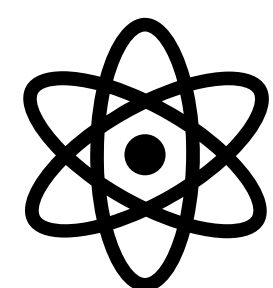




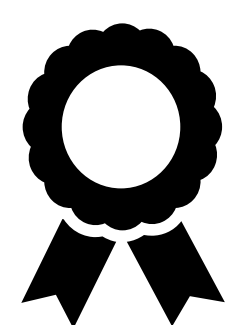
Basics:



Region (Country): Canary Islands (Spain)



Technology: Cloud-based HPC Simulation



Introduction: CIDIHub will act as the cornerstone of Digital Manufacturing in the Canary Islands by connecting digital technology providers with manufacturing entrepreneurs, SMEs and mid-caps; strengthening their competitiveness and opening up new business areas in the context of digitalization and Industry 4.0

Details:

Mission:

The mission of the CIDIHub is to place value on and offer a set of regionally customized services that enhances the effective participation of every stakeholder in Manufacturing and Cloud Computing and increases the number of digital manufacturing users and therefore beneficiaries of HPC and Cloud based Technologies

Benefits:

The CIDIHub will enable manufacturing companies to run applications and simulation processes in the cloud in an unprecedented way for a region like the Canary Islands, as well as more easily reaching all the external resources, services and expertise (training, mentoring, HPC, etc.) required to do this in a less time, effort and cost consuming manner. The specific benefits around the ecosystem of software/technology providers and end users are seen as: increased adoption and capacity, reduced costs through user friendliness of software, increased competitiveness through flexibility, new business models

Services:

1. Provision of simulation and computing power and digitization assistance
2. Shared research and fostering of public co-funded and collaborative RDI
3. Contract research, testing and validation
4. Training and education
5. Community building and dissemination activities
6. Supporting new businesses and startups

Main target sectors:

- Manufacturing in the maritime and offshore industries
- Additive manufacturing in the automotive industry
- Audio-visual and creative industry

Core partners:

- Avantalia Soluciones – Hub leader, coordinator and consultancy expert
- Institute of Technology and Renewable Energy – Competence Center
- FEMEPA and FEMETE - Manufacturing industry representatives
- Canary Government – Strategic and institutional support

Use cases:

1. Virtual Metrology in Remote Operated Vehicles: HPC-based virtual engineering services in the development of a high technical equipment to be used as tooling of submersible ROV (Remote Operated Vehicles) for offshore operations
2. HPC Quality Control services based on point-clouds for the automotive sector

Investment strategy and income sources:

- Renting of infrastructure, R&D&i contracts and services offer
- Membership tiers fee and in-kind contributions
- Innovation-oriented funds from regional public institutions
- Participation in R&D&i projects

Next steps:

1. Start operationalizing the Hub structure as a single entity with a unique mission in the Canary Island region, through the launching of some first services and activities included in its portfolio
2. Set the proper conditions for a wide spread dissemination and awareness creation about the Hub objectives, benefits for the region and role to be played in front of and among the rest of the regional innovation actors
3. Continue with the negotiations open with the main regional public institutions to raise some necessary initial funds to get even closer to the initiation phase, but even more important, to get the full engagement with the Hub initiative from most of those institutions
4. Enhance the contact process and follow up on different key stakeholders and expert in the regional innovation ecosystem to achieve their involvement as soon as possible, as well as increasing the number of core partners/members of the Hub