

Presentazione dell'istituto AI4I Italian Institute of Artificial Intelligence

e della piattaforma SUK (System for User Knowledge)

Elisabetta Artusi

Business Analyst

Istituto Italiano per l'Intelligenza Artificiale (AI4I)

AI⁴I

AI FOR INDUSTRY

The Italian Institute of
Artificial Intelligence

The Italian Institute of Artificial Intelligence (AI4I)



Ministero delle Imprese
e del Made in Italy



Ministero
dell'Economia
e delle Finanze

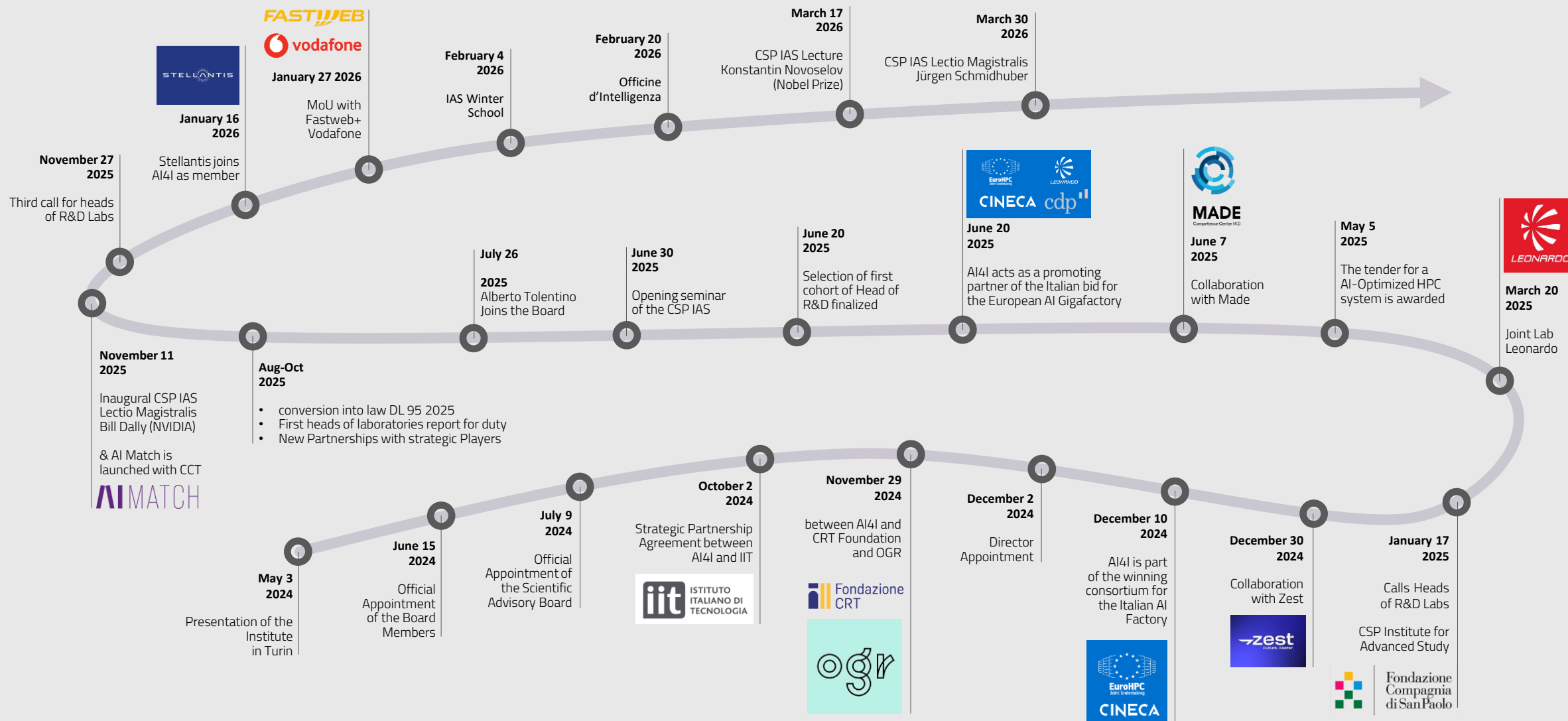


Ministero
dell'Università
e della Ricerca



DIPARTIMENTO
PER LA TRASFORMAZIONE
DIGITALE

Cuneo, 5 May 2026



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An Integrated, Multi-Divisional Architecture

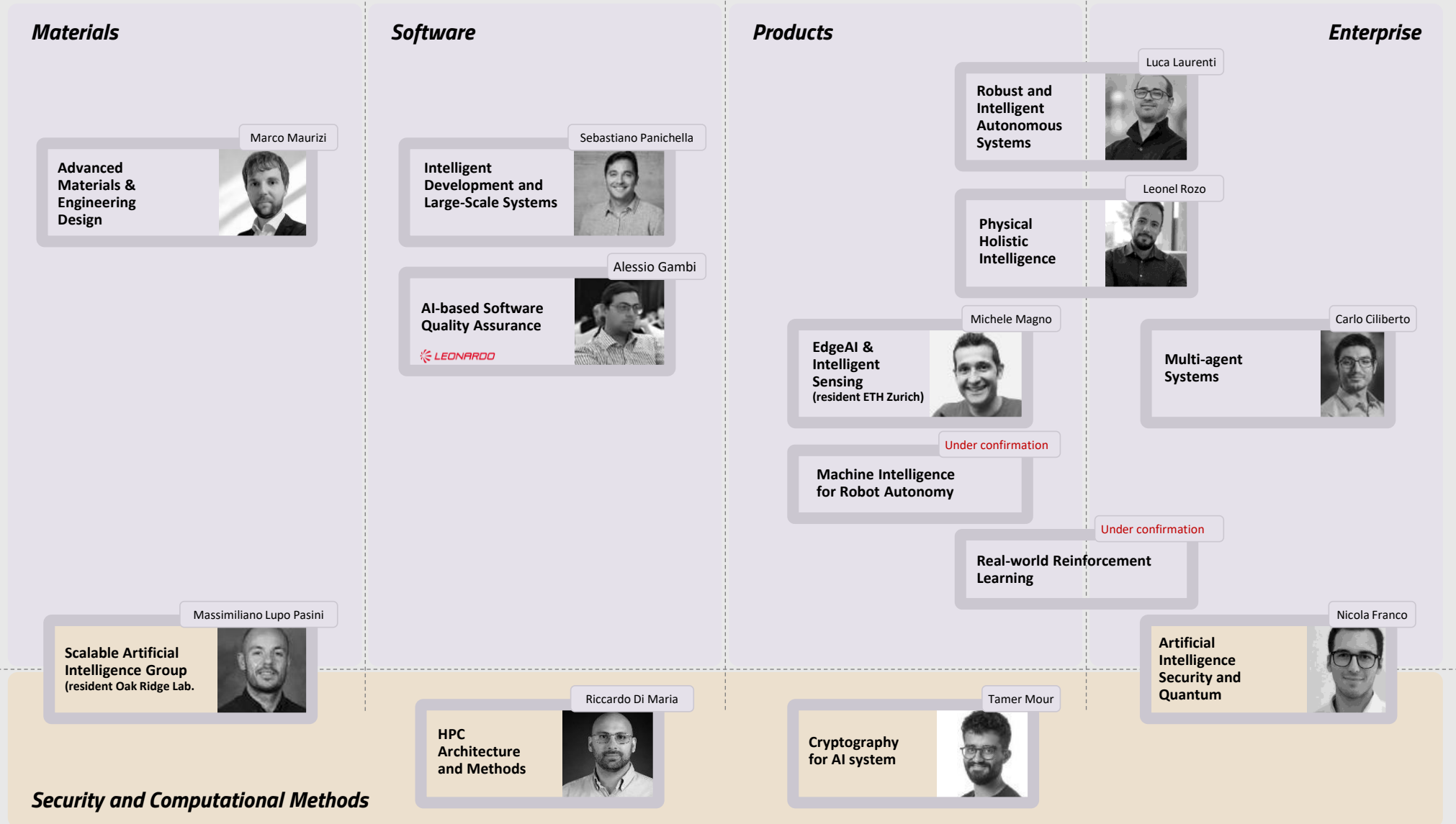


RDE
Centre



- Industry oriented research
- Industrial Contracts
- Joint Labs
- R&D Consortia

Our Labs
 Applications
 Domain
 Mapping



Core services



AI4I is a founding party of the Consortium and it is the entity responsible for implementing, coordinating and delivering AI R&D services to Industry.

The IT4LIA AI Factory provides both state-of-the-art supercomputing infrastructure and the provision of financed AI services to industry, research, academia and public authorities.

Consulting

We analyze your processes, pinpoint opportunities and challenges, and assist in evaluating potential AI use cases.

Our team develops a tailored roadmap, carefully balancing technical feasibility with operational requirements to align with your company's goals and practical needs.



Contract R&D for Industry

We collaborate with you to address your organization's unique challenges through bespoke AI research and development initiatives.

Leveraging advanced methodologies and the institute's infrastructure, we deliver innovative, practical solutions aligned with your strategic goals, ensuring measurable impact and a clear ROI.



Joint Laboratories

We establish long-term partnerships to drive innovation and co-create transformative solutions.

Joint R&D develops around areas or applications of common interest and they are designed to serve the company's interests, by developing products and technologies that promote its competitiveness.



R&D Consortia

We establish and coordinate precompetitive R&D consortia, where typically competing firms collaborate with the institute on a shared technology platform.

The resulting intellectual property is shared, allowing each company to develop differentiated downstream products to compete in the market.



Foundry
«Peano»



- HPC Facility
- Model development
- Testing
- Sandbox

Peano Hardware

Peano Hardware **148 GPUs, Cloud Platform** **and Enterprise Storage**

supporting both hot and cold tiers for day-to-day workloads.



AI-generated image

AI Partition NVIDIA Blackwell

80 NVIDIA B200 GPUs

Robust foundation for model research and development

General Purpose NVIDIA Hopper

68 NVIDIA H200 GPUs

Flexibility and efficiency across a wide range of computational tasks

Cloud Platform OpenStack based

1
Director
+ 3
controllers

8
CPU
+ 4
GPU Servers

4
Ceph Storage
Servers

Storage VAST Data System

1,4
mln IOPS

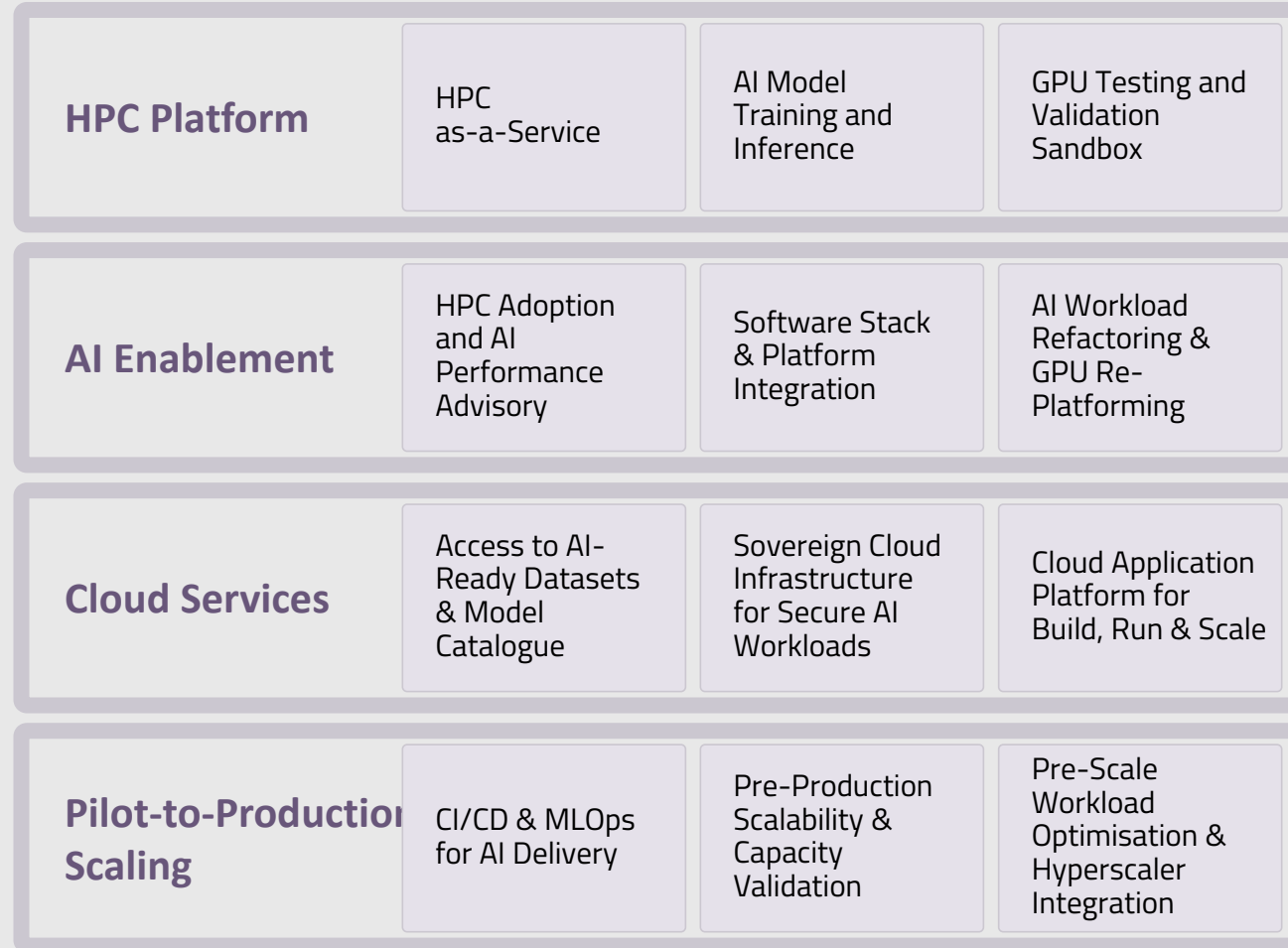
5
Petabyte

122/250
GB/s

Peano Services

Peano Services: **HPC, AI, Cloud & Scaling**

Industrial organizations gain access to compute resources and a full suite of advanced AI services.



SUK
Ecosystem Platform

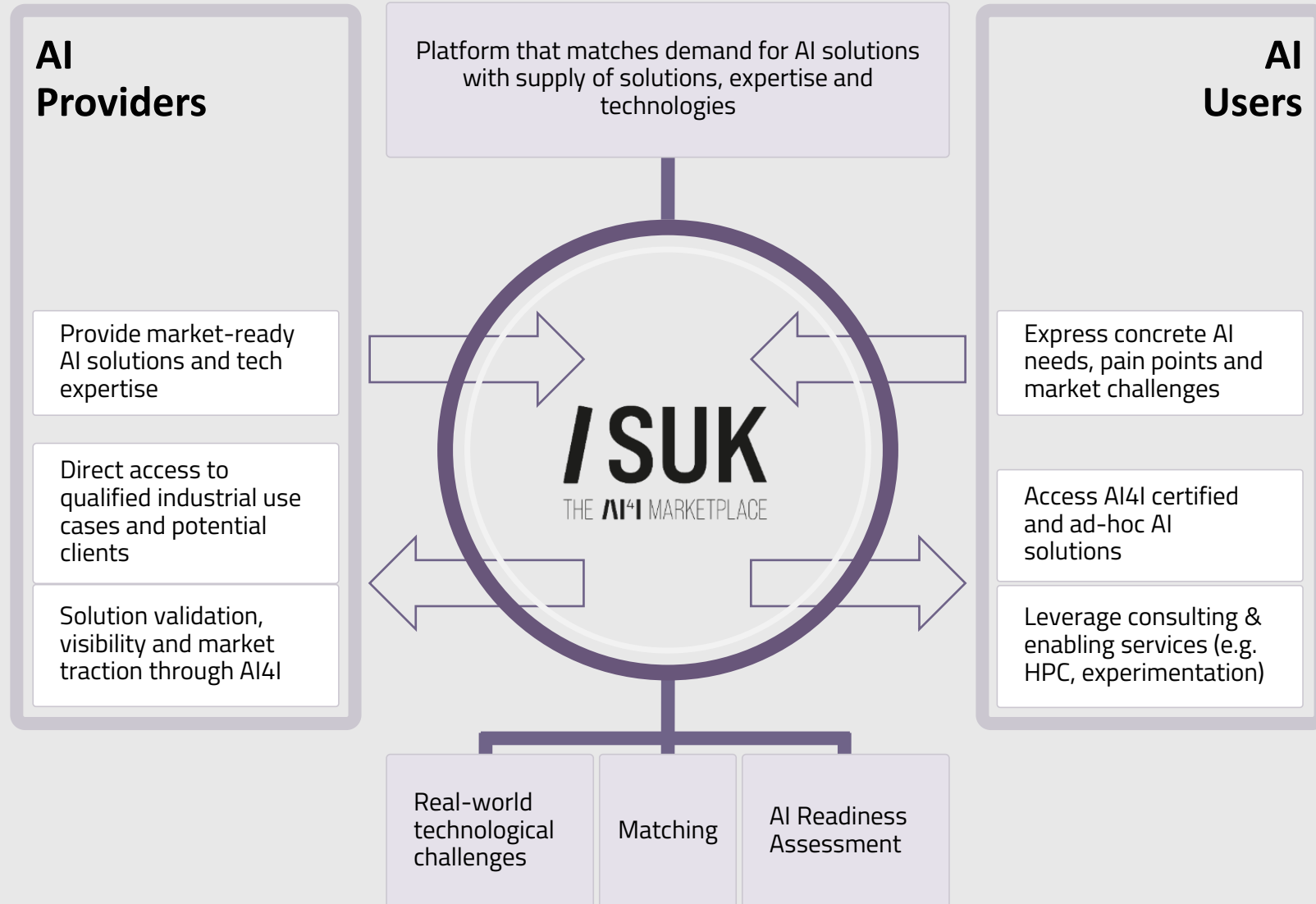


- Matchmaking
- AI Marketplace
- Technological Challenges
- Ecosystem Generator

SUK

SUK Services: An Open Ecosystem

Connecting startups and SMEs with businesses and research to accelerate AI development and drive industry transformation.



SUK

SUK AI Solutions by Application Data

~150

Published Solutions

~115

Providers

Data updated at 20 of March 2026

SUK

Example of AI SUK Solutions

Knowledge & Document Intelligence:

Transforming unstructured content into accessible and actionable knowledge.

TRL LEVEL
9



INDUSTRIES
Cross-industry

APPLICATION
Knowledge & Document Intelligence

XRCopilot

AI platform to create interactive agents from enterprise content

- Transforms documents and 3D content into AI assistants
- Enables 24/7 support across digital and physical channels
- Measurable improvement in customer engagement

Task Processes & Back Office Automation:

Transforming manual and fragmented workflows into automated, efficient processes.

TRL LEVEL
9



INDUSTRIES
Cross-Industry

APPLICATION
Task Processes & Back Office Automation

AIENG

AI platform to automate engineering workflows and technical tasks

- Automates analysis of technical documents, BOM and specifications
- Reduces manual work and accelerates product development
- Up to 35% reduction in design time

Asset & Production Monitoring:

Transforming operational data into real-time visibility and performance optimization.

TRL LEVEL
8



INDUSTRIES
Cross-Industry

APPLICATION
Asset & Production Monitoring

AI Industrial Analytics

AI platform for real-time production monitoring and digital twin of industrial processes

- Transforms fragmented factory data into real-time operational insights
- Detects process deviations and predicts anomalies in advance
- Connects existing systems (ERP, MES, IoT) without complex integration
- +10–20% productivity, -30% scrap, -20% cycle time

SUK

Example of AI SUK Solutions

Quality Control & Inspection

Enhancing product quality through AI-driven inspection and defect detection.

TRL LEVEL
9



INDUSTRIES
Textile & Appareal

APPLICATION
Quality and Control Inspection

Flair

AI platform to create interactive agents from enterprise content

- Transforms documents and 3D content into AI assistants
- Enables 24/7 support across digital and physical channels
- **Measurable improvement in customer engagement**

Forecasting & Planning

Enabling accurate predictions and dynamic planning through AI-driven insights.

TRL LEVEL
8



INDUSTRIES
Cross-Industry

APPLICATION
Forecasting & Planning

VERTALIS

AI-driven platform for orchestrating data and decisions across manufacturing systems

- Unifies data across ERP, MES, and supply chain systems without migration, creating a digital backbone.
- Orchestrates multi-agent workflows to enable real-time analysis, forecasting, and decision-making.
- Transforms fragmented data into actionable insights for production, planning, and operations.
- **From weeks to minutes in decision-making and improved operational efficiency**

Product & Design Engineering

Accelerating product development through AI-driven design and engineering intelligence.

TRL LEVEL
9



INDUSTRIES
Cross-Industry

APPLICATION
Asset & Production Monitoring

Neocad

AI platform for CAD data search, analysis, and design optimization

- Centralizes CAD data and makes it searchable through natural language
- Identifies similar components and reuses historical design knowledge
- Automates model analysis, compliance checks, and design optimization
- **Up to 30% faster design and reduced dependency on senior engineers**

SUK

AI Match: an initiative involving SUK

AI⁴I
AI FOR INDUSTRY
The Italian Institute of
Artificial Intelligence

 Camera
di commercio
Torino

AI MATCH

WEBINAR

Lunedì 27 aprile / ore 15.00

Registrati



AI MATCH: IL SUK COME BACINO DI SOLUZIONI AI PER LE IMPRESE CHE INVESTONO IN INNOVAZIONE

Il bando AI che supporta l'implementazione di progetti AI innovativi tramite i Provider del SUK

Il webinar è dedicato ai provider del SUK per presentare il progetto AI Match, il **bando promosso da Camera di Commercio di Torino** in collaborazione con **AI4I** che supporta le imprese nell'adozione concreta dell'Intelligenza Artificiale.

Il SUK rappresenta il canale attraverso cui le aziende partecipanti attingeranno alle soluzioni tecnologiche necessarie a sviluppare progetti AI basati su esigenze di business reali.

Durante l'incontro verranno illustrate le modalità di funzionamento di **AI Match**, le fasi del percorso e le modalità di selezione e coinvolgimento dei **provider del SUK**.

Il webinar offrirà una visione chiara delle opportunità in termini di visibilità, posizionamento e sviluppo commerciale, rafforzando il SUK come riferimento per l'incontro strutturato tra offerta AI e domanda qualificata.

/SUK ^{AI⁴I}

Institute for
Advanced Study



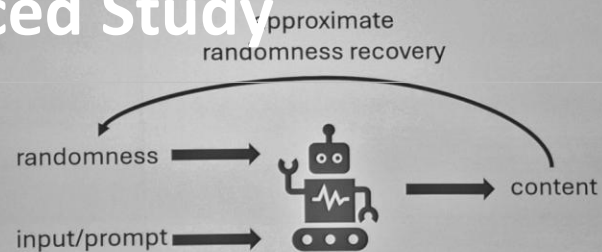
- World-Class Scholars
- Seminars
- Lectures
- Special Programs

IAS

The Institute for Advanced Study (IAS) is a key initiative of AI4I, developed in collaboration with the Compagnia di San Paolo Foundation.

It is designed as an open space where world-class researchers, industry leaders, and innovators come together to shape the future of artificial intelligence for industry.

Watermark template



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IAS

IAS timeline 2025–2026 A first year of seminars, lectures, and community building

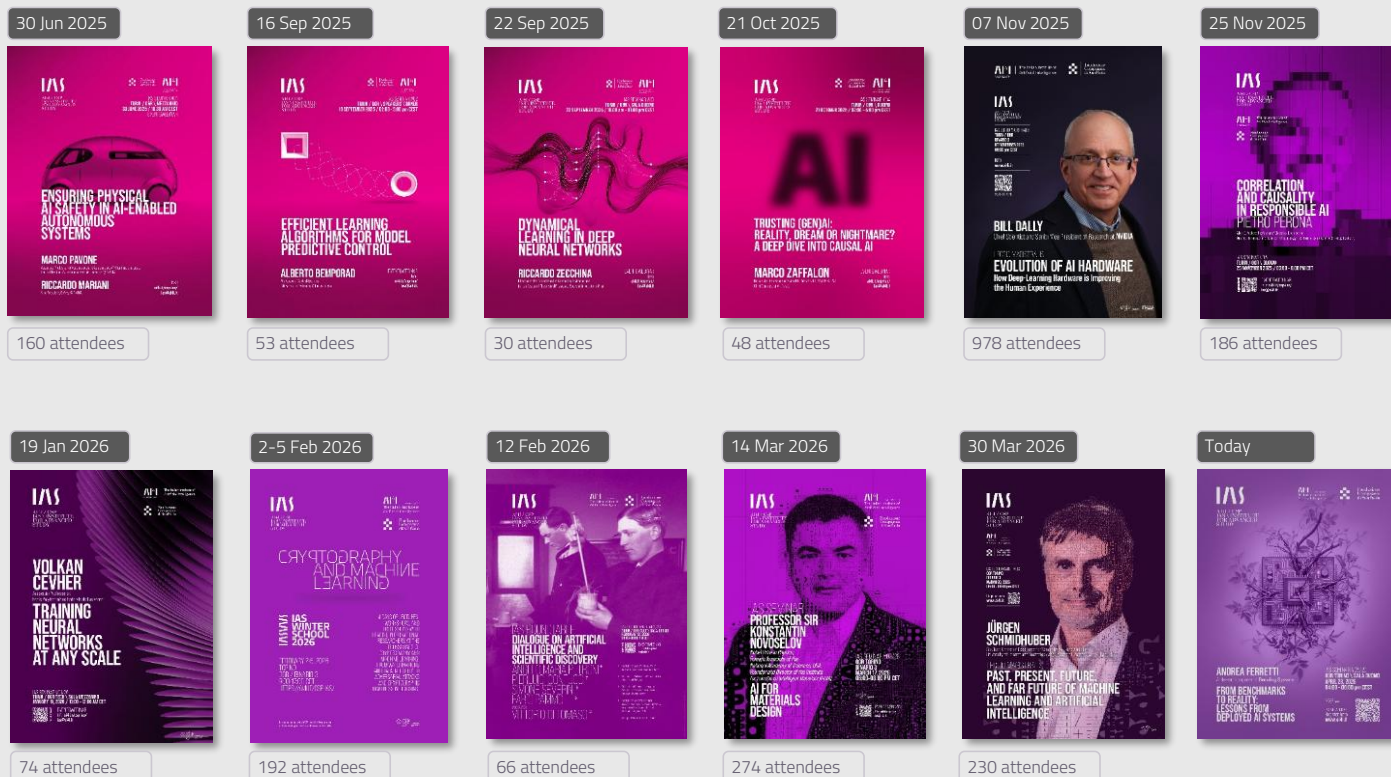
10
events completed

2,477
total attendees

1,864
in person

613
online

978 attendees
TOP EVENT: Bill Dally Lectio Magistralis



IAS

IAS Planned Activities

Upcoming IAS Activities

28 Apr	Bending Spoons (170 registered so far)
4 May	Seminar with Professor Davide Scaramuzza
15 May	IAS & CCA with Professor Massimiliano Pontil
18 Jun	IAS & CCA with Professor Pierfrancesco Urbani
15 Jul	IAS & CCA with Professor Nicolò Cesa-Bianchi
13–17 Jul	TAROT Summer School, Monaco
15 Sep	Sigrid M. Adriaenssens (in confirmation)
19–23 Sep	Summer School with Politecnico di Torino and ArtiSte
Sep	Seminar with Professor Leo Guibas* (tent.)
27 Oct	IAS & CCA with Professor Niao He
2027	
16–20 Feb	Winter School (feat. Professor Riccardo Zecchina)
14 Apr	Possible lecture/seminar with Torsten Hoefler

CCA = Collegio Carlo Alberto.

*Dates and speakers may be updated as confirmations are finalized.

AI4I–ELLIS Workshop

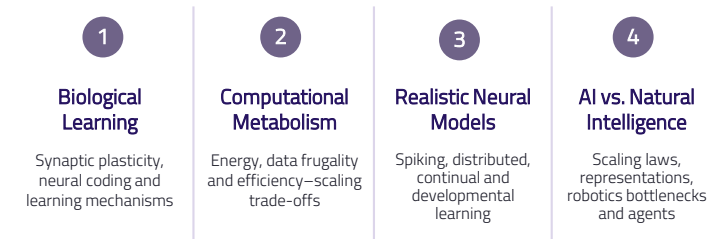
Quantitative Intelligence Across Biological and Artificial Systems

- AI4I / IAS · Turin, Italy
- Late February 2027 · 4 days

Four-day workshop on quantitative principles of intelligence across biological and artificial systems, with emphasis on learning processes, representation formation, physical and metabolic constraints, and scaling behavior.

Format: four invited talks per day + moderated "What Next?" round-table discussions.

Core Themes



The workshop is organized by AI4I/IAS and sponsored by ELLIS. It aims to bridge theory, experiment and computation across biological and artificial intelligence.

The logo consists of the letters 'AI' in a bold, sans-serif font, with a superscripted '4' to the right of the 'I'.

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The Italian Institute of
Artificial Intelligence

THANK YOU