

ERDF Flanders 2014-2020

Bio Base Europe Pilot Plant

Brussels

January 29th, 2018

Government of Flanders

A long term strategy for the future



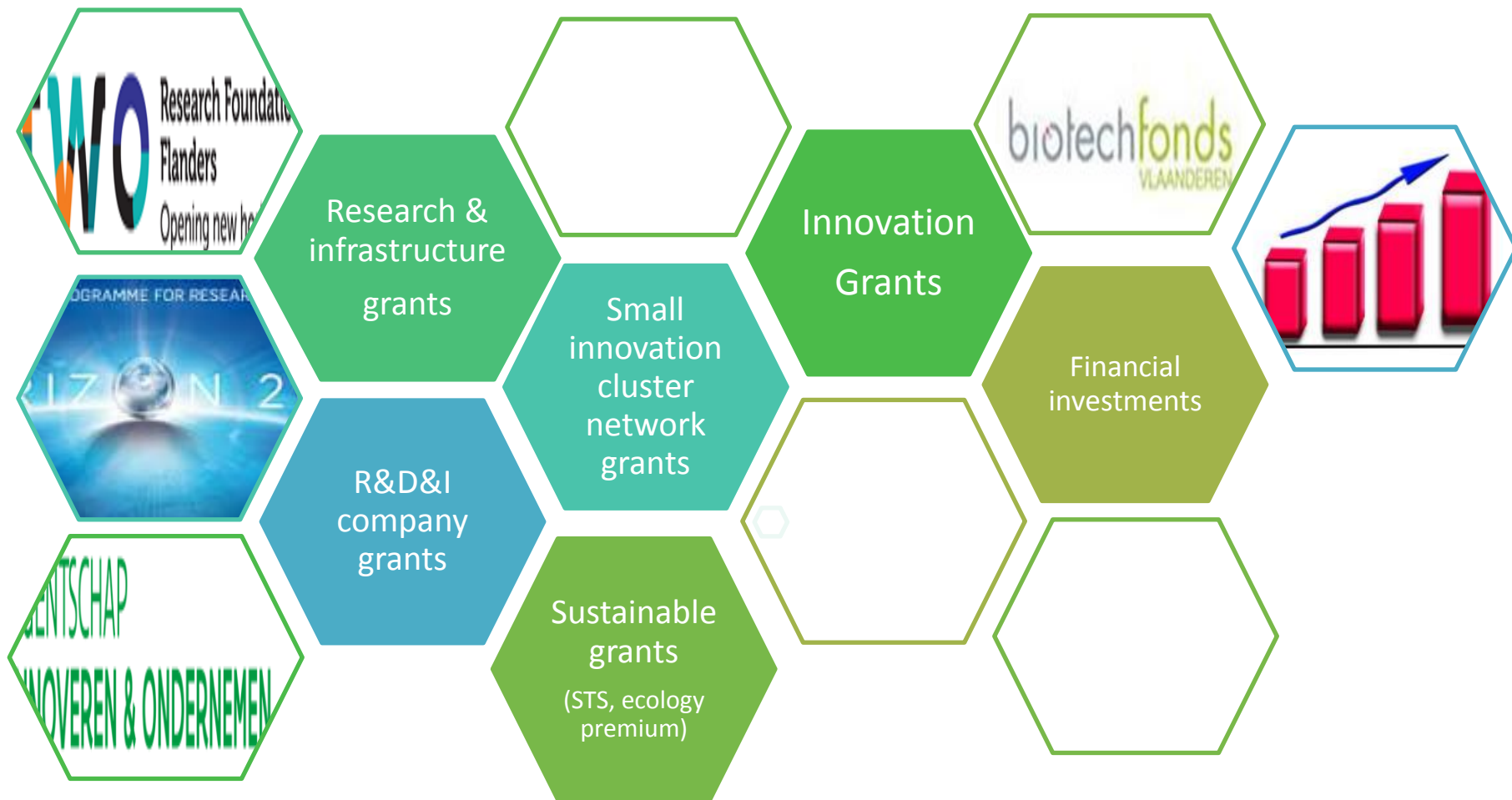
Seven transition priorities

1. Circular Economy
2. Smart living
3. Industry 4.0
4. Lifelong learning and a dynamic professional career
5. Healthcare and welfare
6. Transport and mobility
7. Energy

Flanders' vision and strategy on the bioeconomy

- ▶ Interdepartmental Working Group on Bioeconomy started in 2012
- ▶ Annual report to the Flemish Government
- ▶ Exchange of information and consolidation across several policy domains: R&I, agriculture, environment, energy, education, investment
- ▶ Strategy and first action plan in 2013; now in revision
- ▶ Link with circular economy and renewable energy policies, on regional and European level

Flanders Bio-based ecosystem



AGENTSCHAP
ONDERNEMEN



Vlaanderen
is ondernemen

ERDF Flanders 2014-2020

4 Priorities

Priority	Budget (mio €)
P1: Stimulating research, technological development and innovation	84,80
P2: Competitiveness of SME'S	29,87
P3: Transition to a low-carbon economy	37,05
P4: Sustainable urban development (Ghent and Antwerp)	16,93
P5: Technical Assistance	6,94
Total:	175,59

ERDF – Priority 1

- Two Specific Objectifs (SO's):
 - SO 1: Promoting co-creation to valorize R&D results (**living labs**);
 - SO 2: Support the dissemination of technologies (**demonstration**)
- Flow from knowledge to economic and social valorisation (no fundamental research)
- Fitting in Flemish Regional Innovation Strategy (**RIS3**) – **Smart Specialisation**
- Bridge to **Valley of Death**
- Mostly **investment** projects

Regional Innovation Strategy (RIS3)

Smart Specialisation

1. Sustainable chemistry
2. Specialized manufacturing industry
3. Personalized healthcare
4. Specialized Logistics
5. Specialized Agro-Food
6. Integrated building-environment-energy
7. Smart systems
8. Creative industries and services

Other European collaboration

Sustainable chemistry and biobased economy

- Vanguard Initiative
- BIG-C : Flanders, Netherlands en North Rhine Westfalia
 - BioInnovation Growth mega Cluster
- Biorizon: Flemish-Dutch research center for technology development for biobased aromatics
- Horizon 2020 - Societal Challenge2 including Biobased Industries Joint Undertaking (3,8 billion euro);
- Trilateral chemical strategy Flemish region – NL - NRW

- Interreg projects cofinanced by Flanders (VLAIO)
 - Flanders-Netherlands
 - Biobase Europe Pilot Plant (BBEPP)
 - North West Europe:
 - Smart pilots (dept. EWI is partner, BBEPP co-ordinator): policy related project to support use and impact of 'shared pilot facilities' : BE-FI, UK, FI, DE, NL, FR, IT

Bio Base Europe Pilot Plant



- BBEPP is an independent, state of the art facility that operates from a laboratory level to a multi-ton scale.
- BBEPP is a **service provider** for process development, scale-up and custom manufacturing of biobased products and processes.
- BBEPP enables the conversion of biomass into biochemical, biomaterials, biofuels and other bioproducts.
- BBEPP performs the entire production chain in one single plant, from biomass feedstock up to final refined product.

Process Hall 2

Fermentations and DSP

- BBEPP is beneficiary in several ERDF and INTERREG projects
- ERDF Flanders 2014-2020
 - Project 1117 – IMPACT (01/01/2017 – 31/12/2019):
 - ERDF: 3.742.800,00 EUR
 - Flemish Government: 1.284.224,00 EUR (+Province, City)
 - Total cost: 9.357.000,00 EUR
 - Project 1235 – Bio Base Flow (01/01/2018-31/12/2020):
 - ERDF: 1.470.400,00 EUR
 - Flemish Government: 735.200,00 EUR
 - Total cost: 3.676.000,00 EUR
- <http://www.bbeu.org/pilotplant/category/projects/>

ERDF Project - IMPACT

- Investment project (01/01/2017-31/12/2019)
- Construction of new demonstration equipment for the development of industrial biotechnology as key technology for sustainable chemistry
- Installation for gas fermentation and Down-Stream Processing (DSP) on a high TRL.



“**Regiostars**”: most prestigious European recognition for regional development projects.

- **Winner 2017** in the category:
“Smart specialization for SME innovation”

[Video BioBase4SME](#)[Video Bio Base NWE](#)

<https://www.youtube.com/watch?v=V91cYuz8qMU>

<https://www.youtube.com/watch?v=8s7EFdXIXLs>



Summary of regional action points to attract bio-investments

- 1) investing in R&D
- 2) consistency in building up policy
- 3) consequently allocate people and budgets
- 4) alignment of instruments with EU-level
- 5) being active in various European networks
- 6) steady growth path of investments by the private partner