ELISA Workshop
London, UK

June 9-11, 2026
Co-hosted with Canonical

Thank you to our host:

Canonical

ELISA
Enabling Linux in Safety Applications

WORKSHOP

Welcome

- Organizational Overview
  - Antitrust Policy
  - Licensing of Workshop Results
  - Code of Conduct
  - Round Table Introductions
- Schedule
- Project Orientation
  - More in AmA session

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Organizational Notes

LF Antitrust Policy Notice

ELISA Project meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal, or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at ELISA Project meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at http://www.linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.

Licensing of Workshop Results

All work created during the workshop is licensed under *Creative Commons Attribution 4.0 International* (*CC-BY-4.0*) by default, or under another suitable open-source license, e.g., GPL-2.0 for kernel code contributions.

You are free to:

- **Share** — copy and redistribute the material in any medium or format
- **Adapt** — remix, transform, and build upon the material for any purpose, even commercially.

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.

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Presentation & Recordings

Based on the licensing of the workshop we will share the recordings of the presentations along with the presentation material in public after the workshop unless otherwise requested.

This includes for example:

- Sharing live with virtual attendees.
- Distribution on ELISA YouTube channel after the event
- Storing on Google Drive and ELISA Directory (GitHub)
- Sharing information on Social media (e.g. LinkedIn)

Code of Conduct

All participants are expected to behave in accordance with professional standards, with both the Linux Foundation Code of Conduct as well as their respective employer's policies governing appropriate workplace behavior, and applicable laws.
https://www.linuxfoundation.org/code-of-conduct/

Chatham House Rule

Always indicate if you want to run a specific session under Chatham House Rule

- In the past we were asking whether waiving Chatham house rule or not,
  but this always caused confusion.
- Unless you inform the organizers, the recording of the session and slides will be posted after the event.

Under the **Chatham House Rule**, anyone who comes to a meeting is free to use information from the discussion, but is not allowed to reveal who made any particular comment. It is designed to increase openness of discussion. The rule is a system for holding debates and discussion panels on controversial topics, named after the London headquarters of the Chatham House, where the rule originated in June 1927.

https://en.wikipedia.org/wiki/Chatham_House_Rule

Round Table Introductions

Please briefly share:

- Name
- Affiliation
- What made you come to this workshop

Session Schedule

Day 1 - Tuesday 9th – Afternoon

13:00	**Welcome from Canonical** (*Teemu Kärkkäinen & Jaume Rafols Borrell*)
13:15	**Welcome & Introductions from ELISA** (*Philipp Ahmann, Kate Stewart, Gabriele Paoloni*)
13:30	**Ask Me Anything – New Participants Onboarding** (*Philipp Ahmann, Gabriele Paoloni*)
14:15	**Certifying Linux for Safety-Critical Systems: A Cybersecurity Compliance Case Study** (*Mikel Azkarate-Askatsua*)
14:45	**Longterm latency monitoring of Linux with PREEMPT_RT** (*Jan Altenberg*)
15:30	Break & **GROUP PICTURE**

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Day 1 - Tuesday 9th – Afternoon

15:45 **SafetyGuard – Watchdog Software** (Sathishkumar Duraisamy)

16:30 **Development status of AGL SoDeV** (*Yuichi Kusakabe*)

17:00 **Functional safety with Xen, Zephyr and Linux for avionics, automotive and industrial** (Matthew Weber, Ayan Kumar Halder)

17:55 **Day 1 wrap-up** (*Philipp Ahmann, Kate Stewart*)

18:00 Day 1 ends

19:00 **Dinner Offsite at Browns Butlers Wharf**

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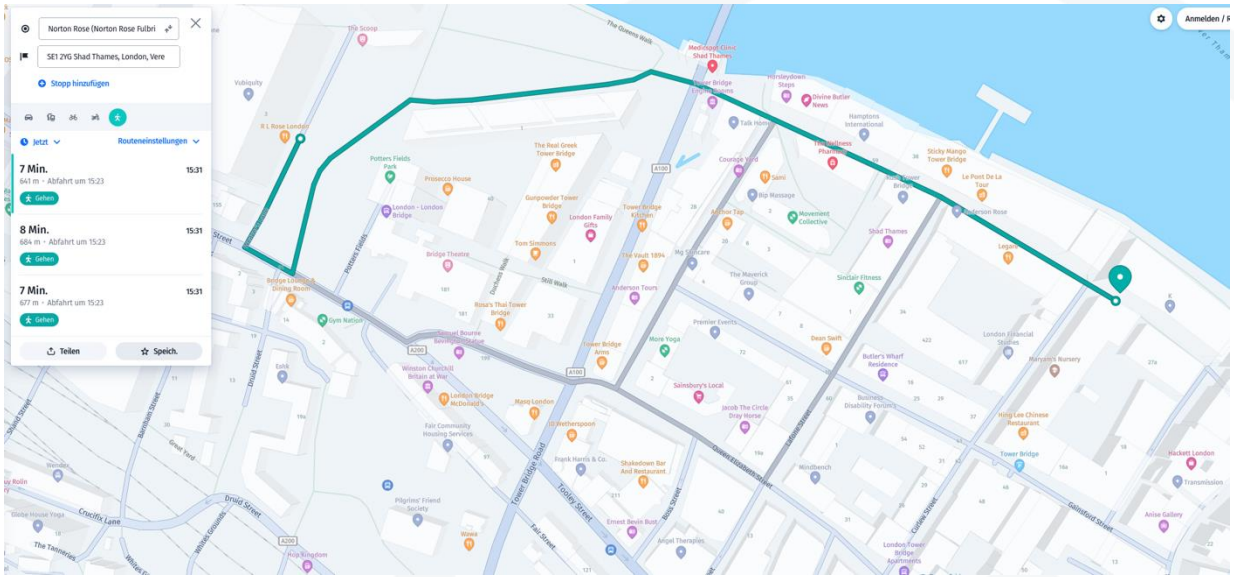
Dinner Location: Browns Butlers Wharf

[Browns Butlers Wharf]
26 Shad Thames, Butlers Wharf,
London, Greater London,
SE1 2YG

https://www.openstreetmap.org/node/4784656739



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Day 2 - Wednesday 10th - Morning

8:30	Coffee and Welcome back
09:00	**Introduction: AI based tooling used during a project development lifecycle and different market views** (*Olivier Charrier*)
09:15	**Taming the Violation Tsunami: Using AI to Tailor Static Code Analysis for Safe Linux** (*Eli Gurvitz*)
10:00	**Applying AI to safety-critical product development** (*Nicola Di Miscio*)
10:45	**Facilitated feedback and discussion and comparison of market's views of AI based tooling** (*Olivier Charrier*)
11:00	Break
11:15	**SPDX modeling for a safety-case – feedback on role and assumption** (*Nicole Pappler, Kate Stewart*)
11:45	**From Best Practices to Evidence: How Software Heritage and SWHID Support Trustworthy Open Source** (*Wendi Urribarri*)
12:15	Lunch

Day 2 - Wednesday 10th - Afternoon

13:15 **Improving kernel test coverage with stress-ng** (*Colin King*)

13:45 **Lightning Talks:**

13:45: **BASIL** (*Luigi Pellecchia*)

14:00: **Railways SIG** (Henrik Brändle)

14:15: **Eclipse S-CORE AoUs to the OS** (Philipp Ahmann)

14:30 **What overall approach to enable Linux in safety applications can we recommend?** (*Paul Albertella, Igor Stoppa, Pete Brink*)

15:15 Break

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Day 2 - Wednesday 10th - Afternoon

15:30 **What do we expect from a Safety Manual?** (*Nicole Pappler*)

16:15 **A PoC Based Framework to Evaluate Linux VMA Criticalities in Safety-Critical Systems** (*Alessandro Carminati*)

17:00 **Defining Linux Kernel Requirements and Test Specifications out of the Kernel Tree** (*Gabriele Paoloni, Kate Stewart, Chuck Wolber*)

18:00 **Day 2 wrap-up**

18:05 Day 2 ends

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Day 3 - Thursday 11th - Morning

8:30	Coffee and Welcome back
09:00	**NVIDIA Linux for Safety: A System Level View** (*Igor Stoppa*)
10:00	**Comparing ELISA Lighthouse OSS SIG Checklist with Existing OSS Best-Practice Frameworks** (*Wendi Urribarri*)
11:00	Break
11:30	**Why do we need a process at all in OSS?!** (*Philipp Ahmann*)
12:15	**Workshop wrap-up** (Kate Stewart, *Philipp Ahmann*)
12:30	Farewell

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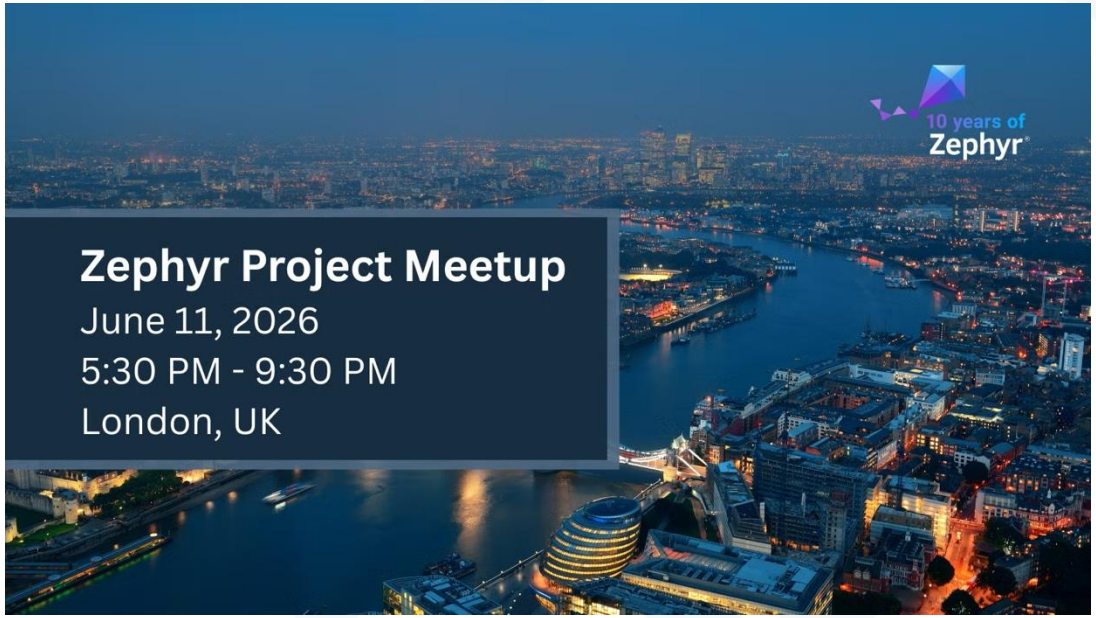
Day 3 - Thursday 11th - Evening
Fringe Event: Zepyhr Meetup

https://www.zephyrproject.org/event/zephyr-project-meetup-june-11-2026-london-uk/



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Plumbers

Project Orientation

ELISA Project

- Enabling **Safety-critical applications** with **Linux** (beyond Security)
- Increase **dependability & reliability** for whole Linux ecosystem
- **Various use cases**: Aerospace, Automotive, Medical & Industrial
- Supported by major **industrial grade Linux distributors** known for mission critical operation and various industries representatives
- Close community collaboration with **Xen, Zephyr, SPDX, Yocto & AGL** projects
- **Reproducible system** creation from specification to testing
- SW **elements**, engineering **processes**, development **tools**

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ELISA : Architecture | Processes | Features | Tools | Systems

"The mission of the project is to define and maintain a common set of elements, processes and tools that can be incorporated into Linux-based, safety-critical systems amenable to safety certification."

from the technical charter

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Photo by Mike Kiev on Unsplash

STOP - Limitations! The collaboration ...

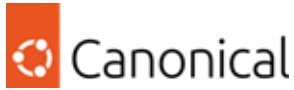
- *cannot* engineer your system to be safe.
- *cannot* ensure that you know how to apply the described process and methods.
- *cannot* create an out-of-tree Linux kernel for safety-critical applications.
  (continuous process improvement argument!)
- *cannot* relieve you from your responsibilities, legal obligations and liabilities.

But...

ELISA provides a path forward and peers to collaborate with!

Premier Members

General Members



Associate Members

Industry Support

More during the Ask me anything session

Put on your thinking hats and get to work!

Photo by Annie Spratt on Unsplash

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