

BSC AI Factory: Enhancing companies' readiness for an AI-driven future

BSC AI Factory partners



(ICI Bucharest)



BSC AI Factory

AI Factory SERVICES

42M€



MN5 AI

154M€ (TCO)

Experimental
Platform
1,28M€

Targeted Industries

Health

Agriculture and climate

Finance and legal

Policy-making / public administration

Communication and Media

Energy

Industries summary, including datasets and services

Health sector	Agriculture and climate	Energy sector	Finance and Legal	Policy Making	Communication and Media
<p>Subsectors: biotech, pharma, medical devices, health services</p> <p>Datasets: EGA, UniProt, PMUT, EUCAIM, MDDb, PDBa</p> <p>Services: Genomics Platform; Structural bioinformatics platform; Synthetic data platform; openbench for AI models; Sandbox for future research environments in health</p>	<p>Subsectors: Agriculture; Forest; Food, climate related industries</p> <p>Datasets: GHOST, Dust reanalysis, Barcelona Dust Regional Center, CALIOPE Air Quality, ICAP-MONARCH, EC-Earth Global Climate Projections, EC-Earth Global Climate Predictions, Agrihub</p> <p>Services: support on selection of geophysical datasets, how to best use these datasets, usage of HPC for specific applications, selection and use of climate data and projections</p>	<p>Subsectors: energy production renewable and non renewable, distribution, energy systems, commercialization of energy...</p> <p>Datasets: Energy Data space; Offshore Renewable Energy Systems</p> <p>Services: Support on designing and implementing numerical models for combustion, fusion, solid and fluid dynamics</p>	<p>Subsectors: Law Firms, LegalTech companies, Banks, Financial Entities; Investors</p> <p>Datasets: Banco España; World Bank; Eurostat; boe/dogc/eurlax</p> <p>Services: Assistance on model selection, data curation and processing, and training for banking problems. assistance on data visualisation and dashboarding</p>	<p>Subsectors: education, economy, Smart cities, infrastructure, social services ...</p> <p>Datasets: DS4Skills, Eureka3D, AI4Europeana, Europeana, EOSC, FAIR-IMPACT, Urban Planning and Public Services from Portugal;</p> <p>Services: Assistance on model selection, data curation and processing, and training for banking problems. assistance on data visualisation and dashboarding</p>	<p>Subsectors: communication agencies; media (press; TV; audiovisual, radio); new agencies etc...</p> <p>Datasets: BSC Internet observatory, GDELT, MediaCloud, Factiva, TEMS, European Data Portal, EBU Databases</p> <p>Services: Assistance on model selection, data curation and processing, and training for media and communication problems. assistance on data visualization and dashboarding</p>

Cross Field Support through BSC Language Foundational Models

Datasets
huggingface.co/datasets/projecte-aina/CATaio
huggingface.co/datasets/oscar-corpus/community-oscar
huggingface.co/datasets/HuggingFaceFW/fineweb-edu

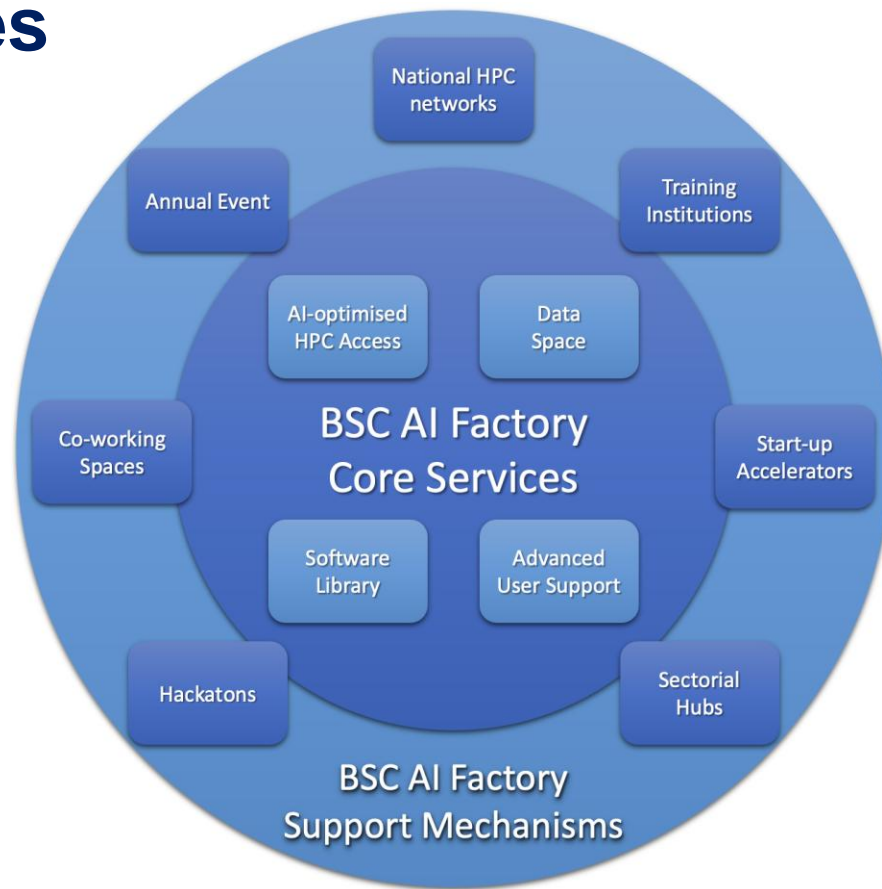
Open Models:
<https://huggingface.co/collections/BSC-LT/salamandra-66fc171485944d79469043a>
 Aina Translation and speech models

Services:
 Continuous pretraining
 Fine tuning for specific tasks (RAO...)
 Prompt Engineering
 Benchmarking and evaluation

BSC AI Factory services

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

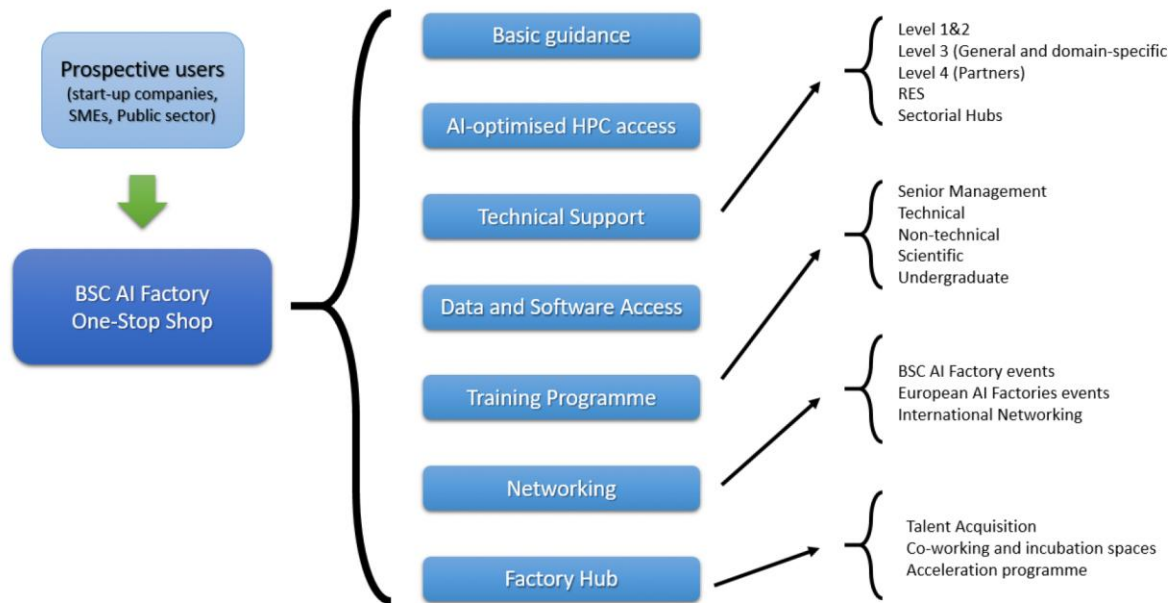
- **Breaking AI innovation entry barriers (HPC capacity & technical expertise)**
- **Generating an AI-related innovation ecosystem (networking, funding, talent...)**
- **Training the workforce for AI-driven economies**



BSC AI Factory one-stop shop (delivery)

Service delivery will be handled through a one-stop shop to achieve:

- Professional grade service delivery¹
- Better allocation of services by user (personalized to their specific needs)
- Faster improvement of support services



¹Considering the changes involved in providing services to researchers vs. companies.

Expected AI Factory users by readiness

(and services to be provided)

AI Factory users by readiness

High readiness

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

Medium readiness

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

Low readiness

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

