

ISPCS 2026

Plugfest Briefing

Doug Arnold

Brescia, Italy

October 4-6

Agenda

- What is the ISPCS Plugfest
- Technologies under test
- Test stations
- Schedule
- What to bring
- Shipping
- Registration
- Plugfest Committee

What happens at the ISPCS Plugfest

- Hackathon
 - Bring on your prototypes and experiments
 - We will help you get them working
- Stress testing
 - We will subject your equipment to non conformant PTP traffic, leap seconds, negative leap seconds (Oh no!), etc to test its robustness
- Free one on one testing with timing equipment vendors
 - These folks are experts at testing timing equipment
 - Learn about the tools your boss should buy for you
- What it is not: Profile compliance certification
 - sorry, not enough time for this
- And yes: What happens at the Plugfest stays there
 - No companies outed for a bug

Technologies tested

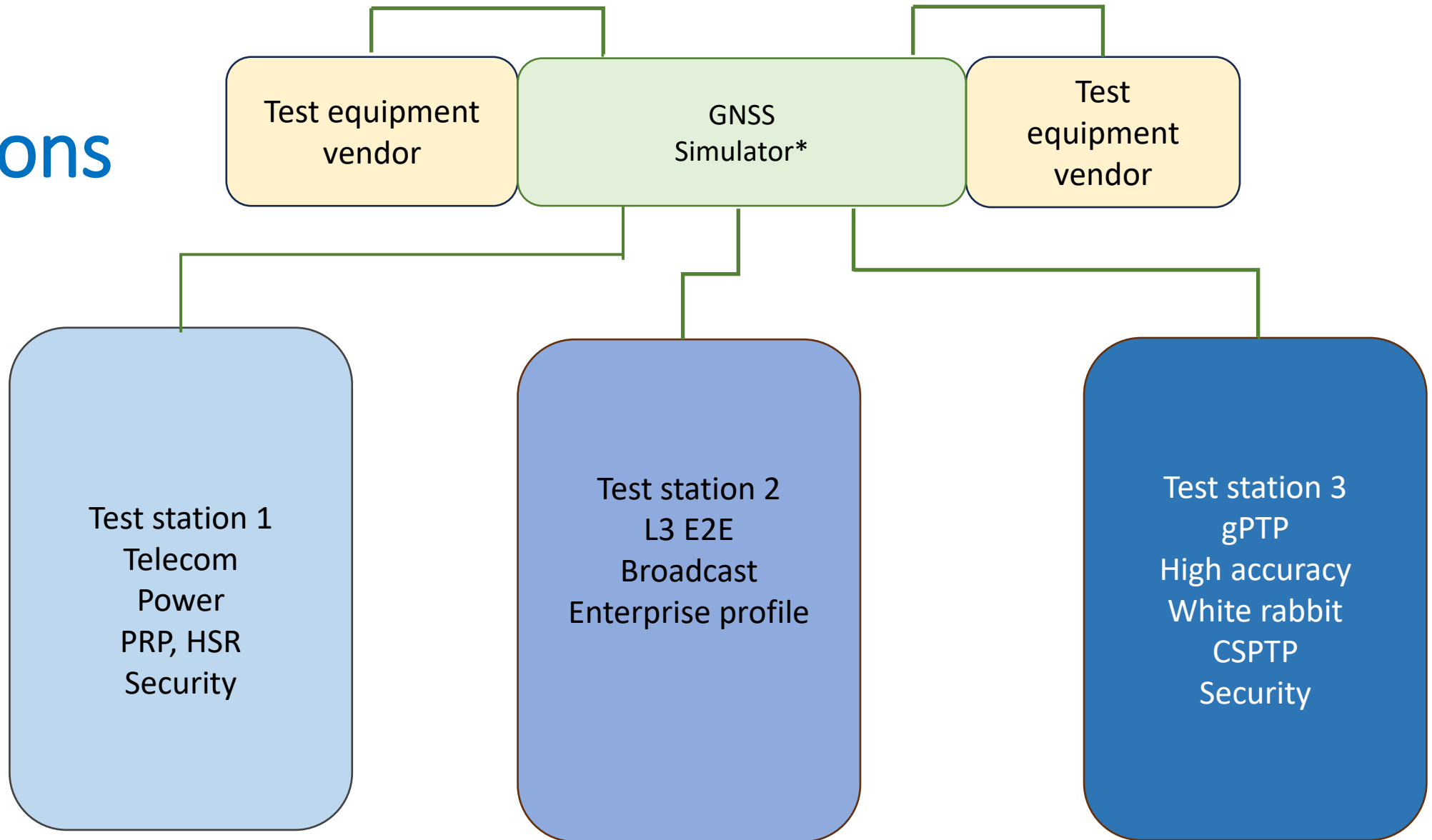
Depends on what people bring and want to do

- Power profiles
 - PRP, HSR
 - Authentication TLV
 - Telecom profile-power profile interworking
- telecom profiles
- Broadcast profiles
 - Authentication TLV
 - Metadata TLV (Announce message)
 - Epoch timing
- gPTP (802.1AS)

- High Accuracy/White Rabbit
 - Automatic calibration (P1588f)
 - Security features
- No Announce PTP (P1588h)
- Client server PTP

Note: Tests run in parallel, bring sufficient equipment and people to participate in multiple tests

Test Stations



* Includes, week number rollover, partial sky view upon request

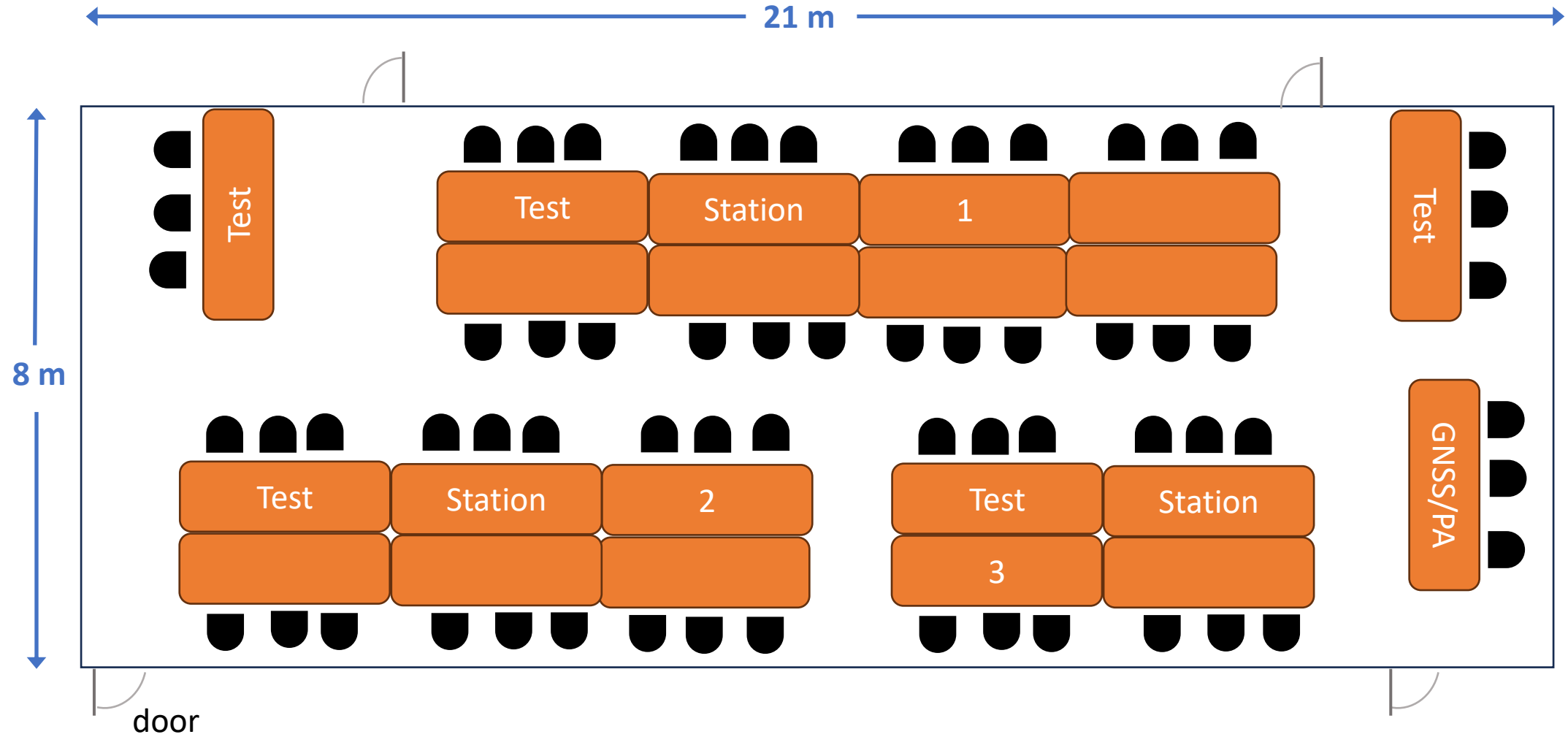
Adversity tests

- GNSS simulator
 - Next GPS Week number rollover
 - Linux 2038 rollover
 - Partial sky view
- PTP
 - Wrong profile traffic
 - Wrong Sdold traffic
 - Rogue grandmasters



Plugfest room, set up differently for another event

Room layout



Schedule

- Sunday 13:00 – 17:00 Optional equipment set up
- Monday 8:30 Doors to Plugfest room open
- Monday 9:00 – 9:15 Plugfest room meeting
- Monday 9:15-9:30 Plugfest Station meetings
- Monday 9:00 - 12:30 Set up networks, Basic interoperability
- Monday 12:30 - 13:30 Lunch
- Monday 13:30 - 17:00 Rogue master, Wrong profile traffic
- Monday 17:00 – 18:00 GNSS simulator adversity
- Tuesday 8:30 Doors to Plugfest room open
- Tuesday 9:00 - 12:30 PTP message flood, Simulated congestion, profile specific tests
- Tuesday 12:30 - 13:30 Lunch
- Tuesday 13:30 - 15:00 GNSS Adversity test
- Tuesday 15:00 – 17:00 Testing
- Tuesday 17:00 – 18:00 Tear down and pack up

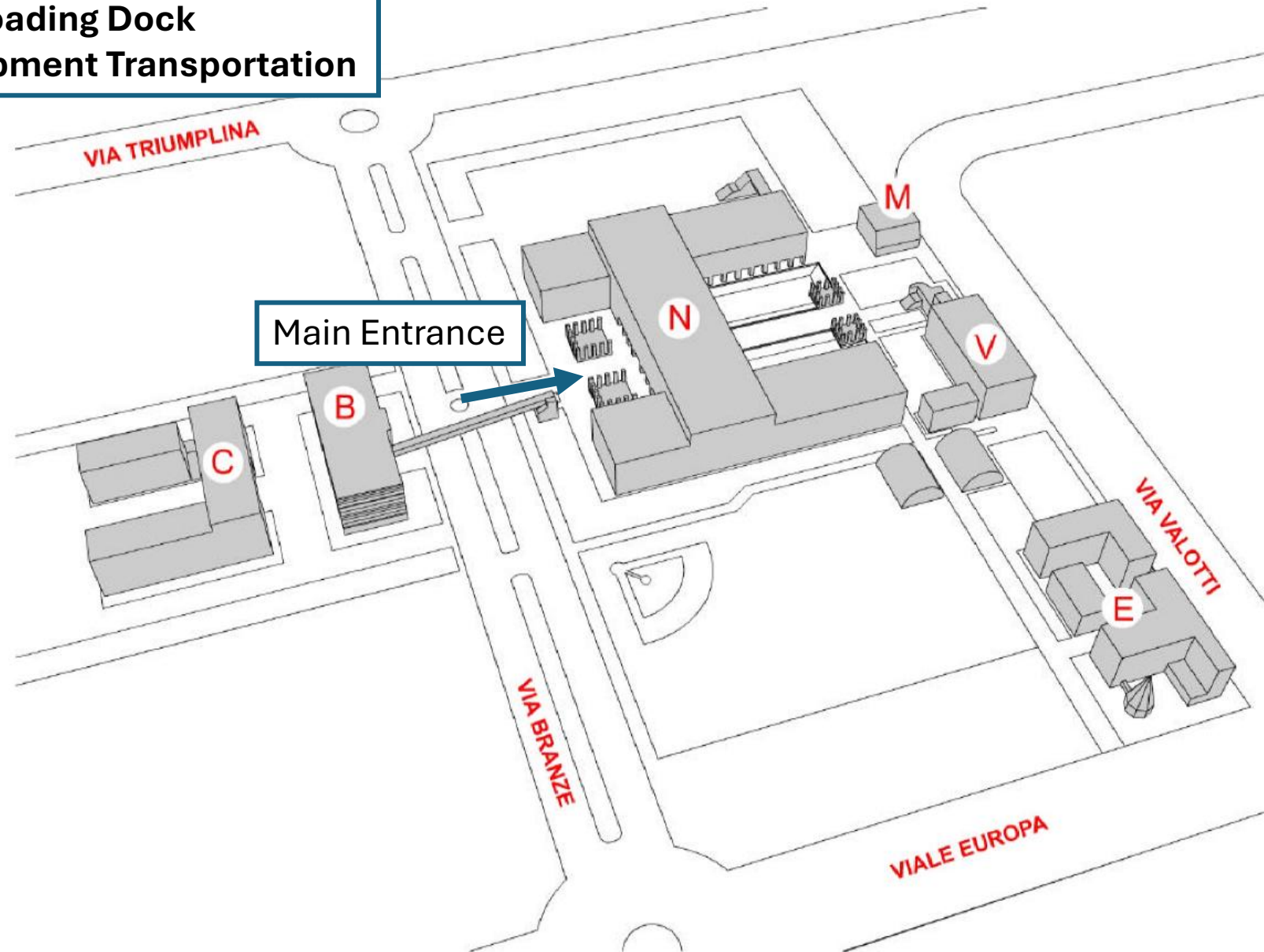
We will provide.

- GNSS simulator signal and cable with SMA male connectors
- Power strips
 - European style sockets
 - 240 VAC, 50 Hz
- Coaxial cables for PPS measurement
- PPS measurement equipment
- Monitors for PTP Track Hound
- White boards
- Snacks, coffee, lunch

What to bring

- Return shipping labels
- Your products or prototypes
- Laptop for packet capture
- RF adaptors for GNSS and 1PPS
 - SMA female to whatever you need
- DC blocks for GNSS port
- GNSS splitter (optional)
- Power strip + plug adaptor if you are not coming from Europe
- Ethernet cables
 - Copper, fiber
 - SFPs (One for each end of cable)
- RF adaptor for 1PPS, BNC female to what you need
- Oscilloscope (optional)
- PTP capable switches (optional)

**Directions to Loading Dock
for Onsite Equipment Transportation**



Directions to Loading Dock for Onsite Equipment Transportation

Plugfest room

Temporary
parking lot

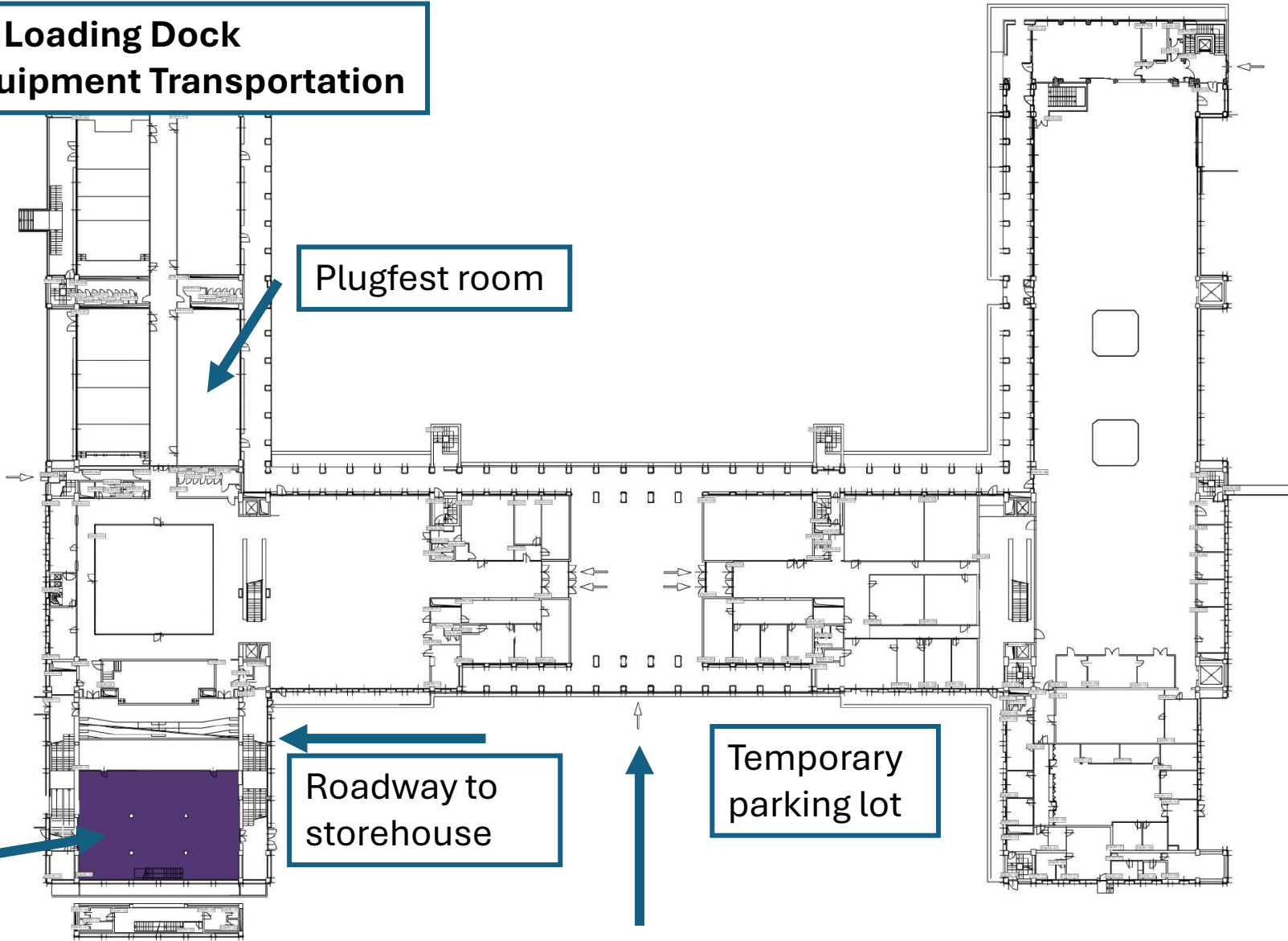
Roadway to
storehouse

Main Entrance

Storehouse

TOT 8144.19 mq. TEM 301.53 mq. SEL 0.00 mq.

0 5m 10m



Shipping

Address

Stefano Rinaldi
Department of Information Engineering
University of Brescia
Via Branze 38
25123 Brescia (BS) Italy.

Please include [ISPCS 2026-Conference](#) in the shipping information

Local contact person:

Ivan Bergamini
+390303715686

Ivan.Bergamini@unibs.it (please also c.c. stefano.Rinaldi@unibs.it)

Shipping Arrival and Departure

- Arrival of Shipments
 - Shipments should not arrive earlier than Monday, September 28
 - Shipments should arrive no later than Friday, October 2
 - Earlier is better from outside EU
- Return Shipments
 - Shipper should pick up by Saturday, October 10
- You need to bring return shipping labels

Shipping

- You will need proper paperwork to bring equipment to event and return (e.g., ATA Carnet forms) when shipping from outside the EU
 - Start the paperwork immediately
- If you have a customs problem:
 - Contact your shipper or local customs broker
 - Event staff unfortunately cannot help
- Alternative: Ship to your office or channel partner in northern Italy

Registration and ISPCS website

- All Plugfest participants must register for the ISPCS event
 - Link: <https://ispcs.org/2026/registration>
- Venue and recommended hotels
 - venue: <https://ispcs.org/2026/travel/venue-travel-information>
 - hotels: <https://ispcs.org/2026/travel/accommodation-options>

ISPCS Plugfest Committee

Denis Reilly

Florent Hamelet-Delval

Maciej Lipinski

Sven Meier

Kohei Suzuki

Mile Overton

Amir Osman

Thomas Behn

Doug Arnold

Safran

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CERN

NetTimeLogic

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Telestream

Oak Ridge Labs (US Dept of Energy)

Meinberg

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PLUGFEST

See you in Brescia