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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (27-08-20)**

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

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| **LC-GD-7.1 Ecosystems and Biodiversity**  **LC-GD 9.2 A transparent and accessible ocean: towards a Digital Twin of the Ocean**  **LC-GD 8.1 Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals**  **LC-GD 6.1 Testing and demonstrating systemic innovations for sustainable food farm to fork**  **LC-GD 10.3 Enabling citizens to act on climate change and environmental protection through education, citizen science, observation and mitigation** |

* **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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| Pioneers in Environmental DNA (eDNA), we provide biomonitoring solutions for ecological assessments and environmental management. We use our expertise in molecular sciences to extract the traces of DNA left by living organisms in the environment. With our technology, a mere sample of water or soil can provide us with a record of almost every living species in an area of interest.  Using genetic markers as standardized ecological indicators, our vision is to draw on this revolutionary method to measure biodiversity trends, understand species communities dynamics, and monitor global ecosystems health.  We offer innovative biomonitoring programs for various applications such as environmental impact assessment, rare or elusive species identification and repartition, invasive species tracking and pathogens detection, rivers and water bodies management, migratory fishes estimation, etc.  Our services can benefit to conservation planning, rehabilitation initiatives, and regular ecosystems evaluations.  Our expertise targets in priority H2020 Excellent Science Impact and Industrial leadership Impact.  **+key words : biodiversity, biomonitoring, environmental DNA, ecological assessment, database, innovation, laboratory analyses, aquatic environment, drones, fresh water, marine water, ecosystem, genetic, species, river, pond, lake, soil** |

**Organisation information**

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| **Organisation and country:**  **SPYGEN, France** |
| **Type of organisation:**  **□ Enterprise ◼ SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **□ Yes ◼ No** |
| **Web address:**  <http://www.spygen.com/> |
| **Description of the organisation:**  SPYGEN is a service and research laboratory specialized in monitoring aquatic and terrestrial biodiversity using environmental DNA (eDNA). SPYGEN is a mission-led company, certified B Corporation®, whose objective is to provide innovative technologies for a better monitoring and protection of biodiversity worldwide.  SPYGEN has developed the VigiDNA® technologies to track endangered or invasive species, and conduct inventories on targeted taxonomic groups with eDNA metabarcoding (Fishes, Amphibians, Mammals, Vertebrates, Bivalves, etc.). Our expertise is carried out in collaboration with various actors specialized in environmental engineering and grouped within the VigiDNA® network. To date, the VigiDNA® network brings together 137 partners internationally, with 455 trained ecologists.  SPYGEN has a dedicated laboratory to meet the specific requirements for analysing rare and degraded DNA in environmental samples. Our team combines strong skills in molecular sciences, bioinformatics analysis, environmental knowledge, and project management.  Today, SPYGEN is one of the world's leading research teams on eDNA in aquatic environments. |

**(\*) Contact details**

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| **Contact person name** | **Pierre Jorcin** |
| **Telephone** | **(+33) 4.79.26.15.83** |
| **E-mail** | **pierre.jorcin@spygen.com** |
| **Country** | **France** |

**(\*) –Mandatory**