Why a European DIH community?

Project Europe: to create value for all

exchange experiences

pan-EU value chains

leading edge technologies

Project Europe

synergies & complementarities

new business opportunities

impact public funding

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Regions & European networks collaborate

regional

European

- exchange experiences
- pan-EU value chains
- leading edge technologies
- synergies & complementarities
- new business opportunities
- impact public funding

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# The evolution of DIH community over the years
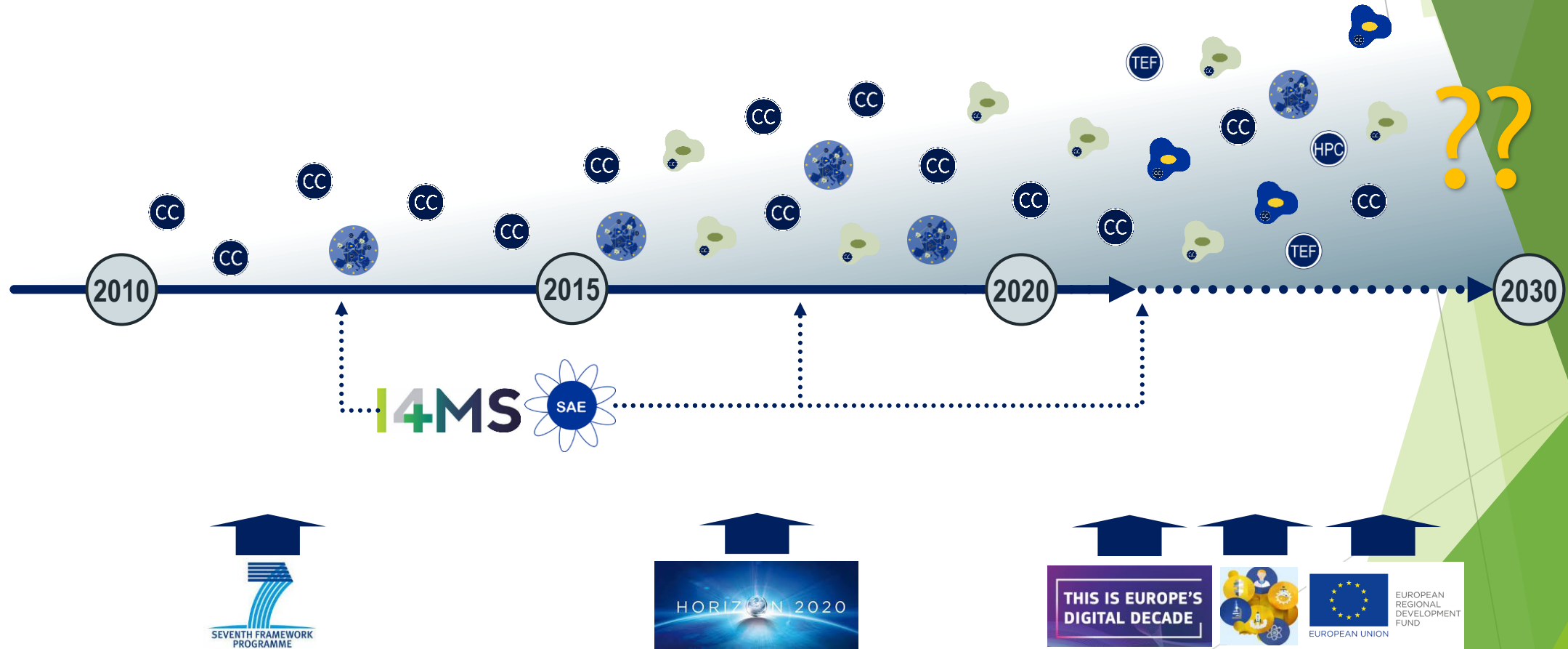
Developments in our community

- **Advanced Digital technologies have become pivotal**
  - Competitiveness, greening, circular, resiliance, the pandemic, social inclusion

- **Expanding "hubs" to other policies**
  - DIGITAL, Horizon Europe, ERDF, national/regional policies, SmartSpecialisation, ATI

- **From manufacturing to other sectors**
  - Agro, chemical, bio, energy, transport, public, defence

!!!!European Digital Innovation Hubs!!!!

- **DIHs in all kind of shapes**
  - ERA-hubs, EIT innovation hubs, Open Innovation Testbeds, Technology Centres, EEN/clusters, Technology Infrastructure Hubs

- **From EU policy towards regions**
  - Key in national policies and regional policies

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From four to many building blocks in the community
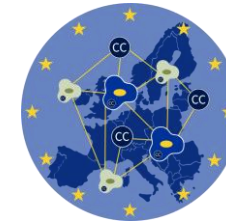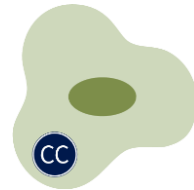
But it is getting busy!
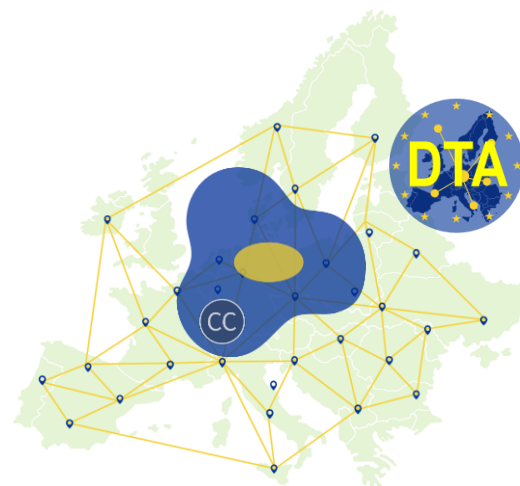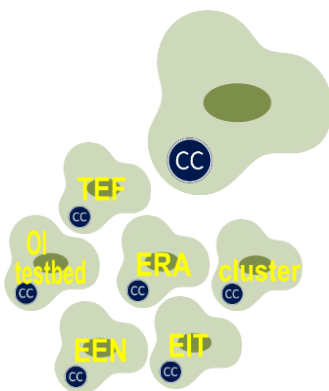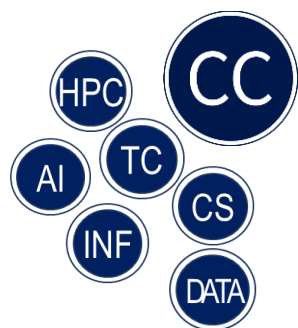
Challenges for the future

- Reducing **overlap**, increasing synergies and aligning efforts

- Getting "**private**" involved, including industry and finance

- Organising high quality, relevant **information**

- Creating viable **interregional collaborations** connecting the regions in Europe

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Our vision on the future of the European DIH community

Main functions in the community

Main functions in the community

forging interregional collaborations

network

information/ coordination

infra *expertise*

boosting the regional innovation ecosystem

enhancing the EU technology and industrial base

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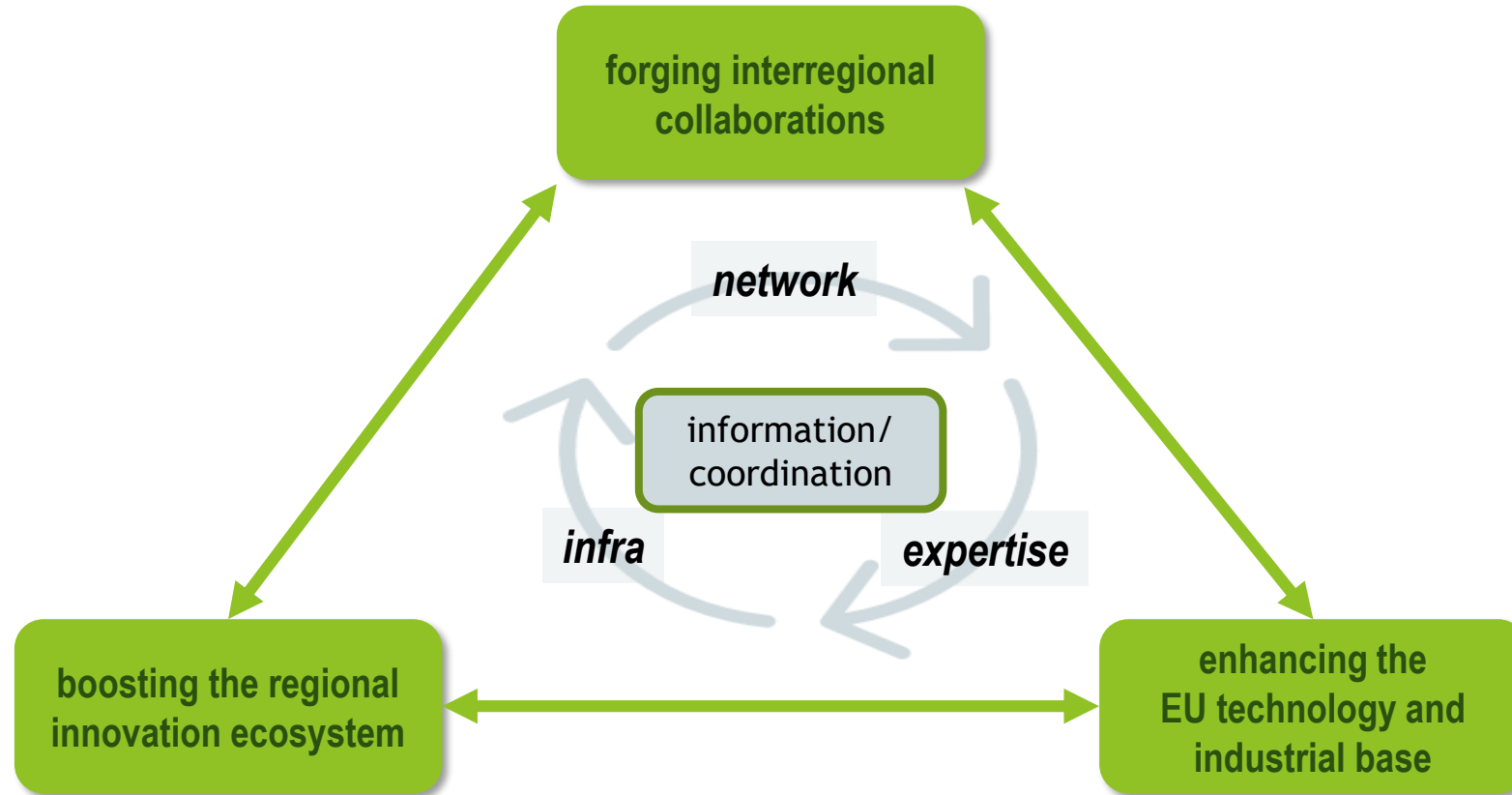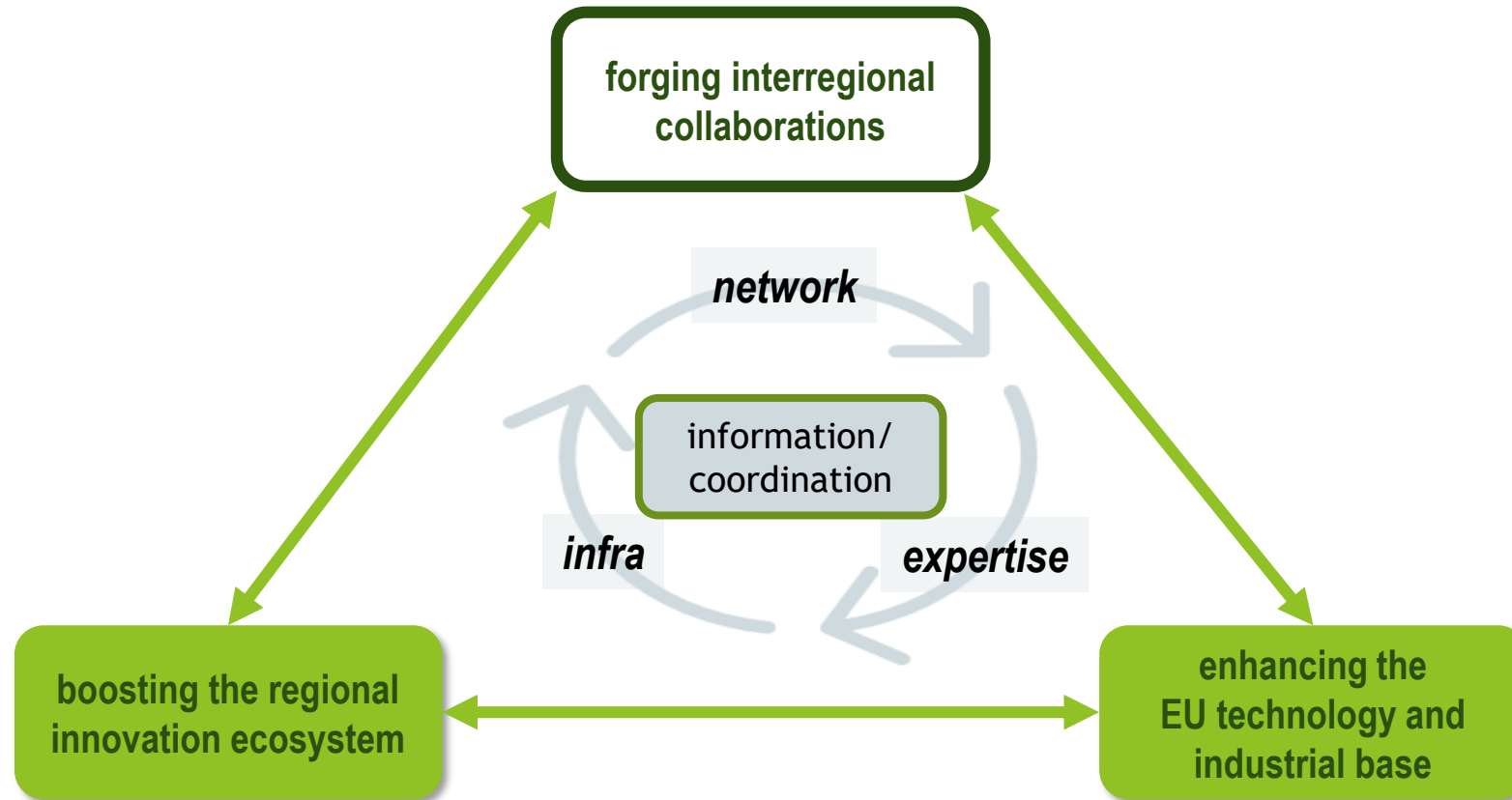
Alignement of the regions and Europe

regional

- orchestrate **regional** collaboration on innovation
- acces to **regional RDI** capacities/capabilities
- conduct applied **research**
- boost regional **use of advanced technologies**
- transform **research into application**

European

- orchestrate **EU collaboration** on innovation
- access to **EU RDI** capacities/capabilities
- forge EU **collaboration** on critical technologies
- support **access to markets** in Europe
- create **European** innovation **strategies**

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The future EU DIH community is about:
Demarcating and aligning responsibilities

	Forging collaboration	Enhancing the base	Boosting the region	Information & coordination
	regional brokerage	aligning regional RDI	coordinating regional capacities	coordinating regional information
	offering capacities	transforming research into business	connecting industry-research	providing regional RDI information
	actual collaboration	conducting RDI	providing infra/expertise	regional RDI data collection
	coordination interregional collaborations	aligning EU RDI activities	connecting interregional capacities	EU RDI data collection
	brokering EU-capacities	connecting interregional expertise	access to experiences	make available data on RDI
	EU specific RDI strategies	EU RDI awareness creation	access to SOTA infra/expertise	coordinating RDI data collection

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Creating Interregional Innovation Corridors!

corridor
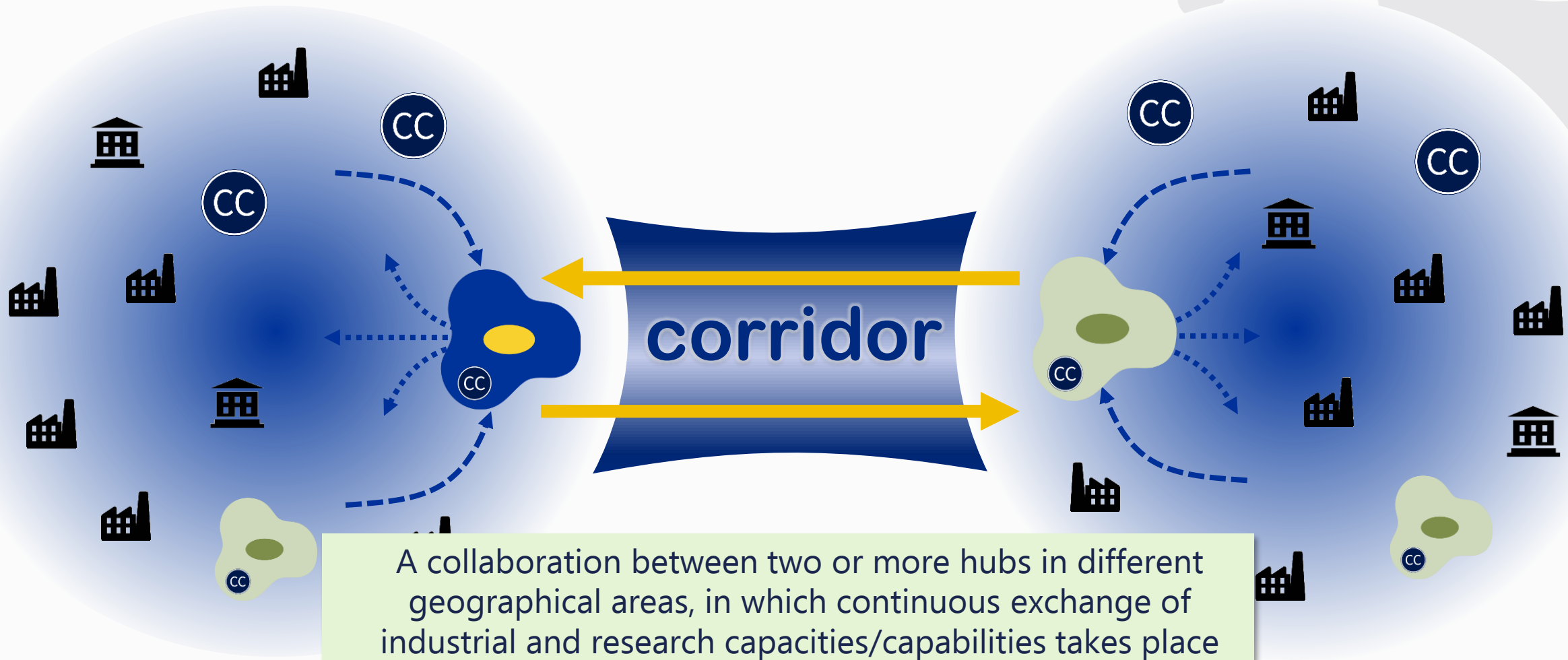
A collaboration between two or more hubs in different geographical areas, in which continuous exchange of industrial and research capacities/capabilities takes place

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BOWI Five levels of Interregional Corridor collaboration

IC5 Synchronized	structural participation regional stakeholders, joined funding, synchronization of RDI, joined strategy/actions
IC4 Managed	institutionalised, aligned strategies, active scouting, EU-value chains, pro-active corridor activities
IC3 Structural	basic formalised structures, anticipatory capacity, pro-active industry/research projects, (limited) corridor activities
IC2 Responsive	(limited) preparation to respond, re-active, informal, part of an EU-project
IC1 Casual	ad-hoc, opportunistic, informal, individual contacts, sharing knowledge

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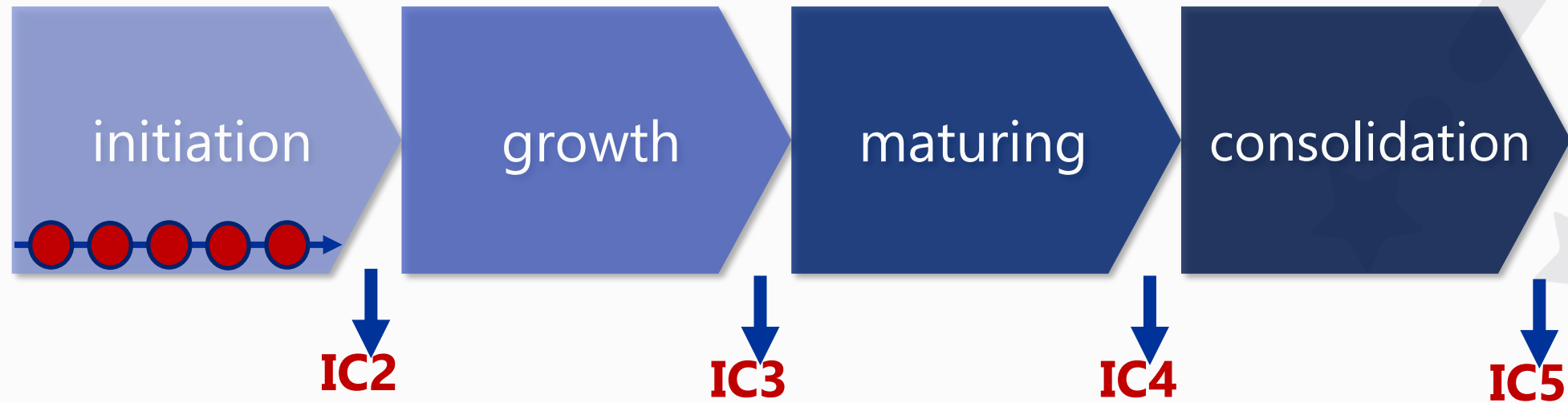
Phase 1: Initiation towards a critical mass
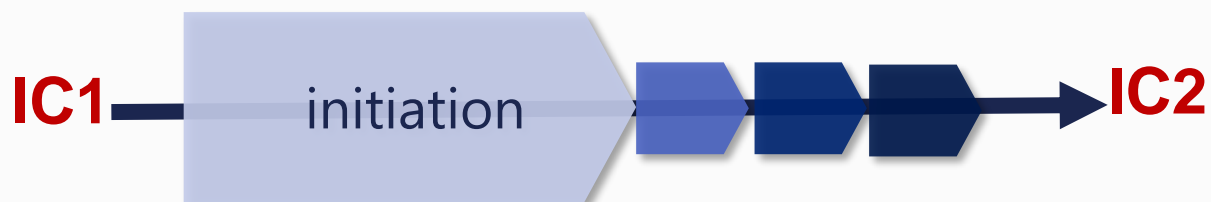
IC1 — initiation → IC2

Objective
A critical mass of collaboration, with a committed view and plan on the future development

| initiate contact | exchange information on ecosystems | explore collaboration opportunities | experiment and evaluate collaboration | weigh advantages and disadvantages |

① ② ③ ④ ⑤

decision, commitment and preliminary plan

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Tools for the steps in phase 1: Initiation

Overview of tools that can be used to support the activities in the steps in phase 1.

IC1 → initiation → IC2

1 initiate contact

2 exchange information on ecosystems

3 explore collaboration opportunities

4 experiment and evaluate collaboration

5 weigh advantages and disadvantages

1 initiate contact
- Standard background paper for vision on corridors
- Presentation on corridors
- Instruction for first contact discussions

2 exchange information on ecosystems

heatmap

focus and characteristics
- Instruction for mapping ecosystems and their SWOT

3 explore collaboration opportunities
- Template for pitching projects
- Template longlist potential collaboration initiatives
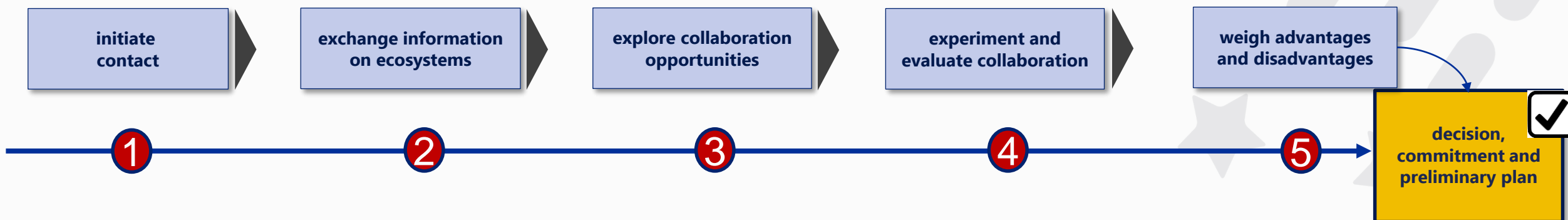- Checklist/decision tree benefits assessment for identified initiatives
- Background document on corridor governance structures

4 experiment and evaluate collaboration
- Overall description of the process of conducting experiments
- Good practice reporting template
- Background document and presentation to discuss corridor development
- Overview financing opportunities for corridor collaborations

5 weigh advantages and disadvantages
- Template for collaboration plan
- Background document to the next phase of corridors
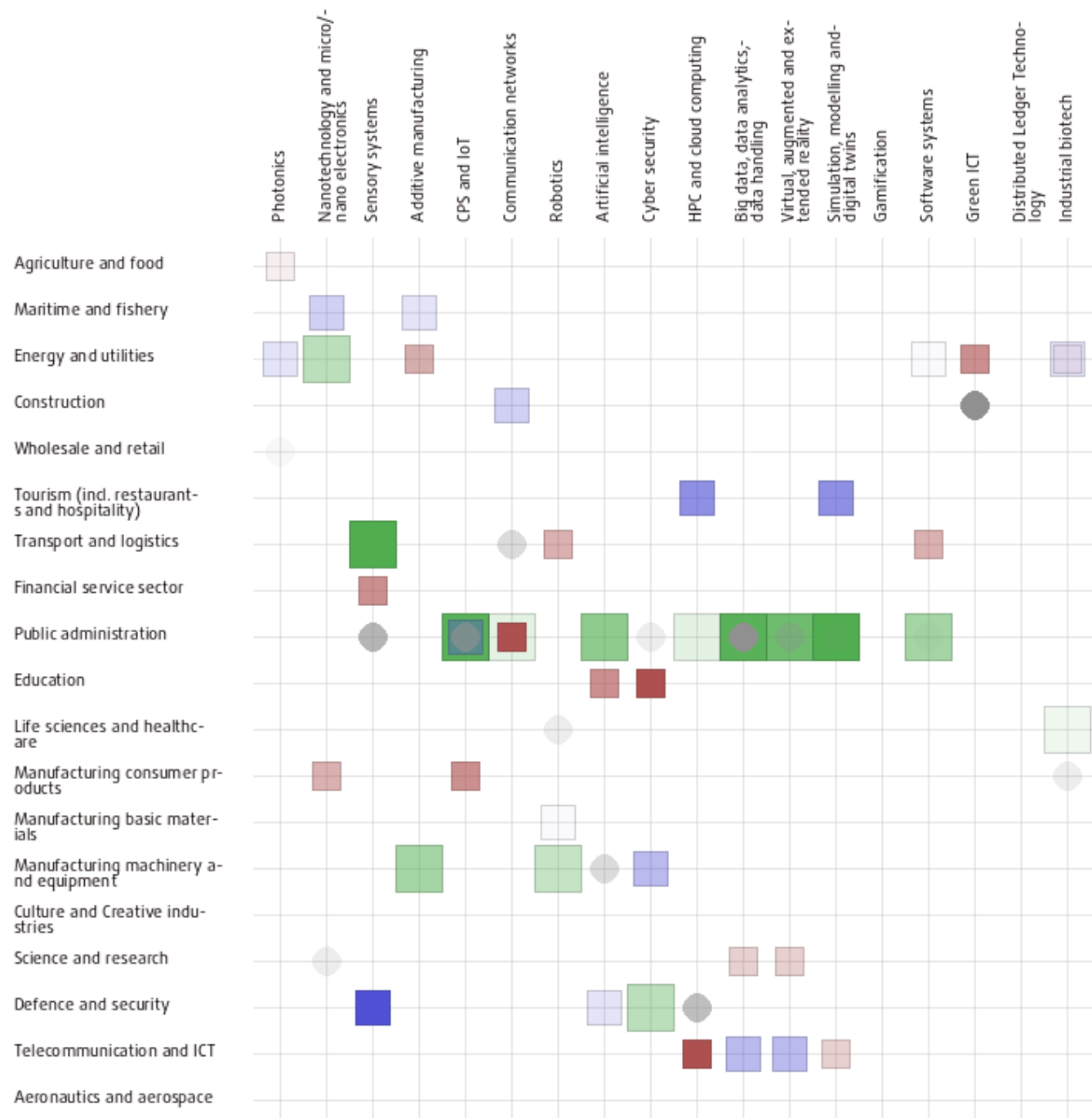- Backgrounds on the decision making proces for collaboration

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Heatmap: A way to profile the organisation

pEDIH West Bohemia (example) : Table of specialisation : Profile

SPECIALISATION	Photonics	Nanotechnology and micro/nano electronics	Sensory systems	Additive manufacturing	CPS and IoT	Communication networks	Robotics	Artificial intelligence	Cyber security	HPC and cloud computing	Big data, data analytics, data handling	Virtual, augmented and extended reality	Simulation, modelling and digital twins	Gamification	Software systems	Green ICT	Distributed Ledger Technology	Industrial biotech
Agriculture and food											JOINED							
Maritime and fishery		CAPACITY																
Energy and utilities		Spec: 03	Spec: 03	JOINED	CAPACITY			Spec: 03	Spec: 03	CAPACITY	Spec: 03		Spec: 03				Spec: 03	
Construction		CAPACITY	CAPACITY	SEEKING	CAPACITY			SEEKING		CAPACITY	JOINED	SEEKING	CAPACITY					
Wholesale and retail			JOINED		JOINED													
Tourism (incl. restaurants and hospitality)								SEEKING										
Transport and logistics			JOINED		Spec: 02	Spec: 02	SEEKING	Spec: 02	Spec: 02	CAPACITY	Spec: 02	Spec: 02	Spec: 02				Spec: 02	
Financial service sector																		
Public administration			CAPACITY		CAPACITY	JOINED		JOINED	JOINED	CAPACITY	JOINED				CAPACITY		JOINED	
Education																		
Life sciences and healthcare		Spec: 04	Spec: 04	Spec: 04	Spec: 04		JOINED	Spec: 04	SEEKING	CAPACITY	Spec: 04	Spec: 04	Spec: 04			Spec: 04		Spec: 04
Manufacturing consumer products		SEEKING		JOINED	SEEKING			SEEKING	JOINED	SEEKING			CAPACITY		CAPACITY			JOINED
Manufacturing basic materials		Spec: 05		Spec: 05		CAPACITY												JOINED
Manufacturing machinery and equipment		SEEKING	Spec: 01	Spec: 01	Spec: 01	Spec: 01		Spec: 01	CAPACITY		Spec: 01	Spec: 01	Spec: 01			Spec: 01		
Culture and Creative industries																		
Science and research	JOINED	JOINED	CAPACITY	CAPACITY	JOINED		JOINED	JOINED	CAPACITY	JOINED	JOINED	JOINED	CAPACITY					JOINED
Defence and security			JOINED		SEEKING	SEEKING		CAPACITY	CAPACITY	JOINED	JOINED	CAPACITY						
Telecommunication and ICT		JOINED	JOINED		SEEKING	JOINED	JOINED	CAPACITY	CAPACITY	JOINED	SEEKING							
Aeronautics and aerospace								JOINED	JOINED	JOINED	JOINED	JOINED						

Enabling finding opportunities for collaborations

Areas with overlapping specialisms

Areas were expertise is asked

Areas were expertise is offered

Areas were both nodes want to join efforts

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So, concluding

▶ Limiting overlap and maximizing on synergies of existing initiatives, in a layered and demarcated approach

▶ Alignment of information collection, but with a distributed approach

▶ Strong interaction with private industries, actively involving commercial service providers and a European VC mechanism

▶ Active pursue and support of creating sustainable corridors to limit long-term collaborations

▶ *On the backbone of the EDIH network, but expanding its scope to other technologies*

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Thank you!

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