RI4EU
Gateway to EU Robotics Initiatives

Introducing the Robotics DIH Networks Adra-e Meeting

Brussels 18th October 2022

RODIN

September 2022

Robotics Networks

DIHNET.EU

CSA 4 Years

DIH Network Coordination (Cross technology)

RODIN

CSA: 5 Years (2018-2023)

Network Coordination, Working Groups and Monitoring

IAs: Five Networks of DIHs total EC funding €80M E ach **IA** has €**16**M over 4 years (of which €**8**M is for Cascade FSTP Calls for SMEs) Total of **117** Participating organisations.

DIHERO

Healthcare

agROBOfood

Agri-Food

RIMA

ROBOTICS FOR INSPECTION AND MAINTENANCE

Inspection and Maintenance of Infrastructure

trinity

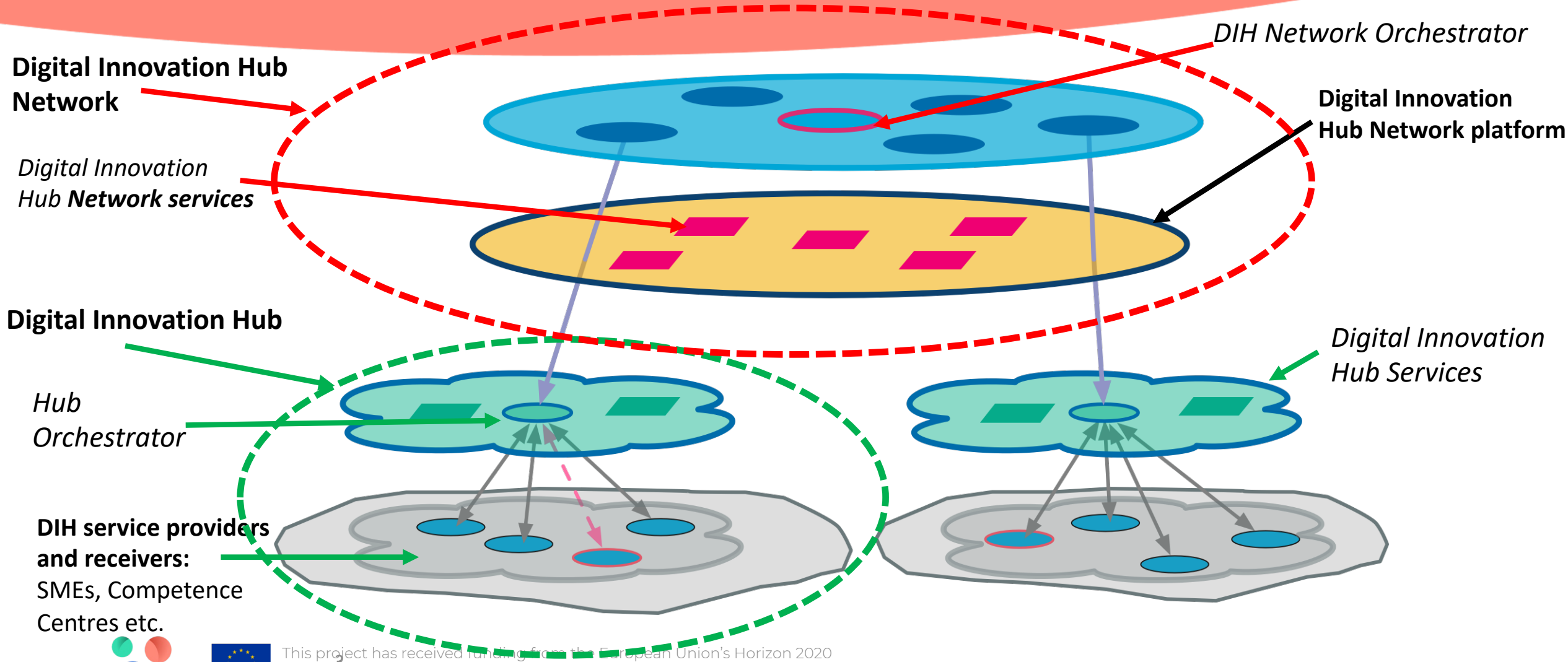
ENGAGE WITH AGILE MANUFACTURING

DIH²

Agile Production

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825263.

Robotics DIH Network Ecosystem



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DIH networks *(Sector Focus)*

Each network composed of multiple individual hubs

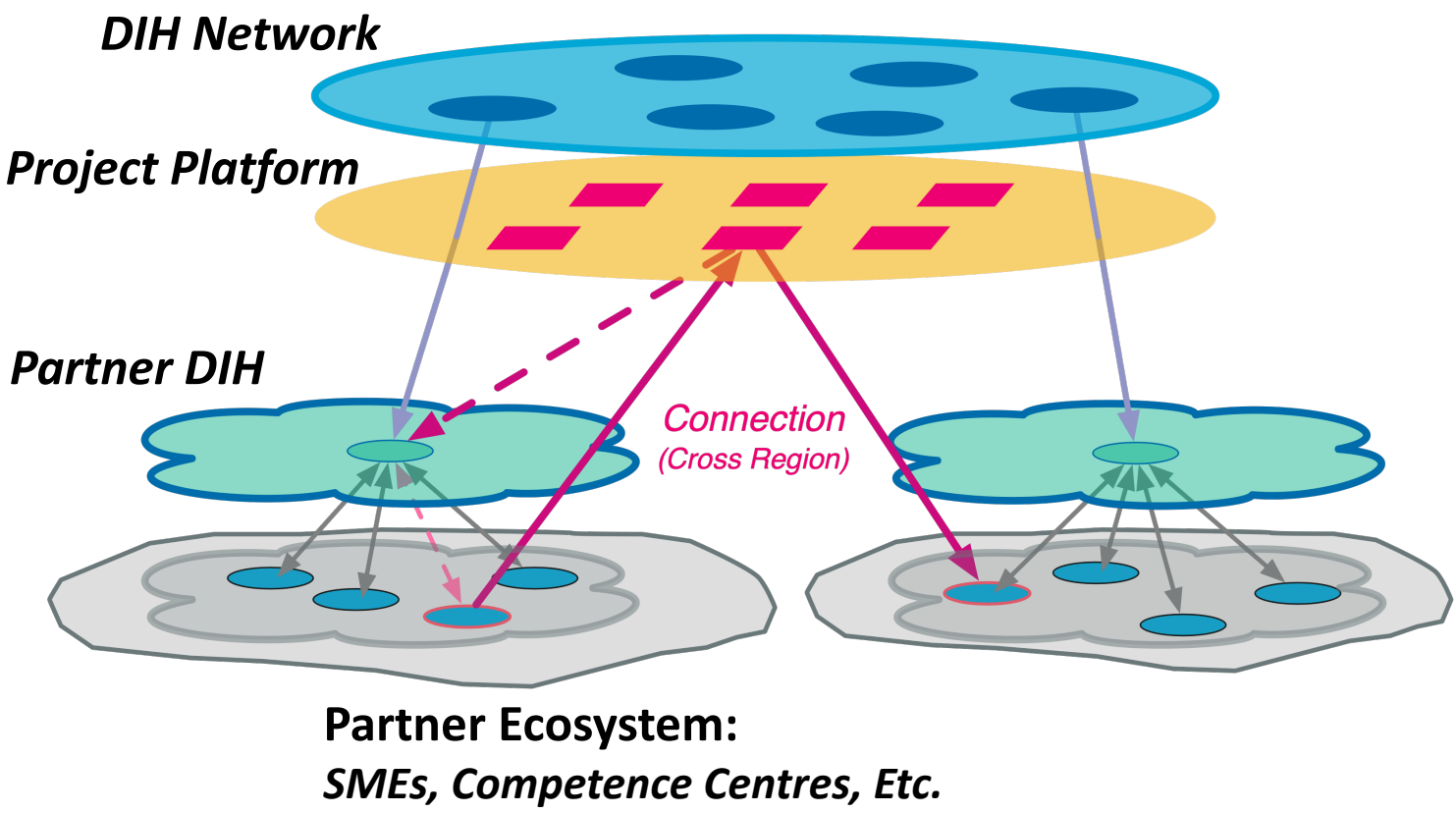
- RTOs and Universities already offering services in their local region

To provide network services across Europe

- Cohere an eco-system
- Gather platform data
- Provide access (cross region)
  - to research
  - to finance
  - to testing and demonstration
- Interface to Pilot projects.
- Enable standards development

Funded for four years:

- Run multiple cascade calls
- Stimulate cross regional developments
- Expected to create sustainability on completion



Network Services

DIH Network Services

European Wide Focus

Inter regional services

Linkage to European initiatives

Promote DIH Best practice

Eco-System	EU-Community building
	EU-Strategy development
	Strategic EC advice
	Collaborative EU awareness creation
	EU wide promotion and representation
	Mapping the Eco-System
Technology	Align/Synchronise technologies
	Organising Pan-EU research
	Aligning regional RDI investments
	Pan-EU scouting RDI collaboration
	Technology trend watching
	Technology assessment
Business	Initiating interregional collaborations
	Development of EU-proposals
	Individual RDI business support
	Initiate interregional corridors
	Access to finance for EU-collaboration
	Centralised maturity assessment
Skills	EU access to available expertise
	Joined EU training of industry/research
	Train the trainers
	Pan-EU policy training
	Skills information repository
	Standardisation of certification

Hub Services

Eco-System	Community building
	Strategy development
	Ecosystem learning
	Represenation, Promotion
Technology	Strategic RDI
	Contract Research
	Technical support on scale-up
	Provision of technology infrastructure
	Testing and validation
Business	Incubator/accelerator support
	Access to finance
	Project development
	Offering housing

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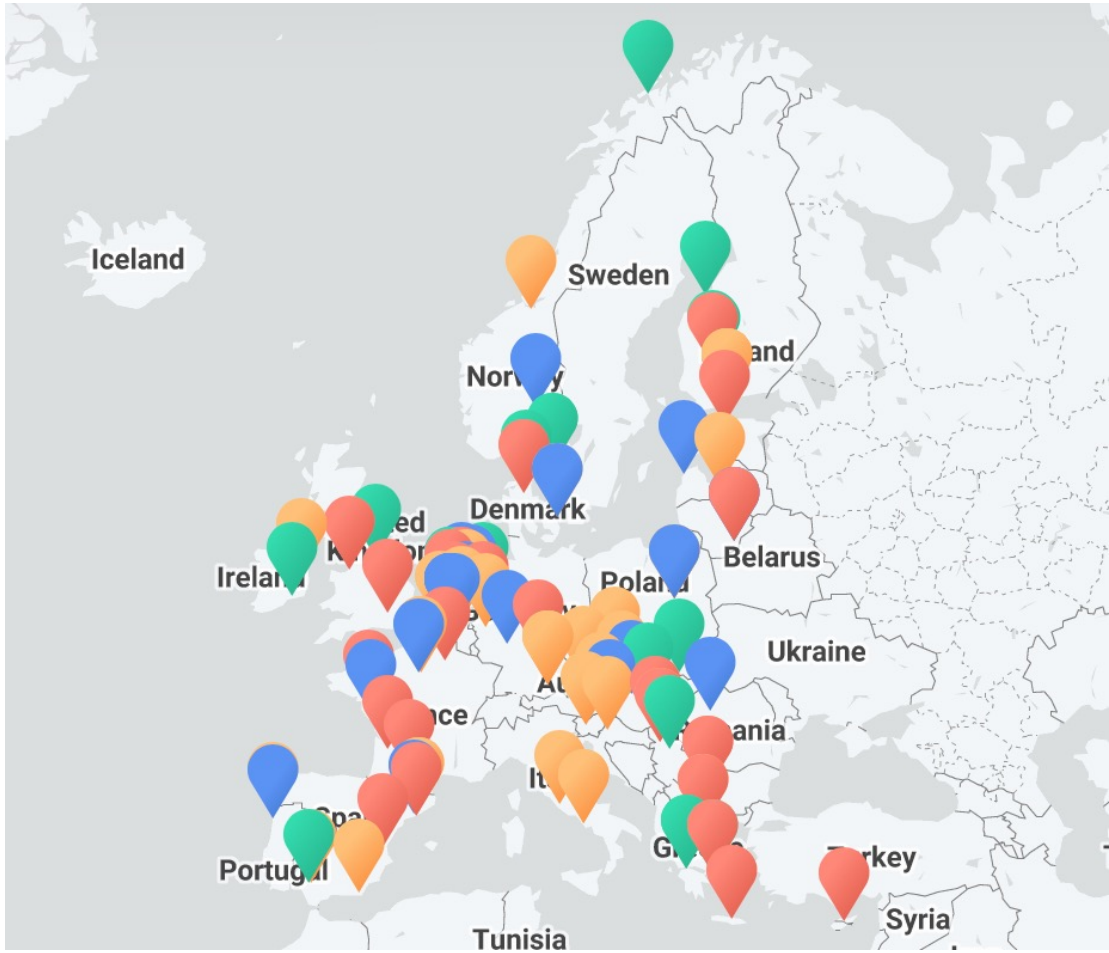
Key Impacts: European Impacts

- European visibility of robotics in sector
- One step access to sector specific resources
- Identification of European strengths
- Feed into European level roadmaps
- Wider promotion of sector success stories
- Best practice propagation
- Strategy and policy engagement



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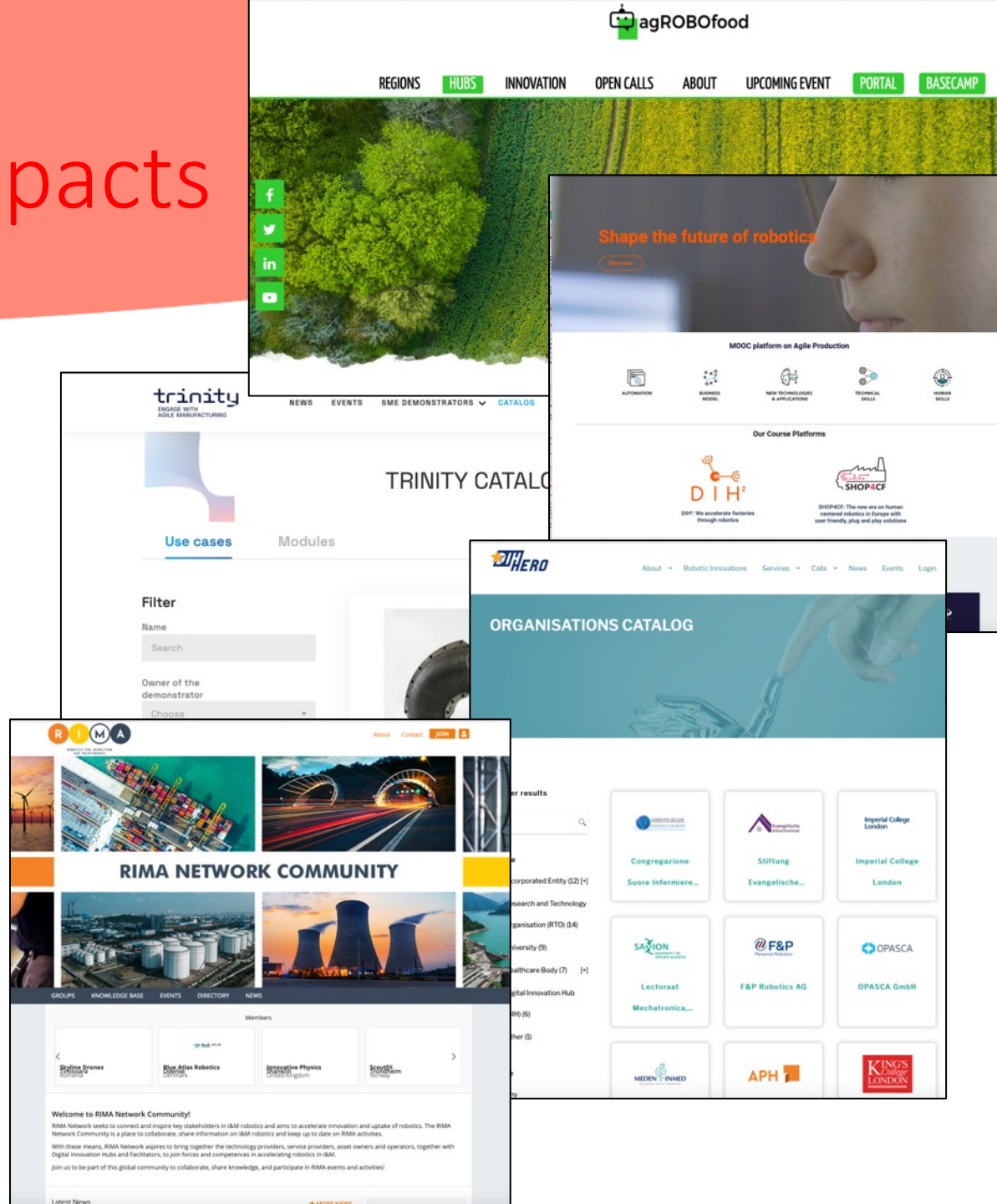
Key Impacts: Network Impacts

- Promotion of sector excellence in robotics
- Network service delivery
  - Network services (through DIH to SMEs)
  - Creation of networking effects
- Platforms, catalogues and knowledge bases
  - Defines and identifies the eco-system
  - Stimulates connectivity
  - Collation of third party services
  - Common resources
- Sector level focal points
  - Promotion of market access
  - Market and innovation definition
  - Regulation and standardisation



RI4EU

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A continuing journey…

- Networks are building towards becoming sustainable
- Operation beyond funding creates challenges
- However there are considerable benefits in achieving sustainability

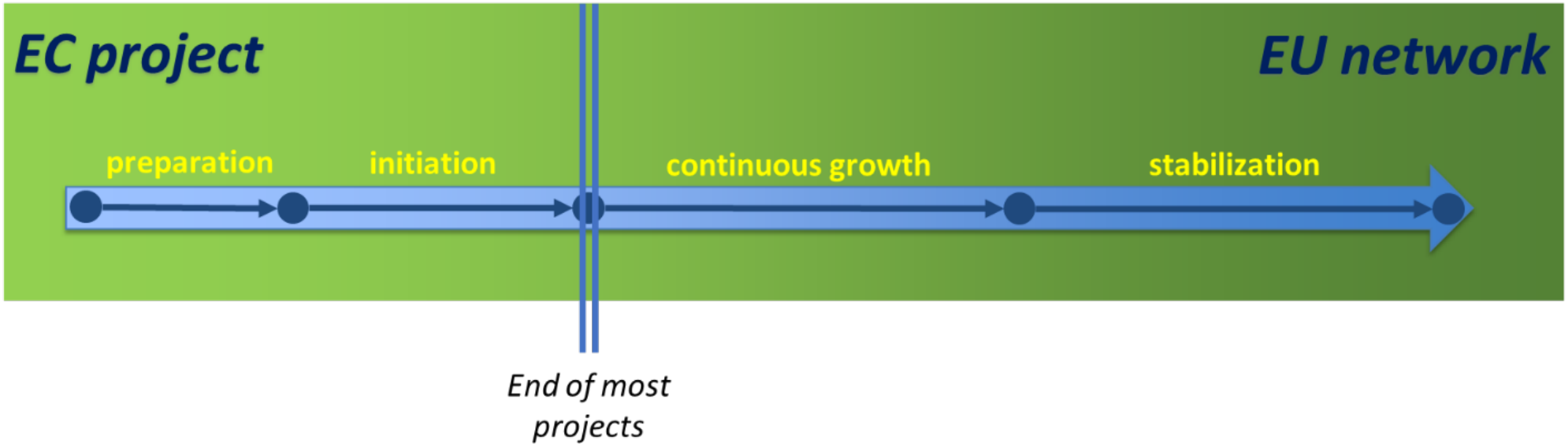

Figure 5: Phases in network development (© 2021 TNO, as part of the work in EU-GREAT!, DIHNET, RODIN projects).

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Sustainability

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In the end each network needs to be sustainable:

- manage the transition from public to private funding
- find a business model that preserves brand identity,
- create value
- attract membership.

→

Develop network IP and Assets for continued use

Identify and deliver Services in addition to the DIHs

Create cohesion and identity for the stakeholders

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Future Value add: RI4EU

- Creates a cohesive collection
  - Single point of access to all key sectors
  - Supports sustainability
  - Promotes visibility of robotics
  - New networks can be added
- Umbrella identity (brand)
  - Full buy-in from networks
  - Independent of limited time projects
  - Unifies impact over a wide base
  - Equivalent to I4MS brand
- RI4EU is not a platform (or a logo)
  - Platforms remain with the Networks
  - Represents cohesion and visibility

The robotics community needs be distinct from the AI community.
This requires distinct and recognisable branding to ensure that Robotics has visibility and identity at a European level.

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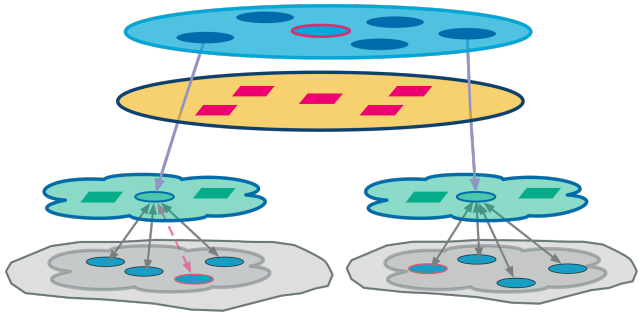
EDIH…

Characteristic	EDIH	DIH
Legal Status	Formal legal status	Informal status
Reach	Regional and European	Regional (DIH Networks can be European)
Adopter focus	Early and Late Majority	Innovators and Early adopters
Stakeholders	Industry and Public Sector	Innovators and related
Formation	Member State and EC selection process	National and regional policy and self-selection
Funding	Formal through DEP; 50:50 split (EC + Member States)	No fixed funding process
Specialisation	Aligned to regional Smart Specialisation	Focused on existing regional need
Multiplier effect	Access to unique local expertise scaled to Europe	Regional scaling (DIH Networks can have European scaling)
Local impact	Enable broad access to digital acceleration + spread of advanced technologies	Enhance regional innovation and technology development. Spread within region.
Training	Trained on Advanced Technologies.	No centralised technology training

Sector Specific, Robotics. based
Digital Innovation Hub Networks
Vertical Horizontal intersection focused on tech Transfer at lower TRL



Interaction Possibility?

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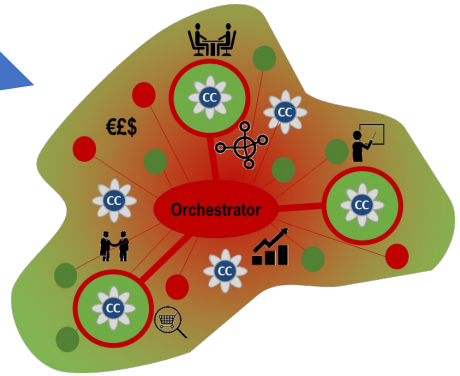
Digital Transformation Accelerator



European Digital Innovation Hubs
Technology agnostic Sector agnostic
Joint EC and MS funding
200 Regions

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