**Partner search**

**Date (DD-MM-YY)**

* **(\*) Relevant topic in work programme**

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| **LC-GD-1-1-2020 : Preventing and fighting extreme wildfires with the integration and demonstration of innovative means** |

* **Quick description of the project**

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

* **(\*) Do you intend to apply as ? :**

**Participant : Yes**

**Coordinator : No**

**(\*) 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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| **+ 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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| **Detection:**  Development of thin oxide sensitive layers that can be integrated into microsystems for ubiquitous gas microsensors to get early fire detection.  Development of thin oxide sensitive layers that can be integrated into uncooled microbolometers for fire detection with low cost IR camera.  **+ key words : microsensors; uncooled microbolometer, oxide thin layers** |

**Organisation information**

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| **Organisation and country:**  **CIRIMAT UMR CNRS** |
| **Type of organisation:**  **□ Enterprise □ SME** x **Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  x **Yes □ No** |
| **Web address:**  https://www.cirimat.cnrs.fr/ |
| **Description of the organisation:**  The CIRIMAT is a Mixed Research Unit (UMR CNRS INPT UPS 5085) with about 240 people, including just over 100 permanent faculty and staff and about 90 doctoral students.  The scientific strategy is based on the continuum and balance between an academic research of the best international level and a strong partnership research oriented towards innovation. For this, CIRIMAT develops 4 perennial Scientific Axes:  - Materials Science  - Nanomaterials  - Coatings and deposition processes  - Aging and durability of materials  CIRIMAT conducts multidisciplinary research on all families of materials (metals, alloys, ceramics, polymers, composites, multimaterials) in the form of powders, thin films, coatings, massive pieces, from their conception to their behavior in service.  Mixed Valence Oxides (OVM) Team is especially specialized in:  - nanoparticles or micronic powders, generally elaborated using “soft” techniques (precursors, hydrothermal syntheses, colloidal synthesis),  - solid-state or thick-layered ceramic, conventionally or SPS sintered,  - RF-sputtered oxide thin films,  - material characterizations: structure (RX diffraction, Raman), microstructure (SEM, TEM, AFM…), chemical (GDOES, µ-probe, XPS), optical (UV-Vis and ellipsometry) and electricalmeasurements (Resistivity, Hall, Seebeck, resistance under controlled temperature and gas). |

**(\*) Contact details**

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**(\*) –Mandatory**