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# mac2de2

managed cloud based chip design platform for education

Edmund Humenberger

Symbiotic EDA

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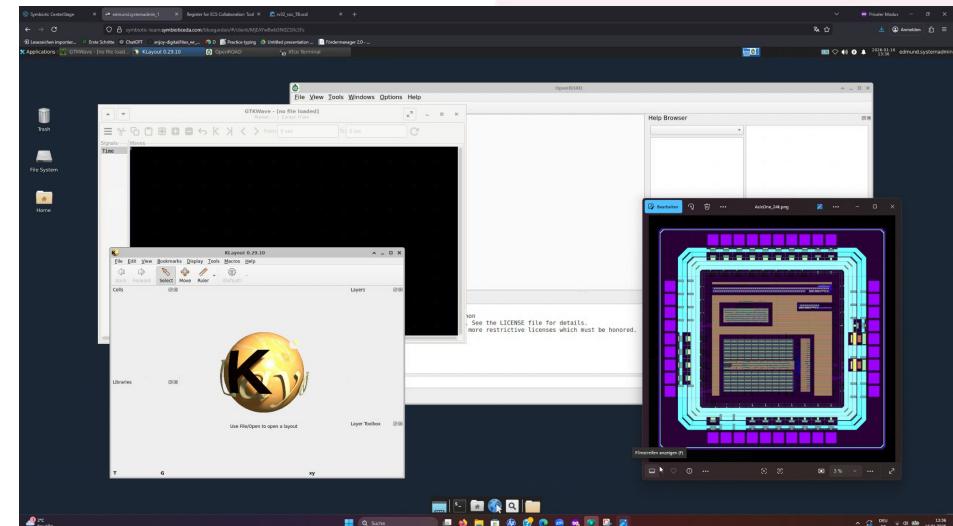
# Symbiotic EDA

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- Vienna/Austria
- Number of employees 9
  - 6 in R&D
- founded 2018
- Contact details: [edmund@symbioticeda.com](mailto:edmund@symbioticeda.com)

# Company Activities

- digital/ mixed signal **Chip Design Platform** for upskilling European Universities, Chip Competence Centers, ...
- **Continuous Integration System** for chip design teams, project with IHP Germany
- **FPGA Design Environment** for learning, open source design elements for industry solutions for signal processing, data communication



# tools used by pilots to learn to fly

beginner



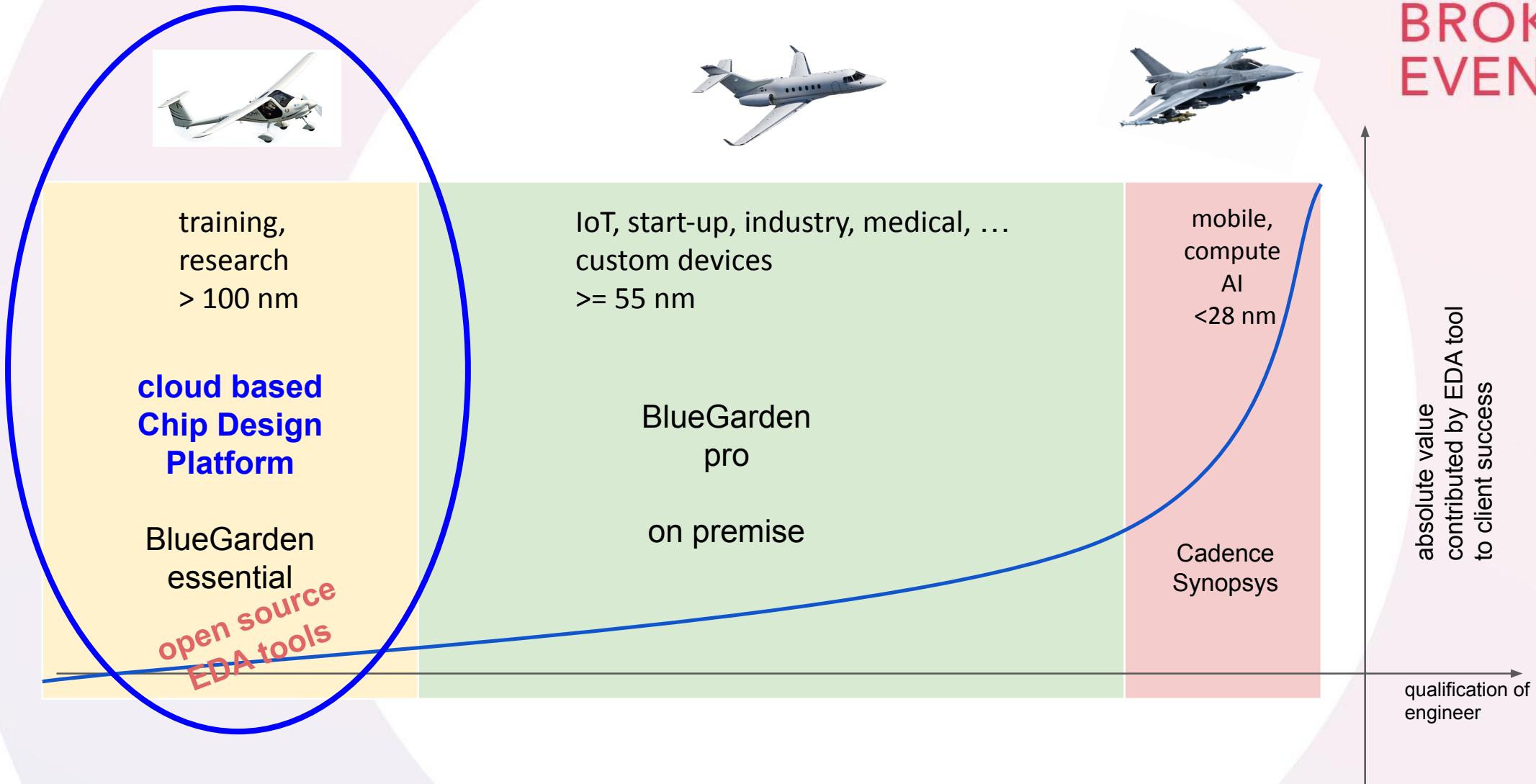
professional



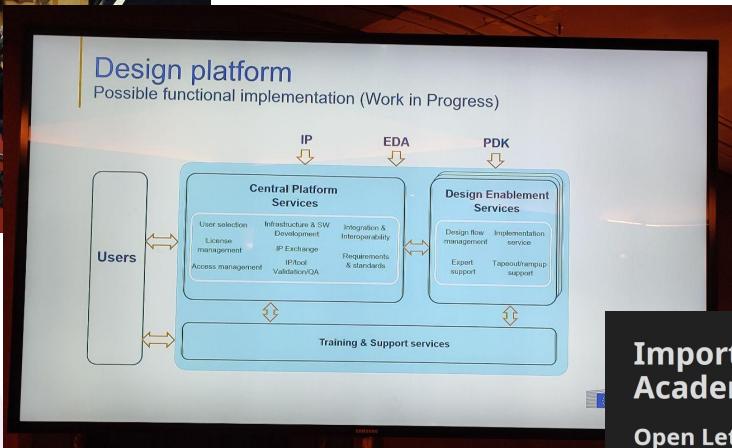
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# ECS BROKERAGE EVENT



# ECS 2023



2024

## Importance of Open-Source EDA Tools for Academia

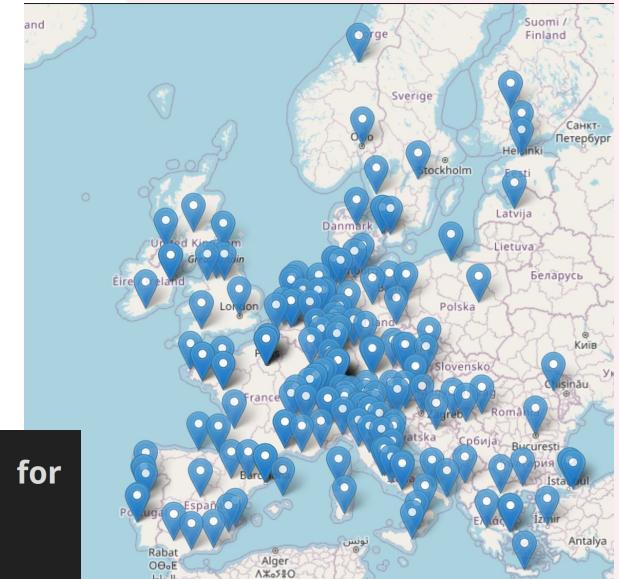
### Open Letter on European Strategic and Funding Directions

To Whom It May Concern

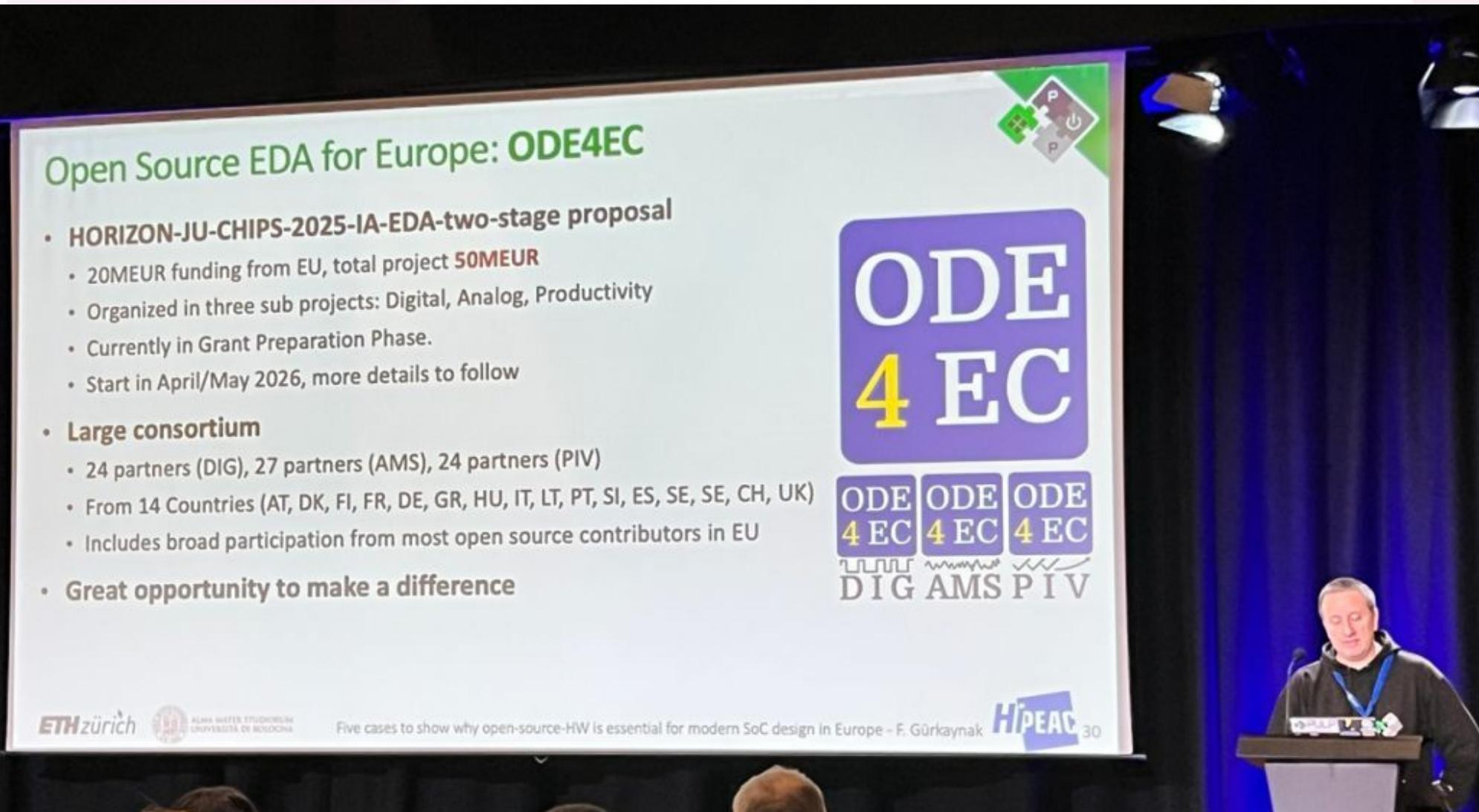
March 8, 2024

The recent semiconductor shortage and shifts in global political relations have changed the European roadmap on semiconductors and chip design significantly. A mix of incentives for new fabrication facilities for advanced technologies and the ambitious goals to (re)-build leading-edge chip design capabilities in Europe are key cornerstones of the European Chips Act. Under this impulse, various funding actions have been successfully launched, for instance in the area of the creation of IP based on the RISC-V instruction set.

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# 2026 €50 Mio. for open source EDA



Open Source EDA for Europe: **ODE4EC**

- HORIZON-JU-CHIPS-2025-IA-EDA-two-stage proposal
  - 20MEUR funding from EU, total project **50MEUR**
  - Organized in three sub projects: Digital, Analog, Productivity
  - Currently in Grant Preparation Phase.
  - Start in April/May 2026, more details to follow
- Large consortium
  - 24 partners (DIG), 27 partners (AMS), 24 partners (PIV)
  - From 14 Countries (AT, DK, FI, FR, DE, GR, HU, IT, LT, PT, SI, ES, SE, CH, UK)
  - Includes broad participation from most open source contributors in EU
- Great opportunity to make a difference

**ODE 4 EC**  
ODE 4 EC ODE 4 EC  
DIG AMS PIV

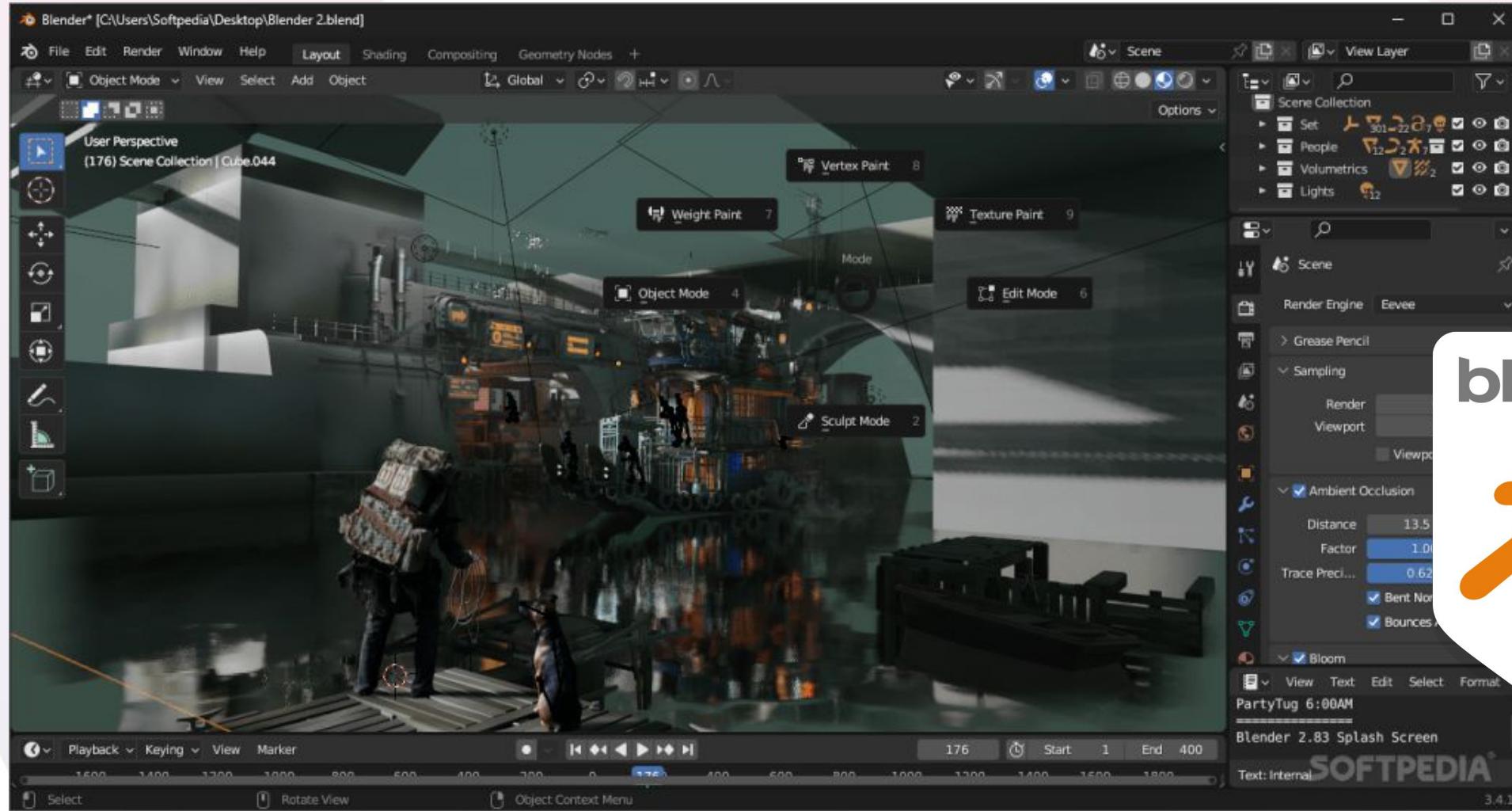
ETH zürich ALMA MATER STUDIORUM UNIVERSITÄT ZÜRICH

Five cases to show why open-source-HW is essential for modern SoC design in Europe - F. Gürkaynak

HipEAC 30

# The Vision

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blender  
SOFTPEDIA

# Oscar for *Best Animated Feature*

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# Collaboration Expectations

Scope	<i>chip design education, technology development,</i>
Project contribution	<i>extend usage of Open Source Chip Design tool chain (RF, MEMS, photonic, low power) support additional chip-fab PDKs on our platform</i>
Project impact	<i>make hands-on chip design training more accessible all over Europe</i>
Project consortium	<i>we are searching for partner(s) and consorti in chip manufacturing, chip design, chip design education, open source EDA tool development, knowledge management</i>
<i>Other information</i>	<i><a href="https://www.symbioticeda.com/chipschool">https://www.symbioticeda.com/chipschool</a></i>

# open source EDA discussion

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- teach chip design
- design or manufacture chips > 100 nm
- write open source EDA tools

today meeting 15:30 Room R2