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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (31-07-20)**

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

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| **LC-GD**  [**1.2** Towards Climate Neutral & socially innovative cities](https://www.horizon2020.gouv.fr/cid153155/recherches-offres-competences-pour-appel-green-deal.html?utm_source=%2330+-+Notre+s%C3%A9lection+de+la+semaine&utm_medium=Email#GD-1-2) |

* **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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| In the field of air quality (indoor and outdoor), LNE has a long history of the development, validation and application of environmental monitoring techniques. This work covers the development of high accuracy calibration standards (ex: N2O gas mixture at low amount fractions (nmol/mol level) for greenhouse gases); the development of analytical procedures assessing the reliability of instruments, the development of novel measurement technology (ex: IBBCEAS technique for measuring nitrogen dioxide); tools for the laboratory and field validation of monitoring techniques (ex: new low cost sensors for air quality monitoring); the use of such techniques in industrial and regulatory applications; and leadership ofparticipation in the European/international standardisation in this area.  **+key words : metrology; traceability; reference methods; methods validation; production of certified reference materials; interlaboratory comparisons; accreditation; certification; uncertainties evaluation** |

**Organisation information**

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| **Organisation and country:**  **Laboratoire National de métrologie et d’Essais (LNE), France**  As the |
| **Type of organisation:**  **□ Enterprise □ SME □ Academic XResearch institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **X Yes □ No** |
| **Web address:** <https://www.lne.fr/en> |
| **Description of the organisation:**  As the National Metrology Institute in France, LNE is the French highest authority when it comes to ensure the reliability of measurements and is a world-leading centre of excellence in developing and applying the most accurate measurement standards, science and technology available.  Since decades, LNE has developed and maintained the nation’s primary measurement standards. These standards underpin an infrastructure of traceability throughout the country that ensures accuracy and consistency of measurement.  The Laboratory develops new reference methods and certified reference materials, produces reference test benches, in addition to developing new reference testing methods across all fields where the challenges of consumer protection, public health, environmental preservation or energy efficiency require anticipating future needs.  LNE pays close attention to regulatory and standardization issues as well.  In the field of air quality, LNE belongs with INERIS and IMT-LD to the National Central Laboratory for monitoring air quality (LCSQA) which has been designated by the ministry in charge of environment to ensure the coordination of the air quality monitoring infrastructure in France.  The main axes of its missions are the as follow: - Ensure the quality of the air quality data (traceability chains, certified reference materials, interlaboratory comparisons, development of sampling and analytical methods…) and their consistency with European requirements and monitoring needs; - Ensure the dissemination and exploitation at national level of the data produced by the monitoring system; - Improve the scientific and technical knowledge of the infrastructure to support the implementation of action plans and anticipate the future challenges of the air quality monitoring; - Coordinate the national infrastructure with the 18 monitoring networks. |

**(\*) Contact details**

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**(\*) –Mandatory**