



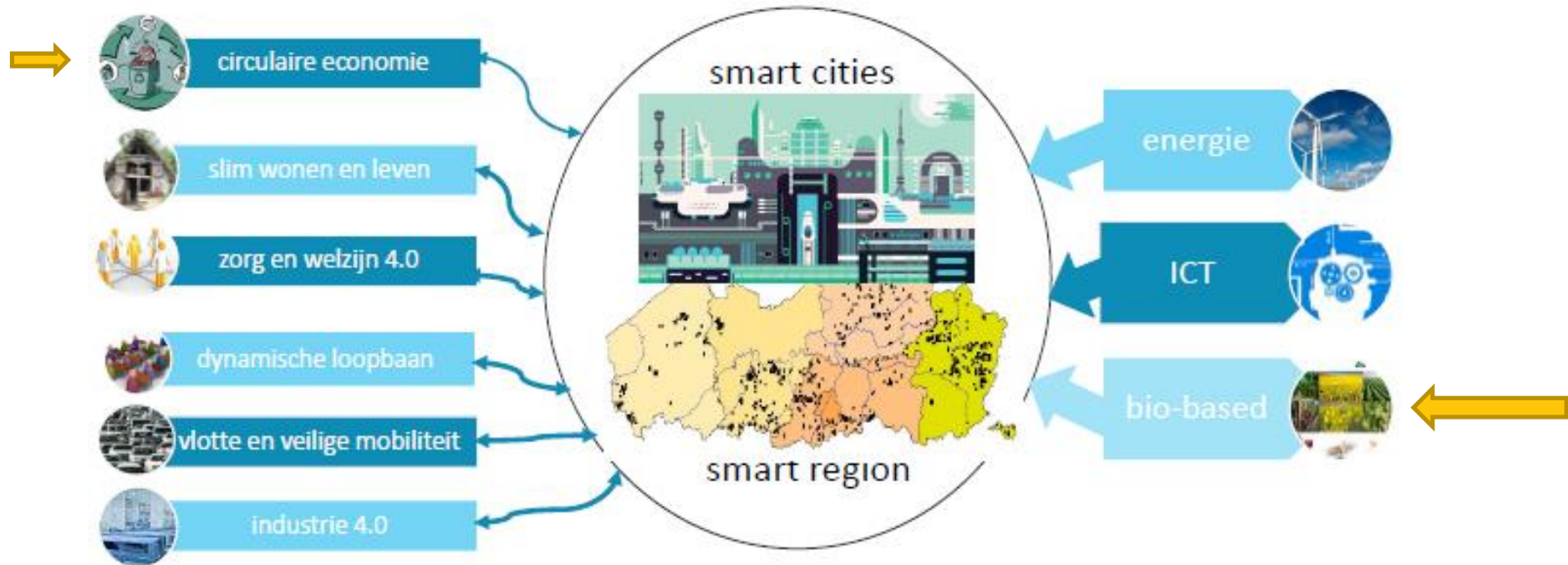
International collaboration options in Flanders' innovation support policy

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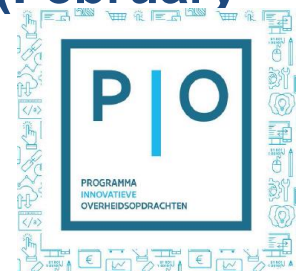
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Circular bio-economy position in Flanders' policy



➔ **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 know 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 **ERAnet 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

- Societal Challenge2 *'Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy'* , incl.
 - 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,...



SmartPilots
Interreg Europe



European Union
European Regional
Development Fund

Thank you!

Questions welcome