International collaboration options in Flanders’ innovation support policy

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Circular bio-economy position in Flanders’ policy

Vision2050 Strategy Circular Economy (February 2017) inherently part of Flanders Strategies for Internationalisation, procurement, RIS3,…
IB actors abroad in Flanders’ support

Research partnership schemes

- **Strategic Basic Research/Agricultural research**: max 20% of budget to foreign research organisation if known how not available in Flanders
- **Interdisciplinary Cooperative Research Network (PoC, demonstrator)**: listed research organisations (S3), industry partner (cf R&D scheme) under spearhead clusters, subcontractors.

Individual R&D&I company support schemes

- **R&D support** (1) 10% extra if cooperation with independent company abroad, latter <70% VL support (2) max 50% international activity in project (3) subcontractor of company applicant (60% company cooperation, 30% with KI).
  - Basis for joint thematic ERAnets calls
- **SME programme** (feasibility studies & innovation projects): 10% extra (1) and in Eurostars/Eureka projects
- **Baekeland and innovation mandates**: foreign PhD in a Flemish company

Innovative procurement (incl. Bio-based)

- stimulates Flanders’ participation in EU PCP (TRL5-7) and PPI projects (TRL 8-9): user central (demand-driven, focus on circular purchases)
IB actors abroad in Flanders’ support

**Entrepreneurship measures**

- **Spearhead Clusters** (Flanders’ Food, Catalisti): internationalisation focus, indirect through Flanders funding schemes (50m€)
- “foreign knowledge providers” for Flanders’ SMEs can be recognised under Flanders voucher scheme
- **Sustainable Transformation Support:** internationalisation included as criterium (indirect)
- **TETRA fund** and horizontal **ERA.net CORNET**: state-of-the-art knowledge transfer from HEI

**Financial instruments**

- FinMIX Biotech: FinMIX international (E.E.N, incl. FIT)
- PMV Biotech Fund – risk sharing with other equity/debt PMV instruments, InnovFIN products, EIB

**ERDF/interreg initiatives**

- Industrial cluster: BBEPP (ERDF, VI-NL, NWE, interreg)
Horizon2020
EWI representation in SRG and PC

  - BBI JU (3,8 billion euro)
  - ERAnet Cofund FACCE SURPLUS (Call 2017)
  - ERAnet IB -> COFUND on Biotechnologies (CoBioTech) market replication (cfr Flanders R&D support scheme for industry partners)

- Industrial Leadership (a.o. INNOSUP actions e.g. SuperBio, InnovFin Fund TIP Circular Bio-economy)
  - EU vouchers for SMEs in INNOVOUCHER (AIO), SUPERBIO (BBEPP) ...

Example: BIORIZON: Flemish-Dutch shared research center for scale up of membrane technology developments for production of biobased aromatics: coordinator of BIO-HArT project (ERDF, VL-NL)
EWI partner in H2020-project

Replicable systemic approach towards a transition to Circular Economy in EU regions within the context of the Smart Specialization Strategy
Integration of the bio-economy as one of the relevant sectors

Synergies between H2020, ERDF, Seal of Excellence (SMEI)
Other EU funding of Sustainable chemistry and biobased economy in ESFRI international research infrastructures
Eureka/EUROSTARS, COST COSME
- AIO NCP/FIT partner in E.E.N: B2B matching sector group AgroFood
ERDF/Interreg projects
- Innovation vouchers in BIOBASE4SME (NWE)
- AIO partner in CLUSTERIX (interreg): cross-cluster collaboration
- FIT ‘Vlaanderen versnelt’ (ERDF)

Outcome: “Sustainable resources, materials and chemistry” one of 5 priorities for internationalisation
OECD policy research

*systemic innovation*

- EWI is active in Technology and Innovation Policy studies
  - Belgian case study in OECD-project systems innovation “Roadmap towards biobased sectors”: value chains for specific output in the sectors: construction-textile-food packaging (EWI 2016)
  - Biotechnology group and industrial Biotechnology group
- New Innovation ecosystems and Circular Solutions to boost Bio-economy
EWI interregional activities

Vanguard Pilot ‘Bioeconomy’

- 7 demo cases, of which
  - 2 with Flanders ‘coordinator
    biobased aromatics (VITO)
    (waste) gas into value (Flanders BioBased Valley)
  - 3 with Flanders’ partner
    Lignocellulose Refinery
    Bio Aviation Fuel
    Food & Feed from Agrofood Waste

MoU with BIC Bio Industries Consortium (June 2016)

BIG-C : Flanders, Netherlands en North Rhine Westfalia

- BioInnovation Growth mega Cluster
- Flanders: Essenscia, Flanders BioBased Valley,…
Thank you!

Questions welcome