



**REGIONS
& CITIES**

**European Week
Brussels 7-10 October 2019**

#EURegionsWeek



Regions and cities, pillars of the EU's future





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How the Programme for Innovation Procurement contributes to an acceleration of the energy transition in Flanders (?)

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Overview



1. PIP - Programme for Innovation Procurement in Flanders
2. Our Smart Specialisation Strategy
3. PIP support for S3 in energy
4. Cases & lessons learned



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PIP - Programme for Innovation Procurement in Flanders



- PIP focuses on...

DEVELOPING
and
VALIDATING

INNOVATIVE SOLUTIONS

needs

....in response to public

- Outcome aimed at:
new and better products, services and systems



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PIP

- Launched late 2016 – currently until 2023
- Embedded in innovation policy and related agencies
- 2017-2019: 4 calls, 68 projects in portfolio
- Yearly budget: 5 million €

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Offer to public sector

To everyone: knowledge centre for innovation procurement

- Information: website, newsletter, guide, ...
- Advice & guidance

To selected PIP projects:

- Guidance and support
- Co-financing (50/50 partnership)
 - Preparatory phase
 - Purchase of R&D services
 - Pilot projects

+/- 30 000 euro

15 000 - 1 000 000 euro

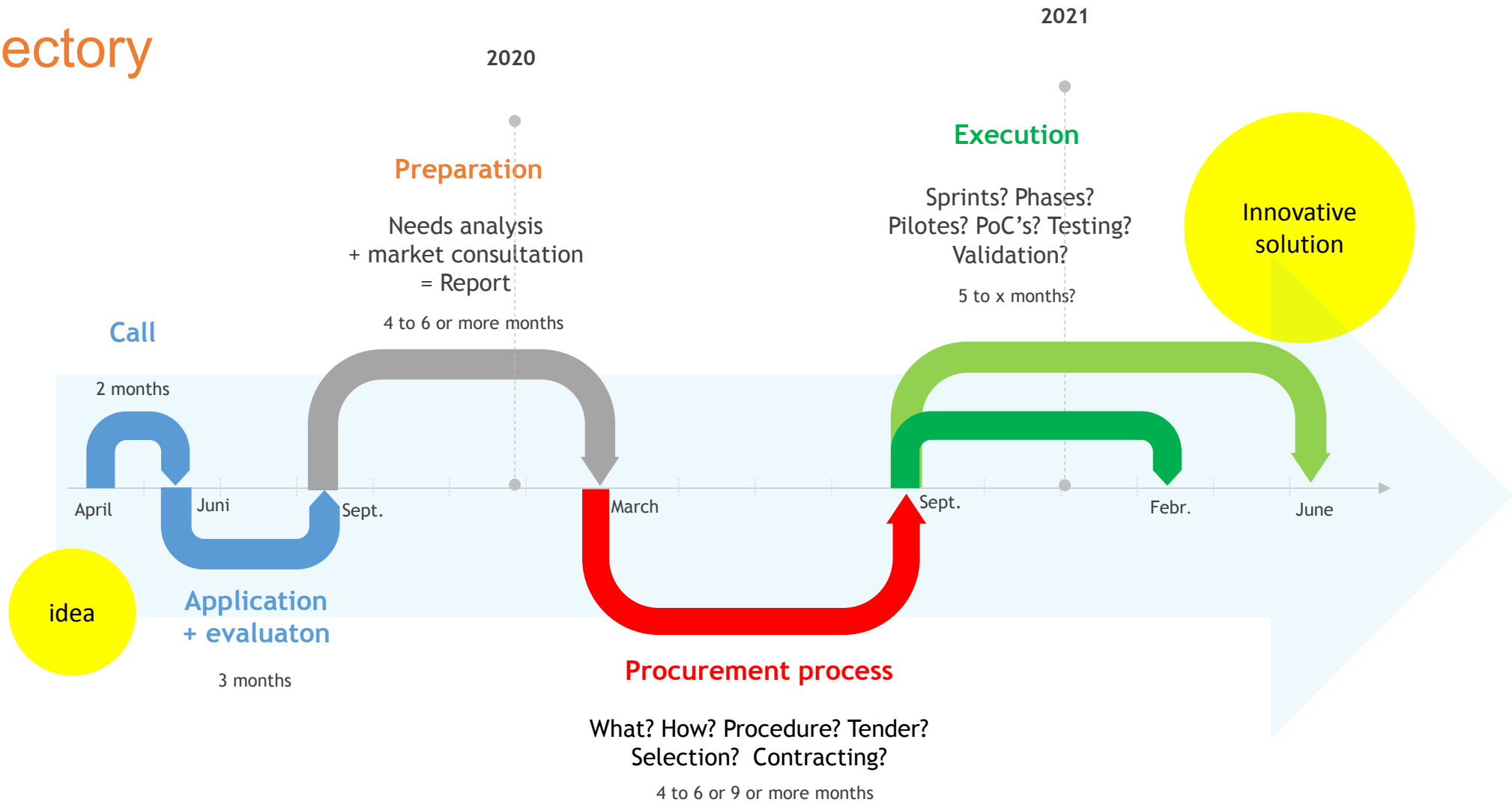
15 000 - 1 000 000 euro



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PIP-trajectory





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Smart specialisation in Flanders

6 CLUSTERS

Catalisti – sustainable chemistry

SIM – Materials innovation

VIL – Smart Logistics

Flux 50 – Smart Energy Region

Flanders’ Food – agrofood

Blue Growth – blue economy

4 STRATEGIC RESEARCH CENTERS

IMEC: Nano-electronics and broadband technology

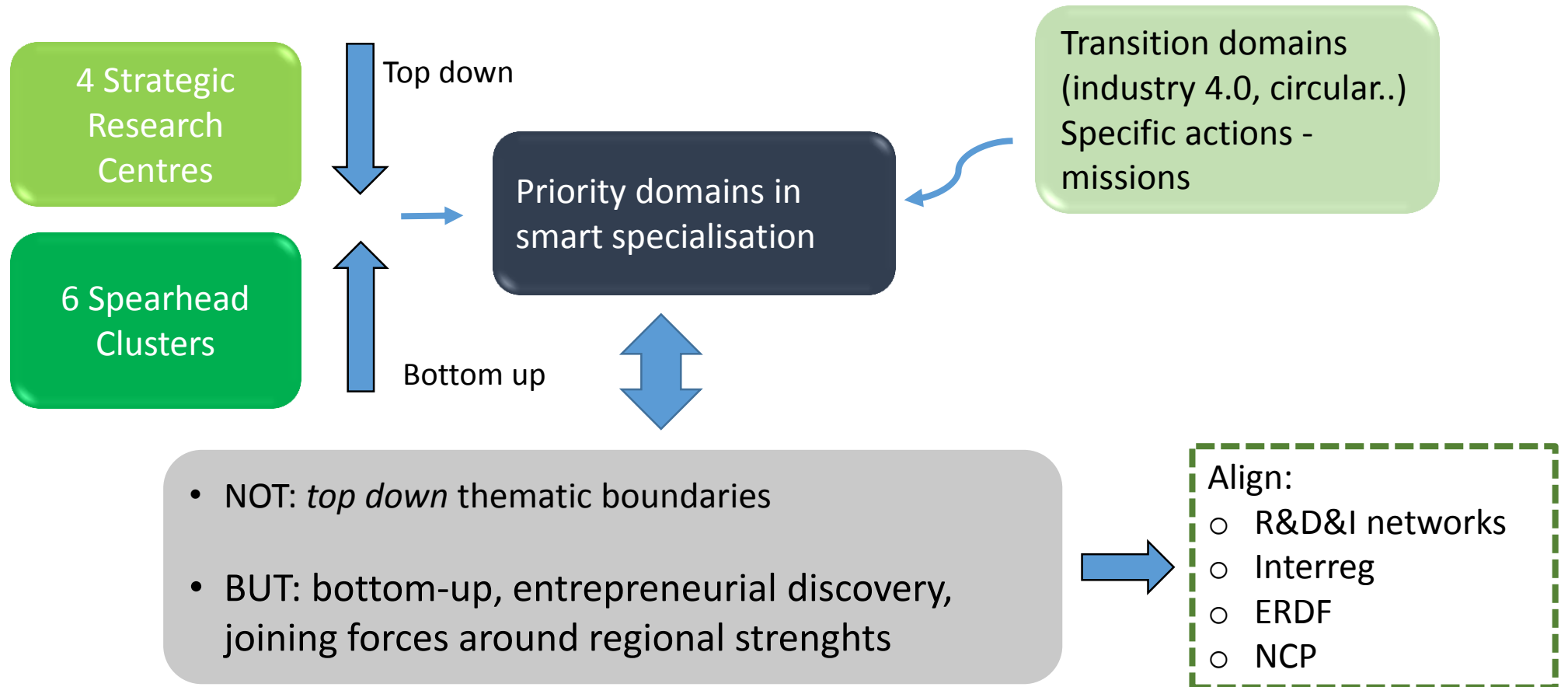
VITO: Sustainable development and cleantech

VIB: Flemish Institute in Biotechnology - Life Science

Flanders’ Make: Mechatronics, product development methods and advanced manufacturing technologies



Smart specialisation in Flanders





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PIP support for S3 in energy

- PIP



S3

- PIP has no thematic restrictions
- Bottom-up project formulation – need driven



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Cases

- 6 out of 68 on Energy Transition but even more energy related digitalisation projects !

Projects

Search

Domain

- Any -

Theme

Energy

Status

- Any -

SUBMIT



Acceleration of energy transition by wind

Initiator(s): Flemish Energy Company (VEB)

The project aims to investigate whether and how small and medium-sized wind turbines can contribute to the energy transition to a low carbon Flanders and whether this is possible with off-grid systems.



e-RenoZone: Energetic Renovation without worries

Initiator(s): IGEMO

The high demand for renovation advice shows that the intention to renovate is high among individual citizens. However, the renovation rate is not increasing in line with these intentions. The step to a contractor still seems too big for the individual citizen. The E-RenoZone wants to bridge this gap and develop a digital platform where supply and demand can easily find each other. A kind of 'booking.com' for the renovation market will be created.



Energy Transition in Provincial Recreation Domain of Zilvermeer

Initiator(s): Province of Antwerp

The Province of Antwerp aims to heat its own buildings only with green energy and to eliminate all fossil fuels over time. The project will identify opportunities to switch from fossil fuels to fully sustainable energy sources.



Integrated climate platform

Initiator(s): IGEAN environment and security

The integrated climate platform will monitor the efforts to reduce CO2 emissions and make them visible to citizens, local government and regions (intercommunal, province, Flanders, etc.).



Sustainable Healthy Schools

Initiator(s): Flemish Energy Company

With the project proposal 'Sustainable Healthy Schools' (DGS), the Flemish Energy Company (VEB) aims to develop and test performance-based contracting of comfort and energy renovations in schools.



Sustainable street lights

Initiator(s):



Turing - Automatically controlling Flemish road lighting

Initiator(s): AWV (Agency for Roads and Traffic)

By combining rule-based algorithms and machine learning, a system that is controlling the road lighting. AWV wants to use whether or not to switch on the road lighting on a specific



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Case 1: Energy transition in recreation domain Zilvermeer

- Aim?
 - Energy transition within 'grand masterplan' or vision
 - To test vision with pilot projects on the Zilvermeer site (2.250.000 kwh Elect - 2.600.000 kwh Gas)
- So far?
 - Hiring consultancy to define needs
 - Market consultation to check possibilities
 - Result? Overview of technological and innovative opportunities
- Next steps?
 - Innovative solution together with nearby company?
 - Decision period too short
 - Investment commitment too high
 - LT: investment programme to implement suggested innovations



Provincie
Antwerpen



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Case 2: Acceleration energy transition by small and medium wind

- Aim?
 - Pilot projects on public buildings/sites to check opportunities of small and medium wind turbines in Flanders
- So far?
 - Consortium of public partners
 - Procuring consultancy for
 - defining 'Flemish Wind Map'
 - defining relevant set of pilot sites
 - Feasibility analyses on selected sites - ongoing
- Next steps?
 - Selection of pilots
 - Construction permits
 - Procurement procedures
 - Testing, validating and updating Wind Map





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Cleantech
Flanders



STAD
HALLE

fluvius.



VVSG

Case 3: Sustainable street lights

- **Aim?**

- Pilot in Halle - Lembeek
- Service contract (light as a service) for
- Smart street lights (dimmable)
- Fed by locally produced energy (hydro power)
- Supported and financed through civic participation



- **So far?**

- Consortium of public partners (city, Fluvius, VEB, ...)
- State of the art on technologies
- Working groups on civic participation
- Feasibility study on hydro power
- Tender on light as a service (best value) - nearly published
- Tender on power purchase agreement – nearly published

- **Next steps?**

- Procurement procedures





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Lessons learned

- PIP-approach “Think Big - Start Small”
- PCP or PPI? Energy pilots: Not as much about technological innovation but about business/finance & ROI/process innovation!
 - Energy = Complex (many stakeholders!)
 - Cooperation – consortium building – pooling of resources = mutual trust & time
 - Firm financial commitment
 - (Local) governments = slow (internal decision procedures)
 - Legislation & regulation = not up-to-date
 - Lack of long term energy strategy & innovation agenda
- Too early to evaluate PIP impact

Open question

- Is PIP the good (small, bottom-up) instrument for boosting the energy transition? Other and better instruments available? A thematic PIP-call on Energy?



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 - Projects on <http://www.innovatieveoverheidsopdrachten.be/en/projects>
 - PIP-Newsletter (in Dutch!) <http://www.innovatieveoverheidsopdrachten.be/nieuwsbrief-innovatieve-overheidsopdrachten>



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