



Vlaanderen
is supercomputing

HPC Userday

KU Leuven/UHasselt

VLAAMS
SUPERCOMPUTER
CENTRUM

*Innovative Computing
for A Smarter Flanders*

vscentrum.be

Objectives

- ✓ Welcome
- ✓ Speakers of today are highlighting a number of
- ✓ Also an opportunity to network
 - ✓ With each other
 - ✓ HPC Team
- ✓ Important upcoming 2025 Tier-2

Program

10:00h-11:00h : Tier-0 : LUMI what and how

Best Practices software compilations and own R/Python installations

11:15h- 12:30h : RDM - Tier-1 Data

On demand new features – best practice

Lunch 12:30h – 13:30h

13:30-13:45: welcome

13:45-14:10: Testerep - *Yağız Arda Çiçek, Hydraulics and Geotechnics*

14:10-14:35: Microclimate variables modelling - *Stef Haesen, Forest, Nature and Landscape*

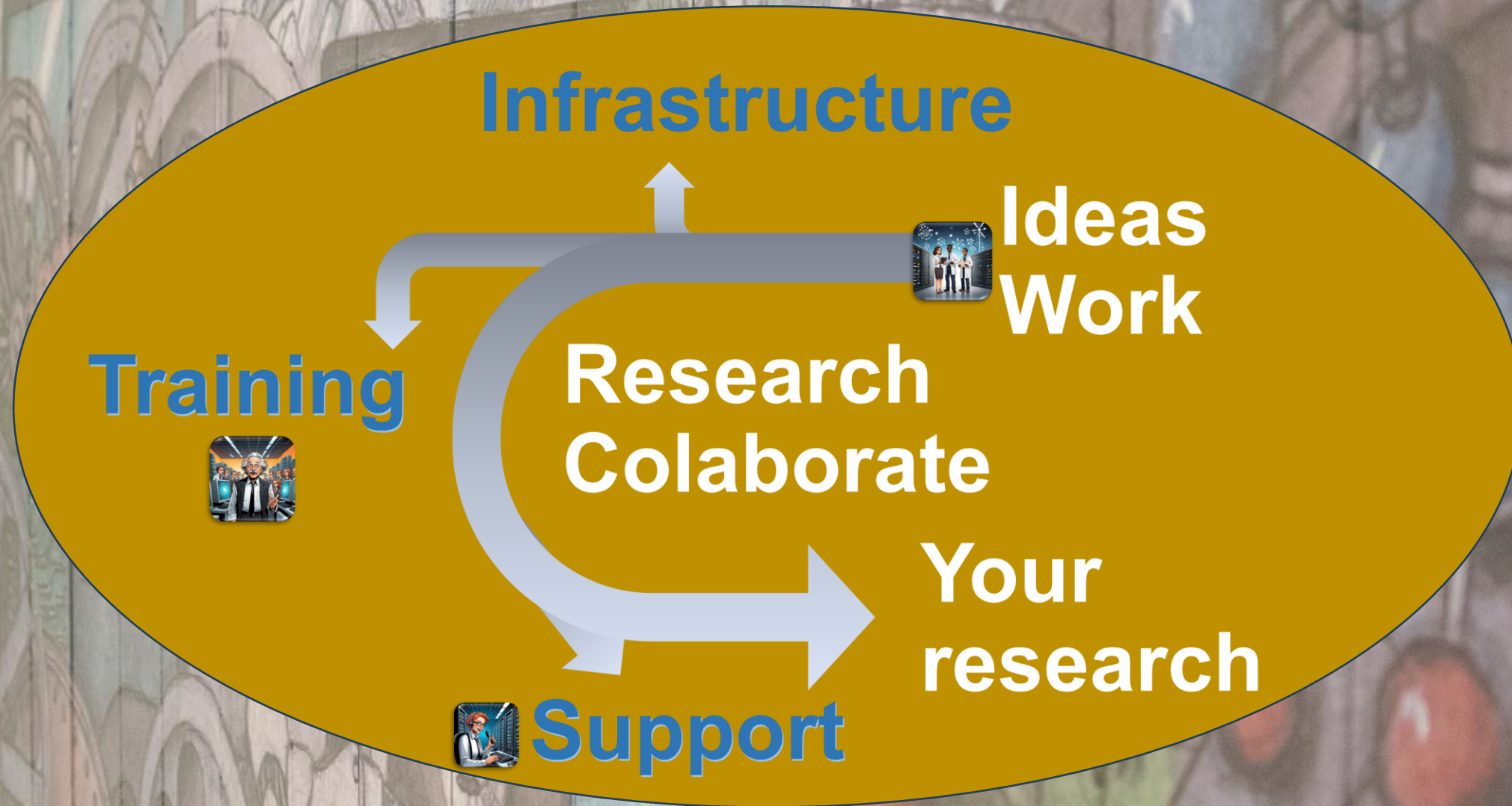
14:35-15:00: 1-minute poster session

15:00-16:00: **Break - posters**

16:00-16:25: Leuven.AI presentation – *Jens Bürger, KU Leuven Institute for Artificial Intelligence*

16-25-16:40: Lumi, first steps- *Nikola Đukić, Processing Speech and Images (PSI)*

16-40-17:00: closing



Infrastructure

**Ideas
Work**

Training



**Research
Colaborate**

**Your
research**

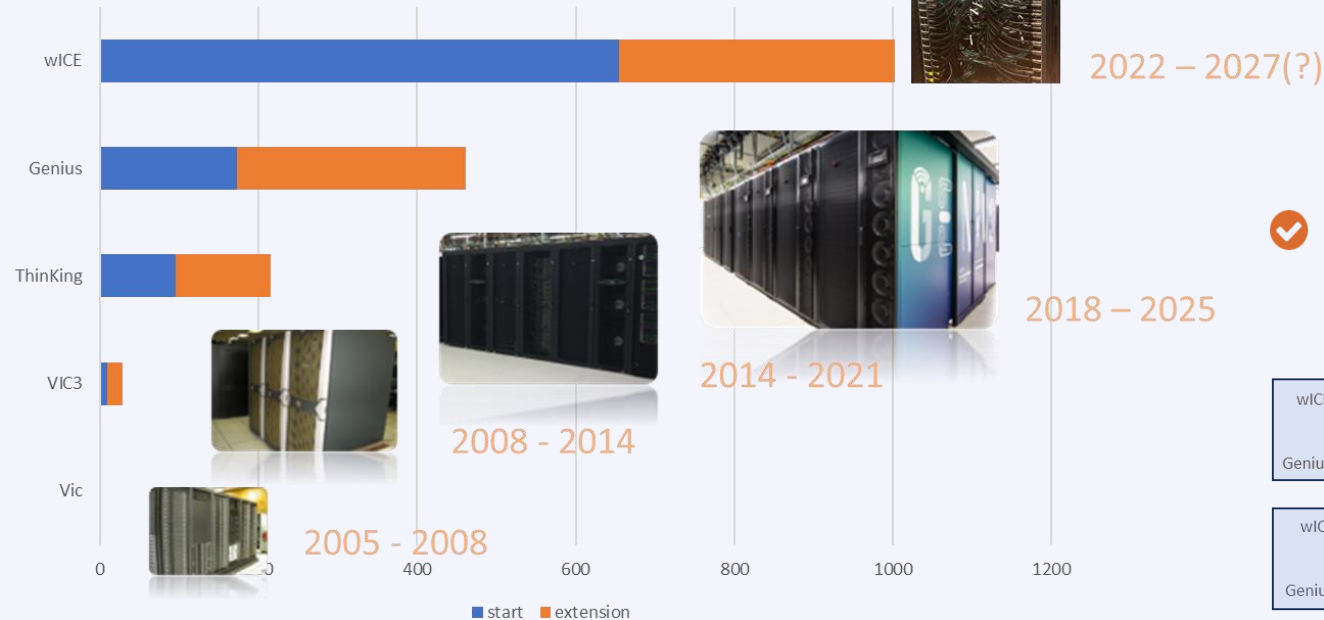


Support

Where do we come from

✓ 4th generation Tier-2 system

Evolution of CPU TF

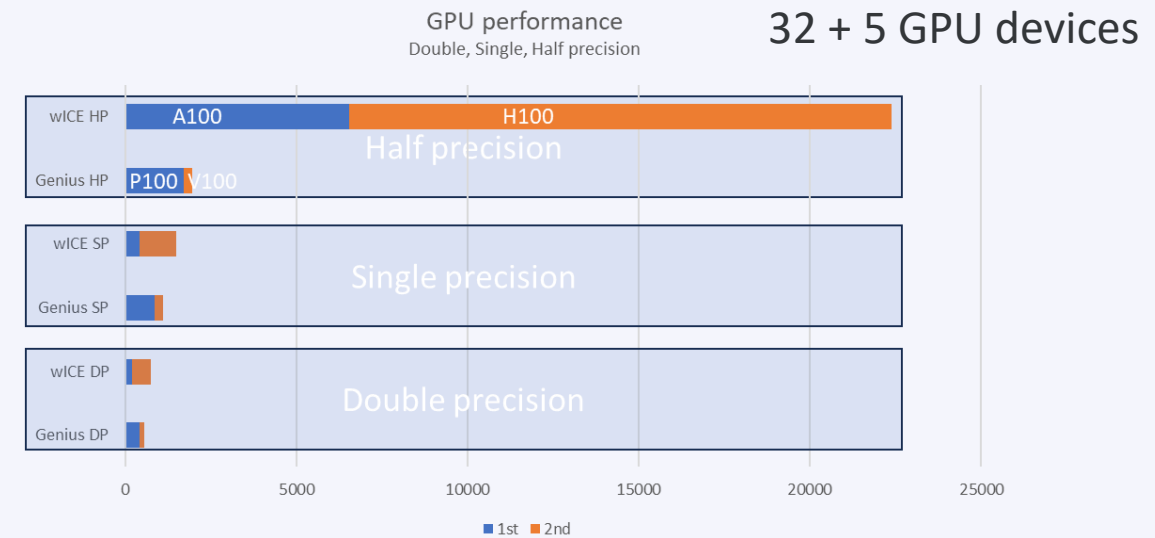


~19K cores

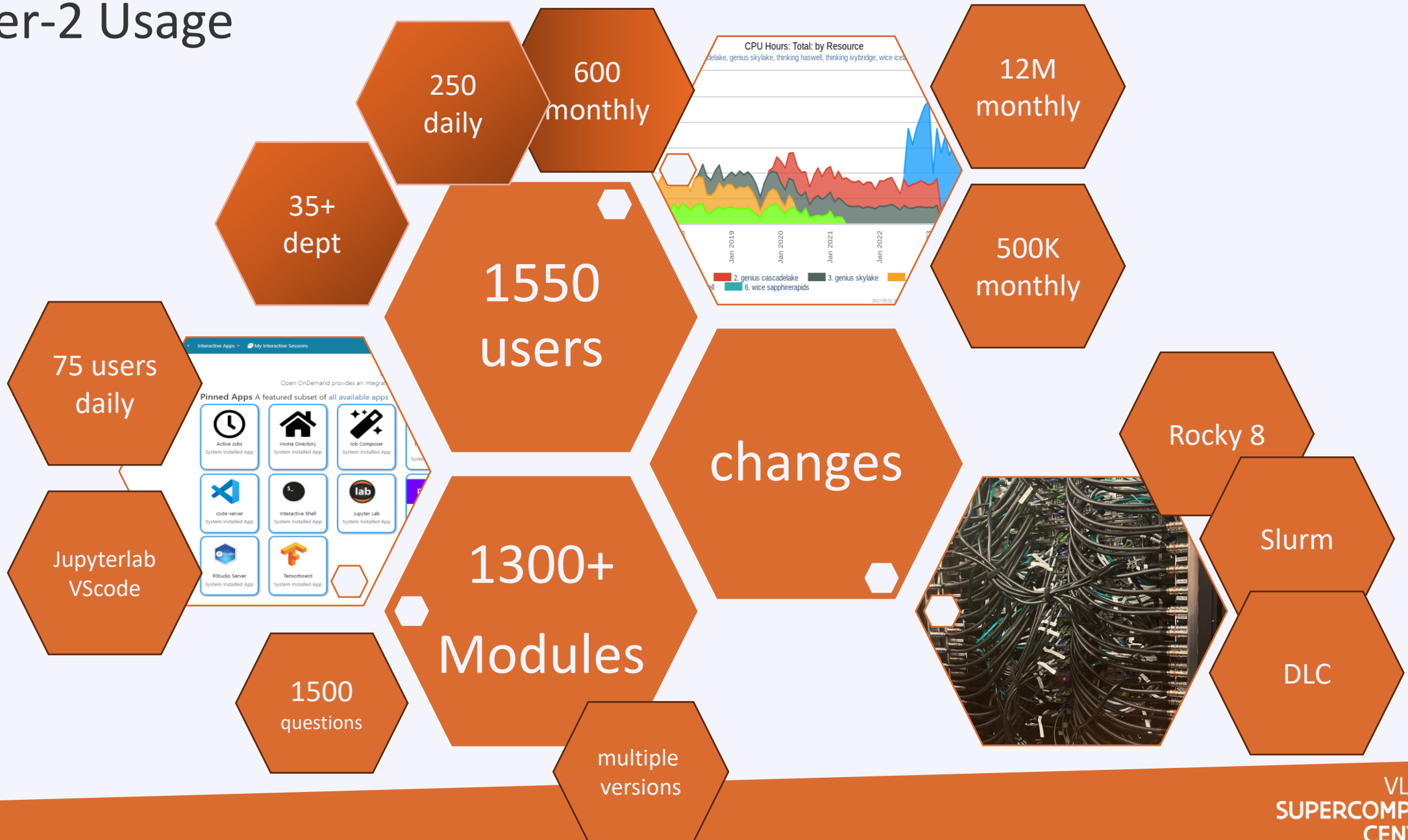
About same performance as BrENIAC

25% of the nodes, 68% of the cores, ~60% power

✓ Evolution of Tier-2 GPU-system

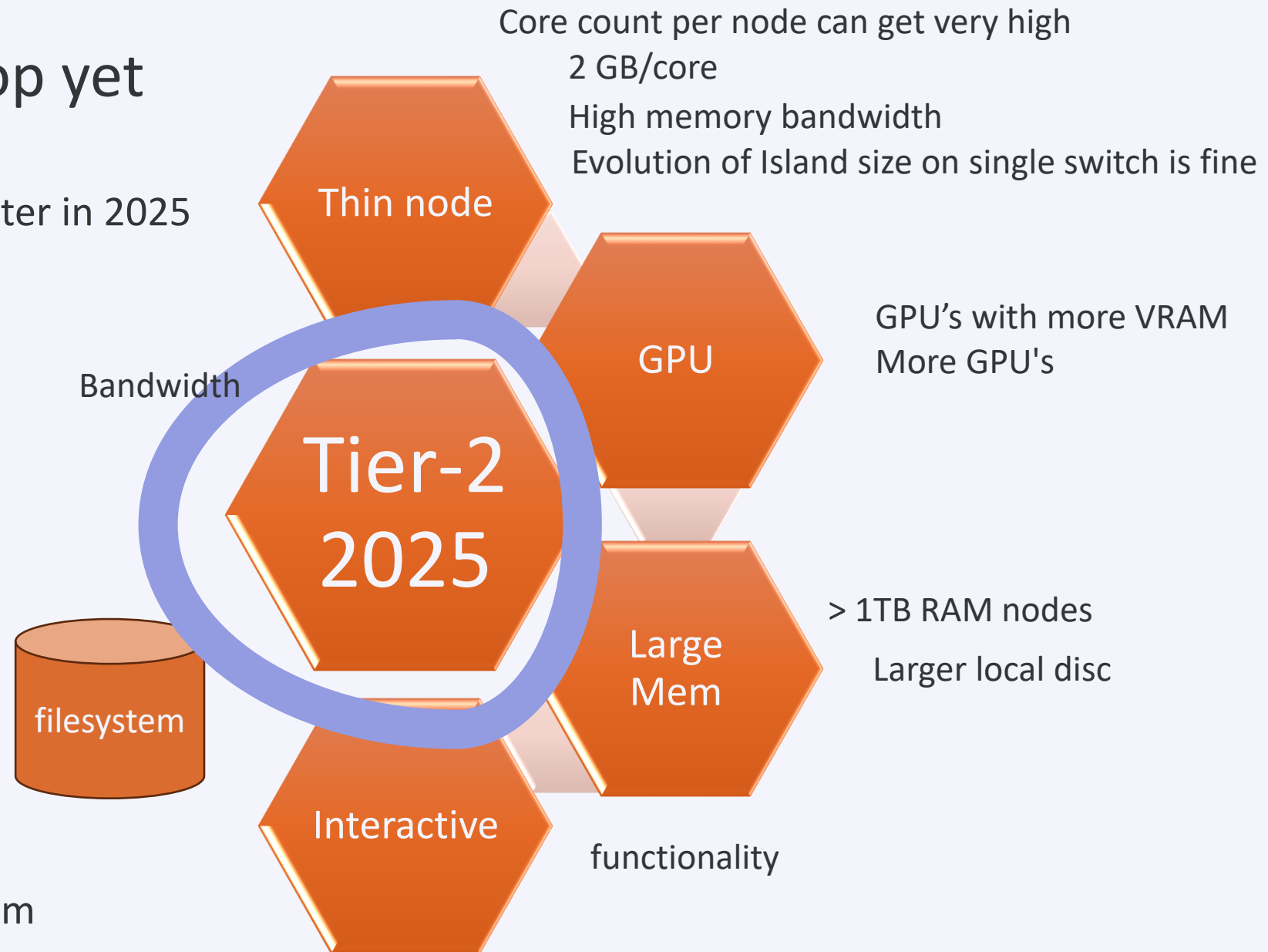


Tier-2 Usage



We don't stop yet

- ✓ New Tier-2 cluster in 2025



- ✓ Talk to the team

Infrastructure

**Ideas
Work**



Training



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Support