



Swedish Governmental Agency for Innovation

Dan Andrée
Head of Brussels Office

VINNOVA in brief

- **VINNOVA** – the **Swedish Governmental Agency for Innovation** under the Ministry of Enterprise
- About **200 people** work at VINNOVA's offices in Stockholm, Brussels and Silicon Valley
- Annual budget of **300 million Euros** invested in innovation projects in all sectors of society.



VINNOVA's three roles:

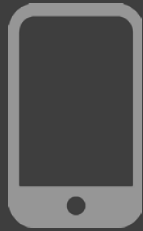
**Funding
Research & Innovation**



**National
EU Contact
Agency**

**Expert
Agency**

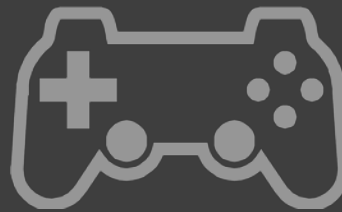
Connect



Stimulate



Catalyze



Support



How?



VINNOVA's programme: Challenge-driven innovation

From technology and sectors to social challenges



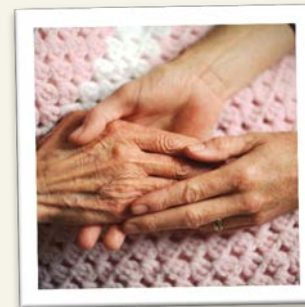
Bild 6



**Sustainable
attractive cities**



Information Society 3.0



Future health care

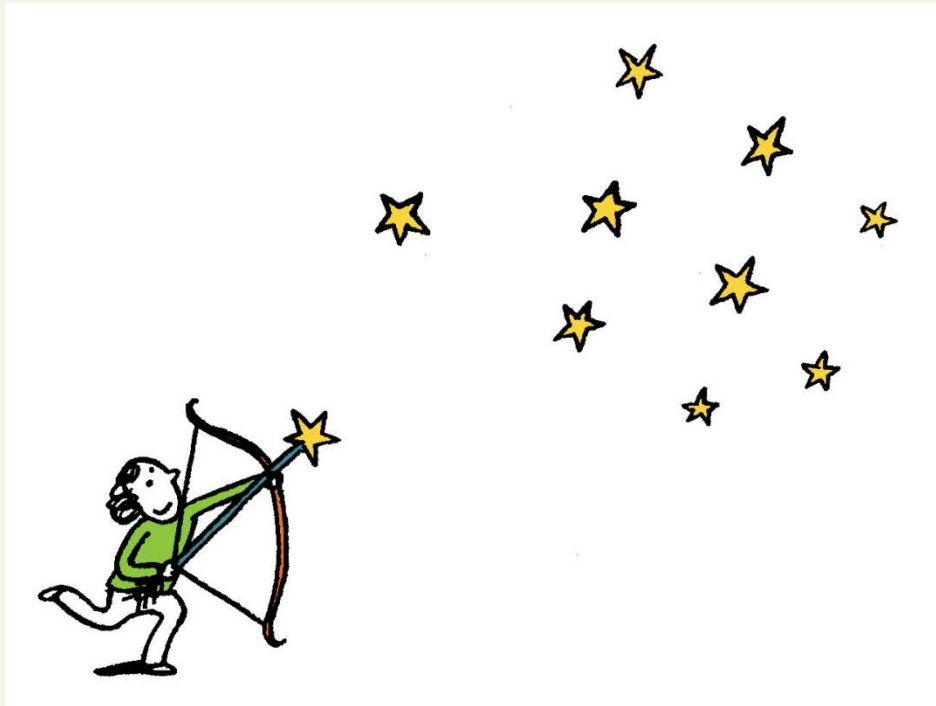


**Competitive
production**

How can the sustainable city be built in cold climate?

Attractive and Sustainable Cities in a Cold Climate), which is run by Luleå University of Technology, is aimed at the development and testing of commercial products products and services for the construction of sustainable, attractive low-energy buildings and outdoor environments in a cold climate.

Kiruna/Gällivare



Challenge-driven innovation – started in 2011



Strategic innovation areas – started in 2012

Our new system tools

Program logic: three-stage process

Initiation

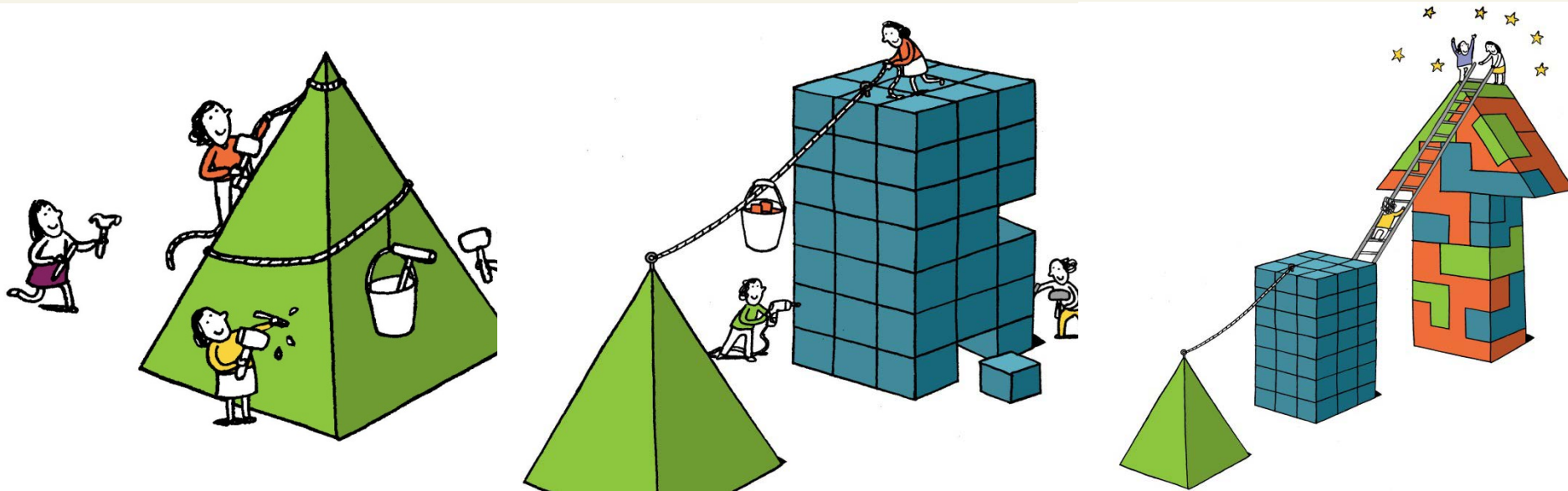
Develop idea and consortium or technical feasibility study (approx. 8-9 months)

Collaboration

Development and integration, restricted tests, user involvement (approx. 2.5 years)

Implementation

Full-scale tests in real environments, demonstrate, user involvement, (2 years)



A national effort in two parts

-  **Strategic innovation agendas** where actors within an area form a vision, goals and strategies in collaboration.
-  **Strategic innovation programmes** to realize the visions and goals of the strategic innovation agendas.

Strategic innovation programmes started



- Metallic material
- Mining and metal production
- Industrial process automation
- Lightweight materials
- Production
- Aerospace



STRATEGIC RESEARCH AND INNOVATION PROGRAMME FOR THE SWEDISH MINING AND METAL PRODUCING INDUSTRY

VINNOVA – 10 M€ (50%) – 2013 – 2016

1ST CALL: 10 PROJECTS – TOTAL <3 M€ (VINNOVA)

The anticipated effects of the Strategic Mining and Metallurgy 2013–2016 programme:

- **Sweden** with a main academic node at LTU has become a **well-known and appreciated EU research and innovation partner** for mineral and metal extraction
- The **Swedish mining cluster has been strengthened** and the technology providers offer new or improved products and services
- The **environmental footprint has been reduced** by lower emissions and improved resource and energy efficiency
- The **mining and metal producing sector has become more attractive for young talented men and women**
- The **global competitiveness and sustainability of the Swedish mining and metal producing sector has been further strengthened**, thereby growing in harmony with society and the environment

Organisations supporting

Industry:

ABB

Atlas Copco

Boliden

LKAB

Lunding Mining (Zinkgruvan AB)

Raw Materials group

Sandvik

SKB

Stena Recycling

Roch Tech Center

Academia

Luleå University of Technology

Umeå University

Uppsala University

Public organisations

Geological Survey of Sweden

Research Institutes

SWEREA Mefos

SP

NGO:s

Bergkraft

Georange

Other agendas: industrial process automation



Process Industrial IT and Automation (PiiA) - VINNOVA, the Swedish Energy Agency, Formas and industry for the period 2014-2016 of about a quarter of a billion SEK.

Purpose: to foster growth by strengthening the Swedish process industry and developing their capacity for innovation. This is achieved through collaboration between three key players: End users in the process industry, its suppliers, and academia.

Kempestiftelserna, ABB, Boliden, LKAB, SCA, SSAB

A Research and Innovation Agenda for Minerals, Aggregates and Stone

- Measures to create a long term sustainable supply of construction materials for society and of mineral based products for important industrial processes
- Material supply with best available techniques, energy efficiency, environmental consideration and safety R&D, technical development and competence for the future
- Domestic and international co-operation

FP7

ERA-MIN Members

Currently 13 members from 10 countries

The ERA-NET instrument supports public-public partnerships including topping up of single joint calls and of actions of a transnational nature.



Insert your own
organisation's logo

About ERANET: ERA-MIN

ERA-MIN is an ERA-NET program on the **Industrial Handling of Raw Materials** for European industries, supported by the European Commission's 7th Framework Programme. The project is coordinated by France.

Goals

- **setting up networks** and mechanisms to foster research on industrial production and supply of raw materials, in line with the “EU Raw Materials Initiative”
- **overcoming the current fragmentation of research** by developing convergence and synergies at EU level between (inter)national research programs and industry

Horizon 2020

79 billion €

The basics - three priorities



Excellent
science

Industrial
leadership

Societal
challenges

Horizon 2020 – Strategic programme 2014-2016



- Exiting the current economic crisis
- Areas of high EU added value
- Integrated approach,
- focusing on parts of the societal challenges with **high potential for sustainable competitiveness, innovation and growth;**
- boosting the industrial deployment of **enabling technologies;**
- **12 Focus** areas (societal challenges/industrial technologies)

Is not a research
programme but a political
instrument

Horizon 2020

How to develop a strategy?



Strategy for increased participation including how to 'give useful input'

- *Articulate what you would like to achieve (2014-2021)*
 - Strengthen strong areas, broaden to new areas, follow, standardisation,
 - Synergies/leverage with national programmes and other activities
 - Take into account EU-policy
- National networks – platforms
 - Partners from earlier projects
 - Regional/new actors – local authorities
 - Strategic Research/Innovation Areas
 - National platforms (EU-Sam)
 - National delegates to Programme Committees, NCP
- European Networks and Alliances
 - EIP, ETP, JPIs, SET-plan, European interest organisations
 - Partners, Bilateral contacts, Advisory Groups
 - Key persons in the European Commission

Strategy for increased participation including how to 'give useful input'

- Articulate what you would like to achieve
- National networks – platforms
- European Networks and Alliances
- Strategy (Biennial Work Programmes)
 - Identify areas in the H2020
 - Participate and/or lead?
 - Missing areas?
 - Proactive input to the Commission



Meetings with Policy
DGs and RTD



Through
European
networks/platforms



Contacts
Advisory Groups (AG)



Seminars/WS in
Brussels



Contacts with
Programme Committee
members and reference
groups



Pros and cons: NO
rules

How?



Image courtesy of Stuart Miles / FreeDigitalPhotos.net

VINNOVA

Brussels Office

Rue du Luxembourg 3, 1000 Brussels

- Discussion partner
- Contacts
- Seminars and Workshops
- Interface with Sweden