

Innovation Meetings

energy and environmental monitoring
17 december 2015

NOT CONFIDENTIAL



Content of the presentation



- #What is Innoviris?
- #Specifically ?

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.



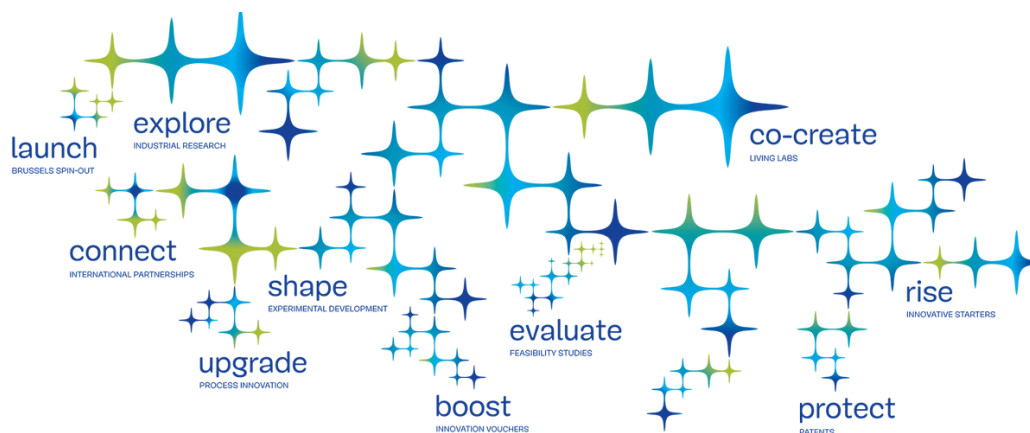
Key facts for 2015

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

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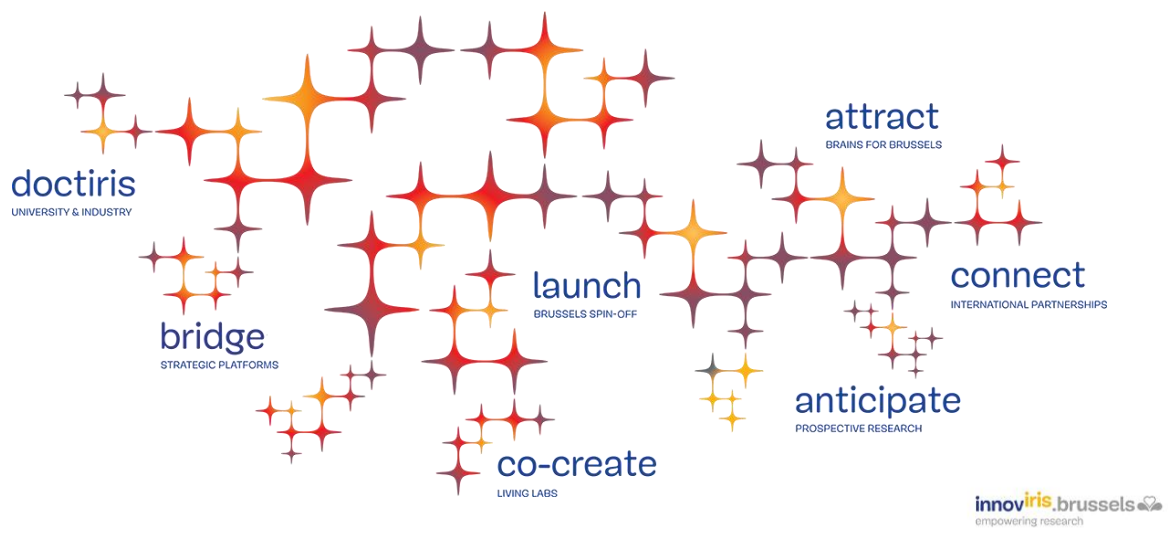
Financial aids Framework for companies



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Financial aids Frameworks for research organisms



Specifically ?
Focus on 3 programs



Explore – Shape – Upgrade - Evaluate

Different Programs (research – development – process innovation - feasibility 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 company. Visite our website and **CONTACT US** for more informations



Anticipate



The Anticipate program supports projects implemented by academic researchers who have a forward-looking vision in the fields considered to be essential by the Brussels Region. The projects should contribute to the development and reinforcement of knowledge of Brussels' urban complexity.

Topics for 2016 – Deadline Expression of Interest : 08/01/2016

- Désintermédiation (« Uberisation ») ou économie collaborative. Quels sont les impacts sur l'emploi bruxellois à moyen terme ? Comment la RBC pourra tirer bénéfice de ces deux tendances ? Quelles sont les contraintes juridiques, légales ou autres actuelles freinant leur développement ?
- Le paradoxe bruxellois, ou l'inadéquation entre offres et demandes de l'emploi bruxellois. Comment les rapprocher ? Faut-il améliorer les formations ou ramener des emplois nécessitant des travailleurs peu qualifiés dans la ville (urban manufacturing) ? Existe-t-il une troisième voie ? Tous entrepreneurs demain ?
- La fonction résidentielle de Bruxelles et sa dynamique. Quel est le profil socio-économique des ménages quittant la région ou y arrivant ? Comment la Région peut-elle stabiliser durablement les profils qui contribuent le plus aux recettes fiscales ?





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Topics for 2016 - Deadline Expression of Interest : 08/01/2016

- Desintermediëring (« Uberisering »), het verdwijnen van tussenhandel en collaboratieve economie. Wat is de impact op de Brusselse werkgelegenheid op middellange termijn ? Hoe kan het BHG voordeel halen uit deze twee tendensen? Wat zijn de juridische, wettelijke of andere actuele obstakels die hun ontwikkeling tegenhouden?
- De Brusselse paradox, of de kloof tussen het aanbod en de vraag naar werk in Brussel ? Hoe moeten we aanbod en vraag dichter bij elkaar brengen? Moeten de opleidingen verbeterd worden of is het nodig om werkgelegenheid te creëren voor laaggeschoolden in de stad (urban manufacturing) ? Is er een derde oplossing ? Wordt iedereen morgen ondernemer ?
- De residentiële functie van Brussel en haar dynamiek. Wat is het socio-economisch profiel van de gezinnen die het Gewest verlaten of die er toekomen ? Hoe kan het Gewest ervoor zorgen dat de profielen die het meest bijdragen aan de fiscale opbrengsten zich duurzaam in het Gewest vestigen?

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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 will be launched this week !
- Deadline call Eofl : February the 19th

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Bridge

Topic for the upcoming call of Expression of Interest:

Energy harvesting, storage and management Device and μ grid 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 μ grids at building block/district level and related smart management technologies.



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 μ grid 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 μ grid

Axis 3 under the framework of Axis 1 and/or 2: smart energy management in operation (device level or μ grid 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 μ grid supporting services linked to the smart management of DER, DES.



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