Brussels: Connecting Smart

specialisation and Smart city

From eco-building to sustainable city

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WHO MAKES THE DECISION ? HOW TO DECIDE ?

In Belgium, three levels of decision:

- Federal
- Regional (Brussels-Capital Region, Flemish, Walloon)
- Community

Opportunity:

At regional level, Regions (Brussels-Capital Region included) decide themselves for virtually all the policies about::

- Innovation
- Environment (sustainable buildings / territorial development)

From planning to achievements:

- 1. Plans:
 - Innovation: « Regional innovation plan »
 - Environment: « Regional air, climate, energy plan »
 - Economic policy
- 2. Creating « ecosystems » to undertake projects
- 3. Merging innovation and environmement (sustainable buildings) / merging research and experience

BRUSSELS INNOVATION PLAN

PILOT: INNOVIRIS, MEMBER OF RIS3 PLATFORM

- 2007 2013: FIRST Regional innovation plan
 - Environment as 1 of the 3 "priority sectors"
 - Emerging cluster policy (greentech.brussels and ecobuild.brussels)
- 2012 2014: UPDATE of the plan
 - Sustainable building as 1 of the 4 "priority sectors"
 - Launch of the Brussels Retrofit XL strategic platform
- 2015 2019 (+2025): NEW Regional innovation plan (10 years term)
 - Green economy as 1 of the 3 "strategic business/innovation areas"
 - Targeted ERDF support (2014-2020) via 4 specific projects:
 - Le Bâti Bruxellois: new materials
 - Living Lab: follow up of the Retrofit XL strategic platform
 - Hamster: testing room to study the hygrothermal behavior of building components
 - Irissphere: industrial symbiosis

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BRUSSELS AIR – CLIMATE – ENERGY PLAN

PILOT: BRUSSEL ENVIRONMENT

- Soon adopted by the Brussels Government
- OBJECTIVES (10 years term) :
 - Climate : Cutting down the CO2 regional emissions by 30% by the year 2025 (compared to 1990)
 - > Air : Respecting the EU air quality and air pollutants emission standards
 - Energy : Reaching the EU energy efficiency directive targets by 2020 (+18% energy efficiency in Belgium)
- MEASURES (5 years term):
 - Mitigation (cutting down the CO2 and air pollutants emissions) :
 - All emitting sectors (Building, transportation, consumption) are targeted through the monitoring of air quality
 - Adaptation (adapt to the impacts of climate change) :

Very first Brussels 'adaptation strategy

> Integration :

The plan incorporates air, climate and energy through transversal issues (economy, urban planning, poverty)

> International :

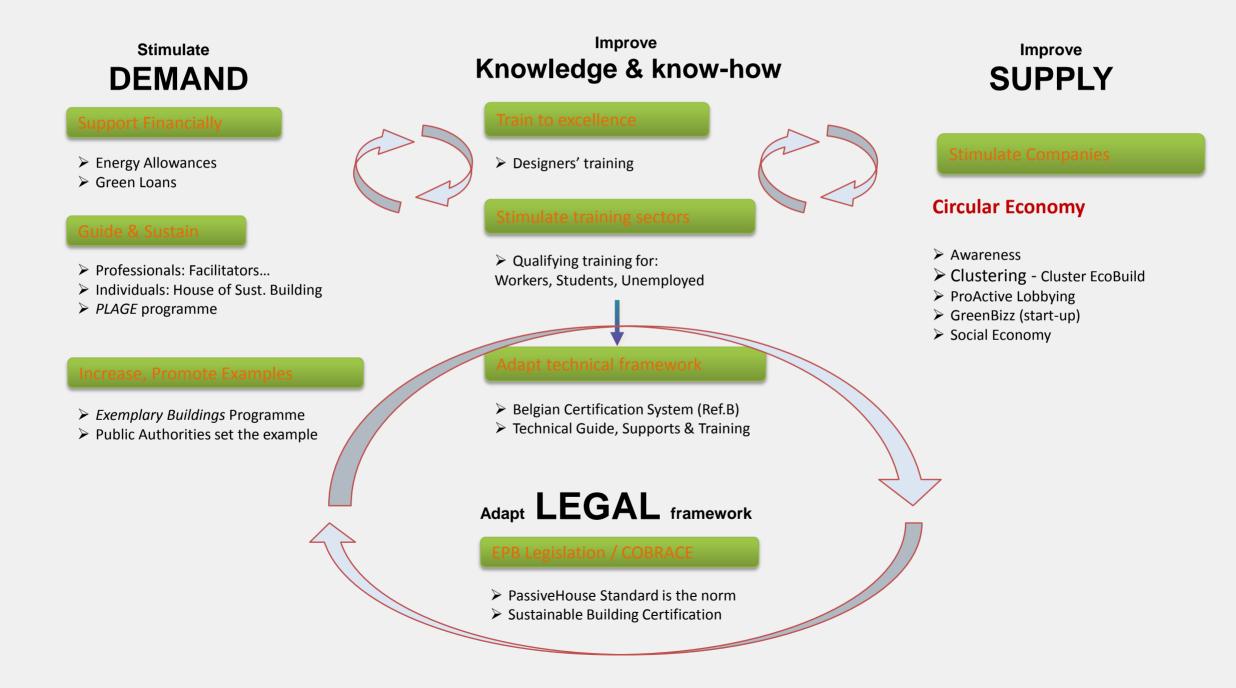
Deals with international aspects of climate and energy policies (climate financing, cooperation mechanisms, etc.)

INNOVATION POLICY: BUILDING / SUPPORTING AN ECOSYSTEM

3 KEYS MEASURES (+ INTEGRATED APPROACH IN OTHER ACTIONS)

- Technological and strategic guidance: Structural collaboration with the CSTC (scientific and technical research, innovation and development, support and advice)
 - Aim: Increase the skills and knowledge of the Brussels sector, in particular by stimulating innovative activities and technologies in the field of sustainable construction
- **Brussels Retrofit XL** (Strategic platform, 2012): Technological transfer from research centres to companies in the field of housing renovation
 - > Key actors: Innoviris, CSTC, building's manufacturers, academic stakeholders and Impulse
- Living Lab (ERDF Project, 2014-2020): Follow up the Retrofit XL strategic platform

ENVIRONMENT POLICY: BUILDING / SUPPORTING AN ECOSYSTEM





MERGING RESEARCH AND EXPERIENCE

The meeting point: Exemplary Buildings Program (BATEX)

The goal of this call for projects is to stimulate demand through a voluntary approach, in the sustainable buildings market.

Then it's a matter of showing by example that it is completely possible and relevant to achieve excellent energy and environmental results within a reasonable financial budget.

The projects selected must be noteworthy according to 4 criteria of equal values:

- the highest energy performance
- the lowest environmental impact
- the reproducibility and profitability of the proposed solutions
- the urban and architectural integration of the building in its urban context.



MERGING RESEARCH AND EXPERIENCE

The meeting point: **Exemplary Buildings Program (BATEX)** 243 projects / total area of 620,000m²





MERGING RESEARCH AND EXPERIENCE

The meeting point: Exemplary Buildings Program (BATEX)

• From environment policy to innovation policy:

(Bottom - up)

Batex is like a **stock of experience** to inspire research projects

• From innovation policy to environmental policy :

(Top – down)

Batex is an **opportunity to implement** research products directly in real building's projects

• And so on ... to increase performances



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Thank you for your attention.