

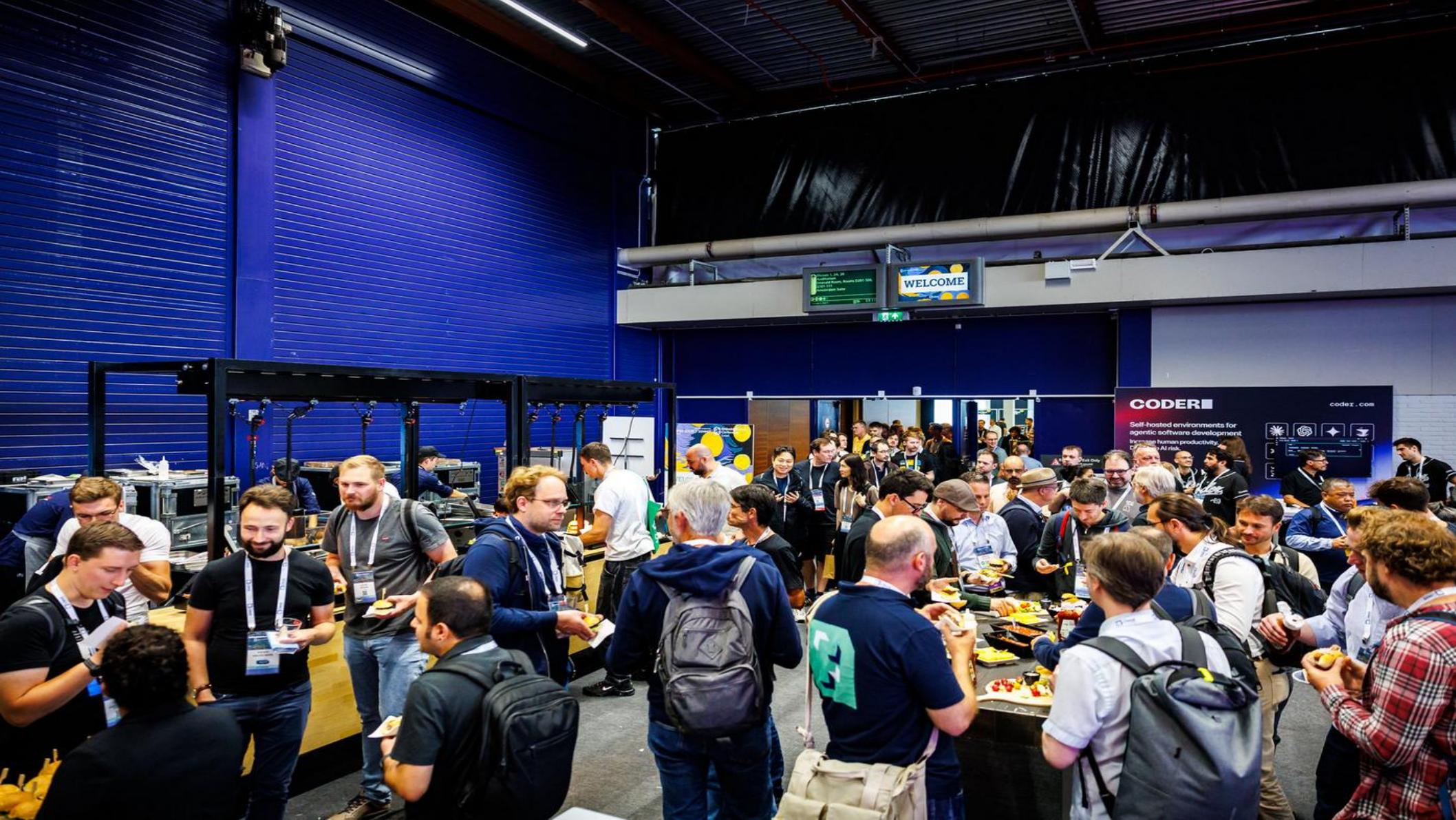
A photograph of a snowy mountain landscape. In the foreground, a wooden sign is partially buried in snow, with the letters 'ALP' visible. Behind it, a small wooden structure is also covered in snow. In the background, there are snow-covered trees and a rocky mountain slope under a clear sky.

# Small is Beautiful: The Value of Niche Gatherings

Christoph Hellwig & Richard Weinberger







WELCOME

CODER

Self-hosted environments for  
agentic software development  
Increase human productivity  
Reduce AI risk

codex.com



Lizumerhütte Zirbenweg 1 1/4h

 **ÖAV** Sektion Hall in Tirol







Tue 30.09.2025

TIME	TOPIC	SPEAKER
07:00 - 08:00	Breakfast	
08:00 - 08:30	nvme-fc: FPIN link integrity handling	John A. Meneghini / Bryan Gurney
08:30 - 09:00	SAN security issues	Chris Leech
09:00 - 09:30	Tea Break	
09:30 - 10:00	PCIe NTB support for NVMET Subsystem	Maciej Grochowski
10:00 - 10:30	Improving zero-copy uses with unaligned io vectors	Keith Busch
10:30 - 11:00	RAID sucks (and what we can do about it)	Christoph Hellwig
11:00 - 11:30	Tea Break	
11:30 - 12:00	An introduction to debugging with drgn	Johannes Thumshirn
12:00 - 12:30	Python Based Filesystem Debug Tools	Richard Weinberger
12:30 - 13:30	Lunch	
13:30 - 19:00	ad hoc BOFs and hallway track (or hiking on your own)	
19:00 - 22:00	Dinner, Drinks and Socializing	



# Alpine Linux Persistence and Storage Summit

September 29 to October 2 2025

Lizumerhütte, Tyrol, Austria

DETAILS

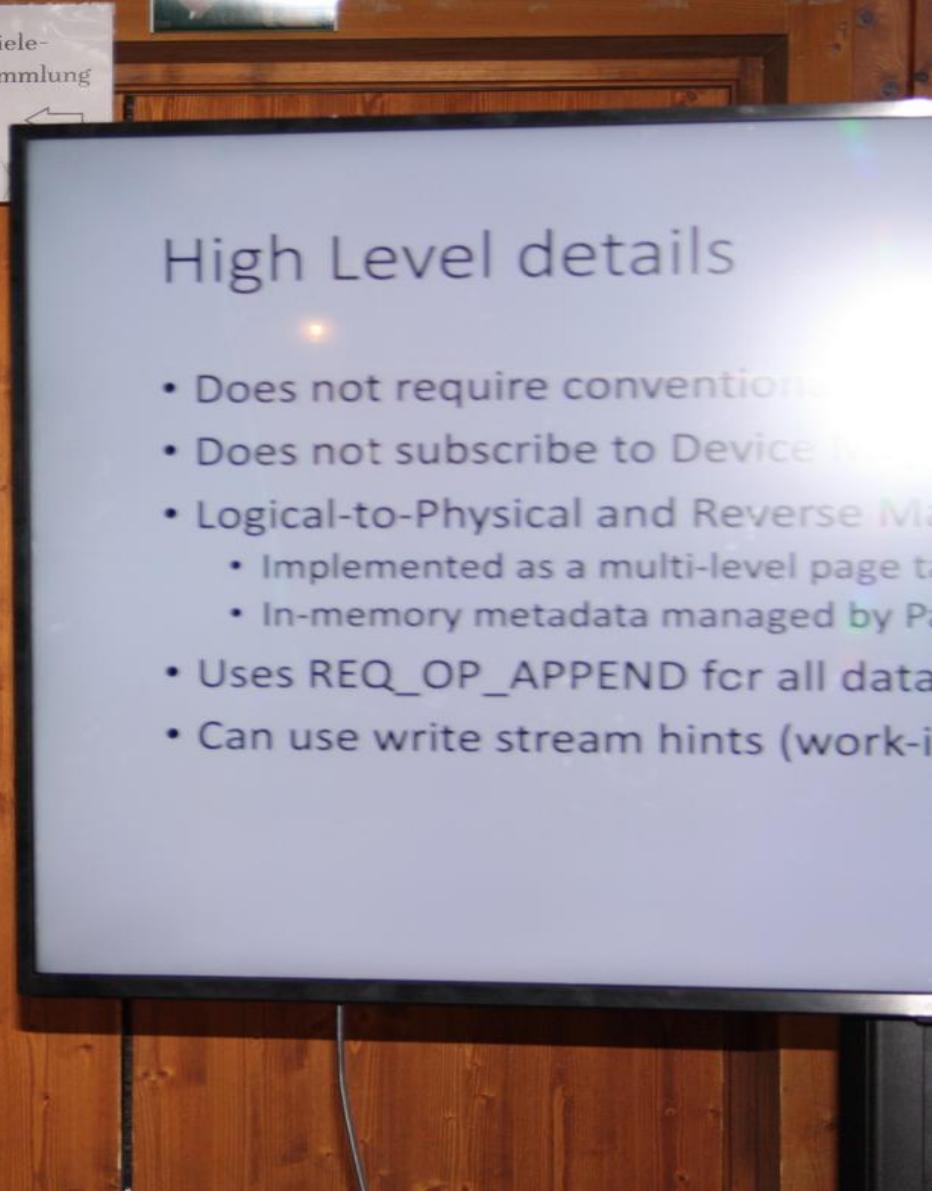
ATTENDANCE

SCHEDULE

- Overlapping tra...
- Commercially a...
- **Last zone** may...

Samsung Semiconductor Denmark Res...





## High Level details

- Does not require conventions
- Does not subscribe to Device
- Logical-to-Physical and Reverse Map
  - Implemented as a multi-level page table
  - In-memory metadata managed by Page
- Uses REQ\_OP\_APPEND for all data
- Can use write stream hints (work-in-





How we feel about presenting here



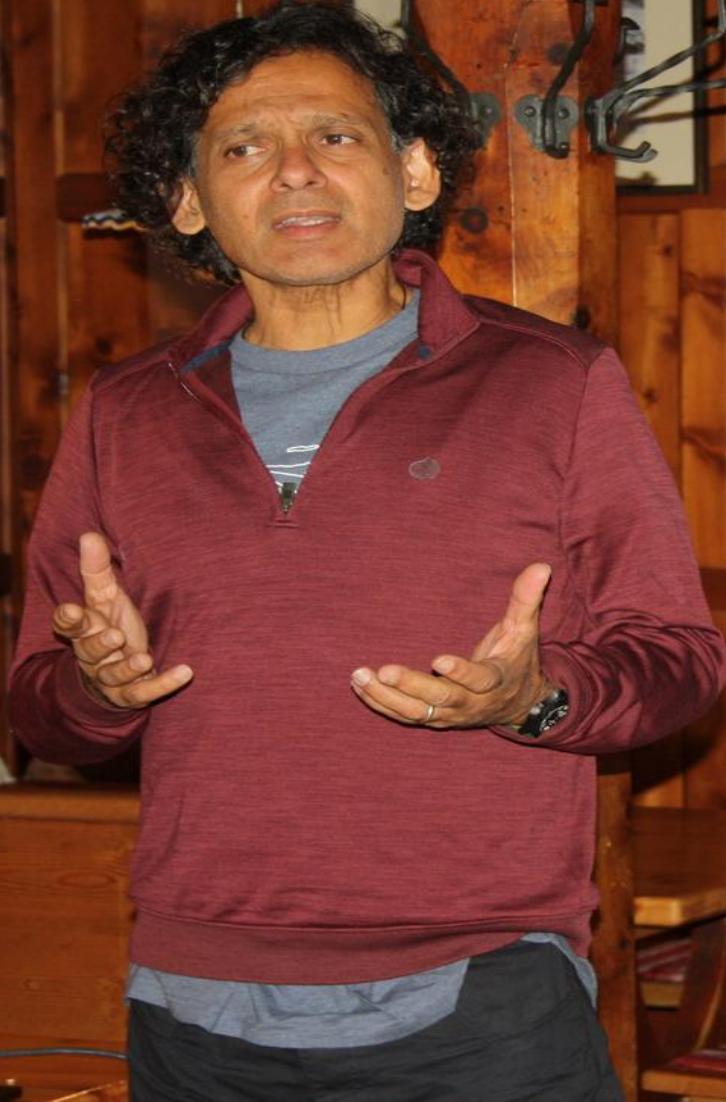
Child's drawing (c) Michael Wimmer



(Vincent van Gogh's 'Starry Night', CC BY-SA 3.0)

MTD





01 Executive Summary 02 Business Challenges 03 Value Process 04 Solutions Benefits 05 Business Case

## AI Challenges Facing the Enterprise

**Managing AI Data is Complex**

- Distributed data across core, cloud, edge
- Multimodal data formats
- Massive scale increases complexity

**High Costs Derail AI Goals**

- High demand for GPUs = low supply
- Massive DC, power and cooling costs
- S3 object costs skyrocketing

**AI Requirements**

- Inference high IOPs
- Training
- Millions

**Reliability**

- Governance
- 99.999%
- Unproven

```
graph TD; Center(($$$)) --- C1((1)); Center --- C2((2)); Center --- C3((3)); Center --- C4((4)); C1 --- List1["• Distributed data across core, cloud, edge  
• Multimodal data formats  
• Massive scale increases complexity"]; C2 --- List2["• High demand for GPUs = low supply  
• Massive DC, power and cooling costs  
• S3 object costs skyrocketing"]; C3 --- List3["• Inference high IOPs  
• Training  
• Millions"]; C4 --- List4["• Governance  
• 99.999%  
• Unproven"]
```





Grundgipfel  
Sentarrenn  
Juli 1990

BoF Topics:

17:30 MTD MTD Rock 10-schedder?

17:45 NVMoF Auto connect

18:00 T-10DIF support for NVMeOF (Zoned)

18:15 DRBD/LINSTOR "SDS" / NVMeOF

18:30 Pblk - internals

18:45 Crash - python













Wir haben  
kein U-Han  
wir haben  
nur  
Schnaps







Thanks for your attention!  
Questions?  
Win a T-Shirt!