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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (25-09-20)**

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

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| LC-GD-1-1-2020: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means.  LC-GD-1-2-2020: Towards Climate-Neutral and Socially Innovative Cities  LC-GD-3-2-2020: Demonstration of systemic solutions for the territorial deployment of the circular economy  LC-GD-4-1-2020: Building and renovating in an energy and resource efficient way  LC-GD-6-1-2020: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy  LC-GD-7-1-2020: Restoring biodiversity and ecosystem services  LC-GD-8-1-2020: Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals |

* **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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| **Conception, management of prototypes and pilots of cropping systems**: from high-tech approaches such as hydro/aeroponics, aquaponics, green roofs / walls, indoor farming, rooftop greenhouses; to low-tech approaches such as use of substrates / fertilizers based on urban wastes  **Urban agriculture / farming expertise**: professional urban farmers network (France and abroad)  **Economical expertise**  **Decrease of the GHG emissions:** GHG emissions’ monitoring tool, solar heating systemfor greenhouses  **Reducing fertilizer uses with aquaponics system**  **Organic fertilization in soilless production systems and hydroponics y:** work with stakeholders to reduce the impact of chemical inputs on the environment and health.  **Optimization of the biotization of horticultural substrates:** Alternative methods against soil-borne pathogens  **Methanization**: hygienized digestates use in horticulture, in soilless cultivation  **Production of trees adapted for use in restricted urban environment:** composition of urban planting techno-soils, urban constraints of plantations.  **Integrated pest management,** applied research projects, experimentations: Push-Pull, companion plants, decision support systems, systemic approaches, agroecological infrastructures, beneficials studies, growth regulation by mechanical stimulation, biological control, studies about useful biodiversity  Technical solutions, based on **plant biofiltration, to reduce atmospheric pollutant concentrations** (indoor and outdoor).  **Consumer use and appreciation analyses of horticultural products**  **Key words:** Integrated pest management, IPM, hydroponics, urban agriculture, biotiation, organic fertilization, GHG emissions, consumer assessment |

**Organisation information**

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| **Organisation and country:**  **ASTREDHOR, Technical Institute of Ornamental Horticulture, FRANCE** |
| **Type of organisation:**  **□ Enterprise □ SME □ Academic ×Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **□ Yes × No** |
| **Web address:**  **https://www.astredhor.fr/** |
| **Description of the organisation:**  ASTREDHOR implements and conducts programs in research and innovation to increase technical, economic and environmental performances, for horticulture, floristry and landscape companies. It gathers more than 100 scientific associates, spread in 10 experiment stations, who conduct applied research projects (TRL 5 to 10) at regional, national and international levels. These research activities provide support and scientific expertise services for companies and for the 1100 members of the technical institute. |

**(\*) Contact details**

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**(\*) –Mandatory**