

# 2nd isar Meetup



**SIEMENS**

## What can you expect from this event

|               |                 |                                    |                                                                                          |        |
|---------------|-----------------|------------------------------------|------------------------------------------------------------------------------------------|--------|
| 09:00 – 09:30 | Welcome         |                                    | Welcome Session & Coffee                                                                 | 30 min |
| 09:30 – 09:50 | Opening         | Jan Kiszka                         | Opening Remarks                                                                          | 20 min |
| 09:50 – 10:30 | Talk            | Zhihang Wei                        | Maintaining Isar: Testing, CI and Experiences                                            | 40 min |
| 10:30 – 10:50 | Lightning Talk  | Quirin Gylstorff                   | Hardening Isar Images with CIS Rules                                                     | 20 min |
| 10:50 – 11:10 | Break           |                                    | Morning Break / Networking                                                               | 20 min |
| 11:10 – 11:50 | Talk            | Felix Moessbauer                   | Isar build time reduction                                                                | 40 min |
| 11:50 – 12:10 | Lightning Talk  | Oliver Pajonk                      | Usage of Isar in EB corbos Toolkit                                                       | 20 min |
| 12:10 – 12:50 | Talk            | Christoph Steiger                  | SBOMS for Isar: An Update                                                                | 40 min |
| 12:50 – 14:10 | Break           | Kolkovna                           | Lunch                                                                                    | 80 min |
| 14:10 – 14:30 | Lightning Talk  | Jani Hautakangas                   | How we use Isar in Konecranes                                                            | 20 min |
| 14:30 – 15:10 | Talk            | Lukas Rabener & Alexander Heinisch | Crafting an Edge Compute Platform for Predictive Maintenance with Isar and isar-cip-core | 40 min |
| 15:10 – 16:00 | Open Discussion |                                    | Open Discussion                                                                          | 50 min |
| 16:00 – 16:15 | Closing         | Baurzhan Ismagulov                 | Closing Remarks                                                                          | 15 min |
|               |                 |                                    |                                                                                          |        |
| 18:30 – 22:00 | Social Event    | Bredovský Dvůr                     | <a href="https://restauracebredovskydvor.cz/">https://restauracebredovskydvor.cz/</a>    |        |



» 18:30 | Dinner @ Bredovský Dvůr

# What can you expect from this event



## Our sponsors

Siemens AG  
Siemens Mobility – Secure Operating  
Systems @ (SMO RI GPO CYS)



## Our speakers

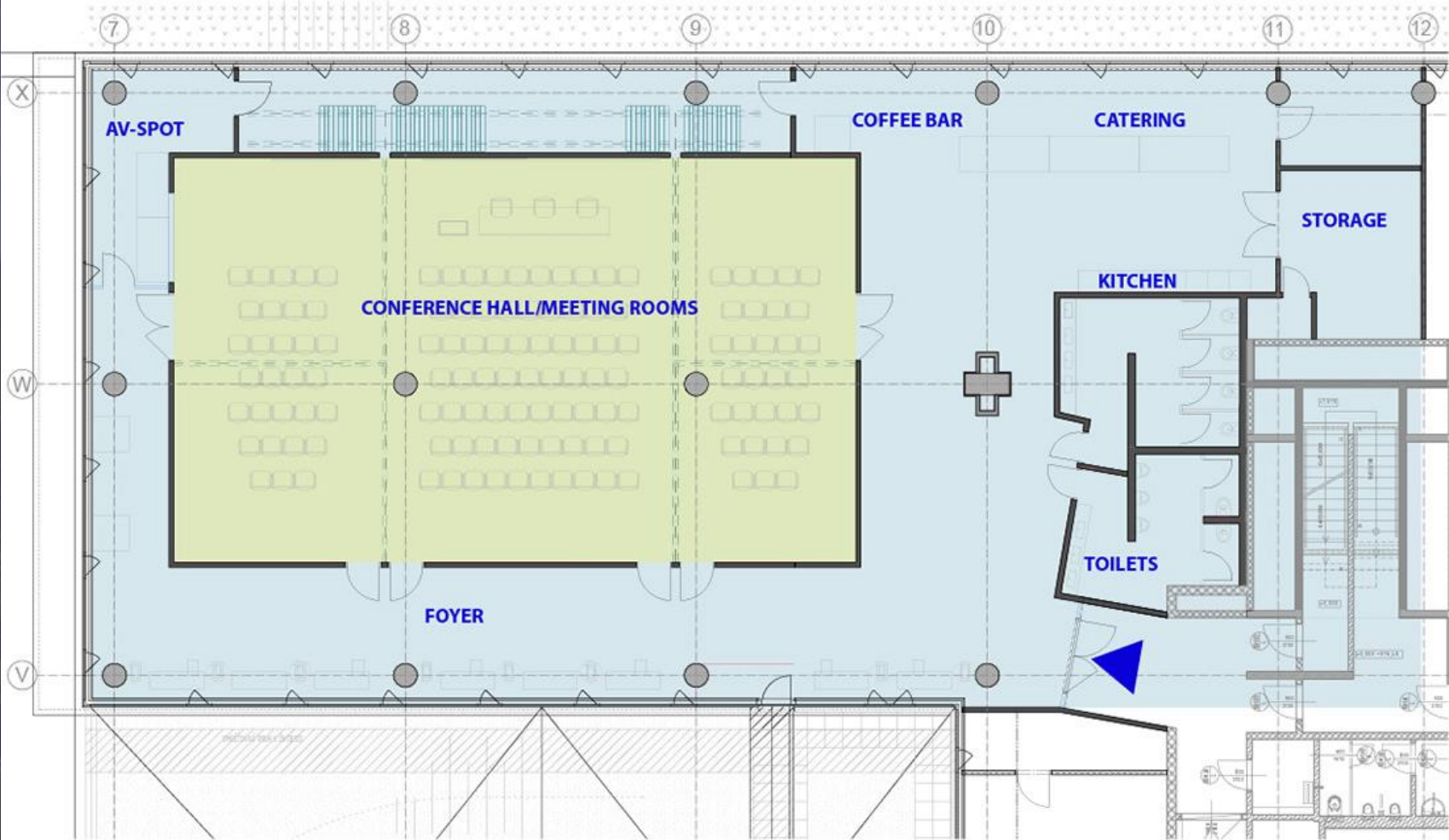
This line-up could only be compiled with  
the help of your submissions!



## Slides

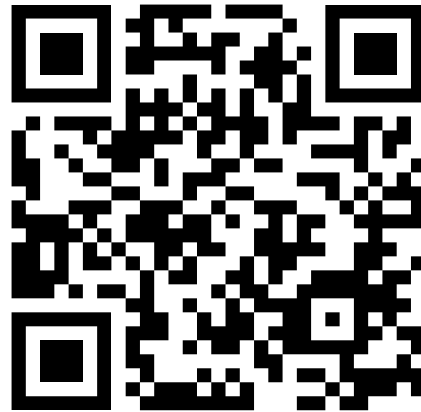
Will be uploaded on our website after the  
event: [opensource.siemens.com/](https://opensource.siemens.com/)

# Room Plan



**For the discussion round:**  
**<https://pad.riseup.net/p/isar>**

**Place your questions there.**



# Isar in 2026 – Highlights Since the Last Meetup

## New Releases

- April 2026:  
**Isar v1.0** is rolled out
- May 2026:  
**Isar v1.1** release,  
resolving few regressions
- Working towards v1.2

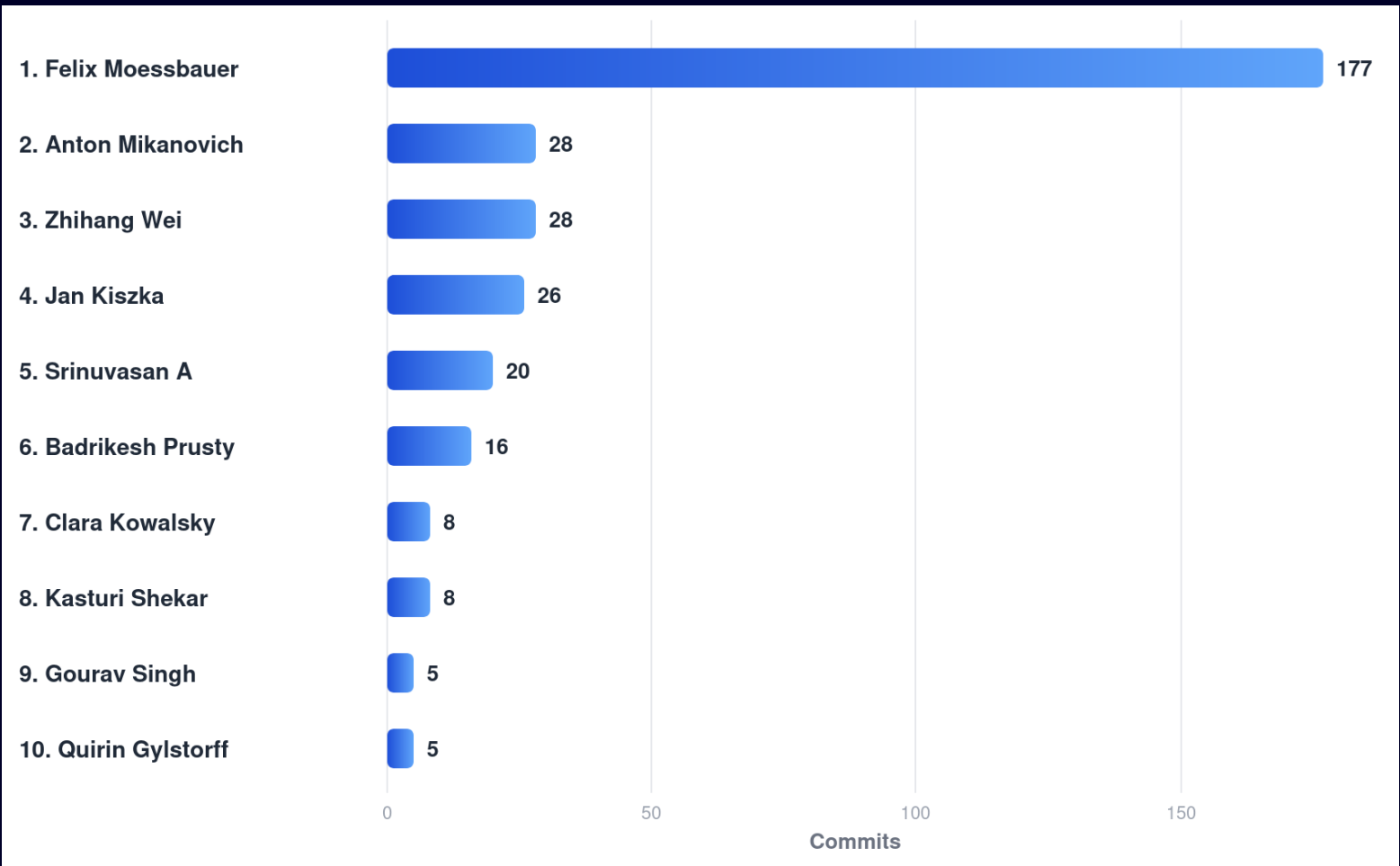
## Features & Updates

- Rootless builds, hurray!
- Build speed-ups  
(more to come)
- Rust packaging
- Latest debsbom
- Installer improvements
- Ubuntu 26.04,  
Debian 14 (early testing)
- RECIPE-API-CHANGELOG  
grew by +300 lines

## CI, Testing, Security

- Testsuite in-a-container +  
invocation script
- Testsuite speed-ups  
(more to come)
- 2nd security advisory  
(repo key ownership issue),

# Top 10 Isar Contributors in 2026



## Stats for 2025-12 to 2026-10

- 346 commits
- 26 unique contributors
- 22 from Siemens & ilbers
- 4 external contributors
- Many Siemens contributors from product teams

# Isar Usage By the CIP Project

## Isar layer isar-cip-core

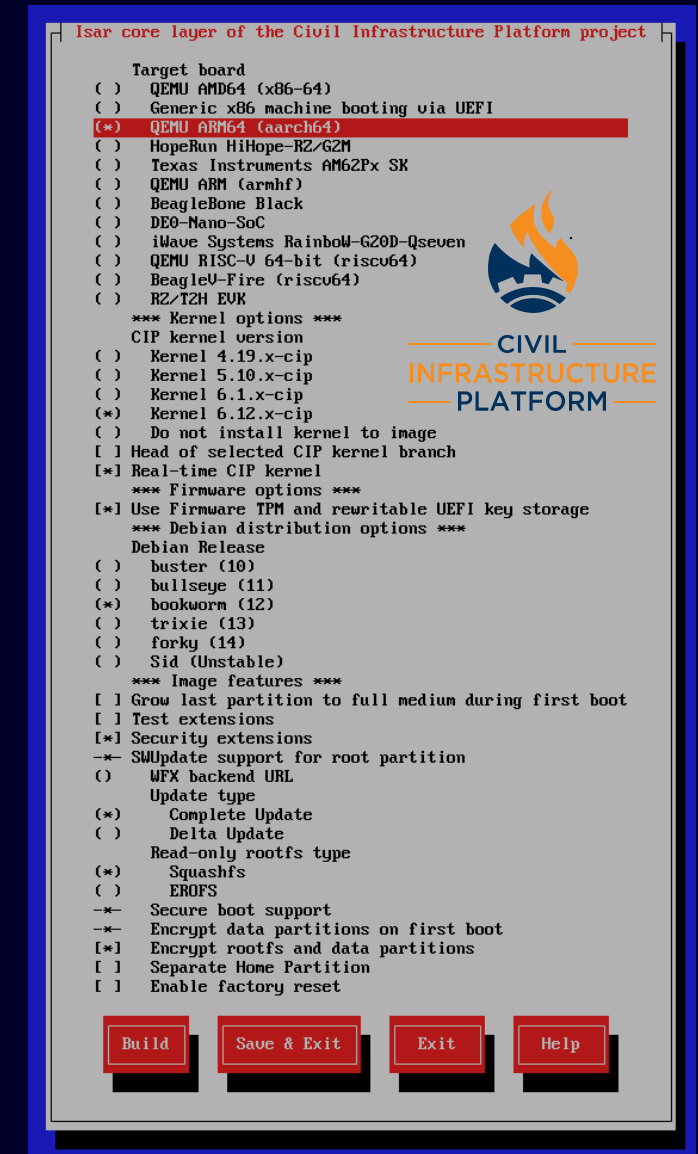
- Integration point for Debian-based CIP work
- OTA update pattern, secure boot, disk encryption
- Base image for IEC62443-4-2 certification
- Image reproducibility testbed

## Recent improvements

- Rootless builds
- UEFI + OP-TEE fTPM + measured boot on ARM64
- wfx OTA update backend
- New boards and (almost) ready for Debian forky

## Ongoing work

- CIS hardening
- Dracut-based initramfs



# What Will the Future Bring To Isar?

## Compatibility

- New Debian, new Raspberry Pi, new Ubuntu releases
- Upstream package changes (kernel, firmware, debsbom...)
- New Bitbake and OE bits

## Speed!

- More build time reduction patches
- Further ideas in our heads (split up task, cache more)
- More parallelized test suite

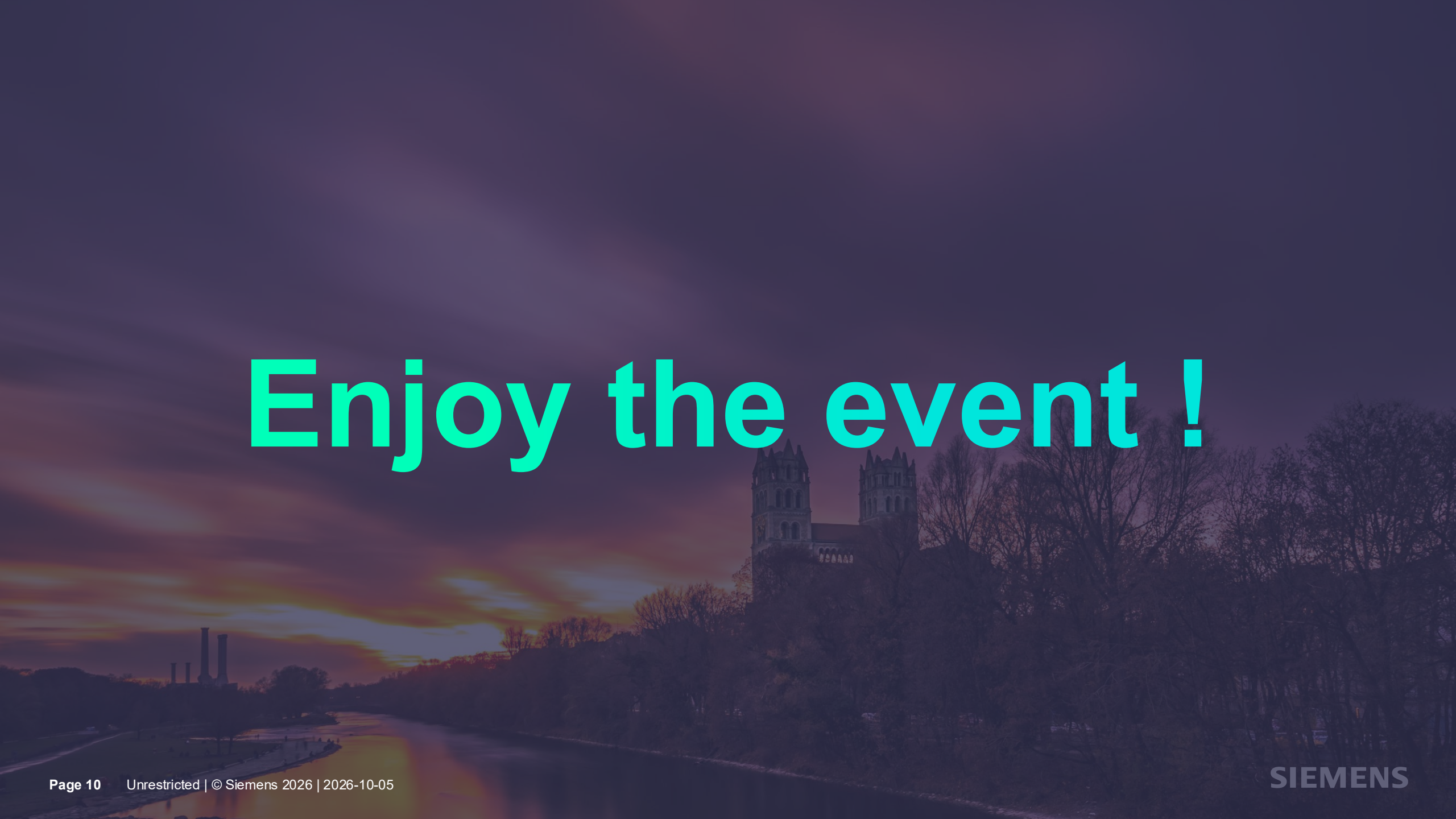
## Local partial mirror management

- See ongoing base-apt rework

## Your ideas!

- Use open discussion today – or mailing list later on





# Enjoy the event !

# Thank you for your participation

## Our sponsors



Siemens AG  
Siemens Mobility – Secure Operating  
Systems @ (SMO RI GPO CYS)

## Organization



Tobias Schaffner  
Pasquale Nieddu  
Jan Kizska  
And the colleagues from the front desk!

## Event Post-Processing



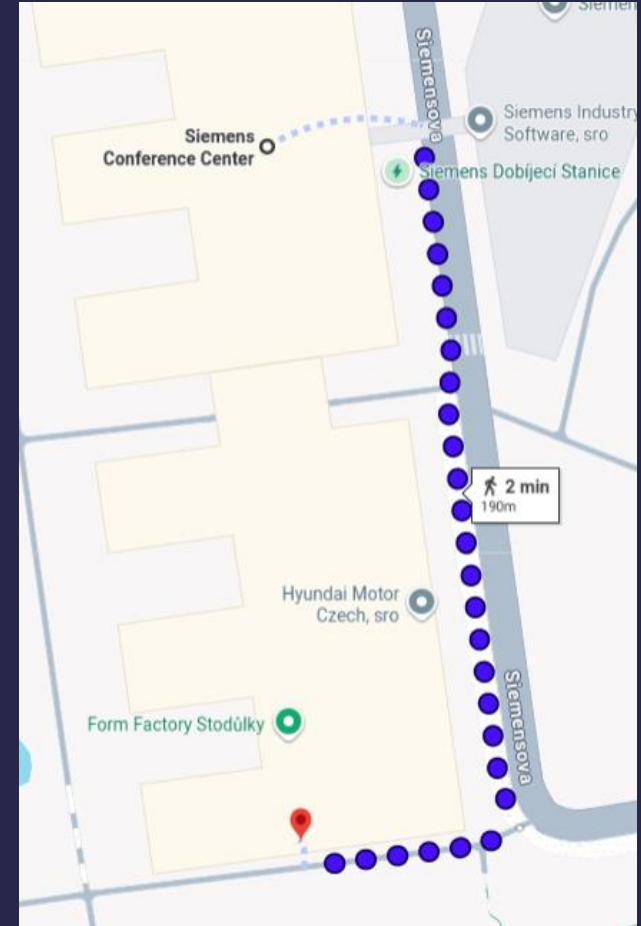
1. To the speakers: please send your slides as PDF to Tobias [tobias.schaffner@siemens.com](mailto:tobias.schaffner@siemens.com)
2. To all participants: take 5 minutes to fill the feedback form

## Isar Community Event 2026 Feedback



<https://www.surveymonkey.com/r/LCTZJMX>

# Lunch at Kolkovna!



# Reservation at Bredovský Dvůr 18:30

