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Sustainable energy in the city
Innoviris

04 February 2016

NOT CONFIDENTIAL

Content of the presentation

- What is Innoviris?
- Specifically ?

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Innoviris ?

Role

- Innoviris is the Brussels Institute for the encouragement of scientific research and innovation.
- Our mission is to support and stimulate research, development and innovation in and for Brussels through the funding of innovative projects by companies, research organizations (academic institutions or research centers) and the non-commercial sector.

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Key facts for 2015

- Scientific Ressources : 11
- Total Budget : ± 35 000 000 €
- Demands : ± 250
- Supported projects : ± 130

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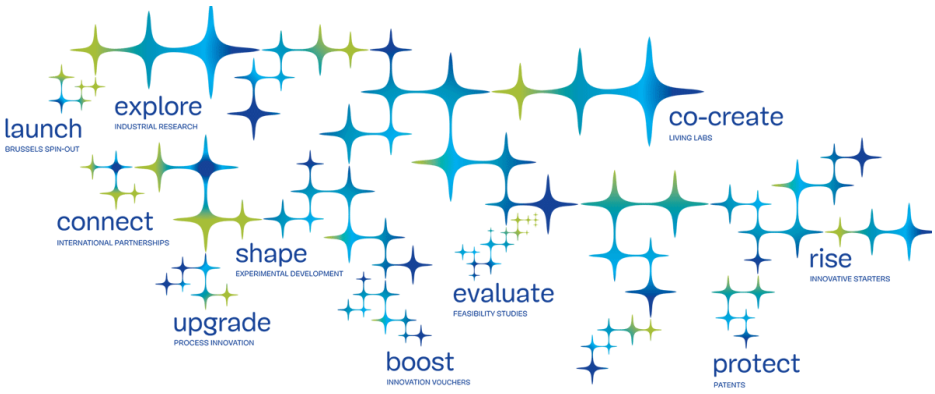
Financial aids Framework for companies



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Financial aids Frameworks for research organisms

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Specifically ?

Focus on 2 programs

Explore – Shape – Upgrade - Evaluate

Different Programs (research – development – process innovation - feasability studies) but almost **one process** ! You download on our website the generic form and send it fully filled back to us .

Full **bottom-Up** process ! You submit a project without any topic limitations.

No call for proposal ! You can submit the demand when you need to.

We can help you ! You can **contact us** for any question. To be honest, having a first contact will strongly increase your chance of being supported.

Collaboration is possible, even with academic partners ! You will be rewarded with a top-up on your funding (+ 15%)

Financial aid depends on the program, the size of the compagny. Visite our website and **CONTACT US** for more informations

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Bridge (between academic and industrial worlds)

Bridge (Strategic Platforms) aims to support **collaborative and multidisciplinary research projects** conducted by universities, higher education institutions and collective research centers located in the Brussels Region. The objective of the action is to strengthen the potential of the region in **strategic topics** based on platforms put in place under the program and gathering a critical mass of research units and stakeholders.

- Regional Sponsors are mandatory. Industrial Sponsors are greatly recommended.
- 3 years projects that should aim mid-term valorisation through technological transfer.
- A call of Expression of Interest is running.
- Deadline call EofI : February the 19th

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Bridge

Topic :

Energy harvesting, Energy storage and Energy management

Device and µgrid levels

The research should focus on:

- New and improved EH and ES technologies to enable fully autonomous or partially autonomous devices with optimized energy consumption while in operation. "Partially autonomous devices" refer to devices that have timely and optimized access to the grid.
- New and improved "EH"/DER (Energy harvester – renewable energy generation) and DES technologies to enable the deployment of fully or partially autonomous µgrids at building block/district level and related smart management technologies.

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Still Bridge but more in details

The topic is structured along 3 main axes:

Axis 1: "Energy Harvesting"

- Research on systems/material/platform and associated modeling tools to create improved EH systems that provide off-grid electricity where it is needed, from the surrounding environment (small devices/sensors level)
- Research on systems/material/platform and associated modeling tools for improved DER systems based on renewable energy (for µgrid applications)

Axis 2: Energy storage

- Research on systems/compounds and associated modeling tools for improved ES systems dedicated to partially autonomous devices (timely access to the grid) and fully autonomous devices (storage of energy delivered from energy harvesting devices).
- Research on systems/compounds and associated modeling tools for improved DES systems to be connected to a µgrid

Axis 3 under the framework of Axis 1 and/or 2: smart energy management in operation (device level or µgrid level)

- Research on new approaches to optimize the way a fully or partially autonomous (timely access to the grid) device manages its energy consumption (linked to the status of its energy storage/or harvesting systems). This refers to the global optimization – i.e. all the processes involved – of the energy use of a device with minimum impact on the level of service (trade-off).
- Research on new µgrid supporting services linked to the smart management of DER, DES.

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