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**Partner search**

**Date (14-09-2020)**

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

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| **LC-GD-5-1-2020** |

* **Quick description of the project**

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| A clear commitment of the European Green Deal is that “transport should become drastically less polluting”, highlighting in particular the urgent need to reduce greenhouse gas emissions (GHG) in aviation. Actions should perform large-scale, real-life high TRL (6 or above) demonstrations of green airports, addressing all of the following four headings, collectively describing the various airport aspects to be considered: 1) Transport, 2) Terminal, 3) Energy and 4) Cross-cutting aspects. |

* **(\*) 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***

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| **NA****+ key words : NA** |

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

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| **Expected impact targeted:**Green airports and ports as multimodal hubs, optimising passenger and freight flows for low emission mobility, in a context of much stricter public health criteria; **Expertise proposed:** Terminal, Demonstrate integration of new solutions with operations, green and smart logistics and infrastructures;Cross-cutting aspects, point 3: "Use of ICT and satellite-based solutions to effectively manage resources and assets, including management of information and production of knowledge, taking into account all the related safety and security aspects of the solutions developed and proposed; "The idea is to propose our AI and ML algorithms to reduce CO2 emissions from aircraft on the ground and on approach.Our Pax keeper solution (in TRL 5) can be positioned on topic 1 Transport, point 3 Apply innovative digital / satellite-based solutions, including new tools and traffic optimization mechanisms for multimodal access, passenger and freight flows into and out of the airport, as well as between airports, facilitating airport access and reducing traffic from / to the city or other nodes;We have tested this solution within the framework of SESAR (https://www.sesarju.eu/node/3486) but despite the promising results, COVID has slowed us down the deployment of this solution (initially planned for the end of 2020). Process optimization tools proposed:* monitoring of arrivals and departures + AI + ML
* anticipating the management of delays / late arrivals model of data merger + DB crossing
* optimizing movements on the IOT track + supervision tool
* taxiway separation management runway supervision + camera + 4D airport model + AI+ML
* predicting of the aircraft hit model of data fusion + BD crossing
* monitoring passenger flows in real time

**+key words: #eco #zerowaste, #ecoATM, #ecoUTM, #AI/ML,#A-CDM,#PDS/VTT, #TAM, #ATFM,** |

**Organisation information**

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| **Organisation and country:****INNOV ATM France** |
| **Type of organisation:****[x]  Enterprise xSME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?****[x]  Yes □ No** |
| **Web address:** [*www.innov-atm.com*](http://www.innov-atm.com) |
| **Description of the organisation:**Innov’ATM is a business founded in 2013 to improve efficiency and global performance of air transport Industry as a whole by providing innovative solutions for air traffic controllers, airport operators and airlines operation managers. We are specialised in the conception, design and development of new decision support tools powered by our ATI expertise and by our artificial Intelligence and Machine Learning algorithms. Whatever is considered to be a complex choice, it’s always a hard choice without data insights so we make it easier for human beings to take decisions when assisted by AI! We combine our ATM domain expertise with cutting-edge skills in computer science and system engineering to provided intelligent solutions. Each of them to maximise efficiency, capacity, safety and environmental sustainability. |

**(\*) Contact details**

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**(\*) –Mandatory**