



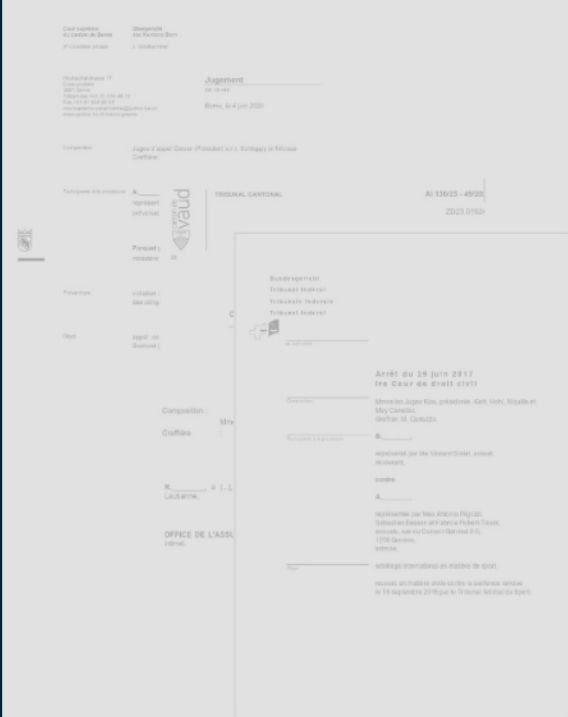
The Swiss AI Initiative & The Swiss Legal Base Model

Magglingen, Apr 7, 2025

Martin Rajman, Swiss AI Coordinator

SPRACHMODELL FÜR DIE SCHWEIZER JUSTIZ

DIE BASIS FÜR EINE VERTRAUENSVOLLERE KI



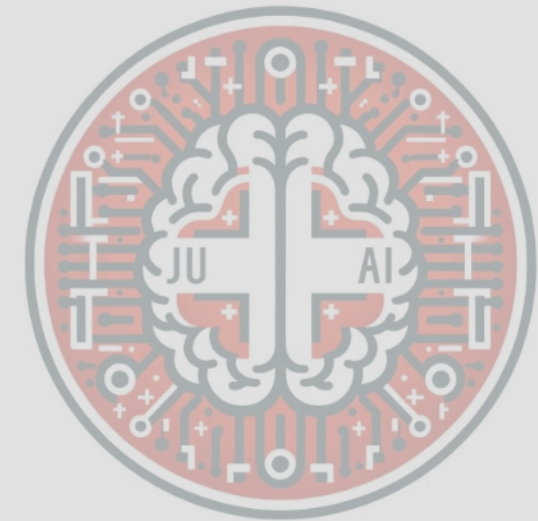
Entscheide



Lehre/Doktrin



SWISS AI
Initiative



Swiss Justice
Base Model
SJBM



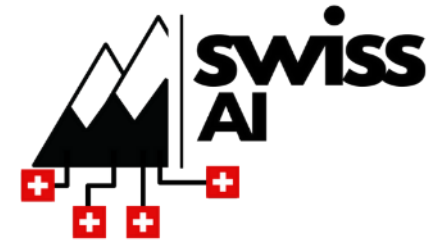
A powerful infrastructure



The Alps infrastructure at the Supercomputing Center (CSCS) in Lugano

- 10'000 GH200 GPUs of the new NVIDIA Grace Hopper superchip
- Successful scaling for GenAI training (fast cluster interconnect)
- 30M GPU.hours per year reserved for Swiss AI Researchers for 2025-28

The Swiss AI Initiative



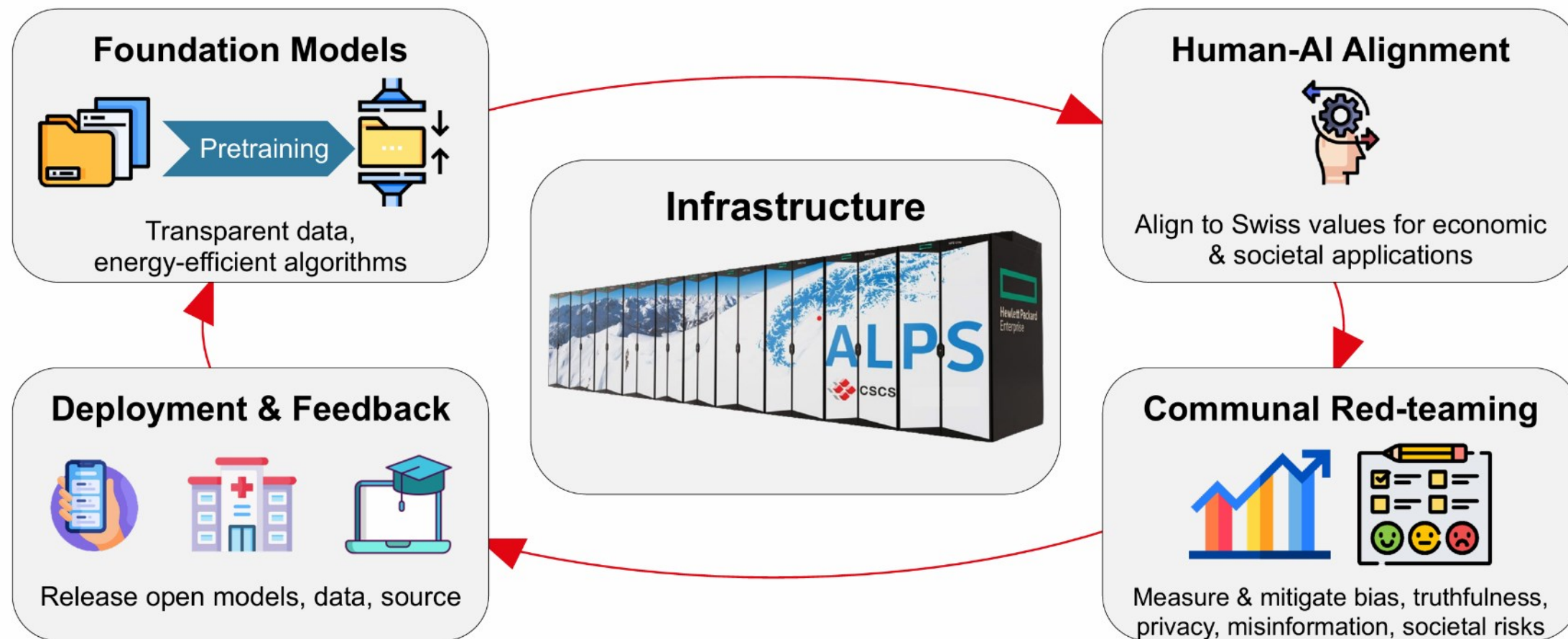
Objectives: strengthen GenAI research and talent in Switzerland

- **Research:** Creates trustworthy AI Foundation Models with Swiss values, state-of-the-art capabilities, multilinguality, and multimodality
- **Expertise:** Brings together 70+ AI labs from various Swiss academic institutions, with 800+ researchers actively contributing to projects in 11 areas
- **Talents:** Educates talents with relevant skills for large-scale foundation model capability building
- **Ethics:** Ensures compliance with Swiss laws and regulations, promote ethical AI, and build a foundation for trustworthy, responsible and transparent technological innovation

Impact: fostering GenAI innovation within Swiss society

- Drives GenAI innovation in areas of societal and economic importance
- Lowers entry barriers to GenAI, especially for SMEs and start-ups
- Reduces overall ecological footprint by leveraging the Alps infrastructure to avoid duplication in model training

Principles: Trust, Openness, Collaboration



A huge expertise



70+ AI Labs , 800+ researchers

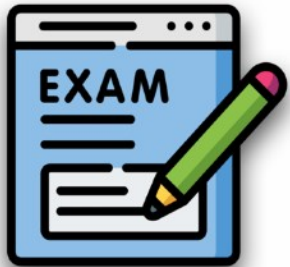
Substantial funding & Operational framework

- The Swiss AI Initiative is benefiting of a **20M CHF public funding** for 2025-28
- The Initiative has been integrated as a seed flagship project in the **Swiss National AI Institute (SNAI)**
- SNAI is aiming to:
 - Provide an operational structure to manage the Swiss AI Initiative
 - to propose an industry program
 - Set up a joint Fellowship program to attract talents
 - Create a joint PhD program



Creating a Generative AI Ecosystem

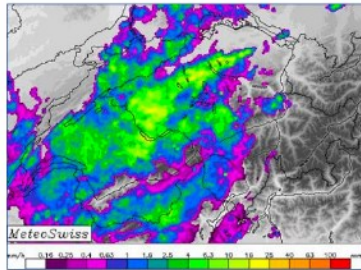
Swiss AI is building large-scale open AI models for key sectors of the Swiss economy & society



Education
& Training



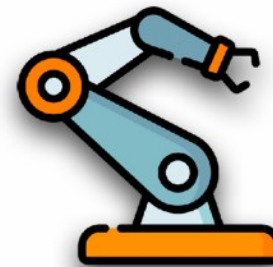
Clinical &
Public Health



Climate &
Sustainability



Scientific
Advancement

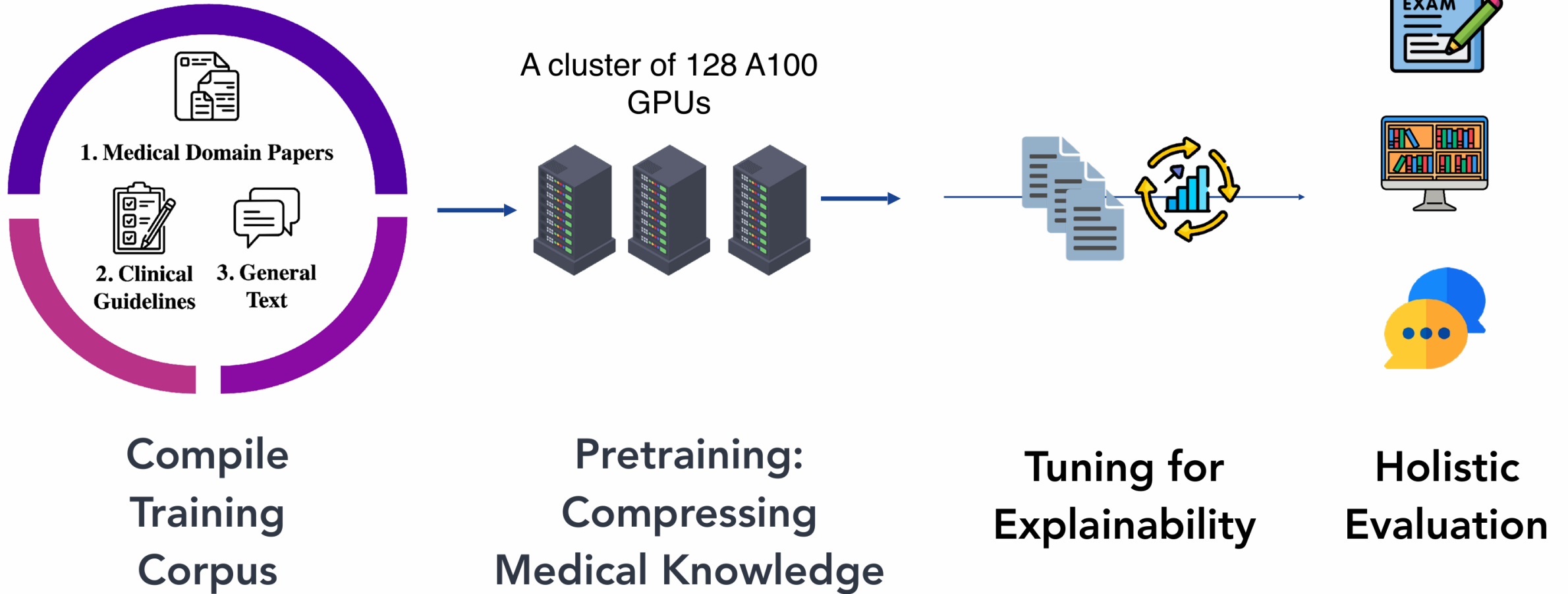


Perception
& Robotics

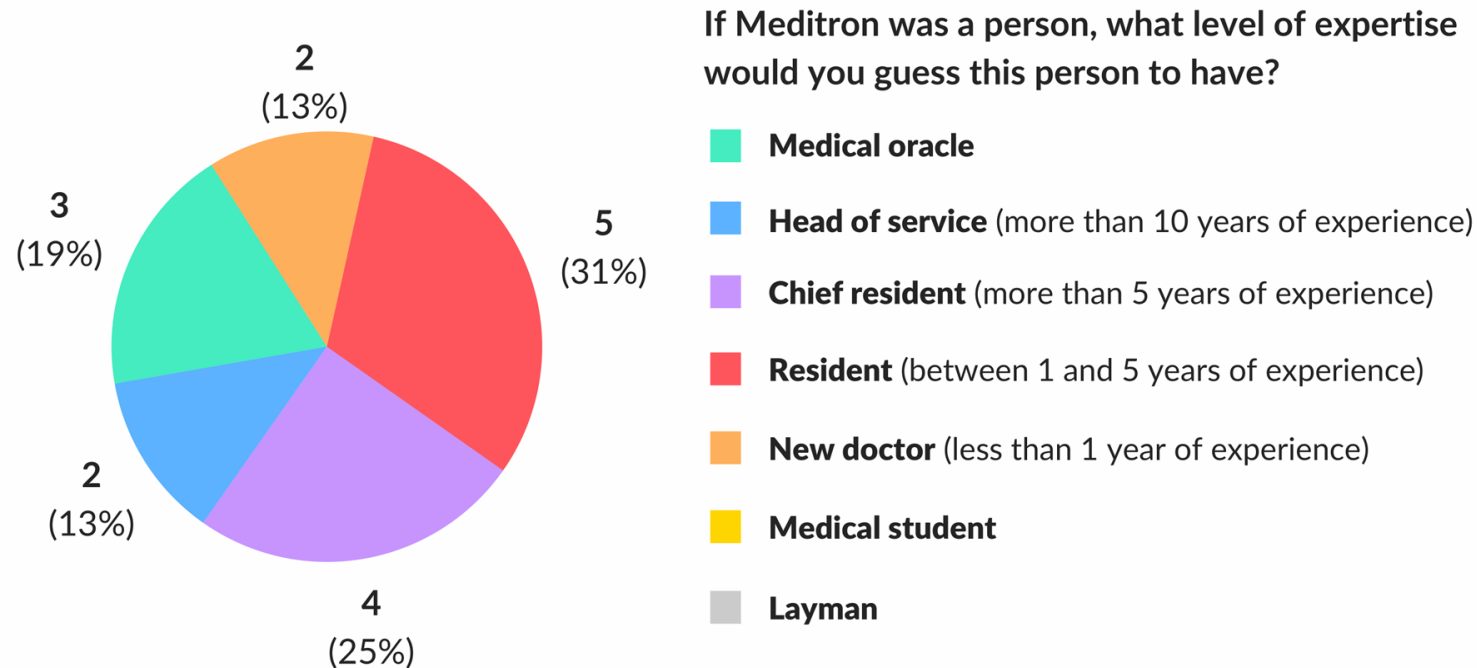


Legal &
Judiciary

Overview: Meditron



Assessment of Abilities



14 out of 16 physicians on our panel agree Meditron's expertise is equal to or better than a medical resident

Foundation Models for the Judiciary

Data Protection



Legally Collected



PII-Filtered



Stored data,
not released



Memorisation-
free Training

Multilingual



Deployment & Servicing



Search Engines



Interactive Agents

Benefits of Collaboration

- Swiss AI Initiative:

- Access to high-quality domain-specific data for the legal and judicial sector
- Collaboration with legal professionals for data curation, model development, and evaluation

- Swiss Legal and Judicial Stakeholders:

- Foundation models specialised for activities of the legal and judicial sector
- Access to capable tools to discover and drive new use cases (search engines, interactive agents)
- Collaboration with AI professionals for system development & deployment, technology tracking

And remember!...

- ✓ Strategie basierend auf **offenen Sprachmodellen (Open Source)**
- ✓ **Lokale Rechenleistung** (private Cloud)
- ✓ Lernen anhand von **Daten** und den **Kompetenzen von unseren Juristen**
- ✓ Zusammenarbeit mit **Hochschulen** und vor allem
- ✓ **Bewusstsein für Risiken** schaffen und **Bereiche bewerten**, wo die KI **unsere Benutzer im Alltag unterstützen kann**

SWISS JUSTICE BASE MODELL

VORTEILE FÜR DIE SCHWEIZ



Kulturen anderer Kontinente



Schweizer Justiz



Intellektuelle Souveränität
Digitale Souveränität



Schweizer Kultur



Oekologie



Kosten Einsparung



Next steps...

- The various Swiss AI Foundation Models are currently being trained with the Alps infrastructure
- First tests with small size models (8B parameters) shall take place during May 2025
- First large scale models (70B parameters) shall be available before the summer (June 2025)