

AI Digital Innovation Hub Network

Palma de Mallorca, 10/10/19

Create a network.
Operate synergistically.
Rethink the possible.



AIR4S

UNIVERSIDAD
POLITÉCNICA
DE MADRID



ITI Data Cycle Hub



esHPC

INTRODUCCIÓN Y CONTEXTO

Estrategia en la UE

24 abril 2018: la Comisión lanza su Comunicación

“Artificial Intelligence for Europe”

Vice-President for the Digital Single Market Andrus Ansip said: *"Just as the steam engine and electricity did in the past, AI is transforming our world. It presents new challenges that Europe should meet together in order for AI to succeed and work for everyone. **We need to invest at least €20 billion by the end of 2020.** The Commission is playing its part: today, we are giving a boost to researchers so that they can develop the next generation of AI technologies and applications, and to companies, so that they can embrace and incorporate them."*

Estrategia en la UE

Dotación especial en H2020:

- 1.500 M€ adicionales en convocatorias 2018-2020 (+70%).
- 2.500 M€ a través de las PPPs actuales, especialmente de las de Big Data y Robótica.
- 500 M€ a través del EFSI.
- Apoyo adicional en FET, MSCA, etc.

Para el periodo 2021-2027:

- Protagonismo en Digital Europe: 2.500M€.
- Financiación aprox. de 1.000M€/año en Horizon Europe.

Más allá de los proyectos:

- Apoyo a formación en competencias digitales avanzadas, incluyendo aquellas específicas para la AI.
- Énfasis en los aspectos éticos y el marco regulatorio:
 - Guías de la CE.
 - Apoyo en la European AI Alliance.
- Acuerdo de cooperación entre los 28 EEMM, Noruega, Suiza y la CE para el desarrollo de un plan coordinado en AI.
 - Maximizar impacto, intercambiar mejores prácticas, etc.

Estrategia en la UE

Facilitando otros elementos clave para la AI:

- Apoyo de la CE para iniciativas clave para la AI:
 - Componentes y sistemas electrónicos más eficientes (chips...).
 - HPC de primer nivel -> EuroHPC
 - Flagships en Quantum Technologies y Human Brain.



Estrategia en la UE

Facilitando el acceso a los beneficios de la AI a todas las pequeñas empresas y los potenciales usuarios:

- Desarrollo de la “**AI-on-demand platform**”: AI4EU.
 - 80 socios, 20M€.
 - Liderada por Thales.
 - España: BSC, CARTIF, CSIC, SMARTRURAL, UPC, UPM.
- **DIH** para facilitar a las empresas (sobre todo las más pequeñas) el acceso a AI:
 - Expertise en tecnologías, testing, skills, modelos de negocio, finanzas, market intelligence y networking.



LA RED EUROPEA
AI DIH NETWORK



Red de DIHs en AI

- Red específica de 30 DIH en AI.
- Convocatoria abierta (cerró en diciembre 2018).
- Requisitos:
 - Infraestructura para testing y experimentación.
 - Basados en Centros de Excelencia en AI.
 - Estar dado de alta en el catálogo europeo de DIHs.
- Actividades en red durante el 2019.

<https://ec.europa.eu/digital-single-market/en/news/call-digital-innovation-hubs-artificial-intelligence>

From

An unstructured approach to collaboration, mainly stemming from publicly financed projects and initiatives...

General networking meetings

Sharing of infrastructures/ facilities

Cross border joint services provision

Train the trainer schemes (old DIHs vs new DIHs)

Team building for common business cases

Sharing common methods/tools/ solutions/BP)

Sharing of human resources, skills and capabilities

Experimentation with a common/shared technology base

Inter-hub exchange schemes

Joined training programmes

Cross-border innovation voucher



Analysis of **business models of existing DIHs** against three main dimensions, i.e. governance, operating model and enablers



Analysis of **existing collaboration schemes** of different initiatives at regional, national and international level



Mentoring and coaching programme based on the training needs of the selected DIHs: Networking and cooperation path

To

- ✓ **Signature of a multilateral cooperation agreement** involving at least 10 DIHs
- ✓ **Definition of blueprint for crossborder cooperation** (i.e. how to export & import services from other DIHs etc.), including legal and financial aspects linked to cooperation
- ✓ **Policy recommendations for the enhancement of the collaboration and networking potential of digital hubs across Europe**

The applicants

Overview

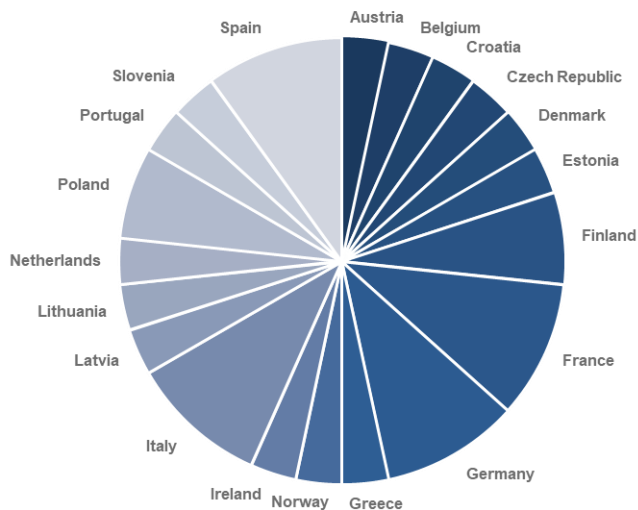
150 applicants

27 EU
Member states



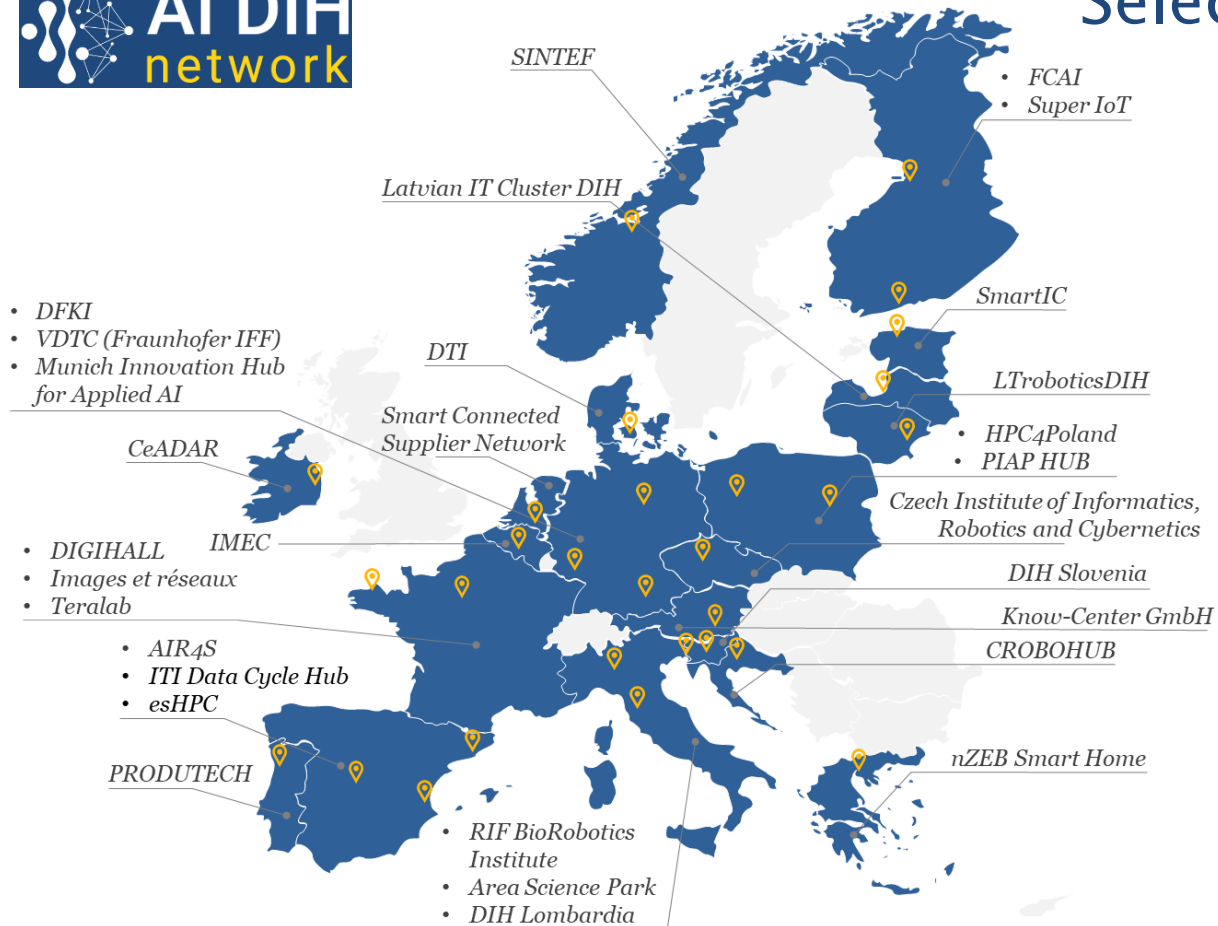
3 H2020
associated
countries



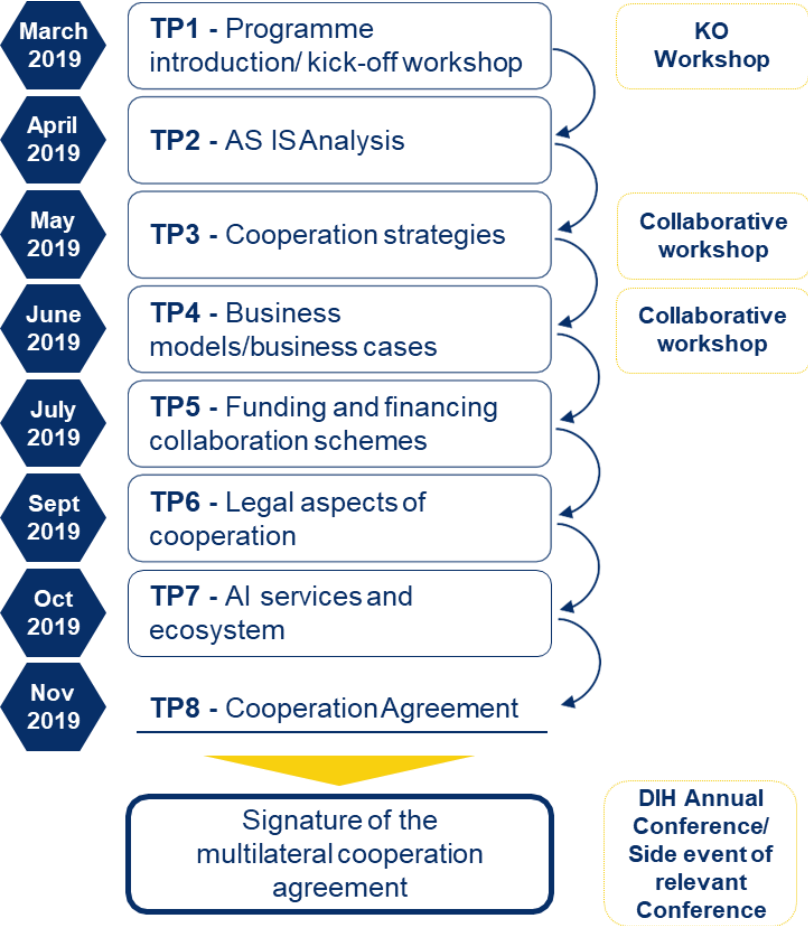


19 EU Member States + **1** H2020 Associated Country

Member State	Number
Austria	1
Belgium	1
Croatia	1
Czech Republic	1
Denmark	1
Estonia	1
Finland	2
France	3
Germany	3
Greece	1
Ireland	1
Italy	3
Latvia	1
Lithuania	1
Norway	1
Poland	2
Portugal	1
Slovenia	1
Spain	3
The Netherlands	1
Total	30



- **Vision, mission and value proposition**
 - Mission
 - Sectoral focus on AI.
 - Motivation and value proposition for collaboration
- **Business model and networking potential**
 - Business model.
 - Networking and collaboration plans.
 - Participation in existing collaboration initiatives.
- **Collaboration**
 - Collaboration models.
 - Collaboration and networking agreements.
 - Sustainability of collaboration.
- **Ecosystem**
 - Addressable SME market.
 - Quality of existing digital and physical infrastructure in the region.



7 Webinars – To present the matters of the sessions and facilitate learning
Duration: up to 1.5 hour each



Exercises – To consolidate acquired knowledge and self-assess the level of understanding of the content of the sessions



Individual online mentoring sessions – To review the contents analysed in the webinars and the results of exercises

2

Collaborative workshops – To facilitate networking among DIHs and co-define collaboration models by means of co-creation methodologies

1

per DIH



On-site individual session – to complement the contents discussed during the programme and tailor them to the DIHs' needs



Collaborative platform – To facilitate access to programme's materials and foster knowledge sharing and collaboration