



HPC and Big Data
Technologies for
Global Challenges

Newsletter #5 | November 2024



Wildfires Use Case

Watch the video

Meteogrid is leading the development of the Wildfires Use Case in the HiDALGO2. Experts in the field are creating a computational environment to simulate wildfire-atmosphere interactions and smoke dispersion at multiple scales, providing a better assessment of the risks and impacts of fire behaviour near and within WUI zones.

[Read more](#)

NEWS

**Coordinator of HiDALGO2 in the event: 'Becoming a zettabytes.
The impact of advanced data centres and what lies Beyond'**



[Marcin Lawenda](#) talked about “Large-Scale Environmental Simulations as a Step Towards Digital Twins: The Perspective of a European Scientific Project.” and participated in a panel discussion.

[Read more](#)

HiDALGO2 on the International Congress on Wildfire Prevention



[David Caballero](#) (MeteoGrid) had the opportunity to deliver a detailed presentation on the new reality of wildfires and the importance of incorporating fire-atmosphere interaction simulations.

[Read more](#)

HiDALGO2 at the PPAM conference



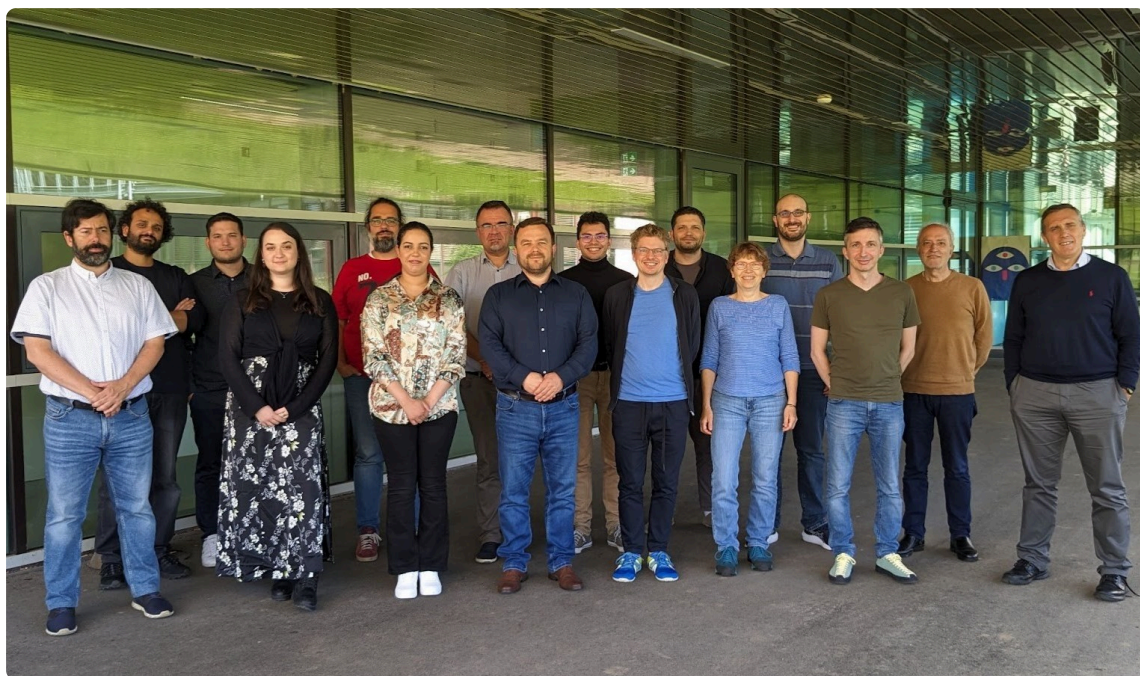
AGCA workshop at the PPAM conference was a great experience! With 20 participants and one of the presentations receiving the **conference Best Paper Award**, the HiDALGO2 team couldn't be happier!

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Hackathon by HiDALGO2, SEAVEA and CIRCE



HiDALGO2 Plenary meeting in Stuttgart



EVENTS

Science Goes Society



The symposium **Science Goes Society** held in the Municipality of Sersheim in Germany and organised by High-Performance Computing Center Stuttgart (HLRS), provided a great chance to discuss science and climate protection with public authorities.

[Read more](#)

2024 InPEX's workshop



HiDALGO2 in the spotlight of Hungarian HPC users



Zoltán Horváth and Kornyei Laszlo from Széchenyi István Egyetem (SZE) introduced HiDALGO2 at the **HPC Matching Day** by the Scientific Computing Institute Association in Budapest.

[Read more](#)

Christophe Prud'homme_(Cemosis) along with Dennis Hoppe -(HLRS), had the chance to participate in the **International Post-Exascale Project (InPEX)** workshops. InPEX is an innovative effort to promote global cooperation and co-design, crucial in the path to and beyond Exascale computing.

[Read more](#)

HiDALGO2 at #AI EnergINN 2024

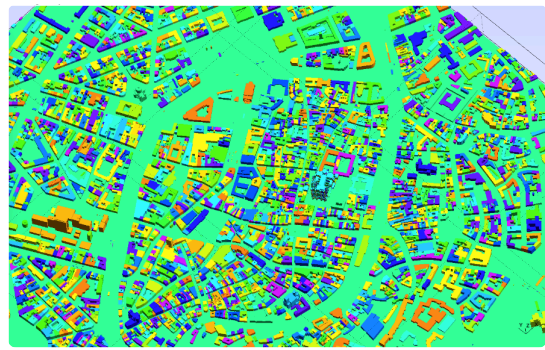


Augmented Reality (AR) and Virtual Reality (VR) in the energy industry were among the topics addressed during AI EnergINN – a conference organised by Enea Operator and our project coordinator, Poznan Supercomputing and Networking Center (PSNC).

[Read more](#)

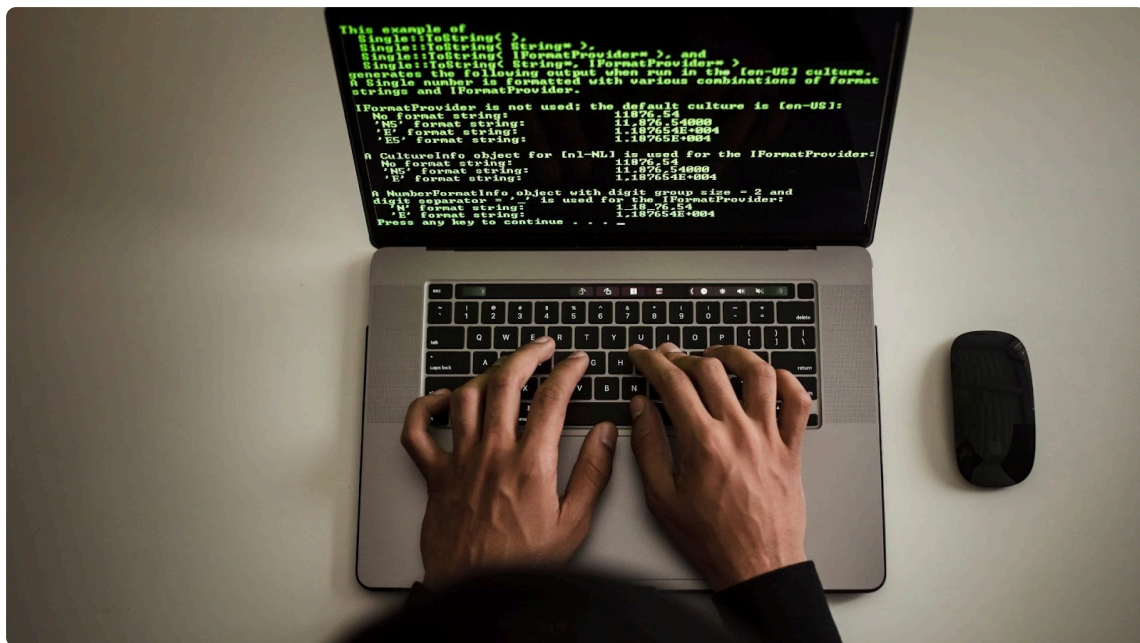


District with Union and Roof

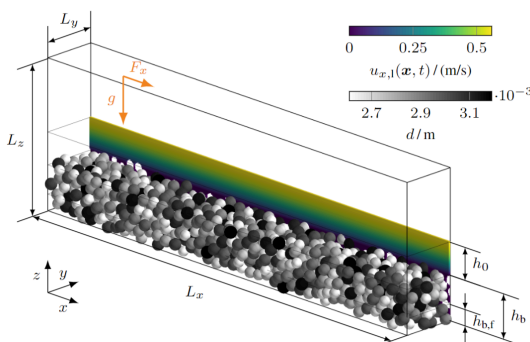


Urban building modelling: enhancements in building geometry reconstruction

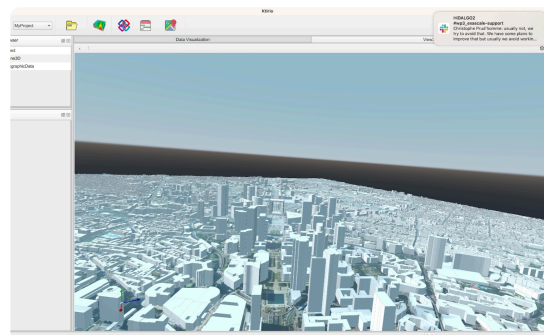
Generating Vegetation in Urban Areas for Energy Modeling



Diving into GPU Programming



Particle-resolved simulation of antidunes in free-surface flows



HiDALGO2's Urban Building pilot: Updates and Roadmap

What's coming next in HiDALGO2?

By participating in important industry events, the HiDALGO2 partners actively promote the project's research and advancement while keeping up with the most recent developments in the industry. They are excited to see you in person at future events to discuss further developing a EuroHPC ecosystem. Come hang with them on the following dates:

🌱 **5th International Conference on Environmental Science and Applications (ICESA 2024), Lisbon, Portugal, 18 to 20 November 20, 2024**

🌱 **International Conference for High-Performance Supercomputing (SC24), Atlanta, US, 17 to 22 November 2024.** Find our partner, HLRS High Performance Computing Center Stuttgart.

Moreover, important collaborations with other Centres of Excellence and National Competence Centres are underway with an exchange of tools, studies, dissemination material, and joined webinars. Stay tuned!

PARTNERS



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Co-funded by
the European Union



EuroHPC
Joint Undertaking

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