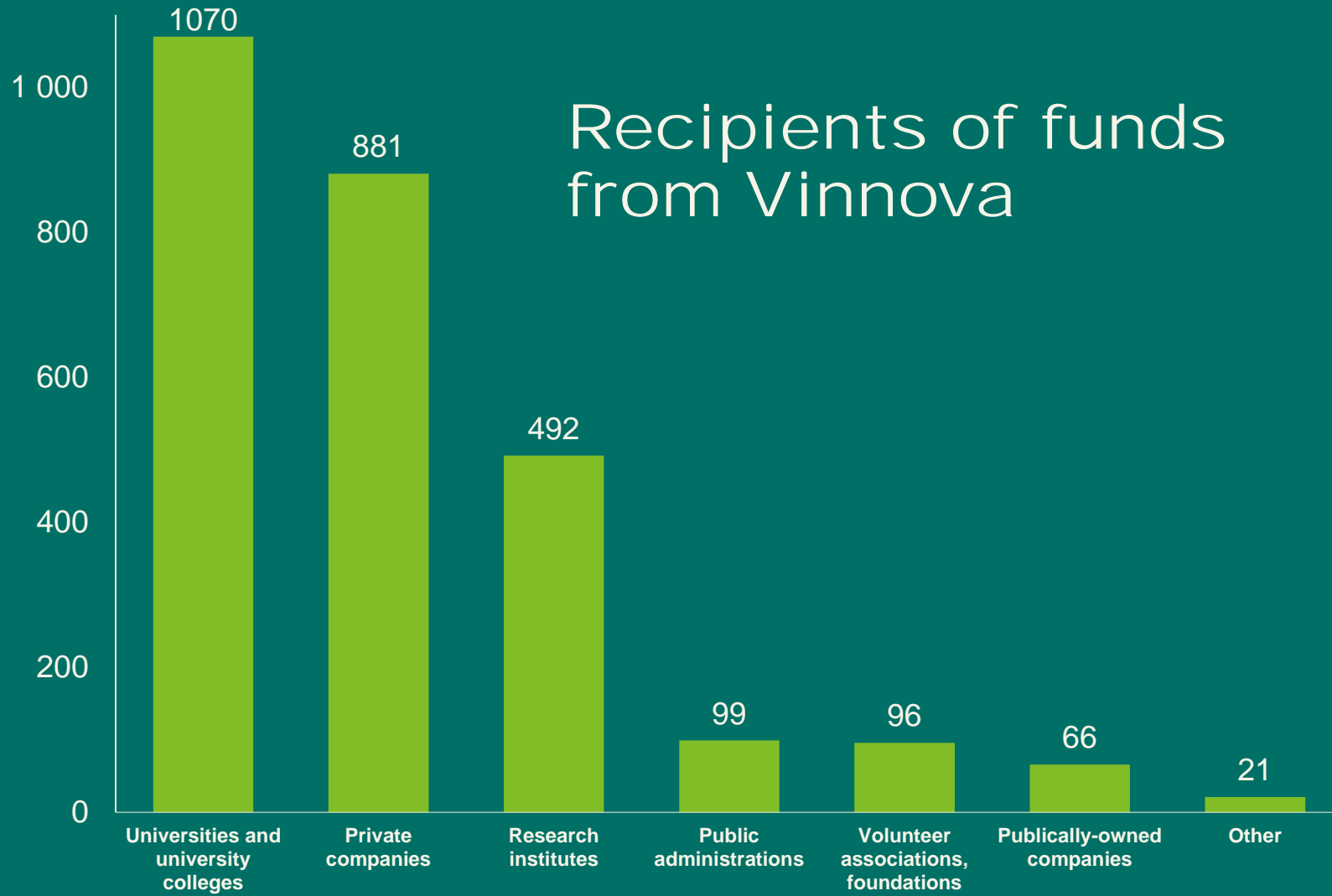


2.9 billion SEK

invested by Vinnova in research
and innovation in 2016

Source: Annual Financial Report 2016

Recipients of funds from Vinnova



A photograph of two women in a field. The woman on the left has long brown hair and is wearing a yellow scarf. The woman on the right has short brown hair and is wearing a black jacket and red and white striped gloves. They are both looking at a large, light-colored pumpkin in the foreground. The background shows a field with green plants and a cloudy sky.

2984

funded projects

Source: Annual Financial Report 2016

VINNOVA



3,3%

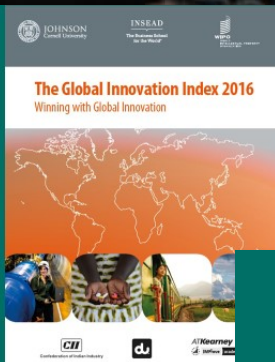
of GDP equivalent to annual
R&D investment in Sweden



A top nation for innovation

The Global Innovation Index 2016

1. Switzerland
2. **Sweden**
3. United Kingdom
4. United States of America
5. Finland
6. Singapore
7. Ireland
8. Denmark
9. Netherlands
10. Germany



The European Innovation Scoreboard 2016

1. **Sweden**
2. Denmark
3. Finland
4. Germany
5. Netherlands
6. Ireland
7. Belgium
8. Great Britain
9. Luxembourg
10. Austria



The Global Competitiveness Report 2016 - 2017

1. Switzerland
2. Singapore
3. United States
4. Netherlands
5. Germany
6. **Sweden**
7. United Kingdom
8. Japan
9. Hong Kong SAR
10. Finland



Some areas of focus...



SWElife



Medtech4Health



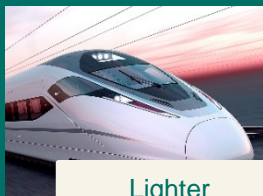
Innovair



Smarter
Electronic
Systems



Swedish Mining and Metal
Producing Industry (STRIM)



Lighter



InfraSweden2030



Process Industrial IT and
Automation (PiiA)



Production2030



Metallic Materials



IoT Sweden



SIO Grafen



Smart Built
Environment



RE:Source



Drive Sweden

Strategic Innovation Programmes



Smart and
sustainable cities

Challenge-Driven Innovation

Global societal challenges threaten our future, while creating demand for innovative solutions.

Projects in the programme Challenge-Driven Innovation find solutions to problems and create sustainable growth.



The public sector – a driver for innovation

We are working to stimulate and enable investments in research and innovation activities in the public sector.



Innovative small and medium-sized enterprises

We are strengthening research and development by funding innovation in early stages and promoting new cooperations.



EU and international cooperation

We strengthen international collaboration by Swedish innovation actors to enhance their competitiveness and Sweden's attractiveness for investments.

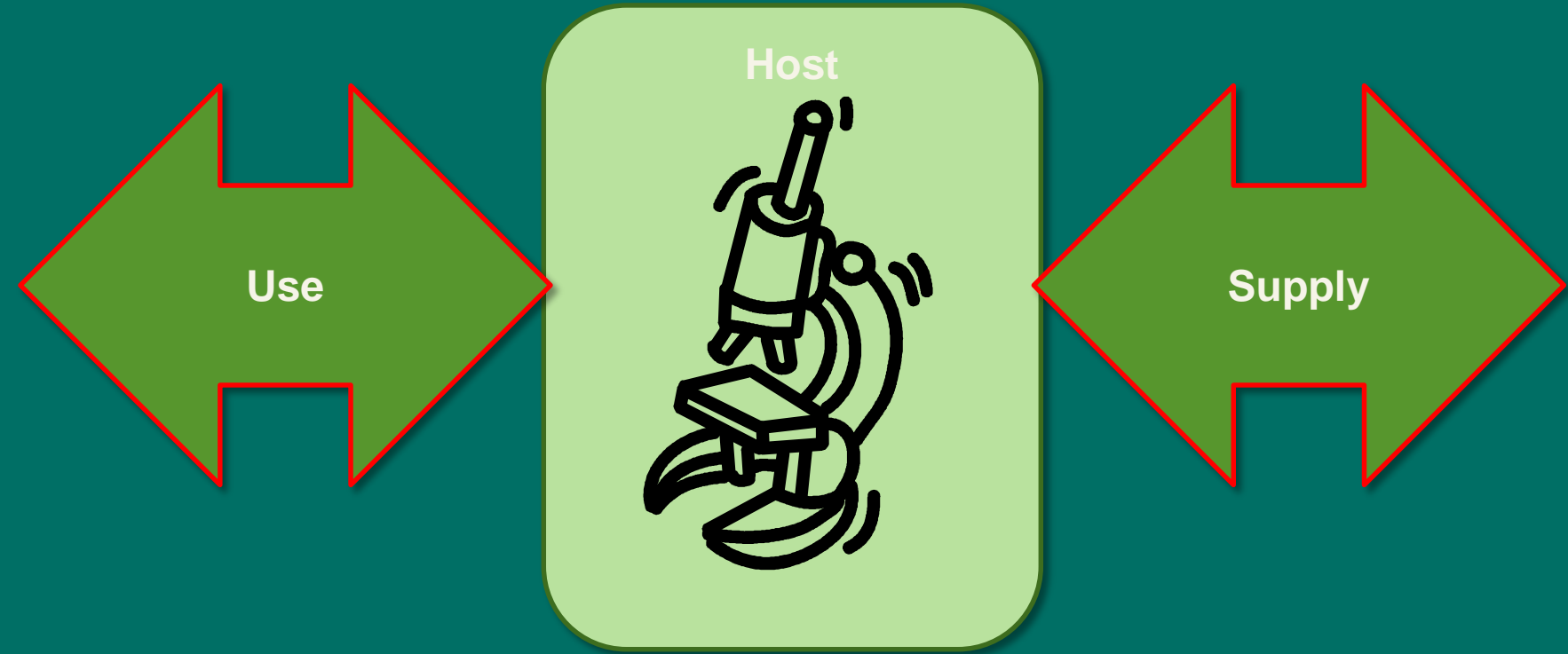
What about Vinnova and
ESS?



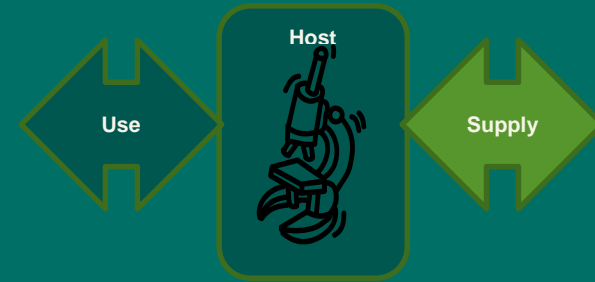
Assignment to increase cooperation between industry and research actors with the aim of increasing Swedish business involvement in the construction and use of research infrastructures.

...

Big science - Innovation enabler

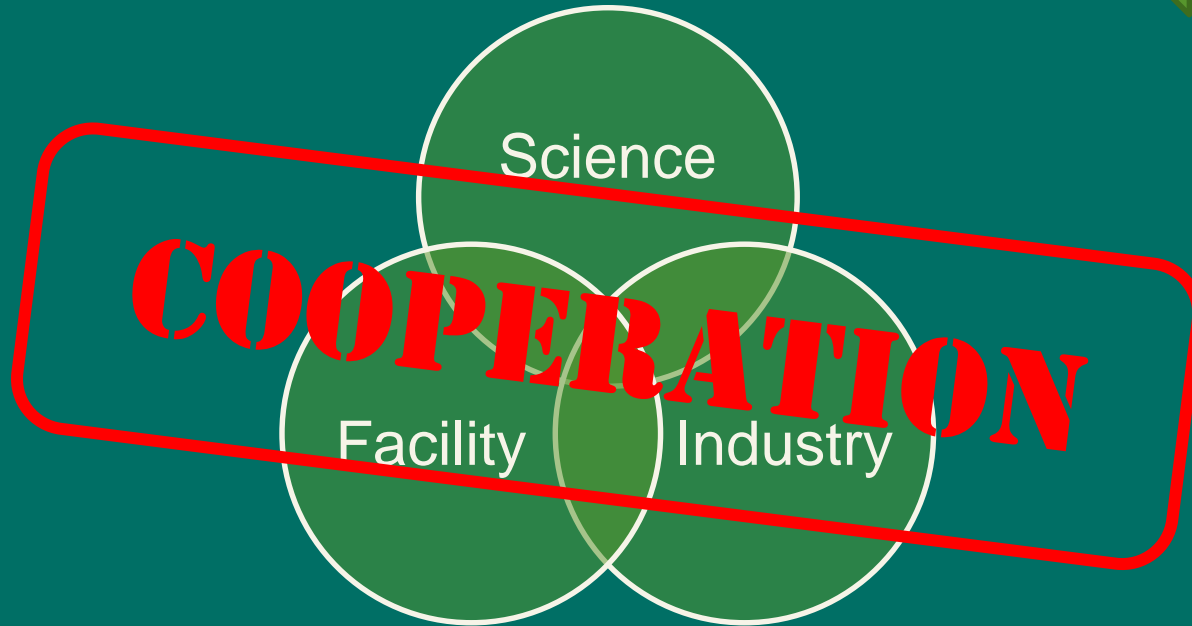
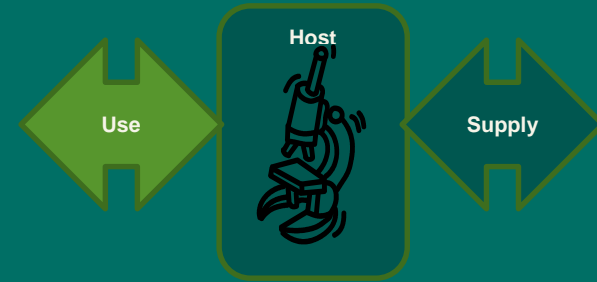


Supply



Vinnova assignment - Swedish Industrial Liaison Office.
Creating **Big Science Sweden** with a network of partners
Vinnova.se/ilo

Use



Translate Industry and public **needs** to scientific questions.
Creating networks of partners and connection existing relevant networks
Projects, Intermediators, Industrial PhD, ...

Host

- Attractiveness and opportunities
- Many ongoing initiatives and future plans

Connect and catalyze to find new forms of collaboration to increase the ability to explore the full potential of research facilities and support through our existing initiatives

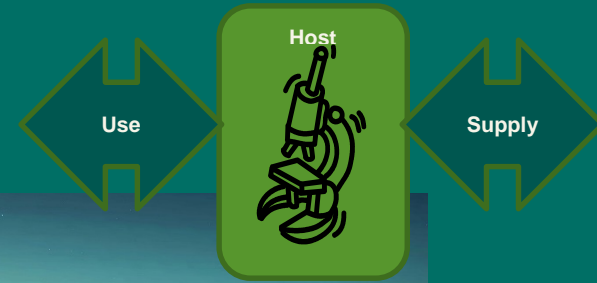
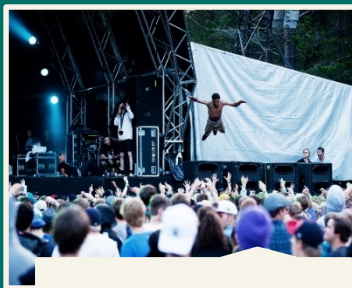


Bild: COBE

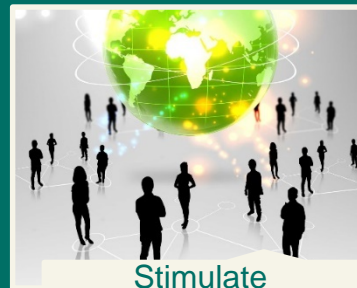
Vinnova tactics



Dare to experiment



Trust the actors



Stimulate
international
connectivity



Encourage
collaboration



Addressing societal
challenges

A large, vibrant red umbrella is positioned in the center of the frame, standing out prominently against a background of numerous black umbrellas. The umbrellas are all open, creating a dense, overlapping pattern of geometric shapes. The lighting is soft, highlighting the texture of the umbrella fabric and the sharp edges of the ribs. The overall composition is centered and balanced, with the red umbrella acting as the focal point.

Think differently



Swedish Governmental Agency
for Innovation Systems