



SKACH Winter Meeting 2026

CSCS, Lugano

26-27th January, 2026



SKACH

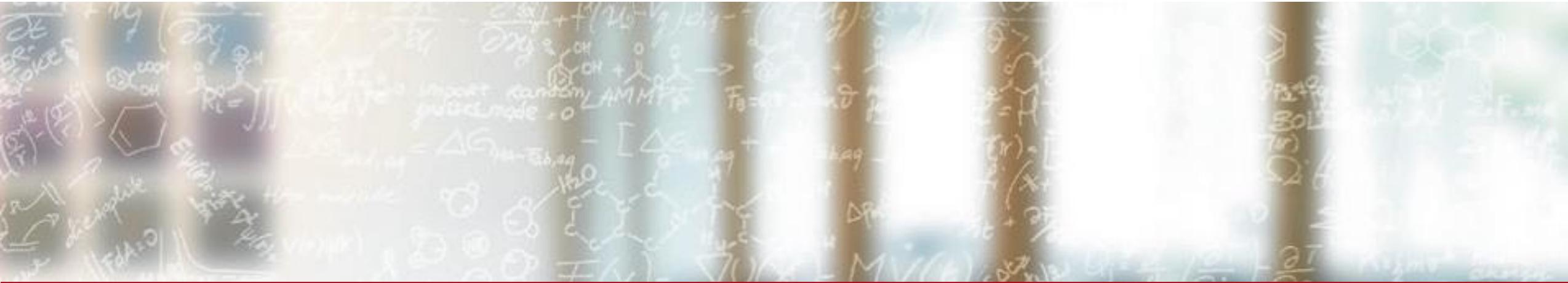




CSCS

Centro Svizzero di Calcolo Scientifico
Swiss National Supercomputing Centre

ETH zürich

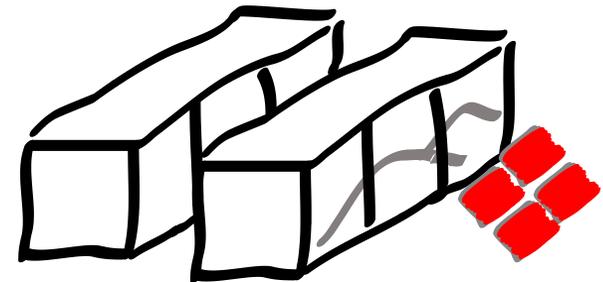


CSCS update

SKACH Winter Meeting 2026

26-27 January

CSCS LCA main building



SKACH

CSCS: the ALPS research infrastructure (RI)



CSCS develops and operates a high-performance computing and data research infrastructure that supports world-class science in Switzerland.

CSCS is a unit of the Swiss Federal Institute of Technology, ETH Zurich

A RI connected to experiment, computational science, and the world

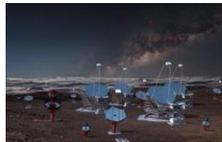
PSI



MCH



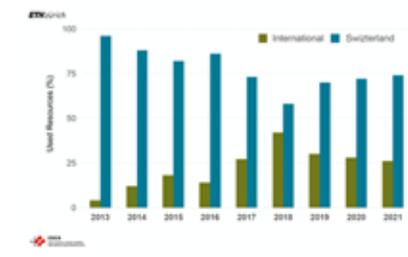
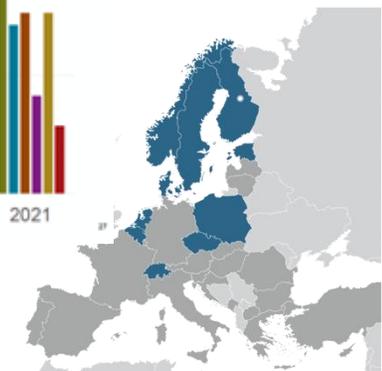
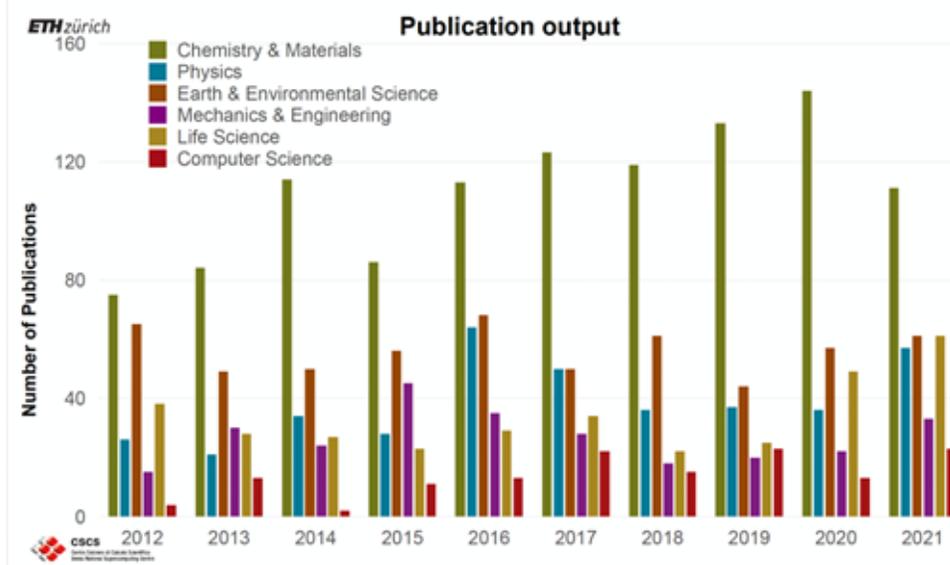
SKA / CTA



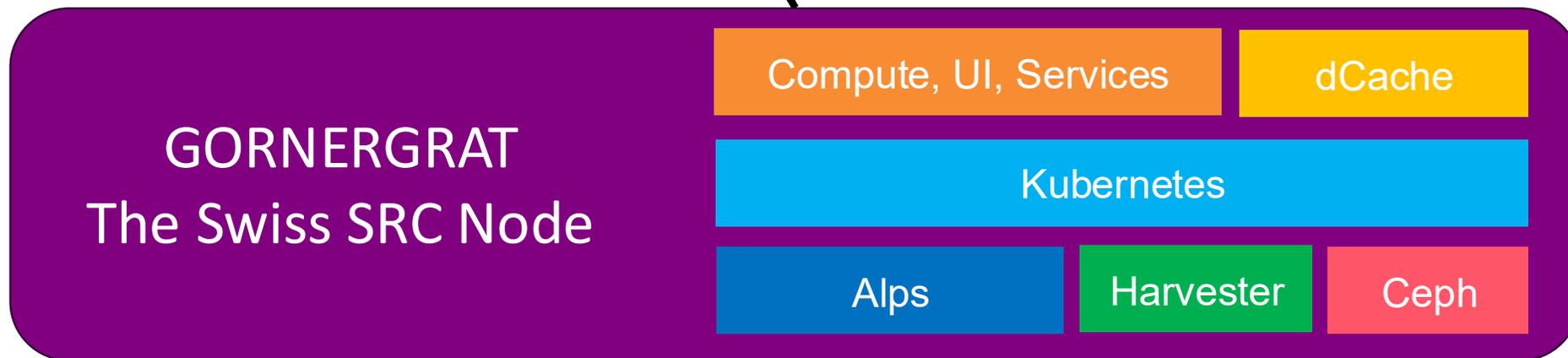
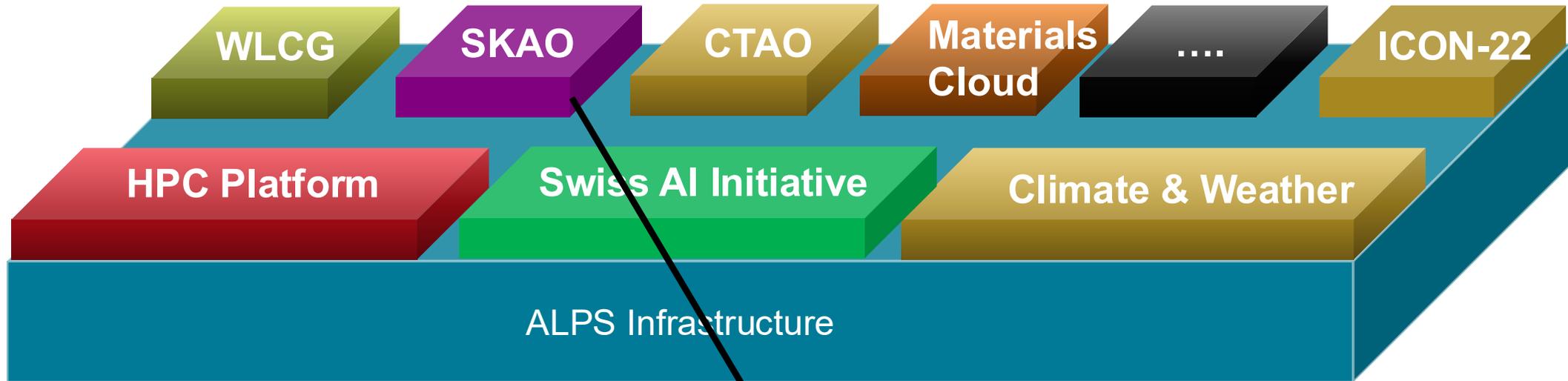
CERN



CSCS



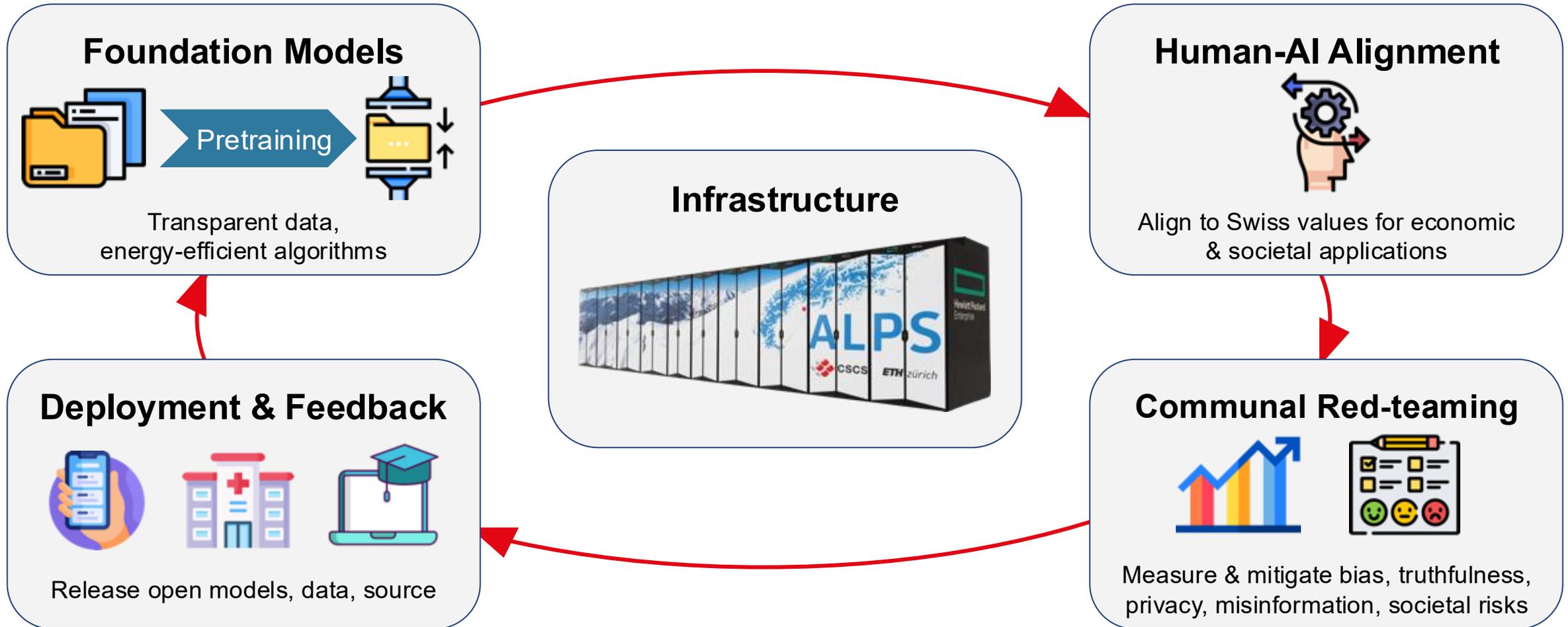
Software-defined Platforms in Alps



4 x EPYC 7742

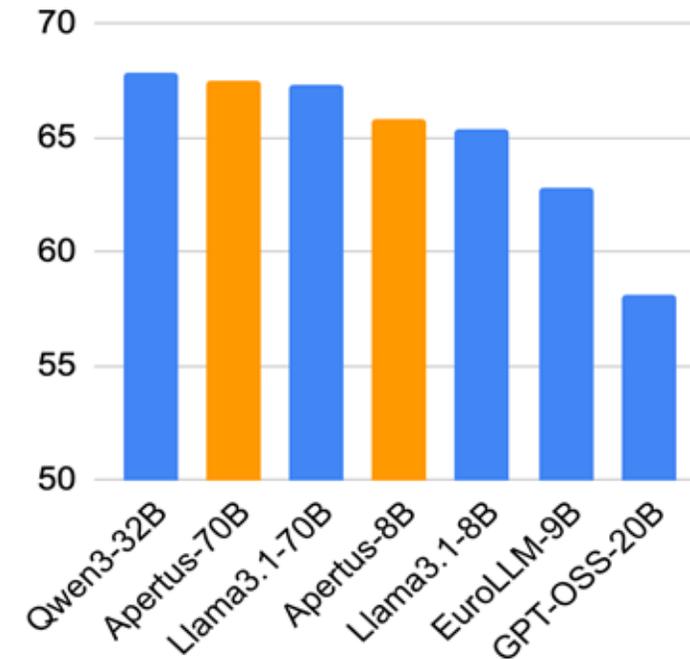
400 TB

The Swiss AI initiative: Trust, openness, collaboration



<https://www.swiss-ai.org/> bundles the expertise of 70 research groups, 800 researchers, and 10 institutions, 10s of projects granted

Apertus: the World's First Fully Open Large Language Model



- 8B and 70B LLMs: deploy on premise, from laptop to server
- Team across multiple Swiss academic institutions, 150 members
- Nearly 1 million downloads of the weights
- Competitive with all other open-weights, closed-data LLMs

Ethical and compliant AI

- First large LLM to be compliant with EU AI Act
- Data Compliance:
 - exclusively public data
 - respect opt out
 - even retroactively
 - avoid memorization
 - remove PII
 - filter toxic & harmful data

	Apertus 8B / 70B	Qwen, DeepSeek	Mistral	Meta Llama	OpenAI GPT-4,5 series
Model Weights	✓	✓	✓	✓	✗
Inference code	✓	✓	✓	✓	✗
Training code	✓	●	●	●	✗
Training data transparency & availability	✓	✗	✗	✗	✗
Open License	✓	✓	✓	●	✗
EU AI Act Art 53 compliance	✓	✗	✗	✗	✗

HEARTS Goals (Swiss AI Factory Antenna)

- The overarching **goals** of HEARTS are the following:
 - Develop and deploy **Fine-tuning** and **Inference Services** at **TRL7** in order to offer robust, highly-reliable services for commercial and institutional partners, **particularly SMEs**
 - **SME Engagement and Training** by addressing key SME barriers such as limited HPC access and lack of expertise, and deliver **tailored practical training** focused on inference and fine-tuning for the selected use-cases
 - Support the **Weather Forecasting** AI Use Case, with the aim to integrate AI inference directly into **operational workflows** used by the national Swiss Weather Agency (**MeteoSwiss**)
 - **Sensitive Data AI Use Case** in order to deploy a secure and compliant system for fine-tuning AI models using sensitive data, thereby ensuring **privacy, confidentiality, and integrity**

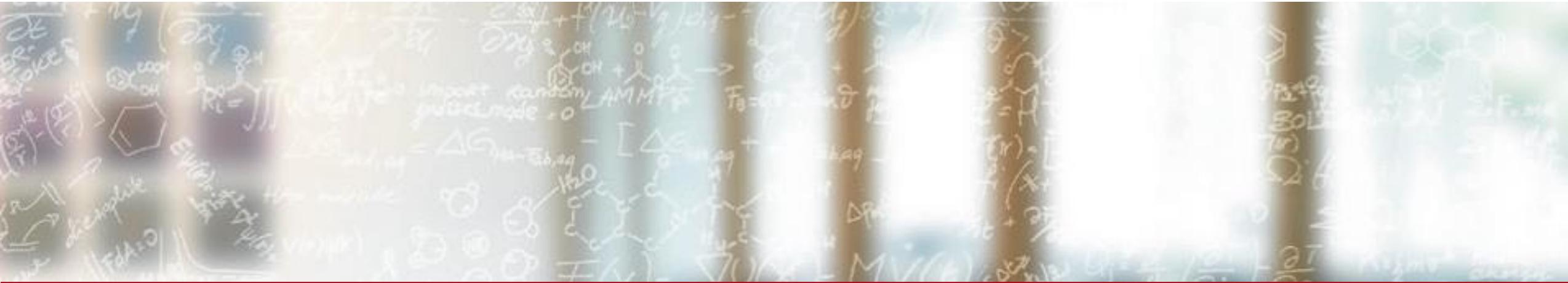




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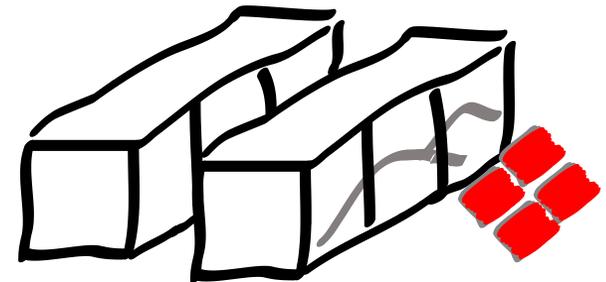


Logistics Information

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CSCS LCA main building



SKACH

SKACH Winter Meeting 2026

Agenda



SKACH

Agenda

<https://indico.skatelescope.org/event/1303/timetable/#20260126>

Day 1

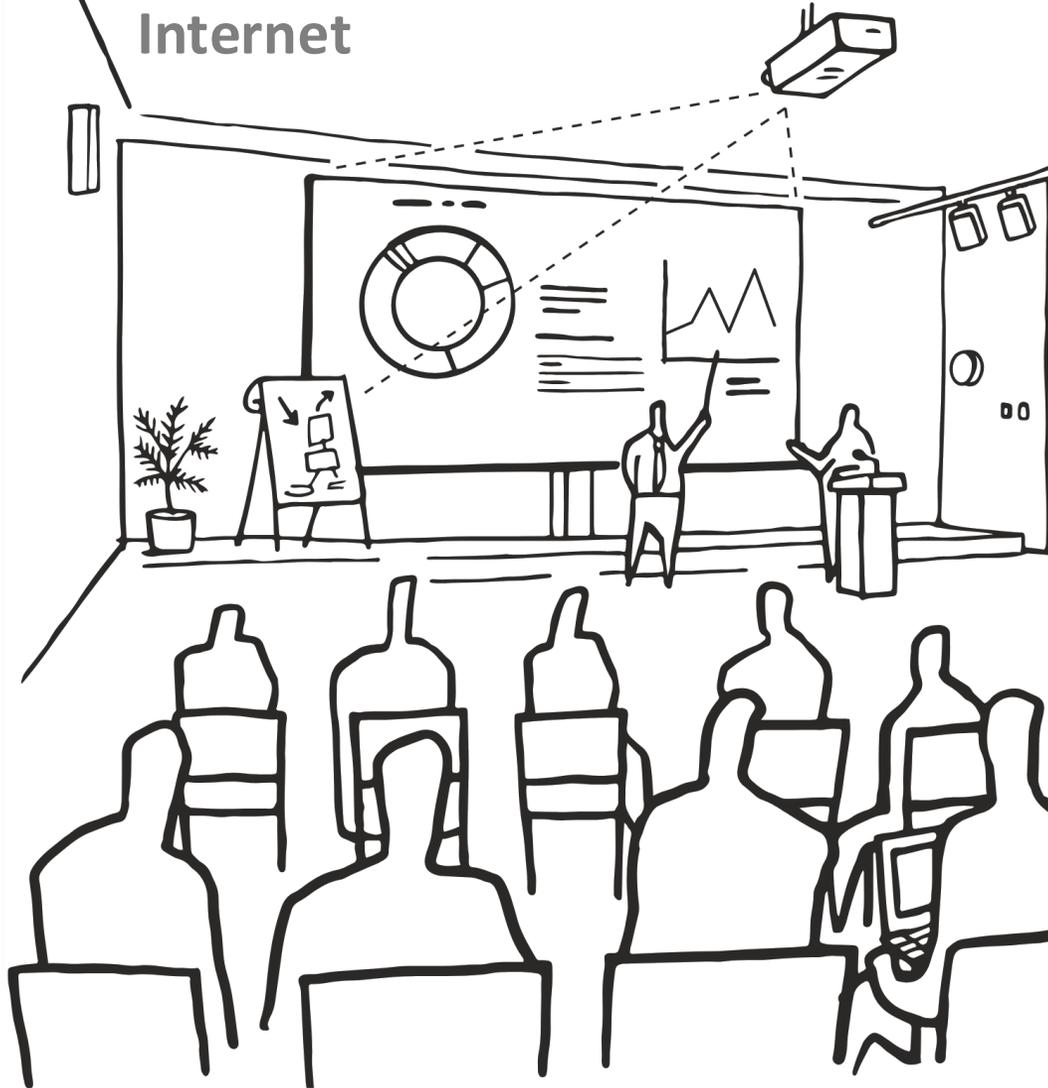
Science Focused

Day 2

SRCNet focused

Connection details

Internet



Wifi

Use eduroam or CSCS-Guest

Zoom link SKACH day 1

<https://ethz.zoom.us/j/65175007548>

Zoom link SKACH day 2

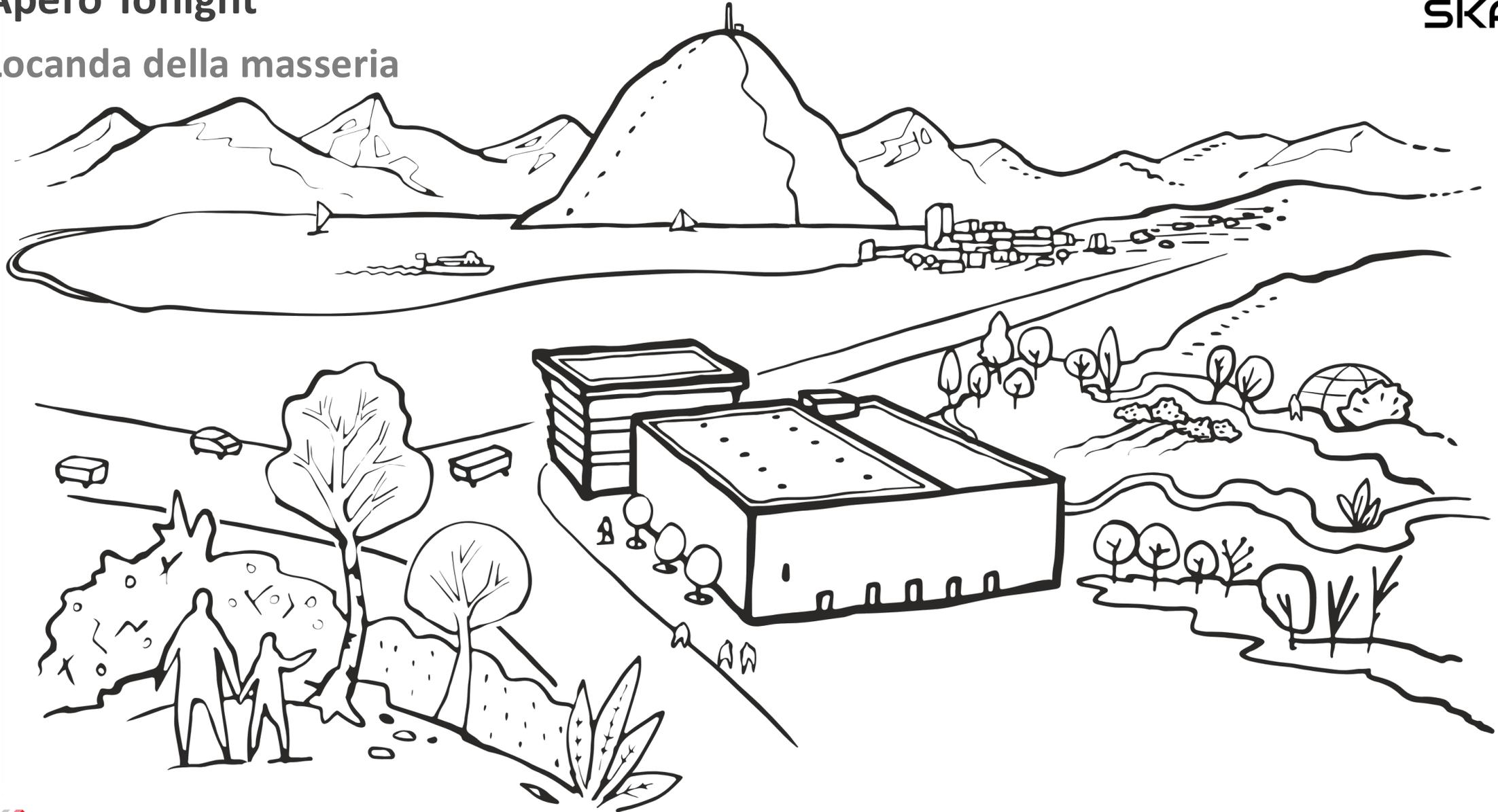
<https://ethz.zoom.us/j/62900950414>

Coffee breaks and lunch will be available
in the lobby just outside this room

Next door meeting room is reserved

Apero Tonight

Locanda della masseria



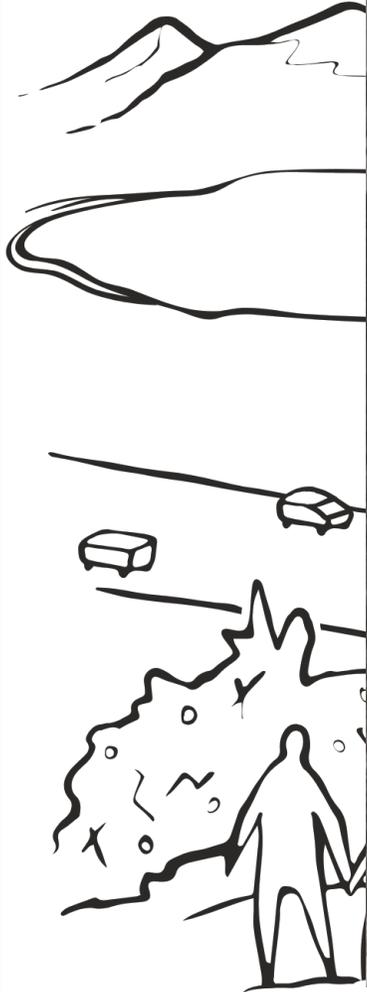
Apero Tonight

Locanda della masseria



Apero Tonight

Locanda della r



Guided tour

Visit to machine room



Register at welcome desk
Tuesday 27th, after lunch
Expected to start at 13:05

