Digital Innovation Hubs: Agile Production

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Workshop Objectives

- Explore what a DIH is expected to deliver
  - the value added
  - the potential impact
  - sustainability
- Examine the range of stakeholders in a DIH
- Show how the DIH should connect
  - regions
  - other DIH's
  - innovation structures.
  - funding sources
- Discuss the issues surrounding delivering FSTP
  - funding support to third parties (FSTP).

Strategic Impact

Societal Challenge

LEIT

Excellen Science

KETs

SMART Systems

cPPPs

ETPs

I4MS

European Innovation Partnership on Smart Cities and Communities

SPARC
The Partnership for Robotics in Europe

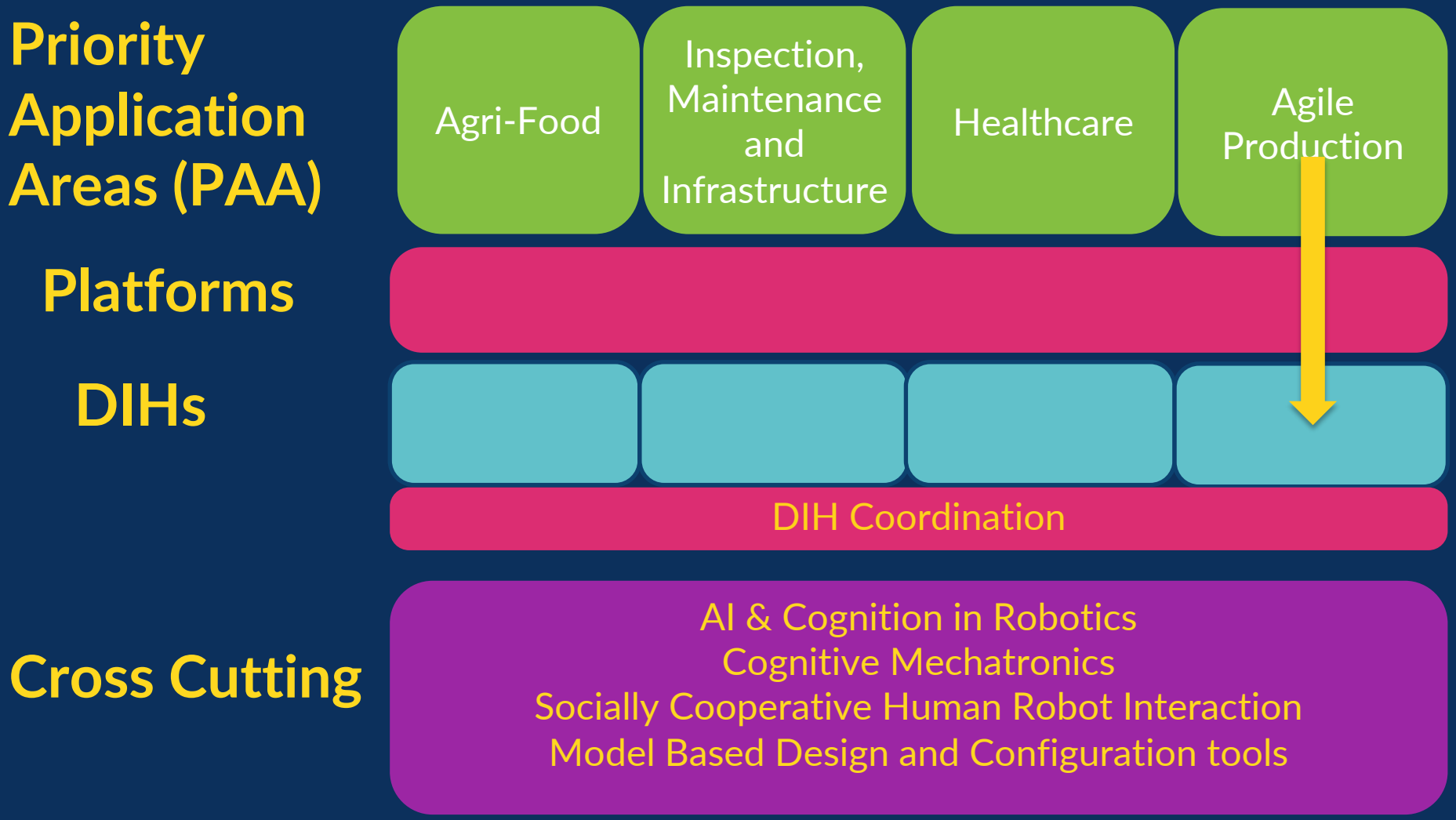
EIT-Health

EIT-Digital

EFFRA
EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION

ECSEL JU

Robotics WP Overview



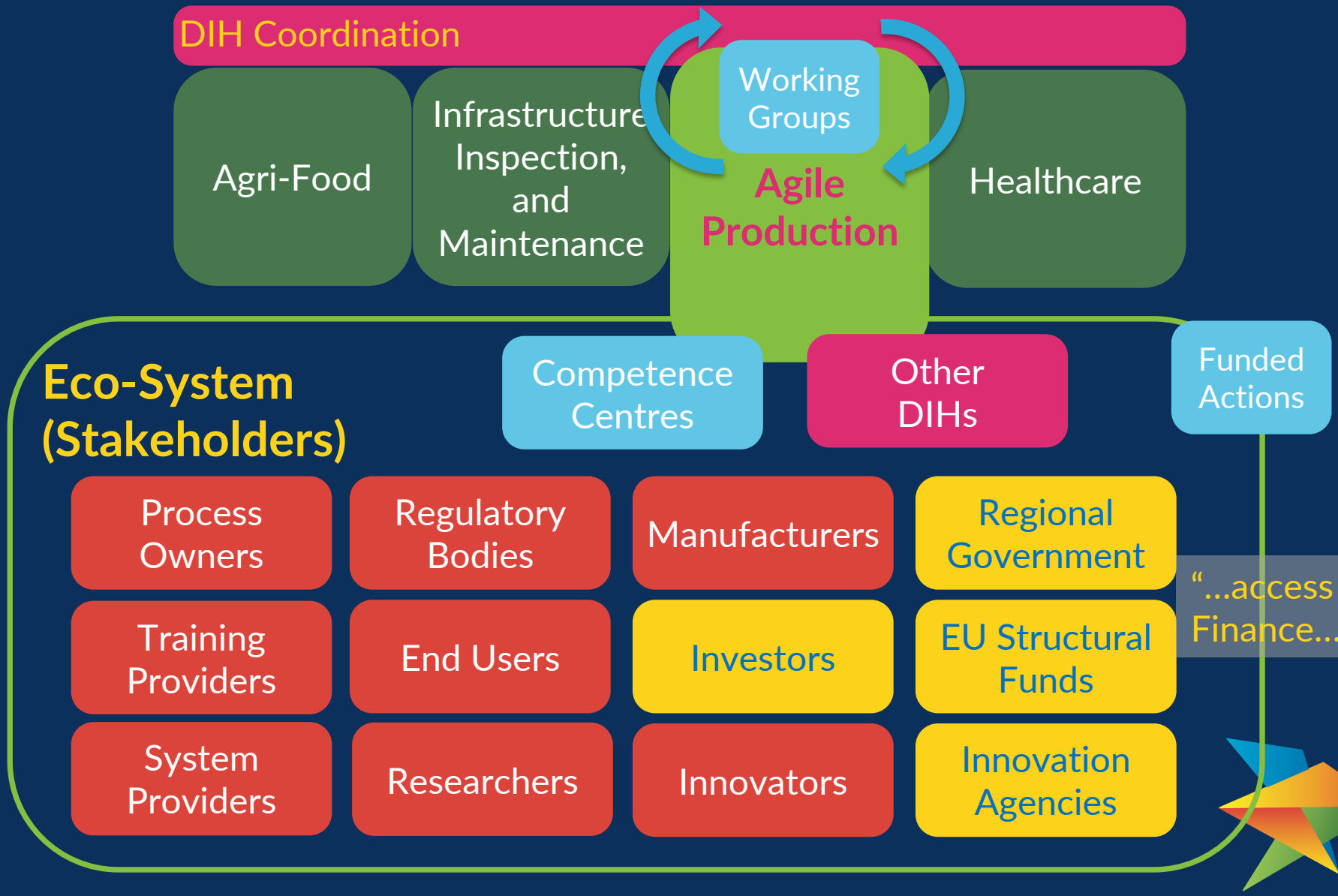
Consortia

- Deeply rooted in regional/national
- Critical mass of highly innovative, cross border experiments.
  - At least 50% of the budget should directly benefit SMEs or slightly bigger companies.
- Activities should aim at long-term sustainability
  - and include a business plan for the digital innovation hubs,
  - a plan
    - to attract investors,
    - to address training and skills development needs
    - and dissemination.
  - Use established networks reaching out to SMEs like the Enterprise Europe Network and the NCP network.
- collaborate on building a network of Digital Innovation Hubs, covering most regions in Europe.

Robotics DIH

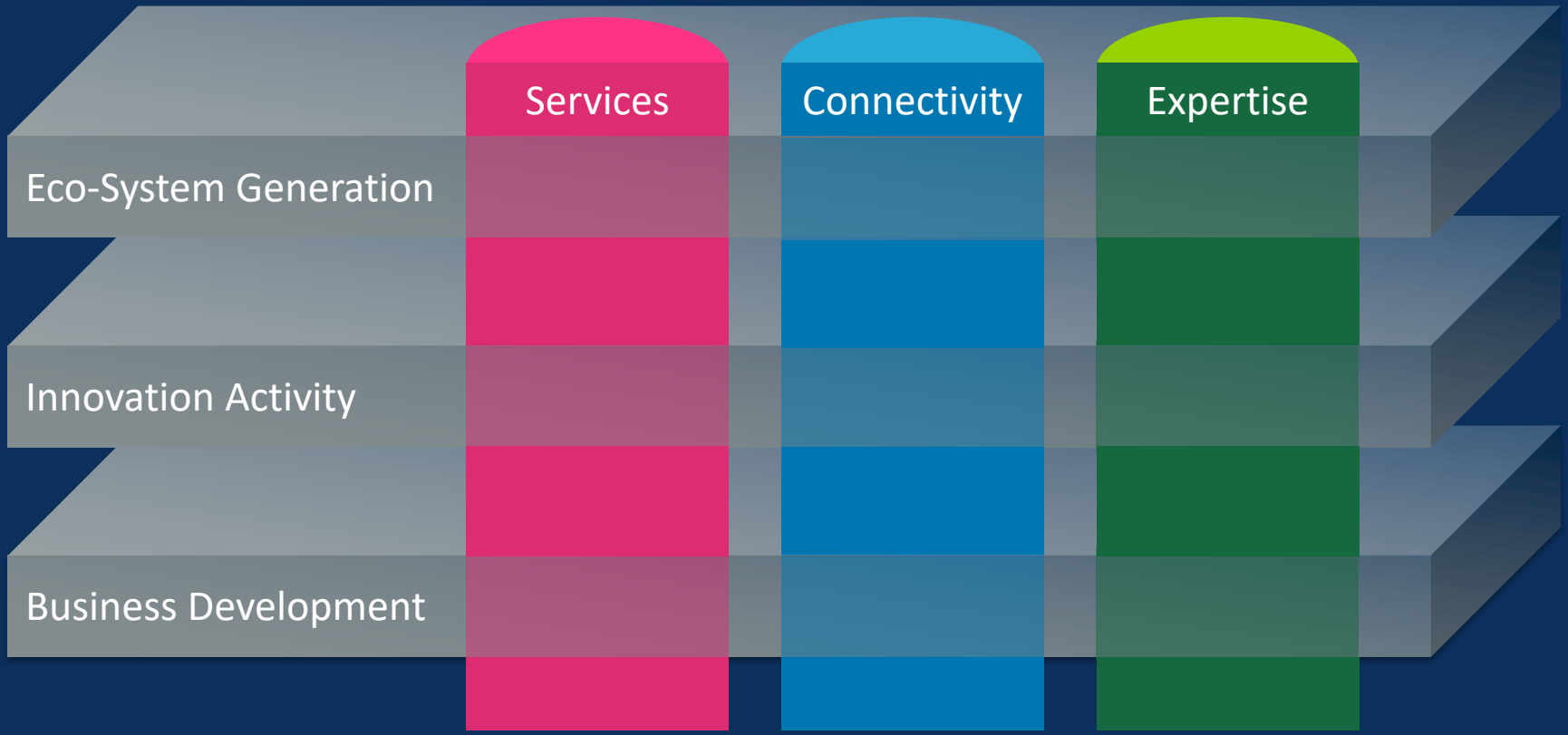
- Sector based DIH
  - Access to technology
  - Access to testing facilities
  - Standards
  - Platforms
- Market barrier reduction
- Cross sub-sector remit
- Communication with
  - Central CSA through Working Groups
  - Funded actions
  - Other robotics DIHs

DIH Eco-System

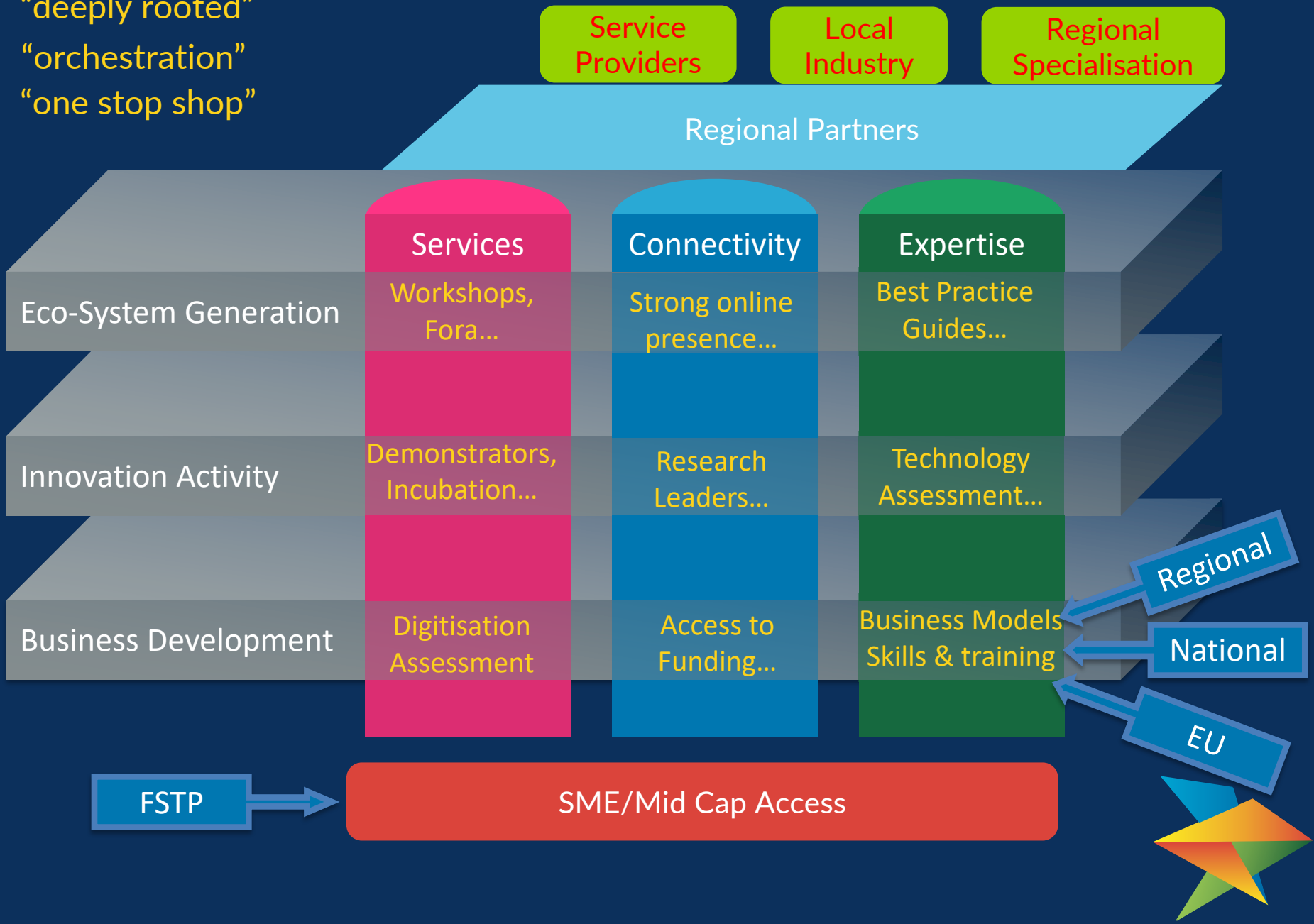


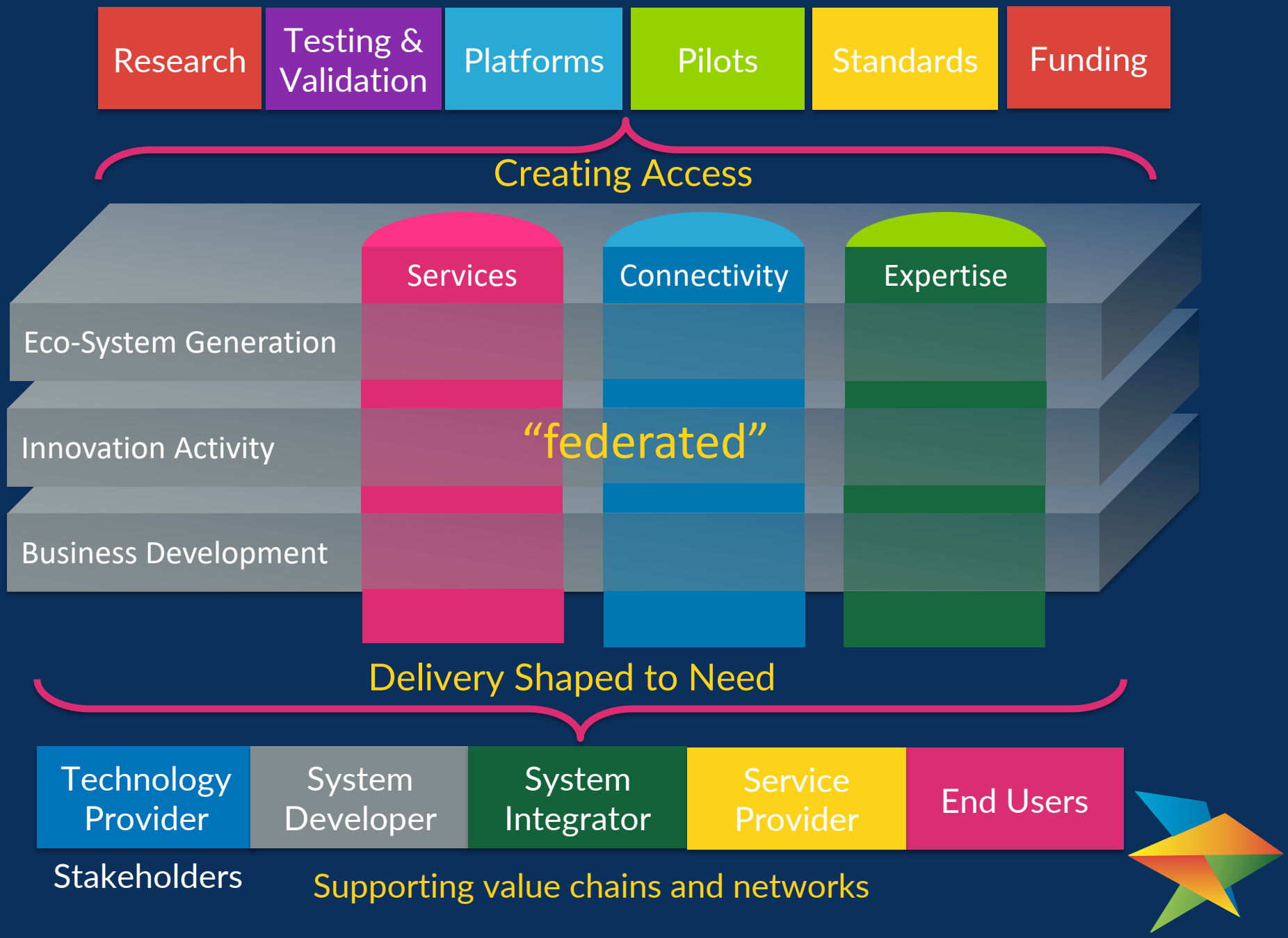
DIH Actions

"Identify added value"



"deeply rooted"
"orchestration"
"one stop shop"

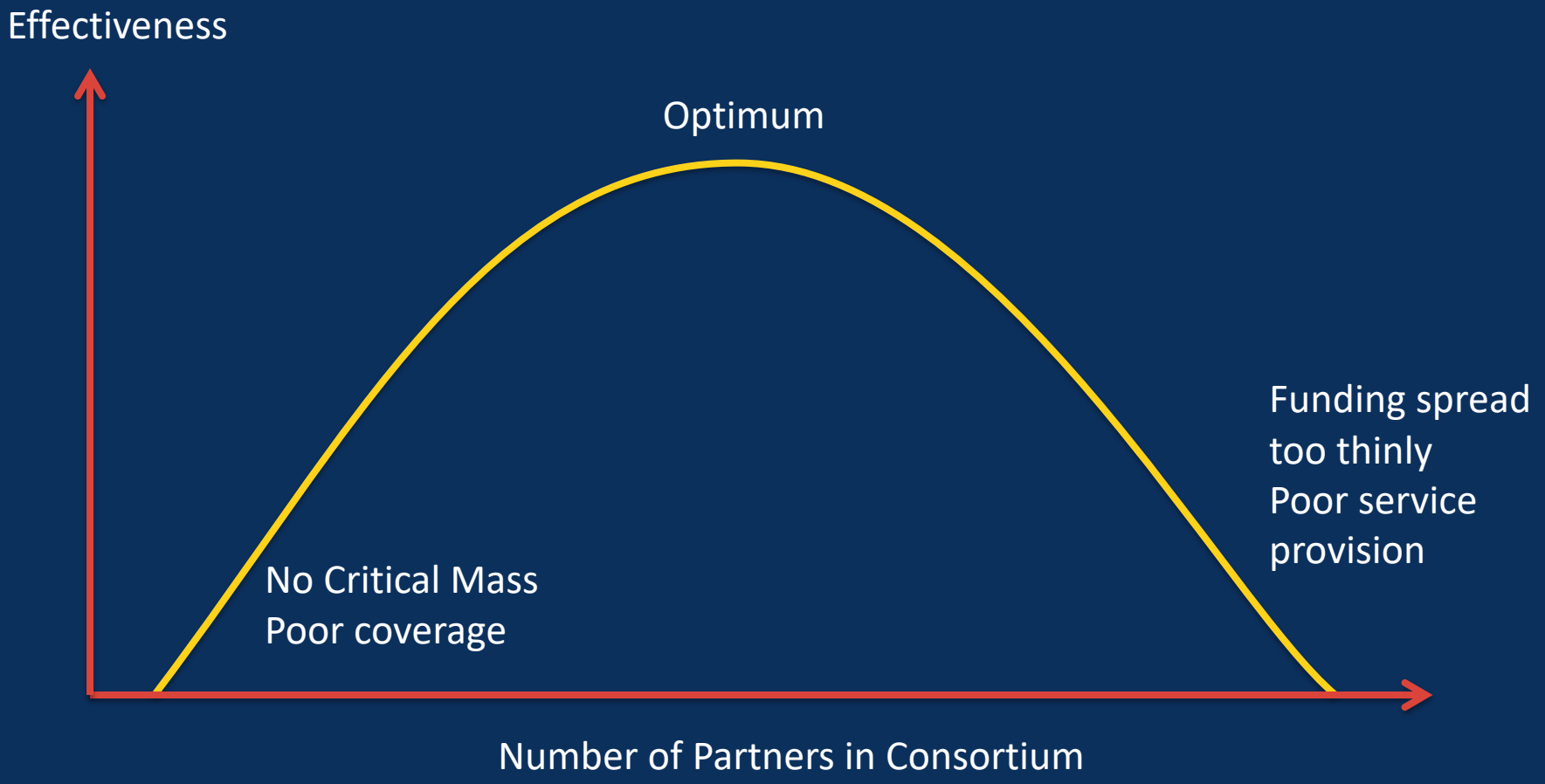



Research
Testing & Validation
Platforms
Pilots
Standards
Funding
Creating Access
Services
Connectivity
Expertise
Eco-System Generation
Innovation Activity
Business Development
“federated”
Delivery Shaped to Need
Technology Provider
System Developer
System Integrator
Service Provider
End Users
Stakeholders
Supporting value chains and networks

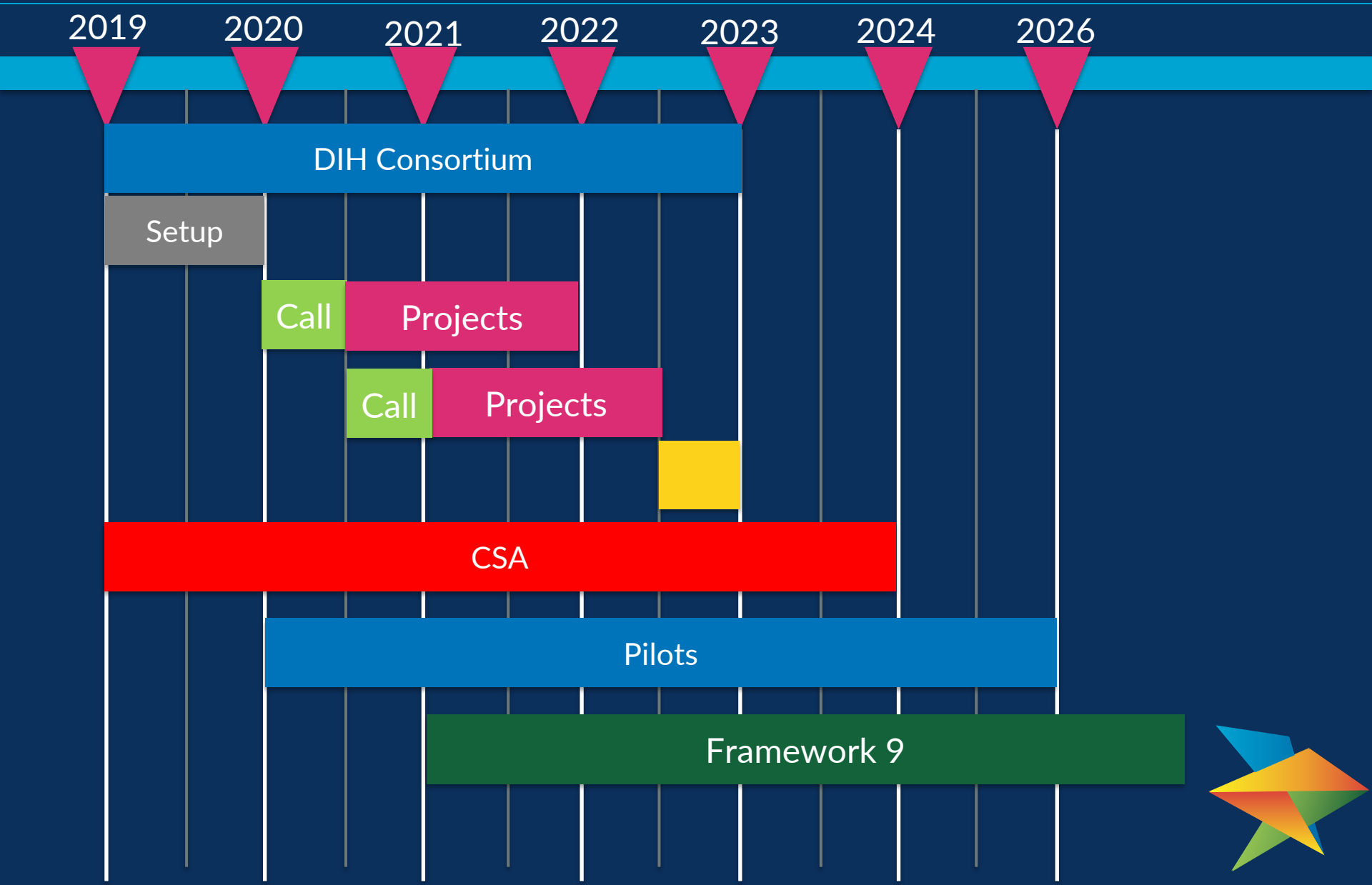
From the Work Programme

- Present a network of DIH
- Deliver services
  - Technical and non-technical
- Contribute to common system platforms
  - Including cross development
  - Support open system platforms
- Manage FSTP funding
- Provide access to and disseminate
  - best practice
  - relevant research results
- Engage in the development of industry led standards
- Develop and maintain demonstrators:
  - standards demonstrators
  - use case demonstrators at TRL5 and above
- Facilitate access to pilots
- Contribute to Working Groups:
  - with funded actions
  - with central DIH CSA
- Address ethical, data, protection, cyber security issues
- Coordinate access to technology

Consortium Size



Example Timeline



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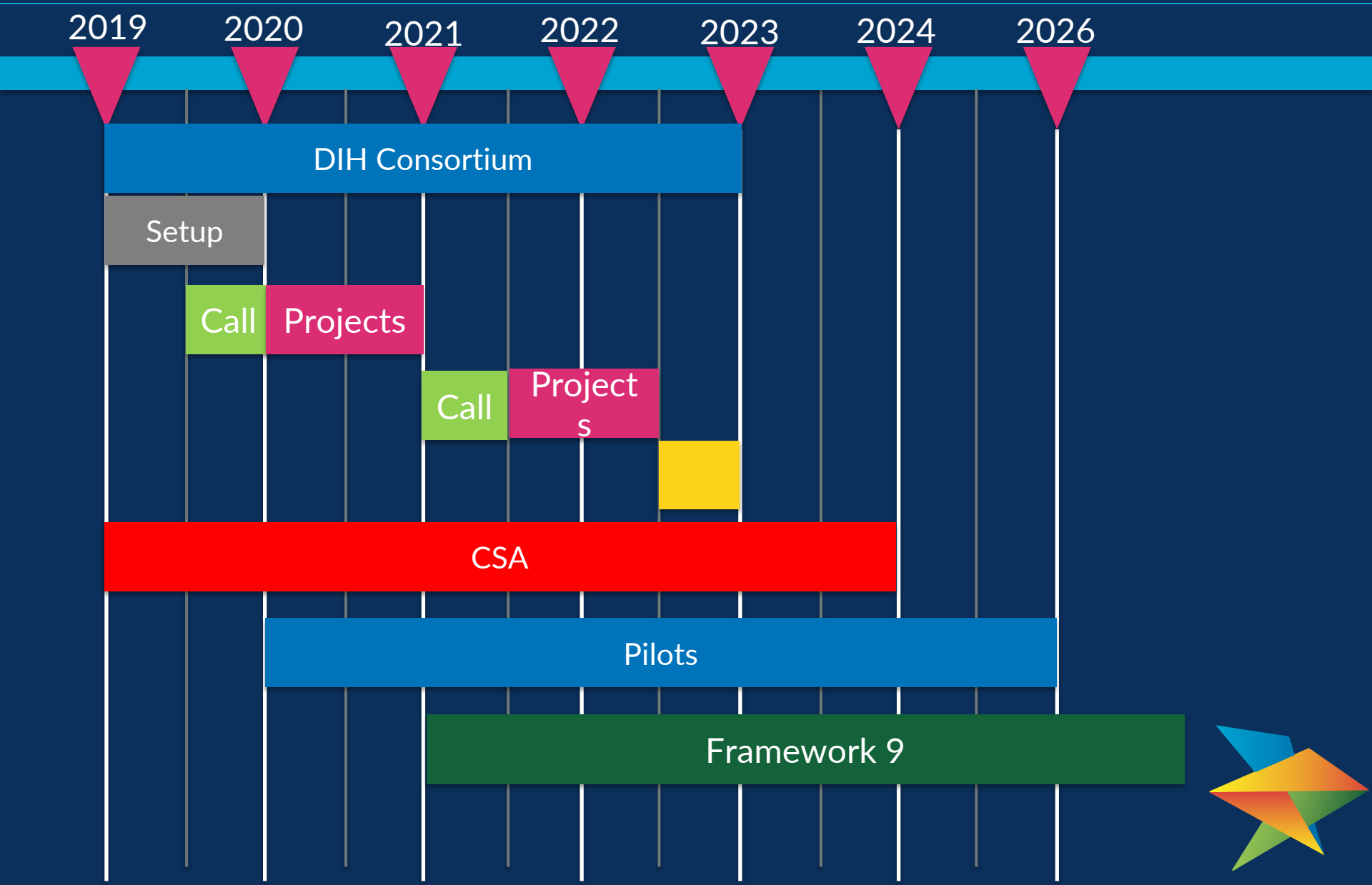

Delivering a Community

Global Reach

- DIH networks create communities
- Cross collaboration essential
- CSA Coordinates
  - Between communities
  - Between sectors
- Working together will accelerate innovation

Expected impact

- Increased deployment of robotics.
- Formation of supply chains around platforms and modules
- Introduction of cross-industry-based standards for modules and systems
- Generation of new businesses based around platform supply
- The development supply chains.
- Leveraging effect on other sources of funding, in particular regional and national funding

Breakout Rules

- NO EMAIL
  - We need everyone to engage
- Think strategically
  - This is **about exploring collaboration and the delivery of services.**
- **Write up on flip charts**

Breakout 1: DIH value added

- Who are the DIH stakeholders?
  - Who would add value?
  - Who would gain value?
- What is the overall value added by the DIH?

Breakout 2: Connecting and delivering

- What services should be offered by the DIH?
- What connectivity does a DIH need to develop?

- Are there existing platforms and pilots?
- What standards might it influence?
- What facilities already exist in Europe?