

Flanders Cluster policy

Flanders Innovation and Entrepreneurship

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Part I: Institutional Framework

Introduction: Belgian policy framework

Belgium = federal country Federal government + Regional governments

- •No hierarchy between the federal and regional governing levels
- Autonomous execution by all governing levels, also EU and international (treaties, ...
- •Science and innovation: (mainly) autonomous policy competence at the regional level → (Policy) budget of the Flemish government in 2016:
 - ± 40 billion euros overall
 - ± 2.22 billion euros for science and innovation policy across all policy domains
 - ± 1.40 billion euros for R&D in the strict definition



Flanders: main indicators

	Xear	unit	Elanders	Belgium	EU-28
Surface area		km2	13.521	30.528	4.381.376
Population	1/1/2015	million	6,44	11,21	508,29
GDP in current prices	2015	billion	239,2	409,4	14.693,00
		euros			
Export	2015	billion	300,6	350,6	
		euros			
GERD	2014	billion	5,738	9,875	271,559
		euros			(2013)
GDP per capita	2015	euros	32.000	36.500	28.800
Employment rate (20-64 years of age)	2015	%	71,9	67,2	70,0





Flanders: economical policy

The coalition agreement for the 2014-2019 Flemish Government

- a demand-driven and market-oriented public policy for economy and innovation;
- a simplification and rationalization of structures and instruments
- more transparency, better client-friendliness
- a higher focus on business-oriented innovation and valorisation,
- strong knowledge organizations
- with excellent research and a **growth path for the 3% target for R&D**, with public support strive towards 1% by 2020.

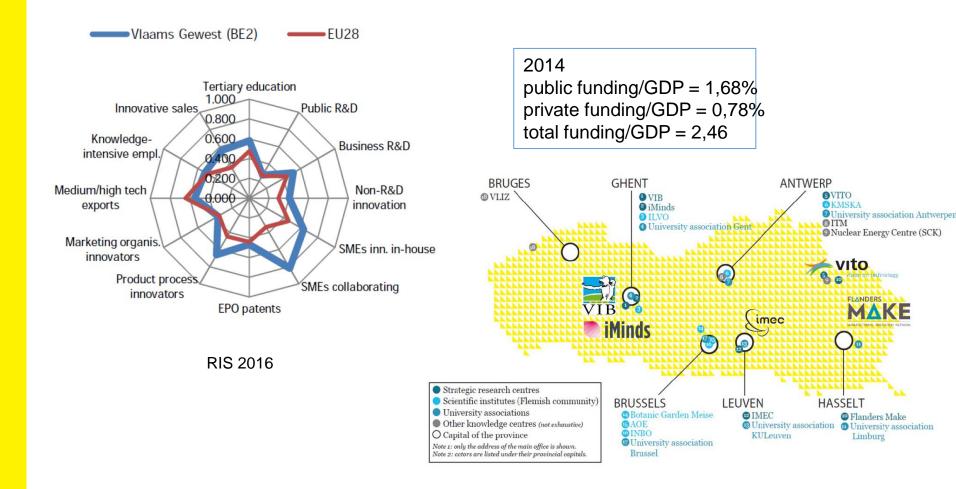








Flanders: R&I



https://www.vlaanderen.be/nl/publicaties/detail/sti-in-flanders-science-technology-and-innovation-policy-and-key-figures-2015-1

Introduction: Flemish S&I policy framework (1)

Policy priorities for economy and innovation (Flemish Minister for Work, Economy, Innovation and Sport)

Invest in preconditions for **innovative and industry-driven entrepreneurship**: developing a programmatic approach for **Smart Specialisation**

- Cluster Policy: Spearhead Clusters and Innovative Business Networks
- Vision 2050 (Flanders long-term strategy): 7 Transition Priorities (Ind. 4.0, CE, Energy, mobility, ...)

Invest in an excellent knowledge base

- Further develop and support Strategic Research Centres (SRCs)
- Further invest in state-of-the-art research infrastructure



Introduction: Flemish S&I policy framework (2)

The above-mentioned basic principles and policy priorities for economy and innovation provide the policy framework for bringing together entrepreneurial excellence and (bottom-up and top-down) research excellence within a Triple Helix dimension in 10 "centres of gravity":

- 6 Spearhead Clusters
- 4 Strategic Research Centres (SRCs)





Part II: Flanders Innovation and Enterpreneurship

AGENTSCHAP
INNOVEREN & ONDERNEMEN



Flanders Innovation and Entrepreneurship (Agentschap Innoveren & Ondernemen)

- A government agency
- ▶ To implement the economic, innovation and enterprise policy
- ▶ In Flanders, the Dutch speaking northern part of Belgium.

▶ Staff: 343 FTE

▶ Budget: 606 M EUR to support companies in Flanders



Flanders Innovation and Entrepreneurship (Agentschap Innoveren & Ondernemen)

We confidentially guide entrepreneurs throughout the government landscape.

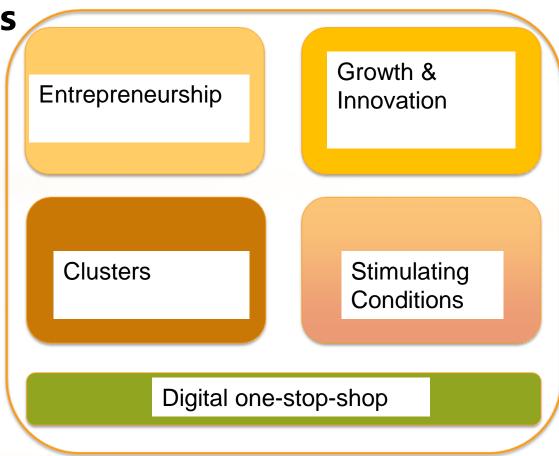
- ▶ The startup of their activities,
- ▶ The grow and continuity of their business,
- ▶ The search for information on permits,
- The search for financing and investments in innovation and ecological technologies



Flanders Innovation and Entrepreneurship

(Agentschap Innoveren & Ondernemen)

Main tasks





Flanders Innovation and Entrepreneurship (Agentschap Innoveren & Ondernemen)

Partnerships with:

- Sector and business organisations
- ▶ Flanders DC (creativity)
- Clusters





Part III: Flanders Cluster Policy

Cluster policy: ambition

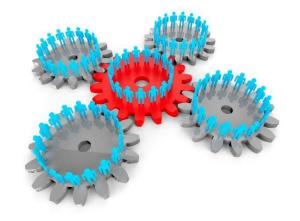
➤ **Goal:** Unlock untapped economic potential and increase competitiveness of companies in Flanders through an active and sustained **collaboration** between all actors

> clusters

- can contribute to solving societal challenges
- are expected to achieve concrete results
- economic value is defined as investments, job creation, increased export, cost reductions,...
- will replace existing competence centers and smaller actions, and will be complementary to the Strategic Research Centers (imec+iMinds, VIB, VITO, Flanders MAKE)



Flanders cluster program



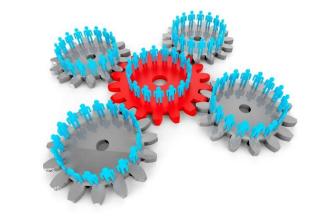
- Funding of cluster organisations (50%)
 - Decree of the Flemish Government of 4 March 2016 "Support to innovation clusters"
 - In line with General Block Exemption Regulation "support to innovation clusters"
- One of the components of economic and innovation policy
 - Implemented by Flanders Innovation and Entrepreneurship
 - Total agency budget: 606 mio€
 - R&I support, business support, business creation, investments, brownfield, incubators, support entrepreneurship,



Flanders cluster program

Characteristics

- companies in "driver's seat"
- a strong focus on active collaboration in all activities
- clear goals and clear competitiveness program to reach goals
- knowledge creation as a means to result in increased competitiveness and economic value creation
- clear (financial) commitment from the companies
- clusters are bottom-up initiatives





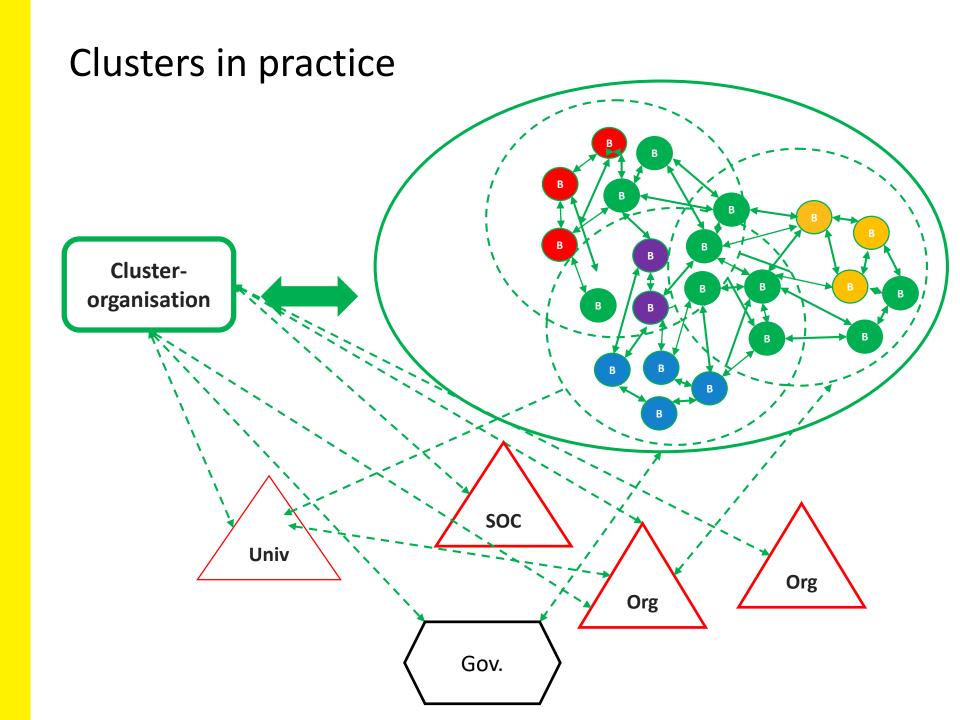
Cluster support scheme

Spearhead clusters (6)

Innovative business networks (14 +6)

- Cluster organisation as facilitator
- Removal of obstacles for growth
- Activities along the innovation spectrum (all TRL-levels)
 - Initiate collaboration inside and outside cluster

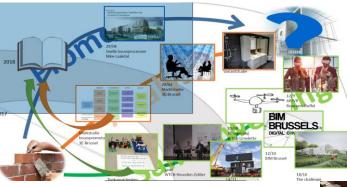
Strategic domain	Bottom up
Ambitious, large scale	Smaller scale
Long term vision – intermediate results	Short term results
Triple helix (comp, KI, gov)	All relevant actors, focus on businesses
Contract based on comp. progr.	Contract based on action plan
Commitment of all partners in clusterpact	
Max 10j, max 500 k€/y funding	Max 3j, max 150 k€/y funding
50% private investment	50% private investment



VLAIO support to clusters

- 1. Financial support to cluster organisation (facilitator)
- 2. Supporting role from the government/agency
 - > Account manager link to government
 - Training (ESCA-label) optional
 - Peer learning





EUKA-ACTIVITEITEN



WETGEVING

VE INFORMEREN ONZE LEDEN

OVER DE REGELGEVING ROND

DRONES EN GEVEN

BELEIDSADVIES OP BASIS VAN

JUN INPUT AAN DE OVERHEID.



MATCHMAKING

WEL ONLINE VIA SOCIAL MEDI/ ALS OFFLINE VIA LERENDE ETWERKEN, EVENEMENTEN EN PLEIDINGEN ZETTEN WE IN OP IET BIJ ELKAAR BRENGEN VAN ALLE STAKEHOLDERS IN DE



BOUW

VAN IDEE TOT MARKT

WE FACILITEREN DE /ERSCHILLENDE COMMUNITY'S MIDEEËN TE GENEREREN EN UIT TE WERKEN TOT EEN MARKTKLAAR PROJECT.



asus ideeën-Intorvisie

Bottlereck / Successorhaal

beschikbonheid erwijfen
IP / Confidentialitett
ROAD HAP
COFINANCIERING
- VOLUME KORTING
- POJECTERE
RELATIF TOT SPK'S

IK INNOVER SESSIES

INTERNATIONALISERI

A BUITENLANDSE MISSIES EN ANDS OP BEURZEN BRENGEI WE DE VLAAMSE DRONE-IDUSTRIE DE WERELD ROND.

Results after 1 year cluster support (2017)



\$5SPEERPUNTCLUSTERS

INNOVATIEVE 14
BEDRIJFSNETWERKEN

BEDRIJVEN ★ **2000**

Collaboration inside clusters (between members)



^{*}samenwerkingsinitiatieven: initiatieven – zowel gesubsidieerde projecten als andere - waarbij minstens 3 bedrijven betrokken zijn

^{**} op basis van rapporten van 10 innovatieve bedrijfsnetwerken en 5 speerpuntclusters

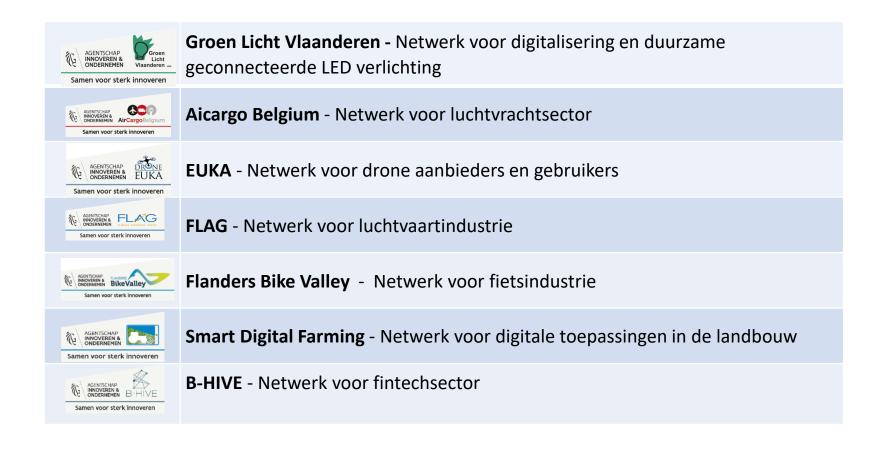
Collaboration between clusters Call for projects from VLAIO (intercluster projects)



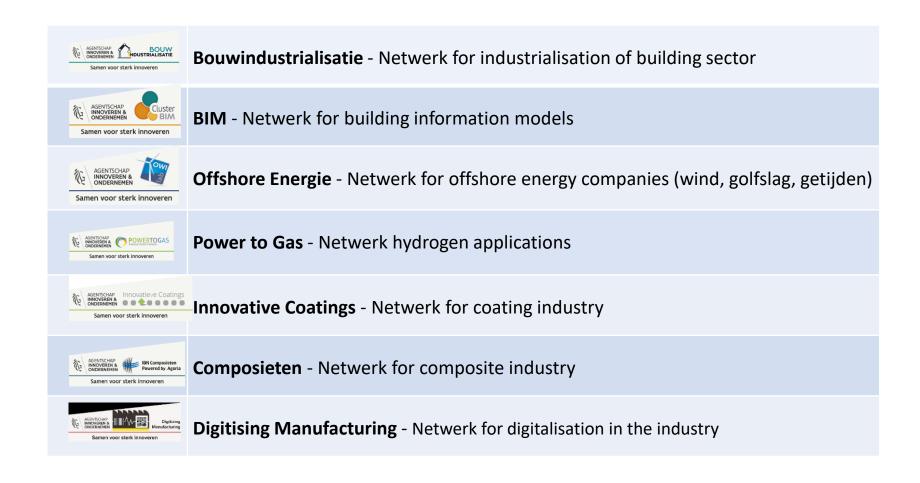
Spearhead Clusters

ASSISTICIAD NICOTERNA CATALISTI Samen sterk voor groei	Catalisti – cluster for sustainable chemistry
AGENTSCHAP INNOVEREN A ONDERNEMEN Samen sterk voor groei	SIM – Materials innovation
AGENTSCHAP INNOVEREN & ONDERNEMEN Samen sterk voor groei	VIL – Smart Logistics
AGENTSCHAP NNOVEREN & FLOX 50 ONDERNEMEN Samen sterk voor groei	FLUX50 – Smart Energy region
AGENTECHAD INNOVEREN & FLANGERS' FOOD Samen sterk voor groei	Flanders' FOOD – cluster for agrofood
Recently approved	Blue Cluster – Maritime and Marine Industry

Innovative business networks



Innovative business networks



Contact information: www.vlaio.be/clusters



Clusterorganisaties faciliteren een netwerk van bedrijven - actief in een bepaald domein - die door middel van onderlinge samenwerking en samenwerking met kennisinstellingen hun competitiviteit wensen te verhogen.

Clusterorganisaties kunnen voor de uitvoering van hun rol als facilitator financieel ondersteund worden door de Vlaamse overheid. Met een steunpercentage van 50% dienen de bedrijven jaarlijks een equivalent bedrag aan cofinanciering te verzamelen voor de werking van de clusterorganisatie.

Het Vlaams clusterbeleid onderscheidt twee types van clusters, de speerpuntclusters en de innovatieve bedrijfsnetwerken.

Case 1: Modernisation Digital technologies in Building industry



"New insights in tomorrow's constructions"

Crucial issue:

Can the construction process be better / faster / more efficient / different?





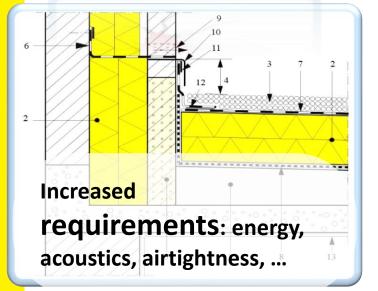
We can draw inspiration from "making processes / production processes"!



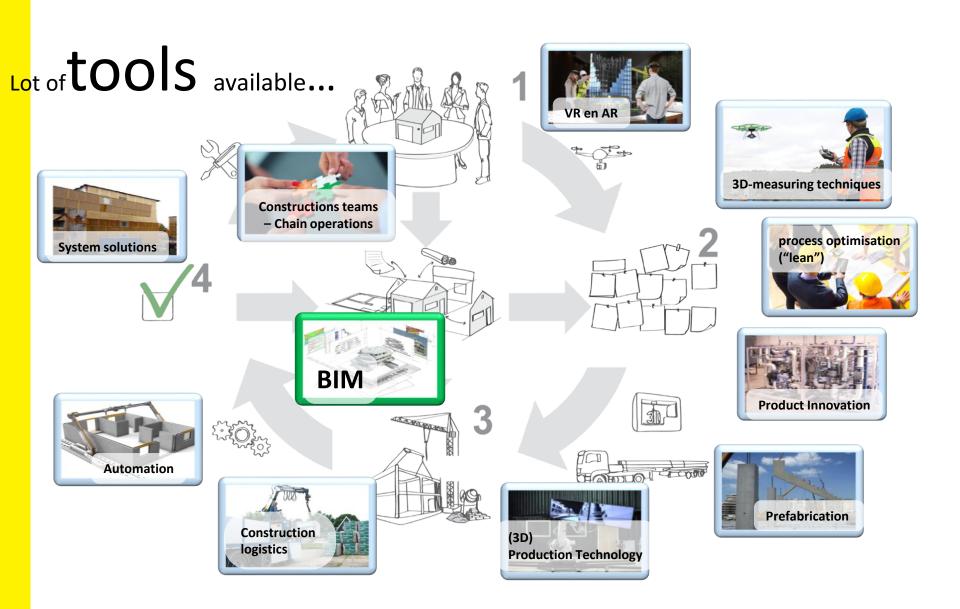




Enough motives ...























































































































Case 2: Transition - Sustainable Chemistry

Bio based Europe

- > Largest petro-chemical cluster in Europe in Flanders; strong links with food, building e.o. sectors; cross-border links with NL and DE
- Transition towards bio-based economy, but incomplete science base!
- How to become a world-class cluster in sustainable chemistry?
- Focus on strategic road mapping for a transition (also cross-border!)

Some Instruments

- ➤ Shared vision between NL NRW Flanders
- > KET Roadmap
- ➤ Lead companies : Procter Gamble, BASF, Bayer, Afga, ...
- > Spearheadcluster CATALISTI
- > Pilot plants
- > Incubator
- ➤ DG REGIO : ERDF and Interreg
- > JTI BBI

7 Innovation roadmaps



Micro Algae Miniature chemical factories

Renewable Chemicals Using nature's power





Separation **Technology**

Microproces Technology Purity is the name of the game The smaller, the more efficient



Polymer Recycling

Sidestream Valorization Waste becomes resource



Reusing polymers forever



Knowledge Tools Knowledge is power

Ambition = Multiregion approach

