VLAIO-R&D&I

Bernard De Potter
Part I
Institutional landscape
## Strategic Research Organisations

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="imec.png" alt="IMEC" /></td>
<td><strong>IMEC</strong>: nano-electronics and broadband technology</td>
</tr>
<tr>
<td><img src="vito.png" alt="VITO" /></td>
<td><strong>VITO</strong>: sustainable development and cleantech</td>
</tr>
<tr>
<td><img src="vib.png" alt="VIB" /></td>
<td><strong>VIB</strong>: Flemish Institute in Biotechnology – life science</td>
</tr>
<tr>
<td><img src="flanders_make.png" alt="Flanders’ Make" /></td>
<td><strong>Flanders’ Make</strong>: mechatronics, product development methods and advanced manufacturing technologies</td>
</tr>
<tr>
<td><img src="vliz.png" alt="Others" /></td>
<td><strong>Others</strong>: ILVO, VLIZ, ITG, …</td>
</tr>
<tr>
<td>Cluster</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Catalisti</td>
<td>cluster for sustainable chemistry</td>
</tr>
<tr>
<td>SIM</td>
<td>Materials innovation</td>
</tr>
<tr>
<td>VIL</td>
<td>Smart Logistics</td>
</tr>
<tr>
<td>Flux 50</td>
<td>Smart Energy Region</td>
</tr>
<tr>
<td>Flanders’ Food</td>
<td>cluster for agrofood</td>
</tr>
<tr>
<td>Blue Growth</td>
<td>cluster for blue economy</td>
</tr>
<tr>
<td>!! NEW 2018 !!</td>
<td></td>
</tr>
</tbody>
</table>
2018 updated for Smart Specialisation Strategy for Flanders

- Flemish knowledge base (Universities, Strategic research centres)
- Flanders vision 2050 – 7 transition priorities
- Cluster policy for innovation clusters

Policy
Flanders
2050
Business driven roadmaps
5 spearhead clusters
14 innovative business networks
Well established business clusters
Pre-clustering initiatives
# Policy Motives

## Challenges – Opportunities – Failures

<table>
<thead>
<tr>
<th>Market Failures</th>
<th>Structural System Failures</th>
<th>Transformational System Failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Neoclassical model)</td>
<td>(Innovation systems)</td>
<td>(System Innovation)</td>
</tr>
<tr>
<td>Limited Experimental Economy</td>
<td>Infrastructure Failures</td>
<td>Directionality Failures</td>
</tr>
<tr>
<td>Underinvestments in R&amp;D</td>
<td>Institutional Failures</td>
<td>Demand Articulation Failures</td>
</tr>
<tr>
<td>Unaccounted negative externalities</td>
<td>Network Failures</td>
<td>Policy Coordination Failures</td>
</tr>
<tr>
<td>Overexploitation of commons</td>
<td>Capability Failures</td>
<td>Reflexivity Failures</td>
</tr>
</tbody>
</table>

Source: Weber och Rohracher 2012, adapted by Marklund G.
Part II
VLAIO in a nutshell
Wat do we do?

Agency for innovation and entrepreneurship (www.vlaio.be)

- inspire
- inform
- support

sustainable economic growth and job creation
Harmonization funding instruments within VLAIO

Investment

Education

External advise

Research & Development
Part III
The instruments
Mapping of the instruments

**Q1:** Individual/Cooperative

**Q2:** Clusters

**Q3:** ICON

**Q4:** Strategic Basic Research (Science Council)

**Demand driven**

**PUSH**
Q1 : Support to companies - 3 options

Development

Research

Talent
Development
- Increase innovation in large group
- Short term
- Limited research component
- Innovation drives the business case (BC)
- 25% + add. <= 50%

Research
- Stimulate R&D
- Long term/strategic
- **Strong research component**
- BC: long term
- 25-50% + add <= 60%

2-3 years, budget: 25 KEUR till 3 MEUR
Support to companies - 3 options

Development

Research

Talent
Partners

Baekeland = PhD grant
Innovation = Postdoc

Flemish knowledge centre

Company with activities in Flanders

researcher
## Q2: Cluster support scheme

<table>
<thead>
<tr>
<th>Spearhead clusters</th>
<th>Innovative business networks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Cluster organisation as facilitator</td>
<td></td>
</tr>
<tr>
<td>• Removal of obstacles for growth</td>
<td></td>
</tr>
<tr>
<td>• Activities along the innovation spectrum (all TRL-levels)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategic domain (+/- 5)</th>
<th>Bottom up (+/- 15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambitious, large scale</td>
<td>Smaller scale</td>
</tr>
<tr>
<td>Long term vision – intermediate results</td>
<td>Short term results</td>
</tr>
<tr>
<td>Triple helix (comp, KI, gov)</td>
<td>All relevant actors, focus on businesses</td>
</tr>
<tr>
<td>Contractual agreement based on comp. progr.</td>
<td>Contractual agreement based on action plan</td>
</tr>
<tr>
<td>Commitment of all partners in clusterpact</td>
<td></td>
</tr>
<tr>
<td>Max 10j, max 500 k€/y funding</td>
<td>Max 3j, max 150 k€/y funding</td>
</tr>
<tr>
<td>50% private investment</td>
<td>50% private investment</td>
</tr>
</tbody>
</table>
by Knowledge Institutes for the industry
• Global approach

by individual companies or companies in cooperation
• Company approach

TRL

- research
- development
- Knowledge transfer

Cluster initiated collective research and knowledge

Cluster initiated strategic research

Cluster initiated cooperative research

Cluster initiated cooperative development including demo

(icon) project
Q3 : ICON

Collaboration with research institutes as partners (ICON)

→ Research institutes: non economic activities supported at 100%
→ Companies: industrial R&D at state aid percentages
ICON Cooperation
The imec.icon research program is our successful formula for demand-driven, cooperative research. Over a period of typically two years, multi-disciplinary research teams of scientists, industry partners and/or social profit organizations work together to develop digital solutions that find their way into the market offer of the participating partners. The program has already resulted in over 100 completed projects in a wide range of ICT related application domains and markets.
Q4 : Strategic Basic Research

- The Strategic Basic Research (SBO) programme focuses on innovative research which, if scientifically successful, will create prospects for economic or societal applications (e.g., a new generation of products, processes and/or services).
- The SBO programme breaks down into two finality parts: an economic programme part for projects with primarily an economic finality and a societal programme part for projects with primarily a societal finality.
- The available budget for the 2018 SBO call is circa €40 M*. 2/3 of this budget is reserved for projects with an economic finality and 1/3 for projects with a societal finality.
Thank You!