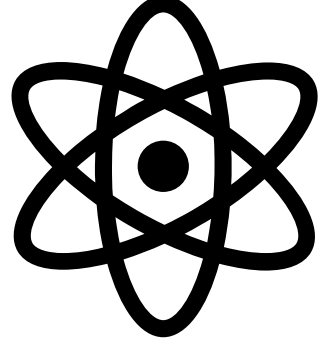




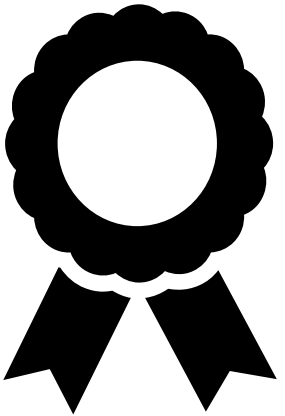
iAsturias4.0



Region (Country): **Asturias (Spain)**



Technology: **Robotics, CPS /IoT**

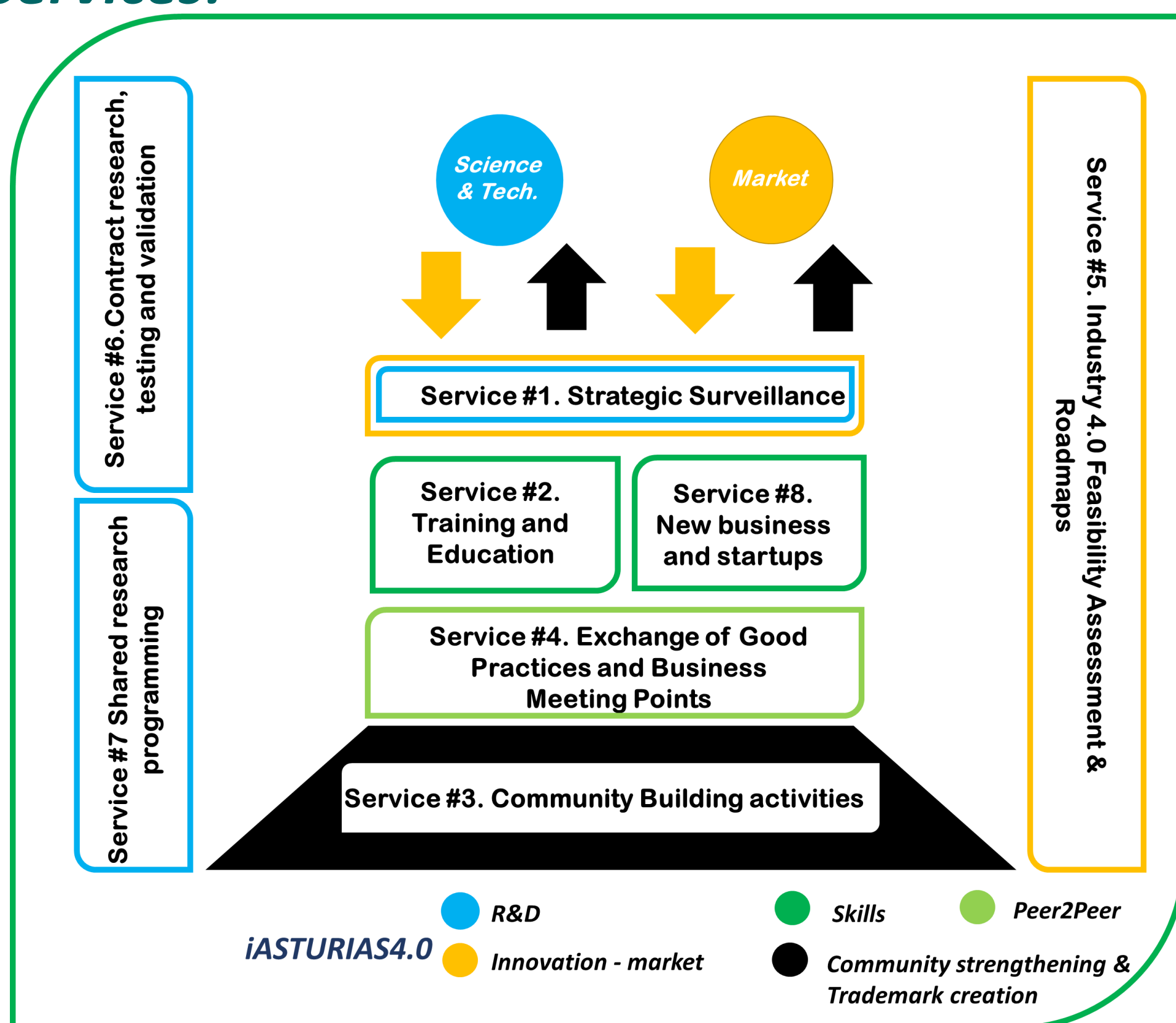


Introduction: iAsturias4.0 DIH pretends to be a unique and neutral “Referent site” for the regional stakeholders in the field of Industry 4.0. iAsturias4.0 DIH will offer knowledge and access to high technology equipment, industrial real demonstrators and testing labs where checking the potential of the technologies.

Why is the hub needed?:

- The **MISSION** of iASTURIAS4.0 DIH is to make Asturias a more attractive, rich, innovative and competitive region through the combination of ICT and manufacturing.
- **ADDED VALUE** offered by iAsturias4.0 DIH will rely on:
 - Creation of a Neutral Unique market place on Industry 4.0 and Building “Community 4.0”
 - Tailored services for digitalization
 - Knowledge and awareness on INDUSTRY 4.0 concept
 - New opportunities for cooperation, enabling digital businesses and funding

Services:



	iASTURIAS 4.0 platform									
	Robotics					CPS / IoT				
Simulation	Robot cell	Simulation software	Simulation software	Robot tools	Integration elements	Machine / Equipment	Simulation software	Sensors	Robot tools	Integration elements
IoT	Robot cell	IoT sensors	ICT platform	Integration elements						
Augmented Reality (AR)	Robot cell	AR sensors	AR sensors	ICT platform	Integration elements					
Machine Vision (MV)	Robot cell	MV sensors	MV sensors	ICT platform	Integration elements	Machine / Equipment	MV sensors	MV sensors	Sensors	Integration elements
Additive Manufacturing	Robot cell	AM equipment	AM elements	Integration elements						
Collaborative Autonomous / Mobile Robots	Robot cell	Robot cell	Integration elements							
System integration	Robot cell	Machines	Sensors	Integration elements	ICT platform	Machine / Equipment	Sensors	Integration elements	ICT platform	
Sensors						Machine / Equipment	Sensors	ICT platform	Integration elements	
Data analysis						Machine / Equipment	Sensors	ICT platform	Integration elements	
Decision algorithms						Machine / Equipment	Sensors	ICT platform	Integration elements	
Cloud services						Machine / Equipment	Sensors	ICT platform	Integration elements	
Cybersecurity						Machine / Equipment	Sensors	ICT platform	Integration elements	

Legend Existing infrastructure Planned

Use cases:

- **Robotics business case:** application of a robotic solution for welding during manufacturing cycle will notably reduce the health risks and increase equipment competitiveness.
- **IoT / CPS business case:** application of IoT to enable machine interconnection and integration so data is collected and it can help to take decisions during manufacturing processes and to increase industrial competitiveness.

Finance:

- **Costs forecasts:** Preparation of the building plan, Infrastructure, RDI personnel and project costs, other operational costs.
- **Incomes forecasts:** R&D&I projects, memberships, consultancy and services, others (renting out-infrastructure, conference fees, ...).
- **Investments forecasts:** partners, private investments, public.

Participants:

- Partners: **PRODNTec FEMETA**
- Governmental organizations:
- Universities:
- R&D centres: **PRODNTec CTIC**
- Manufacturing companies:
- ICT companies:
- Clusters and private organizations:

Next steps:

- **Partnership and legal status:** meeting with key players of the regional ecosystem in order to decide the final partnership, core partners, final legal entity and governance.
- **Financial resources:** many partners, investors, members, etc. must be involved in this initiative and their commitment is required in order to guarantee it is economically feasible.
- **Catalogue of services:** it is important to rank the portfolio of services according to the real demand and needs as well as where it can be useful.
- **Benefits and political approach:** to be updated on political issues where the DIH will be integrated.