

# ENFIELD HORIZON NEWSLETTER

## THE FUTURE OF AI: INSIGHTS & DEVELOPMENTS

ISSUE NO 1 | MAY 2025



### FUNDING AI RESEARCHERS

€1.1M in grant available for researchers to contribute to AI advancements! Learn how to apply. (Page 2)

### THIRD GENERAL ASSEMBLY IN BUDAPEST

The ENFIELD Horizon project successfully held its **3rd General Assembly** on February 12-13, 2025, in Budapest, hosted by the Budapest University of Technology and Economics. Over two days, consortium members engaged in insightful discussions, reviewed project progress, and aligned strategies for the next phase.

### SUSTAINABLE ENERGY & AI WORKSHOP

Experts met in Slovenia to discuss AI's impact on energy efficiency, forecasting, and optimization. (Page 3)

### WELCOME MESSAGE!

We are pleased to present the very first comprehensive edition of the **ENFIELD Newsletter!** In this issue, we highlight key developments, including upcoming events, valuable funding opportunities, and ways you can get involved in the world of AI research. Stay connected, stay informed, and let's collaboratively shape the future together.

The ENFIELD community is growing, and with it, our shared commitment to pushing the boundaries of Adaptive, Green, Human-Centric, and Trustworthy AI across key sectors like healthcare, energy, manufacturing, and space. Together, we're shaping an AI-driven future that prioritizes ethical innovation, sustainability, equitable access, and societal impact.

### HACKATHON AND SUMMER SCHOOL 2025

Ready for an exciting AI challenge? Join us in Tallinn, where innovators will develop cutting-edge AI solutions. (Page 3 & 4)

Follow us on LinkedIn @horizon-enfield and on X @HorizonEnfield for updates.

Happy reading—The ENFIELD Team  
Share your ideas with us: [enfield@tmit.bme.hu](mailto:enfield@tmit.bme.hu)

## ENFIELD LAUNCHES 2ND INNOVATION SCHEME OPEN CALL WITH €1.1 MILLION GRANT

The ENFIELD Horizon project has launched its 2nd Innovation Scheme Open Call, which supports 18 small scale projects to answer specific technical challenges.

We attract R&D intensive establishments to conduct applied research activities within energy, healthcare, manufacturing, and space sectors.

<b>GREEN AI (SINTEF)</b>						
<b>ADAPTIVE AI (IMT)</b>						
<b>HUMAN-CENTRIC AI (TUE)</b>						
<b>TRUSTWORTHY AI (NTNU)</b>						
<b>ENERGY (INESC)</b> <b>HEALTHCARE (ICCS)</b> <b>MANUFACTURING (POLIMI)</b> <b>SPACE (ECOE)</b>						
<table border="0"> <tr> <th>Available Resources</th> <th>Strategic Initiatives</th> <th>Innovation Paradigm</th> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Research labs</li> <li>Data</li> <li>Infrastructure</li> <li>DIHIWARE Platform</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>Policy initiatives</li> <li>Networks and alliances</li> <li>National and international R&amp;I projects</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>DIHs and Incubators</li> <li>Industry collaborations in ENFIELD and beyond</li> <li>Open Cascading Calls: Innovation Scheme</li> </ul> </td> </tr> </table>	Available Resources	Strategic Initiatives	Innovation Paradigm	<ul style="list-style-type: none"> <li>Research labs</li> <li>Data</li> <li>Infrastructure</li> <li>DIHIWARE Platform</li> </ul>	<ul style="list-style-type: none"> <li>Policy initiatives</li> <li>Networks and alliances</li> <li>National and international R&amp;I projects</li> </ul>	<ul style="list-style-type: none"> <li>DIHs and Incubators</li> <li>Industry collaborations in ENFIELD and beyond</li> <li>Open Cascading Calls: Innovation Scheme</li> </ul>
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<p style="text-align: center;">Common Research Vision and Roadmap                  Safety and Security Risks Assessment Framework Regulations                  Standards and certification                  Collaboration, networking and exchange programmes</p>						

“We aim to strengthen European research ties by supporting collaboration across borders and disciplines, fostering innovation that reflects the values and ambitions of the European AI landscape.” ENFIELD Team

A dedicated webinar held on May 13, 2025, offered valuable insights into the 2nd Innovation Scheme Open Call, covering key topics such as eligibility criteria, application procedures, and thematic research areas. The session also provided guidance on preparing proposals and responding to specific ENFIELD challenges. The recording is available

<https://youtu.be/Jsdilk0Wsog>

## FUNDING & BENEFITS:

**01**

Up to €60,000 in financial support (for a 6-month project)

**02**

Proposals should be submitted until 17 June 2025 @17:00 CET

**03**

Collaborating with SMEs, Start-ups, Research institutes, and large companies

**04**

Submit a Technical Proposal Annex and a simplified costs estimation



## AI FOR ENERGY WORKSHOP: GREEN AI IN FOCUS

On March 11–12, ENFIELD hosted a focused workshop on **AI for Sustainable Energy Systems and Green AI** at the scenic Brdo Estate in Brdo pri Kranju, Slovenia. Organized by **Iskraemeco** and **Know-Center**, the event brought together top researchers, industry professionals, and policymakers to explore AI's role in transforming energy efficiency, sustainability, and innovation.

A **Book of Abstracts** featuring the contributions presented will be published under a Creative Commons license.



Beyond technical insights, the workshop offered rich discussions on how AI can be both a solution for and a subject of sustainability, emphasizing the importance of carbon-aware AI development. Attendees examined a wide range of topics, from AI-driven energy forecasting and predictive maintenance to resource-efficient learning models and green generative AI.

For more highlights, speaker details, and workshop outcomes, visit:

[https://www.enfield-project.eu/ws\\_ai\\_sustainable\\_and\\_green](https://www.enfield-project.eu/ws_ai_sustainable_and_green)

## ENFIELD HACKATHON 2025: AI FOR ENERGY EFFICIENCY

ENFIELD is excited to announce the **2025 Hackathon**, bringing together AI innovators to tackle real-world challenges in energy efficiency. Taking place on May 29–30, 2025, at Tallinn University of Technology (TALTECH) in Estonia, this event invites students and young researchers to develop AI-powered solutions using real building energy datasets.

Teams of 2–5 members will compete in three stages, from initial development to live presentations. The goal? Predicting electricity usage for a new building based on historical and environmental data. This is more than a competition, it's a hands-on opportunity to innovate, collaborate, and contribute to AI-driven sustainability.

The challenge focuses on developing solutions that accurately forecast energy demand, are computationally efficient, and stand out in clarity and presentation. Participants will benefit from mentorship, peer exchange, and visibility among top AI experts and institutions.

The full details: <https://cis.ttu.ee/2025/03/01/enfield-hackathon-2025-ai-for-energy-efficiency>

# ENFIELD AI SUMMER SCHOOL 2025 – BUDAPEST, HUNGARY

We're excited to announce that the **ENFIELD AI Summer School 2025** will be hosted this summer in Budapest! Over five immersive days, students, researchers, and industry professionals from across Europe and beyond will explore the ENFIELD AI pillars and verticals.

<https://sites.google.com/view/enfieldsummer2025>



**JULY 28 – AUGUST 1**

- ✓ Lectures on AI fundamentals & advancements
- ✓ Interactive workshops & problem-solving
- ✓ Wrap-up session & certificate ceremony

**BUDAPEST UNIVERSITY OF TECHNOLOGY & ECONOMICS**

## KEY AI FOCUS AREAS:

### GREEN AI

Optimizes energy use with model quantization & neural network compression

### ADAPTIVE AI

Improves real-time decision-making & system resilience. Ensures robustness in critical applications

### HEALTHCARE AI

Enhances diagnostics, remote monitoring & treatment accuracy with intelligent systems

### SPACE AI

Optimize satellite operations & Earth observation. Strengthens space system cybersecurity

### HUMAN-CENTRIC AI

Transparent and accountable AI. Prioritizes interpretability & fairness in AI decisions.

### TRUSTWORTHY AI

Implements privacy-preserving techniques and Ensures compliance, fairness, and transparency

### ENERGY AI

Smart grids and efficient power management. Enhances energy generation, distribution, and consumption

### MANUFACTURING AI

Powers smart factories & predictive maintenance. Reduces downtime with AI-driven failure detection

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The ENFIELD Project is co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or DG CNECT. Neither the European Union nor the granting authority can be held responsible for them.

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UK Research and Innovation

