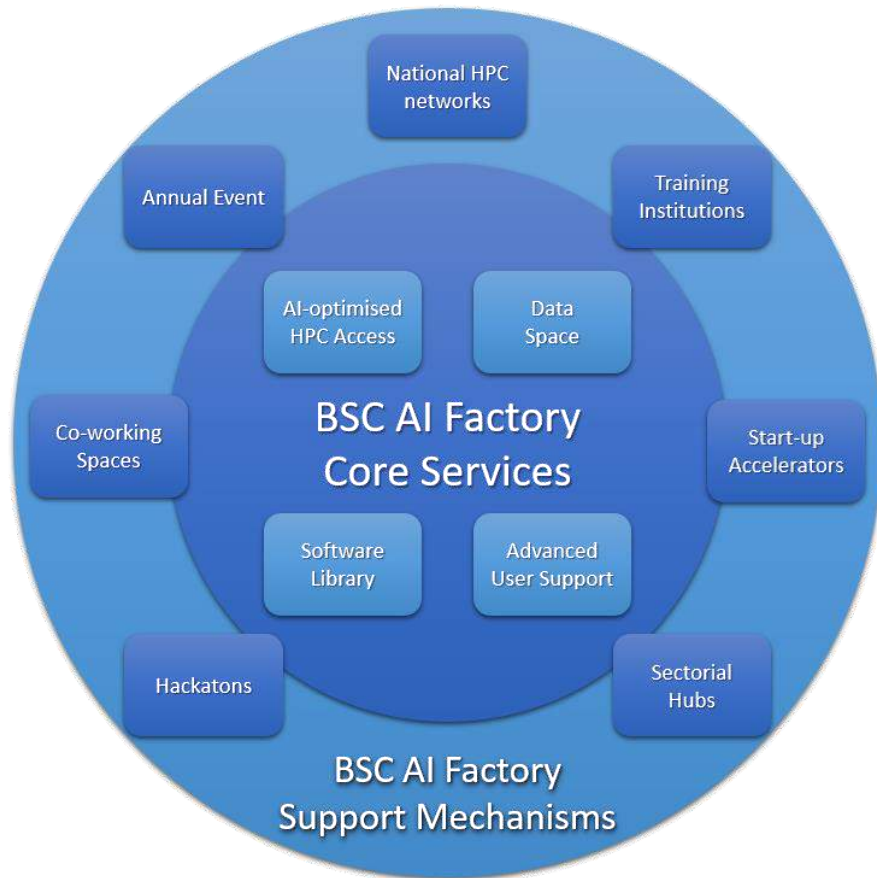# BSC AI Factory

Enhancing companies´ readiness for an AI-driven future

Mariona Sanz, Head of Innovation and Business Development , BSC

06/2025

The BSC Artificial Intelligence Factory

National HPC networks

Annual Event

Training Institutions

AI-optimised HPC Access

Data Space

Co-working Spaces

BSC AI Factory Core Services

Start-up Accelerators

Software Library

Advanced User Support

Hackatons

Sectorial Hubs

BSC AI Factory Support Mechanisms

MareNostrum5 AI Upgrade

Health

Agriculture and climate

Finance and legal

Policy-making / Public Administration

Communication and Media

Energy

A. Testbed for unconventional AI platforms

B. Greenhouse for emerging AI technology

European laboratory for AI platforms

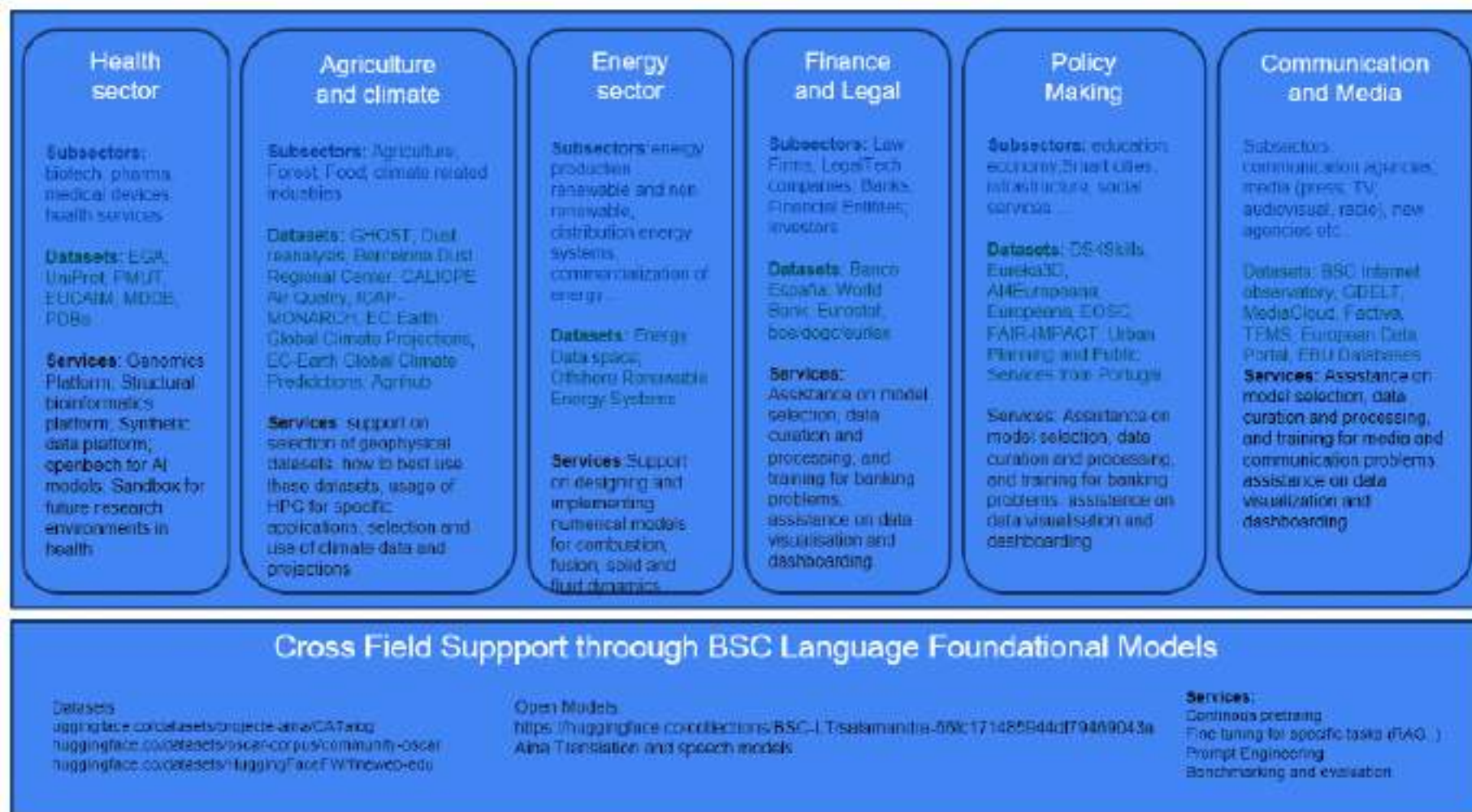# Targeted Industries

Health

Agriculture and climate

Finance and legal

Policy-making / Public Administration

Communication and Media

Energy

Industries summary, including datasets and services

Potential outputs per Targeted Users

Researchers:
Ai Scientific Training;
Access to Open Data Sets;
Acess to Software Library,
High Level support service 3
Access to MN5+
AI Annual Event

Start ups:
Ai Professional Training;
Access to Open Data Sets;
Acess to Software Library,
User support 1,2,and 3
Access to MN5+
AI Start up Acceleration
Programme
Coworking Spaces
AI Annual Event

SMEs:
Ai Professional Training;
Access to Open Data sets;
Acess to Software Library,
User support 1,2,3 and 4
Access to MN5+
Sectorial Hub Services
AI Annual Event
Talent Programme

Industry:
Ai Professional Training;
Access to Open Data
Lakes;
Acess to Software Library,
User support 1,2,3 and 4
Access to MN5+
Sectorial Hub Services
AI Annual Event
Talent Programme

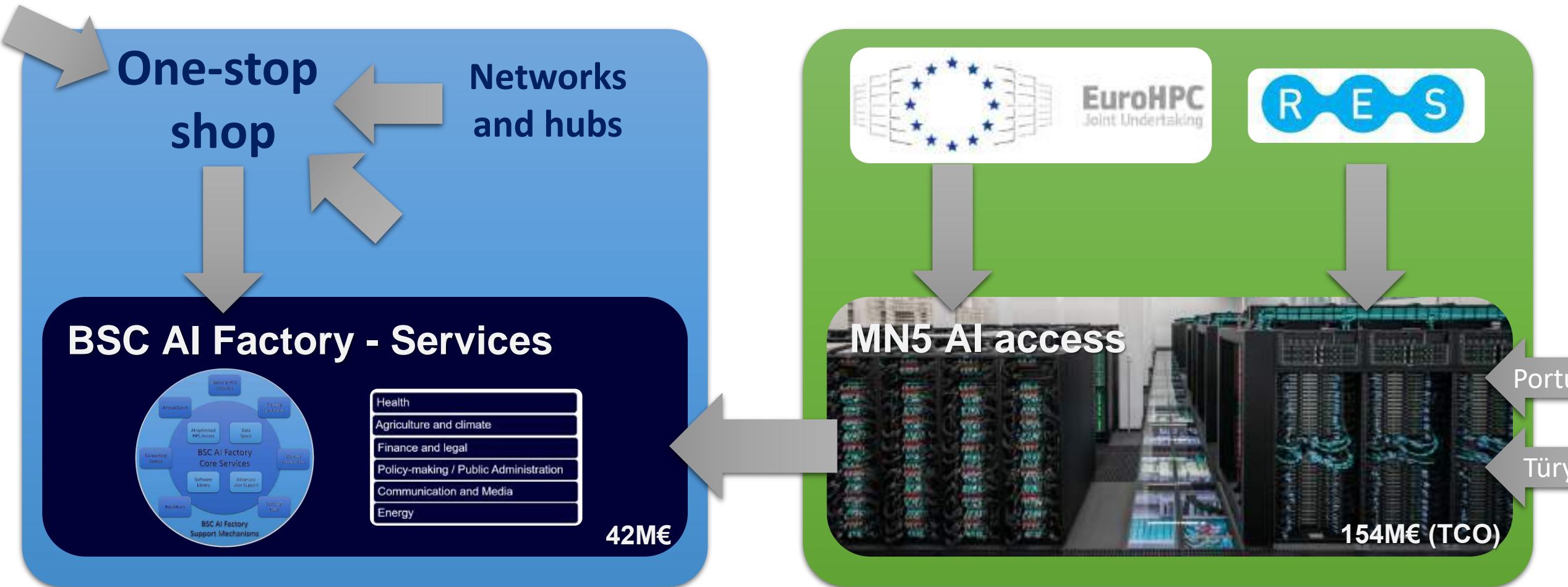**Students:**
Ai StudentTraining;
User support 4
Access to MN5+(for
training)
Acess to Coworking
Spaces
AI Annual Event
Talent Programme

Training of GEN and AI Models

Training of GEN and AI Models
Finetuning
Inference
Development of new app

Finetuning
Inference
Development of new app

Finetuning
Inference
Development of new app

Knowledge on AI
Matching with Business
Testing activites on AI

Flow of users to BSC AI Factory Services

One-stop shop

Networks and hubs

BSC AI Factory - Services

- Health
- Agriculture and climate
- Finance and legal
- Policy-making / Public Administration
- Communication and Media
- Energy

42M€

EuroHPC Joint Undertaking

RES

MN5 AI access

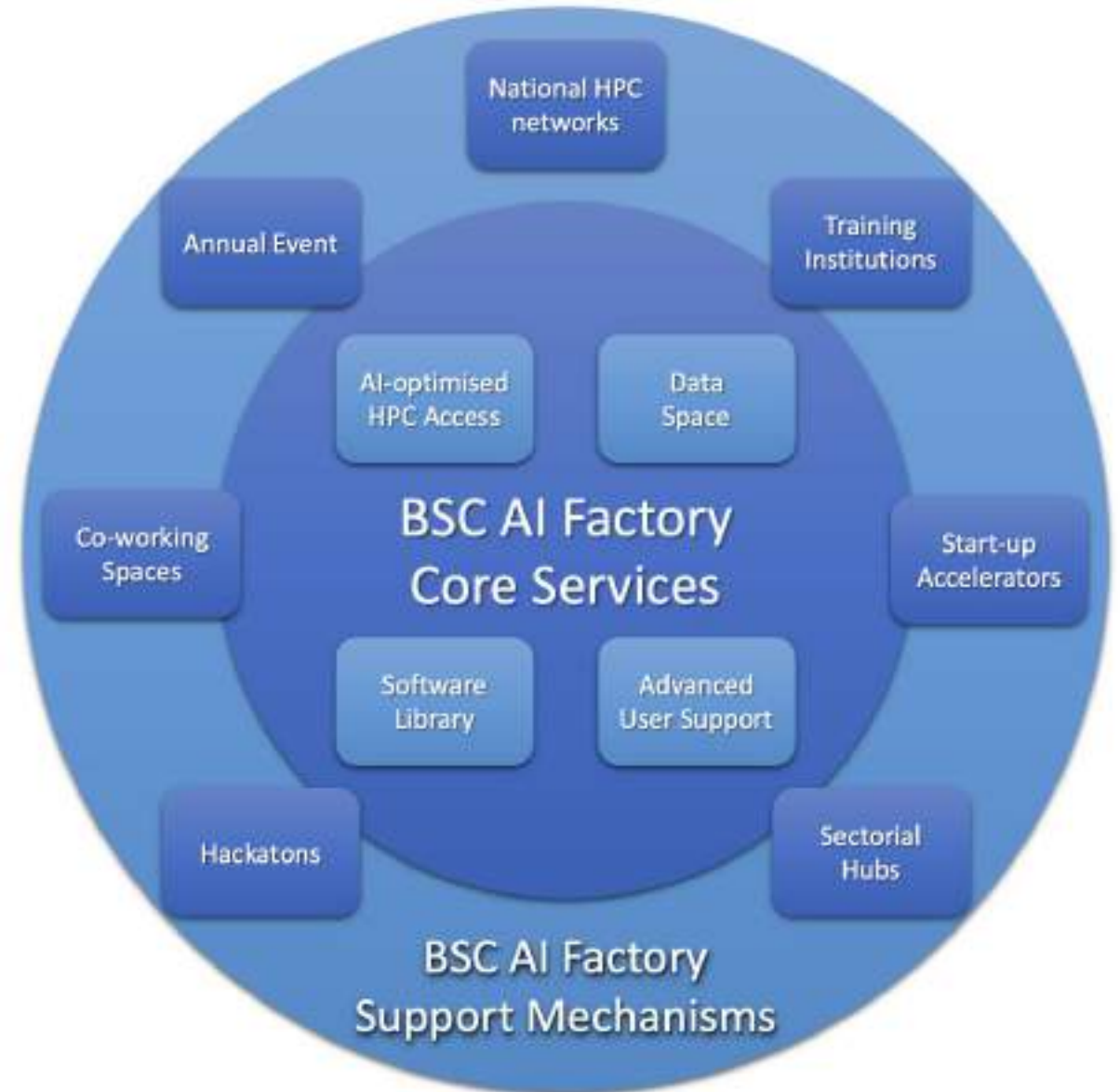Portu...

Türy...

154M€ (TCO)

Operations

Innovation

- Infrastructure users will be potential users of BSC AI Factory services
- These users will be probably "high readiness"
- AI users coming from EuroHPC and RES will be informed of the Factory opportunities and invited to join the CRM
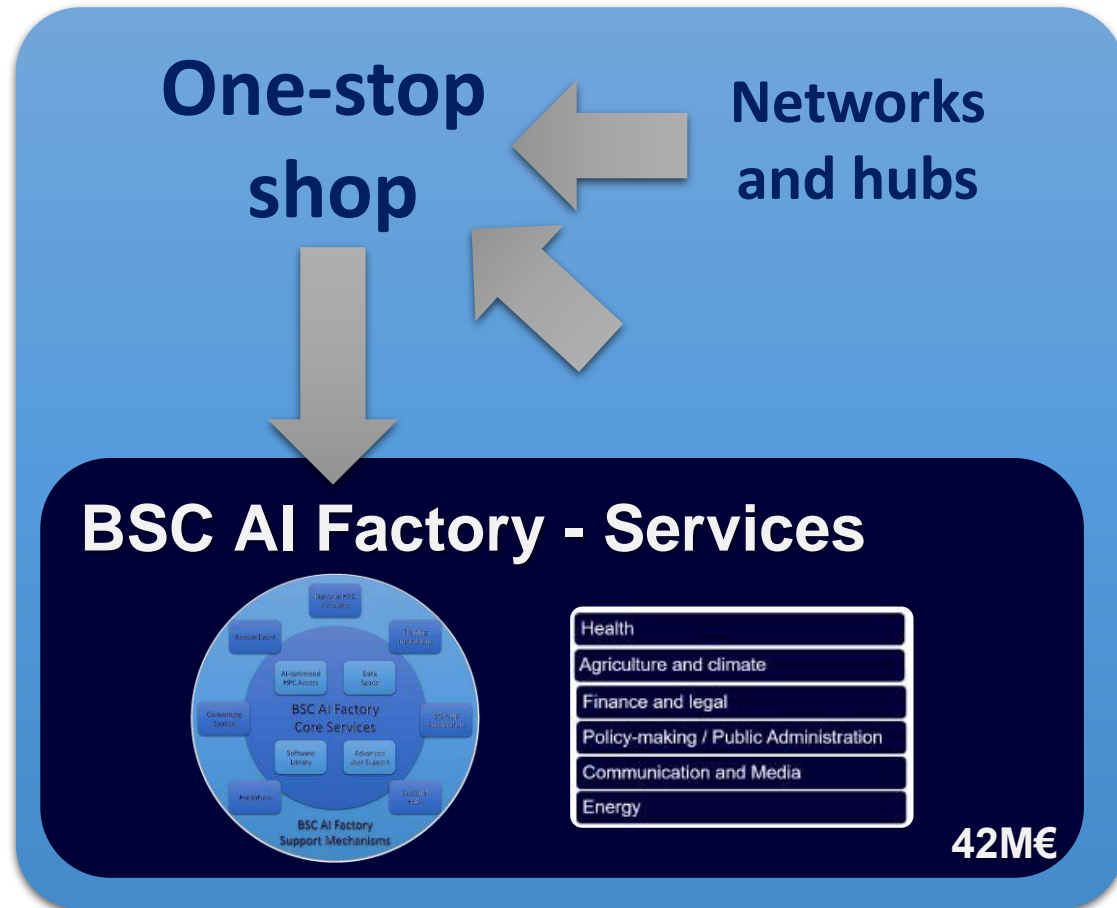
BSC AI Factory services

The BSC AI Factory is designed around 4 core services and 8 support mechanisms aimed at:

- **Breaking AI innovation entry barriers (HPC capacity & technical expertise)**
- **Generating an AI-related innovation ecosystem (networking, funding, talent…)**
- **Training the workforce for AI-driven economies**

AI support services (under development)

One-stop shop

Networks and hubs

BSC AI Factory - Services

Health
Agriculture and climate
Finance and legal
Policy-making / Public Administration
Communication and Media
Energy

42M€

Innovation

BSC AI Factory CUSTOMER JOURNEY

One-Stop Shop Access:
- Single entry point for startups, SMEs, public sector
- Guided by trained Account Managers
- 8x5 weekday service; next-business-day response

Four Phases of the Customer Journey:
1. Discovery:
   - Targeted outreach to attract users
2. Engagement:
   - Eligibility & maturity checks, access granted
3. Service Allocation & Use:
   - Tailored resources matched to user needs
4. Feedback & Improvement:
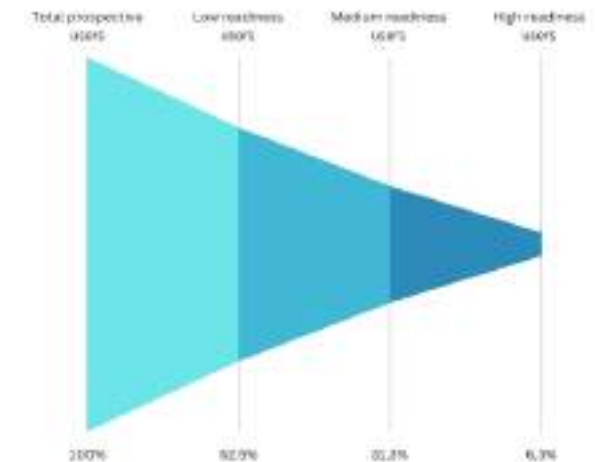   - User input drives continuous service refinement

Scalability & Reach:
- Up to 2000 users expected by 2027
- Flexible design enables dynamic scaling

Expected AI Factory users by readiness
(and services to be provided)

AI Factory users by readiness

Low readiness
- Support (level 4)
- Traning (senior management, technical training, non-technical training)
- Networking, coworking, etc.

Medium readiness
- Access to AI optimised supercomputer
- Software
- Datasets
- Support (levels 1-3)
- Training (senior management & technical training)
- Networking, coworking, etc.

High readiness
- Access to AI optimised supercomputer
- Software
- Datasets
- Support (levels 1-2)
- Networking, coworking, etc.

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

Access Modes

- **Playground access**, providing limited resources for entry-level users

- **Fast Lane access**, for users already familiar with HPC requiring up to 50,000 GPU hours

- **Large Scale access**, catering to AI models and applications requiring more than 50,000 GPU hours

https://eurohpc-ju.europa.eu/ai-factories/ai-factories-access-modes_en

Barcelona
Supercomputing
Center
Centro Nacional de Supercomputación

Thank you and stay tuned !

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