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## Partner search

Date (18-09-20)

- (\*) Indicate numbers of relevant topics for Green Deal call:

LC-GD-5-1-2020 Area B: Green Ports
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- Quick description of the project

(describe the objectives, activities, partners requested and their skills)
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- (\*) Do you intend to apply as ? :

Coordinator: No  
Participant: Yes

(\*) **Either** Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting*

Xxxxxxxxxx
+ key words :

**Or** Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting*

<p><b>General expertise :</b> Our research team studies <b>optimization problems</b> that occur in industry and administration to design and operate management, transportation, distribution, or production systems. Optimization concerns every stage of the <b>decision-making process</b>: investment budgeting, scarce resources management, long term or day-to-day operations planning. Our research goes from the <b>mathematical characterization of problems</b> to the <b>implementation of optimization algorithms</b>. More information on : <a href="https://realopt.bordeaux.inria.fr/">https://realopt.bordeaux.inria.fr/</a></p> <p><b>Specific contribution to the call LC-GD-5-1-2020 - Area B: Green Ports</b> Designing tools and optimization mechanisms for passenger and freight flows in ports involves solving hard optimization problems with uncertain data. With skills in robust and stochastic optimization, our team has a number of tools at its disposal to solve such large-scale problems in which one minimizes costs (which can be economic, environmental, and social) while ensuring the technical feasibility of some decisions.</p> <p><b>Targeted impact :</b> "green airports and <u>ports</u> as multimodal hubs, <u>optimising passenger and freight flows</u> for low emission mobility, in a context of much stricter public health criteria;"</p>
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“energy-efficient and green airport and port operations and buildings, green and smart logistics, integration with other low-emission transport modes (in particular rail) and promoting effective modal shifts;”

“reduced aviation, waterborne and other transport emissions, as well as improved air quality, biodiversity, contribution to the circular economy and reduction of noise at airports and ports;”

**+key words : optimization problems, mathematical characterization, support to decision making**

### Organisation information

**Organisation and country:** Inria – Institut national de recherche en informatique et automatique. France

**Type of organisation:**

Enterprise  SME  Academic  Research institute  Public Body  Other: Association

**Former participation in FP European projects?**

Yes  No

**Web address:** www.inria.fr

**Description of the organisation:**

Inria is the French national research institute for digital science and technology. World-class research, technological innovation and entrepreneurial risk are its DNA. In 200 project teams, most of which are shared with major research universities, more than 3,500 researchers and engineers explore new paths, often in an interdisciplinary manner and in collaboration with industrial partners to meet ambitious challenges. As a technological institute, Inria supports the diversity of innovation pathways: from open source software publishing to the creation of technological startups (Deeptech).

### (\*) Contact details

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(\*) –Mandatory