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# Digital Platforms for the Cloud-Edge-IoT, Innovation through Open Source & Software

Systems Research Institute  
Polish Academy of Sciences  
(SRIPAS)

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-22**  
**Fundamentals of Software Engineering**

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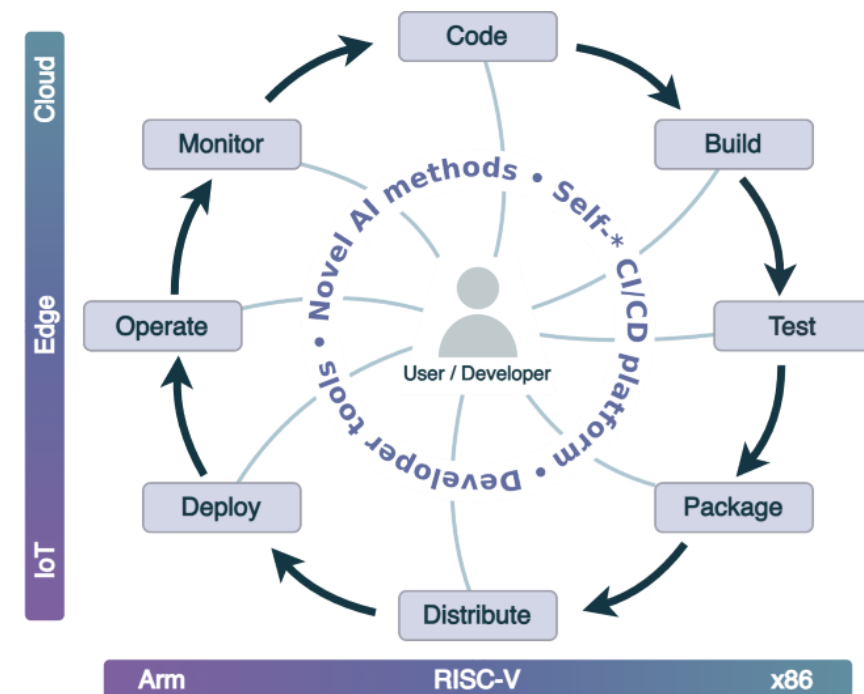
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- **Speaker:** Piotr Sowiński, researcher at SRIPAS
- **Systems Research Institute, Polish Academy of Sciences**
  - Applied and foundational research in cutting-edge AI, self-\* capabilities, Cloud-Edge-IoT systems, DevOps, and more
  - **Technical coordinator** of a H2020 project: [ASSIST-IoT](#)
  - WP leader: [aerOS](#), task leader: [INTER-IoT](#)
  - Access to a large talent pool of the IT cluster in Warsaw
  - Open-source by default
- **Our vision:** Leveraging newest technology (especially AI) for a more seamless software development experience.
- **Positioning:** Project coordinator



# Proposal for HORIZON-CL4-2024-DIGITAL-EMERGING-01-22

- **Fundamentals of Software Engineering (RIA)**
- **Our proposal:**
  - Novel AI methods (including LLMs) for all stages of the DevOps lifecycle
  - Automated, self-\* mechanisms: a DevOps framework that behaves like it's *alive*
  - Leveraging WebAssembly for cross-platform software
- **We are looking for:**
  - Pilot partners with challenging use cases
  - Research partners (especially software engineering)
  - Software companies
  - Dissemination and SDO specialists



# Impact and next steps

- **Proposal value:**
  - Breakthrough approach to AI-driven DevOps
  - Self-\* mechanisms – achieving next-level autonomy and automation
  - Tools to fully leverage new CPU architectures (RISC-V) – *compile once, run anywhere*
- **SRIPAS value proposition:**
  - We can coordinate the proposal
  - Experience in technical coordination of a Horizon project
  - Cutting-edge research experience on AI, self-\*, DevOps methodologies, cross-platform software
- **Next steps:**
  - Looking for partners: pilots, research, software companies, dissemination
  - Preparing the proposal



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