

# LLMs: opportunity, threat, or both?

Kenneth Hoste

*Ghent University, Flemish Supercomputer Centre (VSC)*

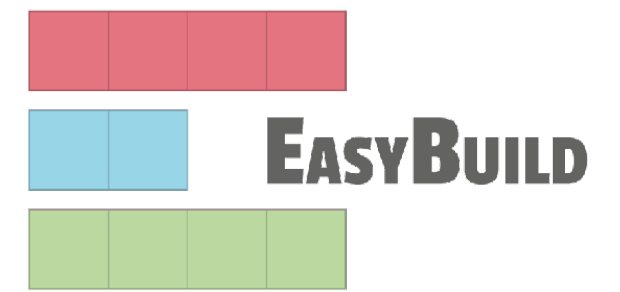
*kenneth.hoste@ugent.be*

**11th EasyBuild User Meeting**

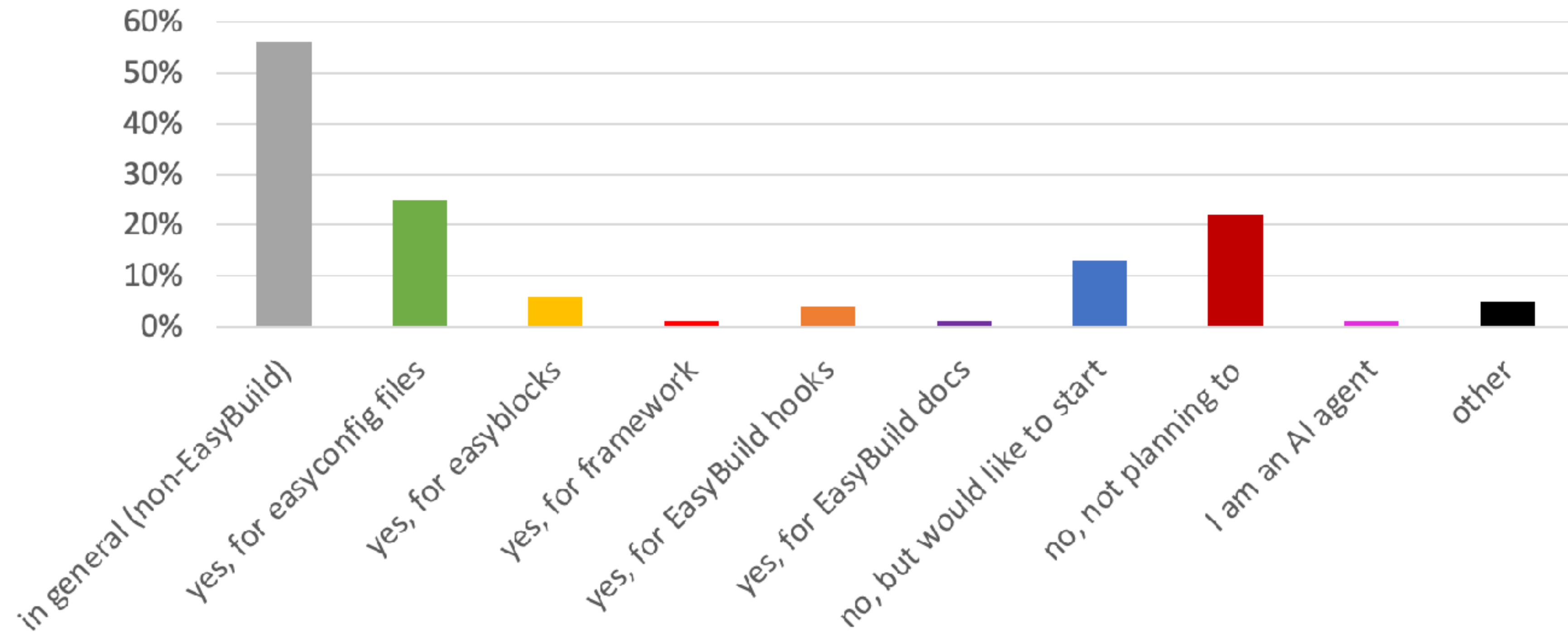
*21 April 2026 - Guimarães (Portugal)*

*<https://easybuild.io/eum26>*

# Use of AI tools



Are you using AI tooling (like LLMs)? *(new question, multiple answers possible)*



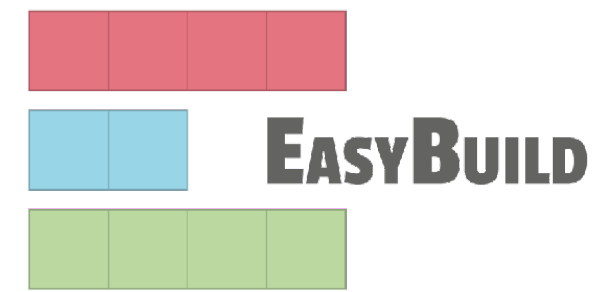
56% currently uses AI tools for non-EasyBuild tasks

**25%** already use it for **EasyBuild-related tasks**, mostly for easyconfigs

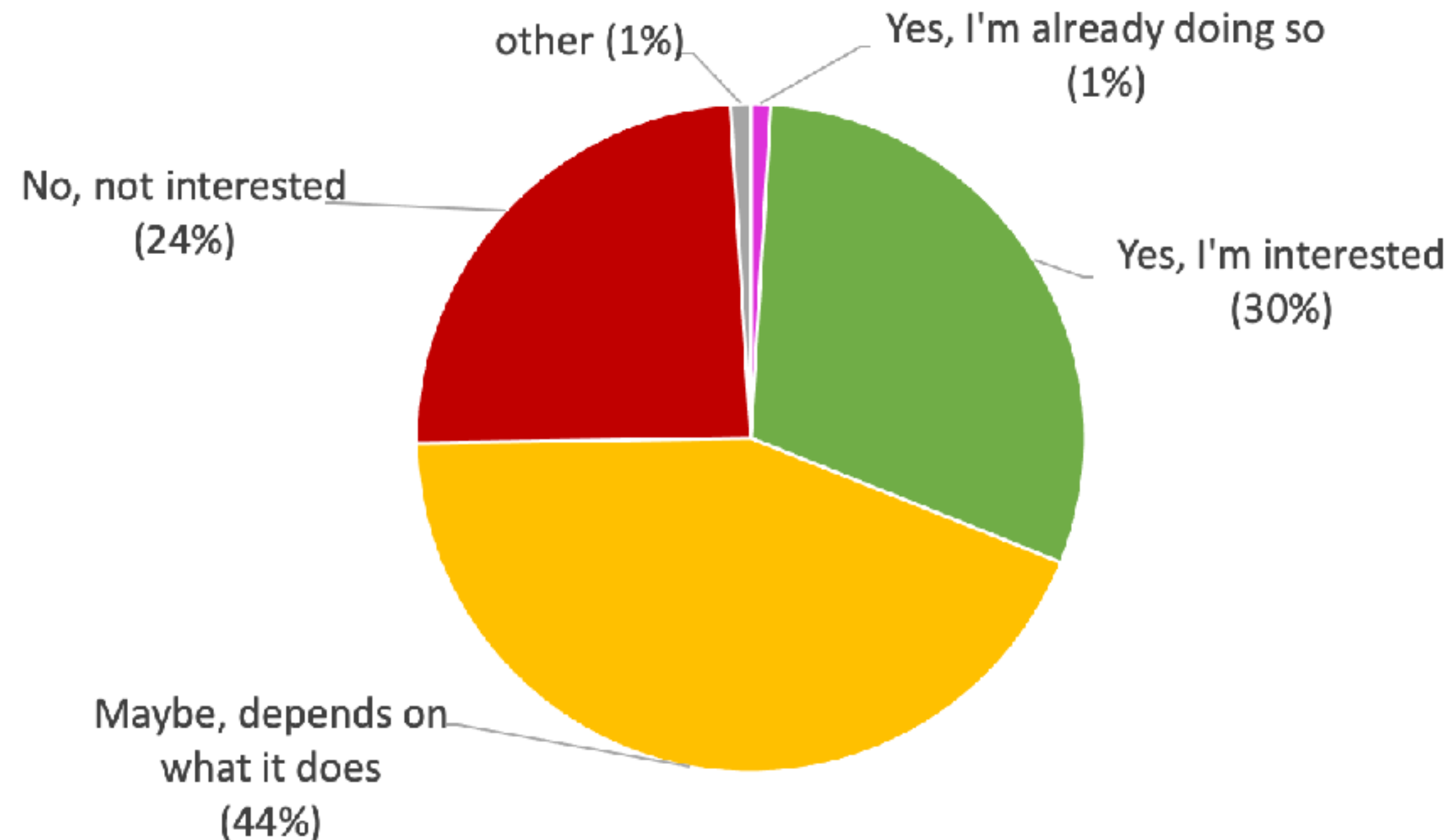
Less than 5% uses it for coding tasks related to EasyBuild (easyblocks, framework, hooks)

13% is not using AI tools yet but would like to, 22% not planning to

# LLM-based EasyBuild features



Are you interested in features that integrate LLMs with EasyBuild? *(new question)*

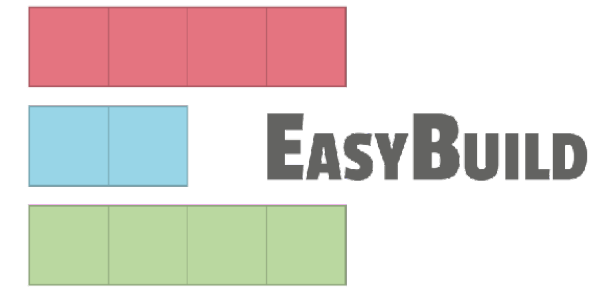


There is some interest in LLM-based features, a significant part is reluctant

<https://github.com/boegel/easybuild-llm> is a (basic) proof-of-concept

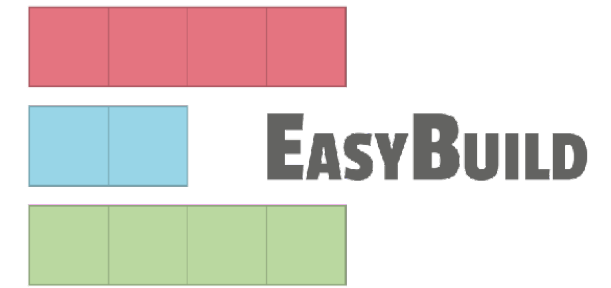
The new [EasyBuild AI policy](#) ensures that AI features will be opt-in (not forced on everyone)

# LLMs: threat or opportunity (or both)?



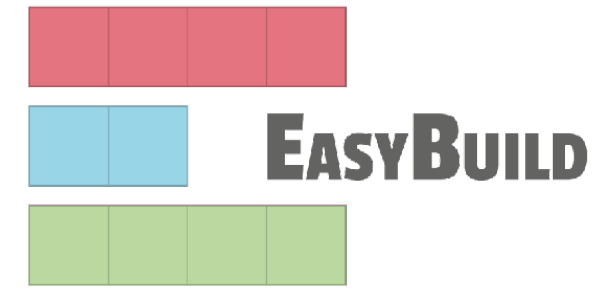
- We are starting to see real impact of LLMs on EasyBuild
  - Contributions (co-)authored or reviewed by LLMs, like GitHub Copilot, Claude Code, ...
- LLMs are (very) quickly becoming more capable (cfr. security bug reports to cURL )
- Leads to increased concern, for example about potential malicious contributions
- We will need to deal with LLMs in one way or another, whether we like it or not...
- EasyBuild AI Policy is a step in the right direction to start dealing with this, but only a *first* step...
- Group discussion on LLMs scheduled for Wed morning at EUM'26...

# Opportunities with LLMs (for EasyBuild)



- Make it easier for people to contribute
- Can help with:
  - Coding for EasyBuild: framework, easyblocks, hooks
  - Writing and adjusting easyconfig files
  - Analyzing log files
  - Decrypting error messages produced by (C++) compilers and build tools
  - Creating patch files to fix installation problems
- Local LLMs are becoming very capable with reasonable resource requirements...
- **What else?**

# Threats with LLMs (for EasyBuild)



- Ethical concerns and legal questions (copyright, etc.)
- Overloading maintainers (even more) by quickly creating lots of PRs
- Patch files created with help of LLMs may just be working around a problem rather than really fixing it
- Concern about new contributors that are LLM power users, may potentially be malicious...
- Relying on services like ChatGPT, Claude, etc. is risky: frequent changes, costs vary, may disappear completely if/when AI bubble bursts...
- **What else?**