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**Partner search**

**Date (01-09-20)**

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

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| **LC-GD-3-2-2020** : Demonstration of systemic solutions for the territorial deployment of the circular economy**LC-GD-5-1-2020** : Green airports and ports as hubs for sustainable and smart mobility**LC-GD-10-3-2020** : Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) 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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| **Xxxxxxxxx****+ 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***

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| *The CITC has set up its own skills specifically in :** ***Internet of Things : embedded systems, networks, telecommunication and computing***
* ***artificial intelligence (AI)****expertise enabling it to bring support and advice on the whole IoT value chain and contribute to migrating from a product value towards a service value*
* ***cybersecurity****, which is currently essential in the companies digital transformation.*

The CITC *proposes its expertise in 3 areas* :***1. Reduction of the digital energy  footprint**** *Reduce energy consumption sensors*
* *Make data more frugal*
* *Foster low energy protocols*
1. ***Use digital to reduce carbon footprint***
* *use IoT to capture and return data*
* *use AI to improve track or forecast, and optimization of resources management*
1. ***Implement cybersecurity to guarantee data privacy***

*1 additional area is specific to the 10.3 call:*1. ***Collect and return data thanks to connected objects***

*Equip objects/vehicles/buildings with environmental sensors**Involve citizen in realizing their own environmental impact**Advising people with concrete advice for behavioural change**Its cross-sectoral expertise and its experience make it particularly relevant and it can contribute to the following subjects :** ***Bio-diversity****: using and AI and Iot to increase knowledge of natural areas and forecast to improve renewable resources management*
* ***Waste management****:**the CITC can ensure the tracking and the monitoring of non-recyclable materials to forecast resources management and recovering.*
* ***Logistic in ports and airports****:**reducing carbon footprint thanks to sensors and AI algorithms to optimize and streamline the traffic (freight, passengers)*
* ***Feed****:**using digital technologies to reduce food waste*
* ***Energy efficient buildings****: using communication protocols and sensors to make buildings smart and then reduce energy consumption.*
* ***E-administration*** *: involve citizens in digitalization of public services*

**The CITC collaborates with INRIA (National Institute for Research in Digital Science and Technology)*** *The contribution of the FUN team would be to wirelessly collect all the data wherever the source sensor is, either in a covered or uncovered area (like in undergrounds), either fix or mobile through adaptive efficient multi hop multi technology protocols.*

**+key words : AI, Internet of Things : embedded systems, networks, telecommunication and computing), Cybersecurity** |

**Organisation information**

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| **Organisation and country: CITC – Eurarfid (France), Centre d’innovation des Technologies sans Contact** |
| **Type of organisation:****□ Enterprise □ SME □ Academic □Research institute □ Public Body X Other: Association** |
| **Former participation in FP European projects?****X Yes □ No** |
| **Web address: iotcluster.fr** |
| **Description of the organisation:***Created in 2009 in Lille (North of France), the CITC is a major stakeholder of Internet of Things.**Its staff is composed of engineers and PhDs skilled in telecoms, electronics, IT and embedded system.**It operates as a center of resources, technical expertise and experimentation. It works with companies, research and training organisations, local administrations to set up high-potential project.**Its cross-sectoral expertise is adapted to different fields as the technologies it masters can be used in a wide range of applications. It has carried out many projects in various areas.**It is offering their expertise for 3 Green Deal topics and can rely on its network of members (more than 60), made up of startups, big accounts, communities and some other stakeholders with whom it has already developed actions, like TEAM2, specialized on circular economy and environment. It is already close to local and regional administrations and research organizations. This network strengthens its position to speed up the developments in a future project.**It has already gained a significant experience in setting up joint European projects, as well as UIA, Interreg and H2020 projects that can benefit Green Deal projects*  |
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**(\*) Contact details**

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**(\*) –Mandatory**