VINNOVA develops Sweden’s innovation capacity for sustainable growth

- A Swedish Governmental Agency working under the Ministry of Enterprise
- During 2014 the funds for Research and Development are SEK 2,8 bn (Euro 300 m)
- National responsibility for providing information and advice regarding the EU Horizon 2020
- About 200 people work at VINNOVA’s offices in Stockholm and Brussels

Lars-Gunnar Larsson
VINNOVA’s role
Connect, Catalyse & Stimulate
2404 million kronor invested by VINNOVA in Swedish R&I in 2013

DISTRIBUTION BY SECTOR

- Universities: 1,050
- Private companies: 666
- Research institutes: 354
- Public administration: 130
- Miscellaneous: 204

(million SEK)
Innovation Performance Review of Tajikistan

Chapter 4 "Knowledge generation and innovation support institutions"

Chapter 5 "Industry-science linkages and collaboration in the innovation process"
I agree fully upon the conclusions and recommendations made by professor Radosevic and Ms Inzelt.

and I would like to give some examples inspiring Tajikistan how to strengthen the innovation capacity and competitiveness.
Preconditions

- Institutional and legal framework; including IPR, investment conditions, employment rules, government service, (i.e. low transaction cost)
- Education; high quality and needs-driven
- Attractive place to live in and to move to (people, money, firms)
- Etcetera.
Starting point – what will you do on Monday?

Innovation System Analysis based on the Innovation Performance Review

i.e. from statistics to concrete information about all relevant actors in the innovation system, including the innovation support system, and the relation between them.

Sector by sector, product segment by product segment, value chain, region by region or any other grouping. But focused.

Engage some few relevant stakeholders – all are welcome but……

The result could be an agenda for change and action or just a map of actors
The innovation system must be tight!
Smart Specialisation Strategy

Innovation-driven development strategy focusing on regional strength/competitive advantage

- Focus on private R&I investments, SMEs in particular
- Specialising in a smart way, i.e. based on evidence and strategic intelligence about a region's assets
- Looking beyond boundaries, positioning region in global context
- International differentiation strategy to attract investments
- Not necessarily new for regions, but needs to be reinforced across all regions

Constructing regional advantage and promoting ‘related variety‘ for regional development

- Supports the integration and exploitation of all sorts of R&I assets
- Promotes ‘related variety‘ by focusing on cross-sectoral linkages
- Emphasis on interregional connections and the EU dimension
Recommendations to Swedish regions

Monitoring and Evaluation - clearer intervention/programme logics

Analysis - existing material, but focus on opportunities + more outward looking

Policy mixes are still generic, need to be further adapted to the needs of priority areas

Governance - broader stakeholder inclusion, institutionalise coordination, more coordination of different administrative levels, possibly RIS3 on NUTS2 level?

Priorities - priority areas need to be developed further - improve stakeholder involvement in identification of priority areas
VINNVÄXT – Regional Growth through Dynamic Innovation Systems

Utveckling/mobilisering:
- BioBusiness Arena
- Cloudberry Datacenters
- Urban Magma
- OffshoreVäst
- Stockholm Med-X
- Vehicle ICT Arena

Resultat 2003-2013
- 430 nya varor
- 239 nya tjänster
- 193 nya processer
- 516 nya prototyper
- 289 nya företag
- 138 nya patent
- 115 nyetableringar & expansions-investeringar
- 778 vetenskapliga publikationer

>800 företag deltar aktivt i projekt

2015-06-11
VINNVÄXT – Regional Growth through Dynamic Innovation Systems
VINNVÄXT – Regional Growth through Dynamic Innovation Systems

**Strategy**

- Support the development of strong research and innovation environments
- Stimulate Triple Helix based regional partnerships to enhance the innovation system in Swedish functional regions to an international level within specific areas of strength
- Be a catalyst for coordination of resources
National effort

Better co-ordination and co-operation between:
- Government agencies' efforts within research and innovation
- Corporate research and innovation
- Research and innovation milieus
- Public funding
- EU funding
Grand challenges – opportunity for growth

- Environment
- Health
- Ageing population
- Globalization

Challenge-driven innovation
Grand challenges – opportunity for growth

Public sector as Driver for innovation and growth

Ageing population

Globalization

Challenge-driven innovation
Grand challenges – opportunity for growth

Innovative public procurement
Innovation public procurement

Ageing population

Globalization

Challenge-driven innovation
THE INNOVATION PYRAMID

Our proposal is aimed at businesses that want to climb the innovation pyramid. Increased R&D collaboration with external parties or within the company itself will allow companies to strengthen their capacity for innovation.

Innovation means knowledge that is turned into new value. It is about developing projects, services and organisations in both the private and public sectors.

Innovation leader 5%
- Introduces process innovations, new products or services
- The innovations are based on the company’s own capacity
- Always own R&D

Developer 17%
- Makes process innovations or develops products and services that exist or are known on the market
- The innovations are, in most cases, made in cooperation with external R&D actors
- Often own R&D

Adapter 21%
- Adapts products and services that exist on the market
- Collaborates with customers and suppliers on innovation
- No own R&D

Follower 31%
- Has innovation-related activities, partnerships and budgets

Non-innovator 26%
- Has no innovation-related activities and partnerships

NB: The process data is from an analysis by the Dutch SMF. No equivalent analysis has been conducted in Sweden. There is, however, reason to assume that Sweden has a somewhat larger share of innovation leaders since the percentage of innovative companies is larger than in the Netherlands.
**Where should the focus be?**

**The Innovation Pyramid**

- **Innovation leader (5%)**
  - Introduces process innovations, new products or services
  - The innovations are based on the company’s own capacity
  - Always own R&D

- **Developer (17%)**
  - Makes process innovations or develops products and services that exist or are known on the market
  - The innovations are, in most cases, made in cooperation with external R&D actors
  - Often own R&D

- **Adapter (21%)**
  - Adapts products and services that exist on the market
  - Collaborates with customers and suppliers on innovation
  - Often own R&D

- **Follower (31%)**
  - Has innovation-related activities, partnerships and budgets

- **Non-innovator (26%)**
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**Innovation means knowledge that is turned into new value.** It is about developing projects, services and organisations in both the private and public sectors.

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**Office of the Chief Scientist**
Some final words

- Trust between actors is crucial
- Leadership – Innovation governance
  Common innovation agenda agreed upon by Business, Academy and the Political leadership.
  Public-Private Partnerships.
- Individuals are more needed than organizations. Bottom-up process with business in the front seat. Top-down connecting, catalyzing and stimulation.
- Focus. Strengthen already strong competence areas (including tacit knowledge).
- Base on innovation system analysis and market conditions (and maybe foresights).
- Universities and research institutes have an important role in the innovation process.
- Welcome foreign companies in the innovation process.
- On-going evaluation and regular assessment of international experts.
- Turning words into action
Thank you!

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