

# Digital Innovation Hubs: Agile Production

David Bisset

iTechnic Ltd

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# Workshop Objectives

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- 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

Excellent  
Science



European Innovation  
Partnership on Smart  
Cities and Communities

EIT-Health  
EIT-Digital

SPARC  
The Partnership for  
Robotics in Europe

cPPPs  
ETPs  
I4MS

KETs  
SMART  
Systems



# Robotics WP Overview

**Priority  
Application  
Areas (PAA)**

Agri-Food

Inspection,  
Maintenance  
and  
Infrastructure

Healthcare

Agile  
Production

**Platforms**

**DIHs**

DIH Coordination

**Cross Cutting**

AI & Cognition in Robotics  
Cognitive Mechatronics  
Socially Cooperative Human Robot Interaction  
Model Based Design and Configuration tools



# 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.



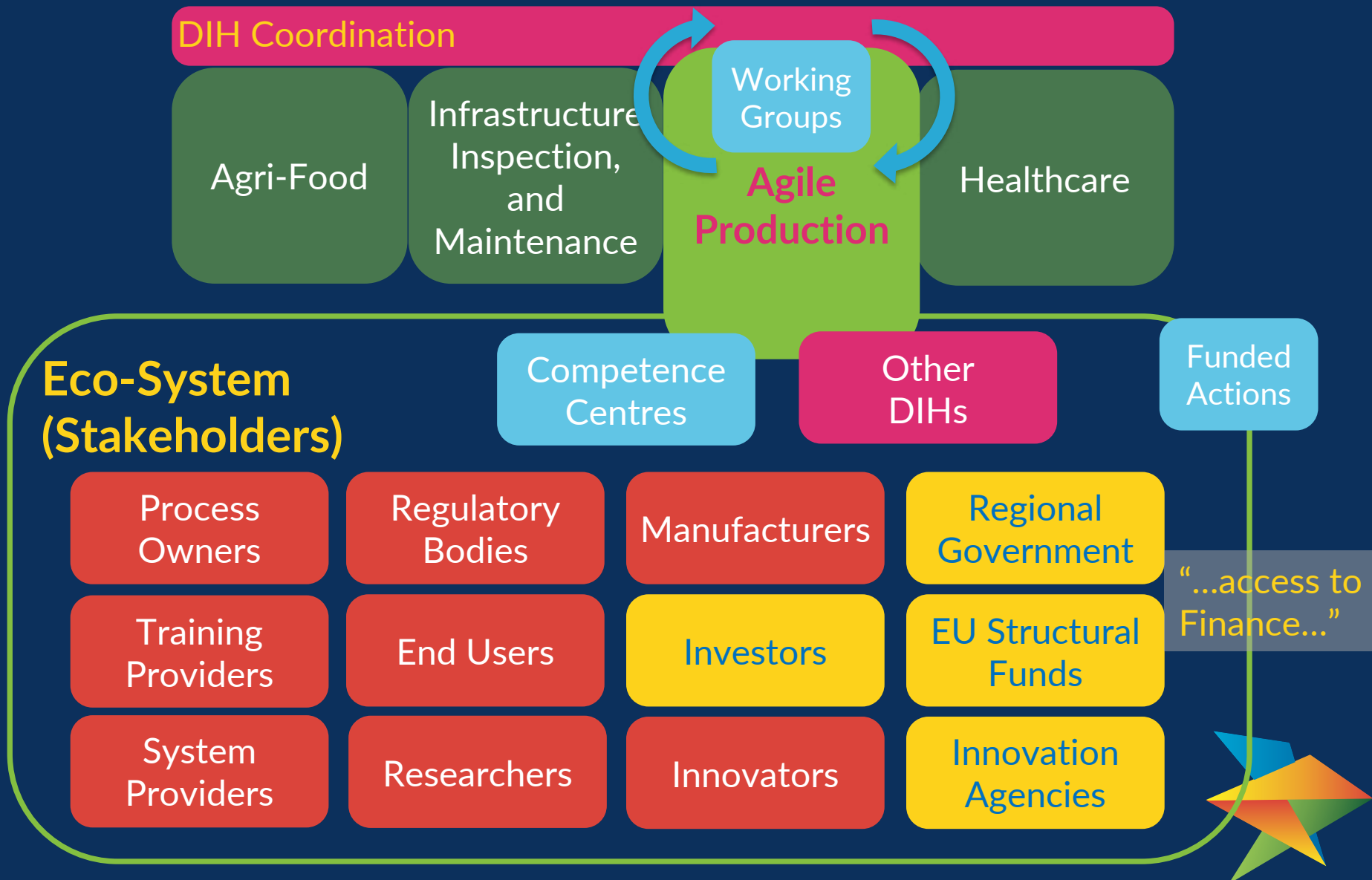
# Robotics DIH

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- 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

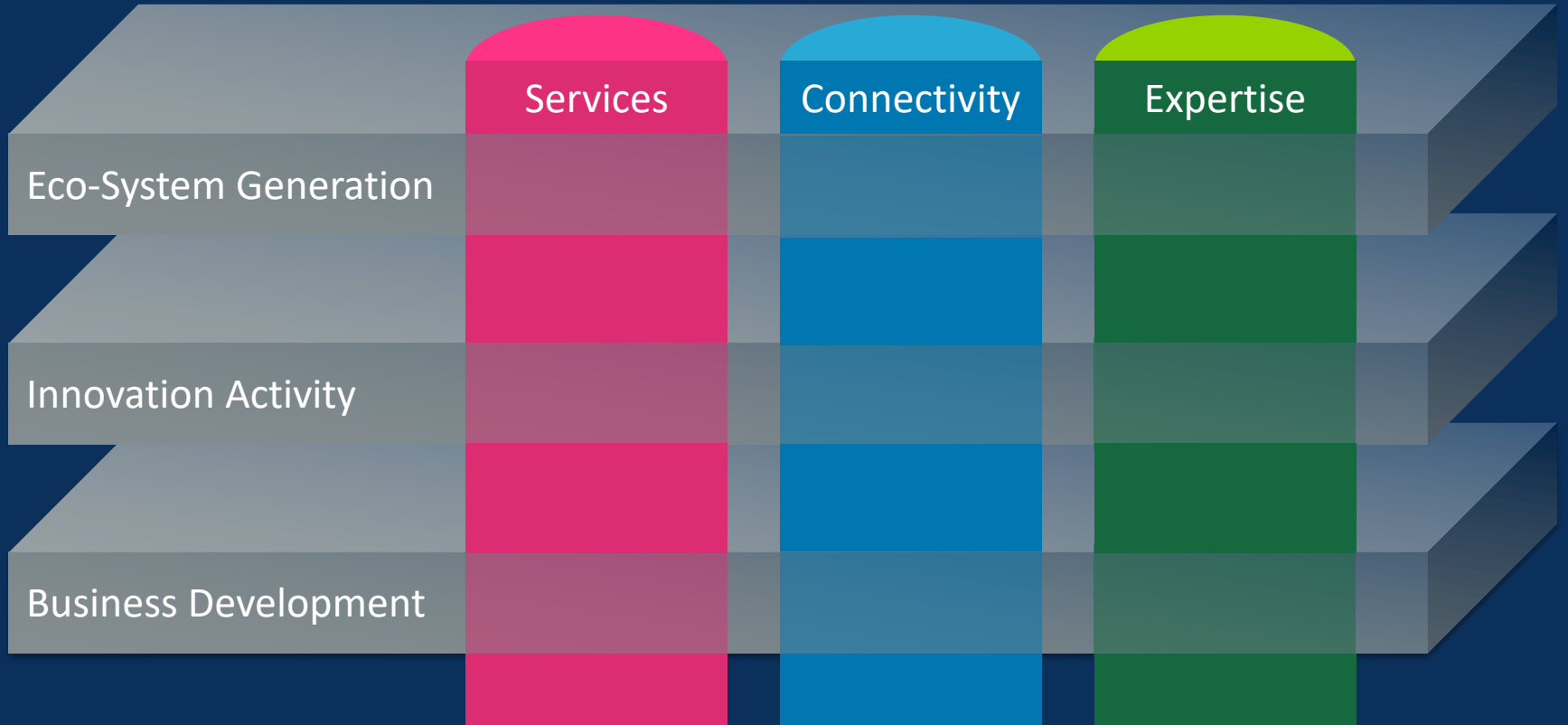


# DIH Eco-System



# DIH Actions

“Identify added value”





“deeply rooted”  
“orchestration”  
“one stop shop”

Service Providers

Local Industry

Regional Specialisation

Regional Partners

	Services	Connectivity	Expertise
Eco-System Generation	Workshops, Fora...	Strong online presence...	Best Practice Guides...
Innovation Activity	Demonstrators, Incubation...	Research Leaders...	Technology Assessment...
Business Development	Digitisation Assessment	Access to Funding...	Business Models Skills & training

Regional

National

EU

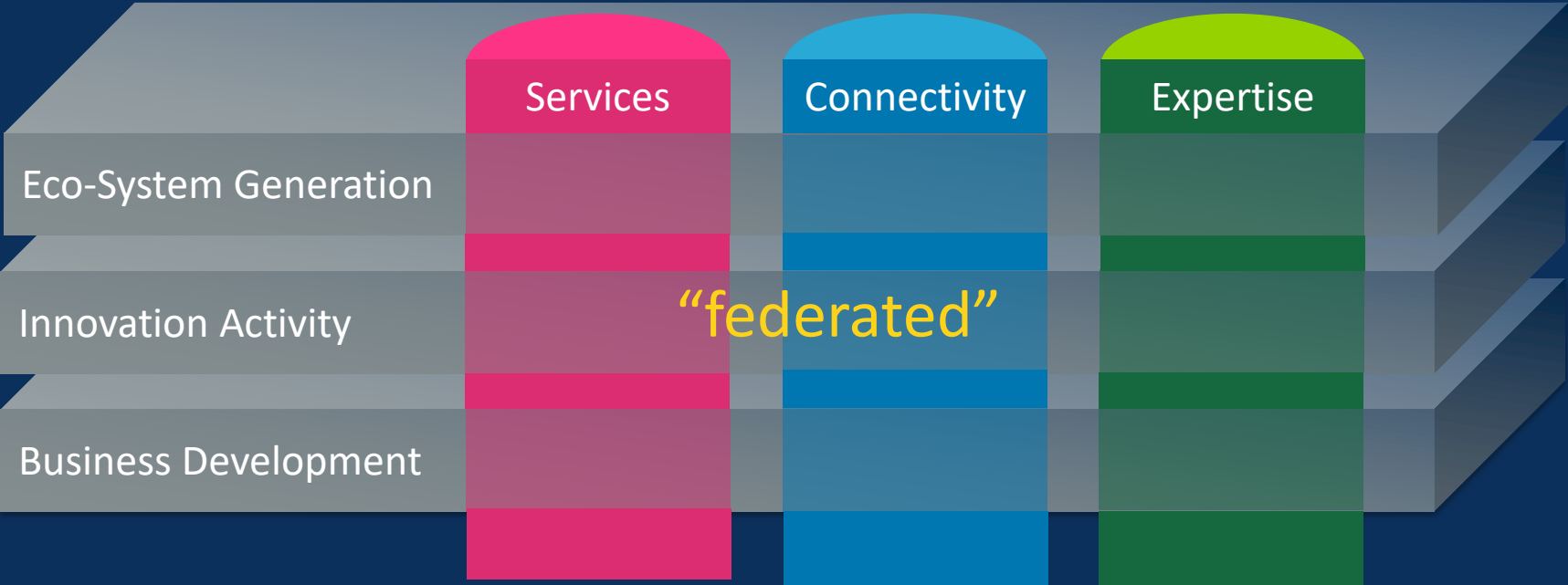
FSTP

SME/Mid Cap Access





Creating Access



Delivery Shaped to Need



Stakeholders

Supporting value chains and networks



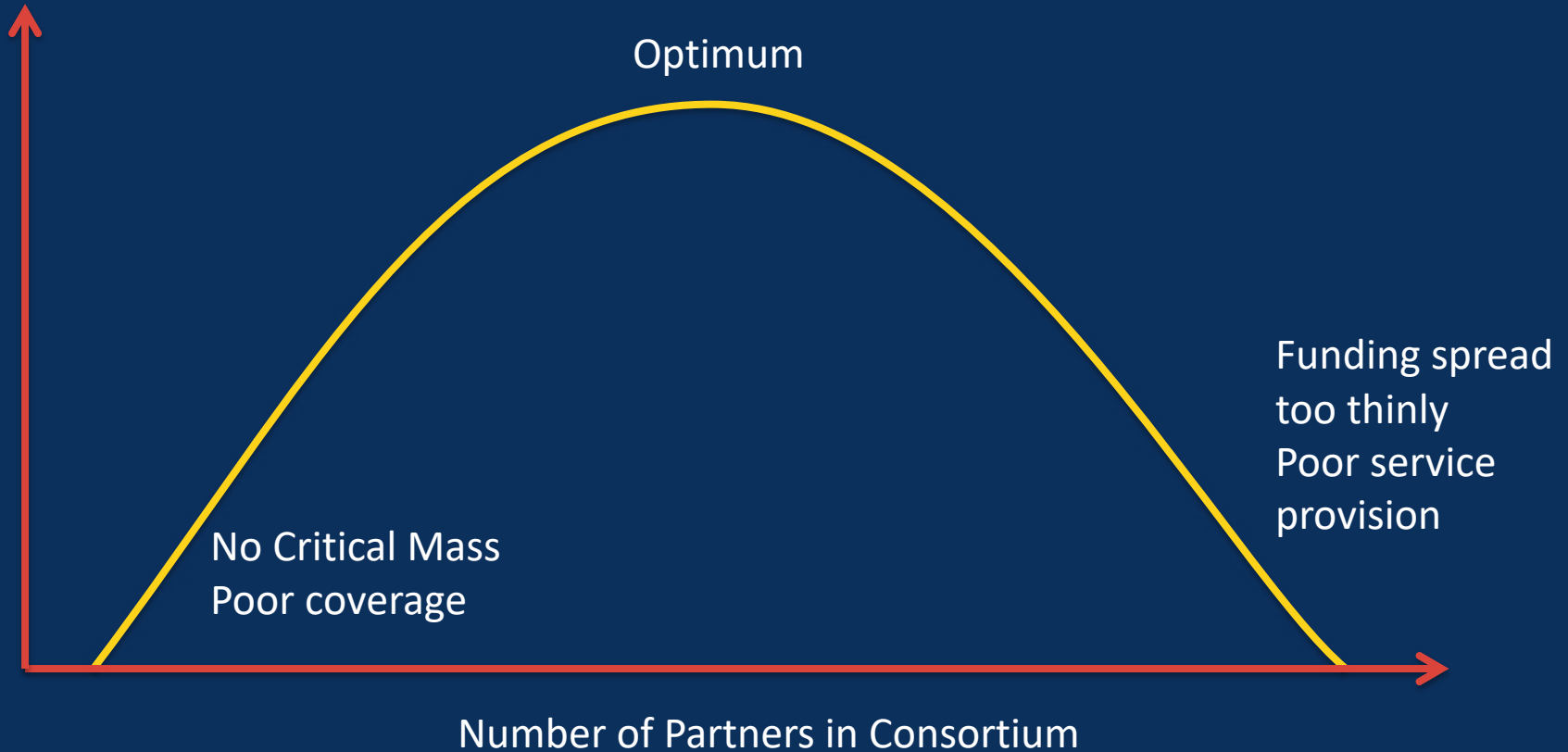
# From the Work Programme

- 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



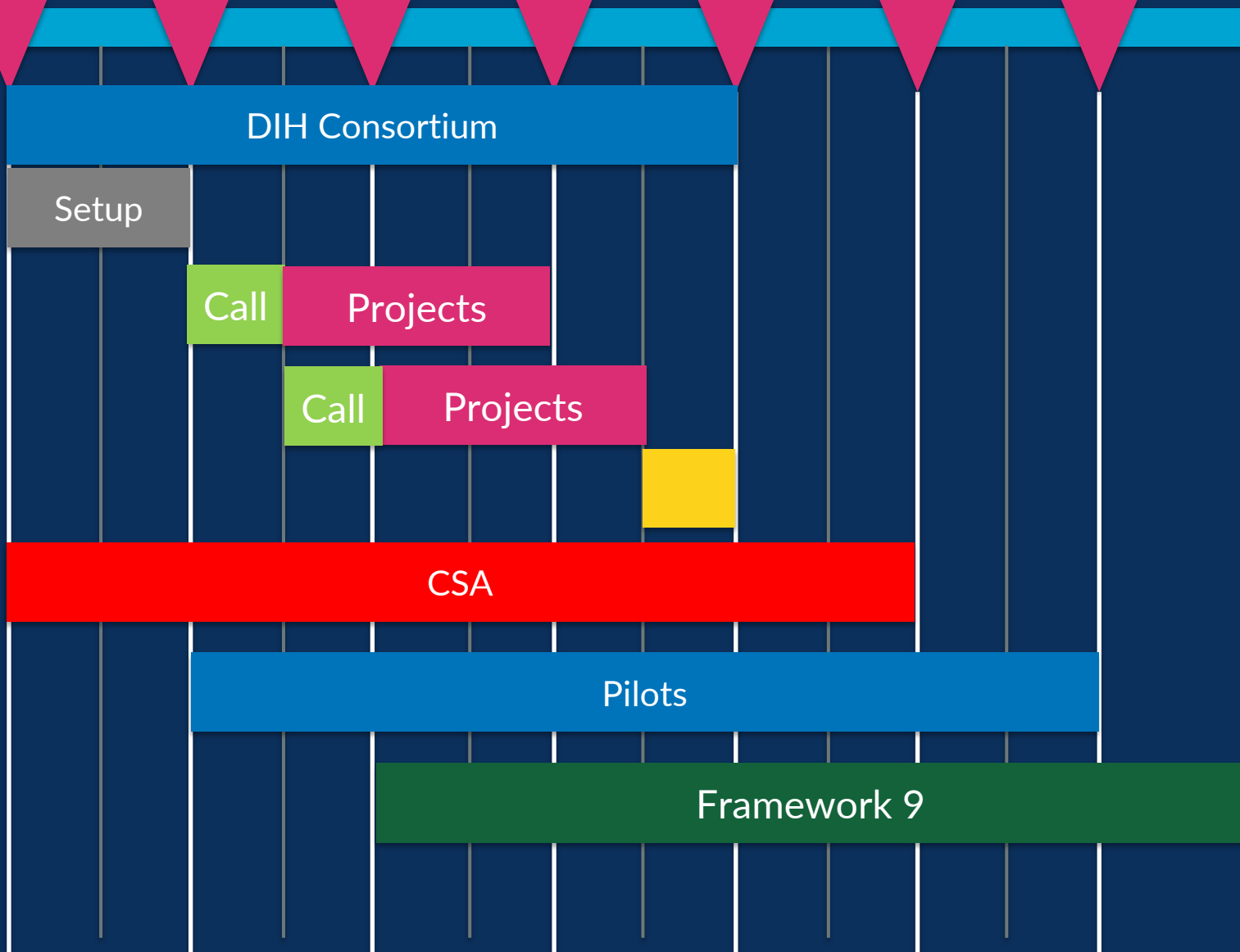
# Consortium Size

Effectiveness



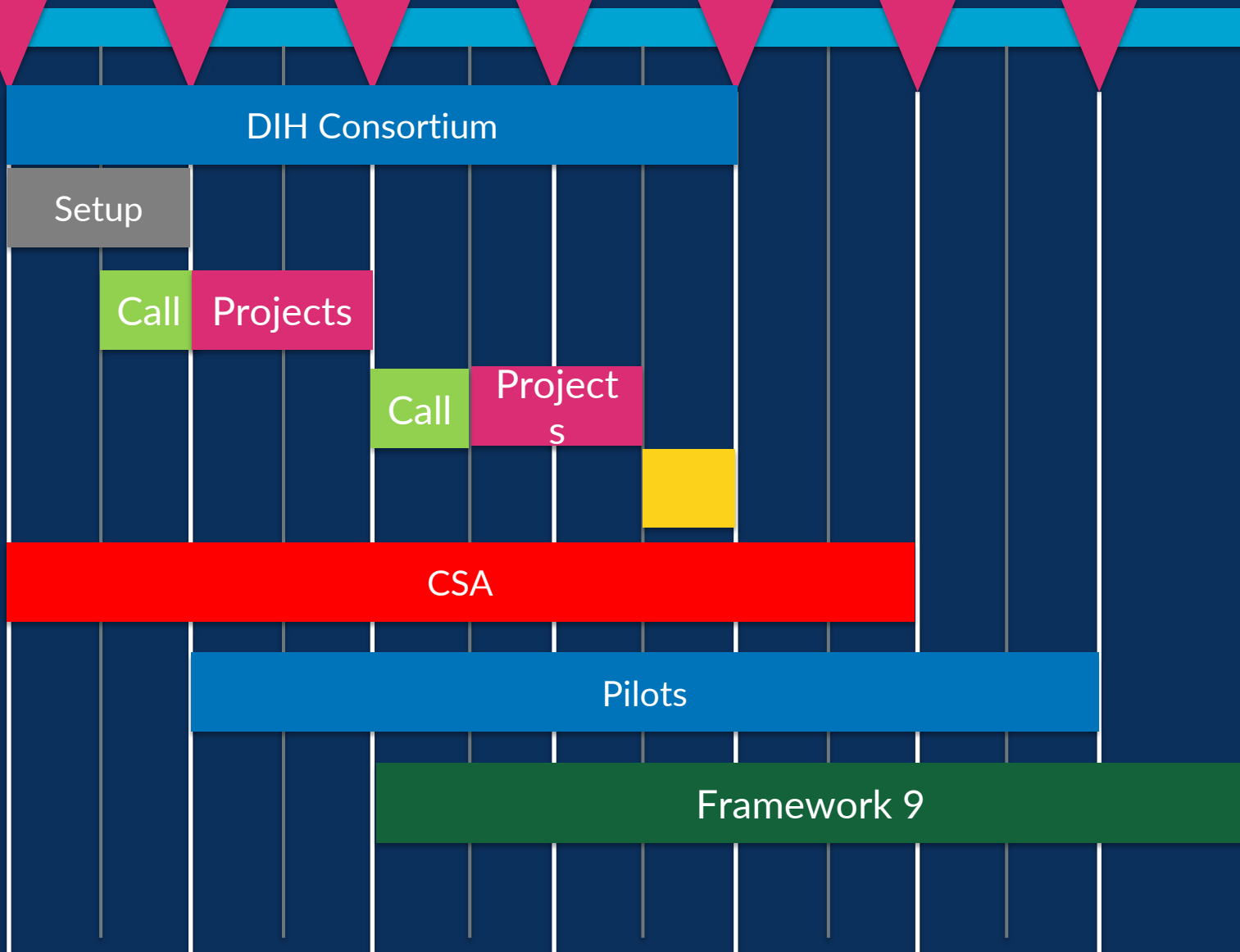
# Example Timeline

2019 2020 2021 2022 2023 2024 2026



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# Delivering a Community

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



*Global Reach*



# Expected impact

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- 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

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- 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

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- **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

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- **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?