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THE FUTURE OF AI
HORIZON ENFIELD NEWSLETTER

ENFIELD IN PORTO
FINAL GENERAL ASSEMBLY

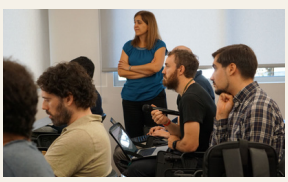
15–16 October 2026 | Porto, Portugal

The ENFIELD consortium held its Final General Assembly at the headquarters of INESC TEC in Porto, Portugal, with partners joining both in person and online.

Coordinated by NTNU, the two-day meeting reviewed the project's work packages, from research activities to industrial applications and demonstrators, and discussed the remaining priorities.

Partners reaffirmed their commitment to Green, Adaptive, Human-Centric and Trustworthy AI, and to maximising the impact of ENFIELD's results.







Read the event article and photos →

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Thank you to INESC TEC for hosting, NTNU for coordinating, INOVA+ for organising, and all partners for their dedication.

TRUSTWORTHY AI MEETS SECURITY ENFIELD AT ESORICS 2026



14–18 September 2026 | Rome, Italy

ENFIELD research reached one of Europe's leading computer security forums. The 31st European Symposium on Research in Computer Security (ESORICS 2026) took place at Sapienza University of Rome, combining its main programme with specialised workshops on cybersecurity, privacy and AI.

Two ENFIELD papers were presented at co-located workshops: one on fairer, privacy-aware federated learning, and one on keeping IoT sensor data reliable when sensors fail or are compromised. Both grew out of collaborations built through ENFIELD's research exchanges.

TWO ENFIELD PAPERS AT ESORICS WORKSHOPS

FAIRER AI MODELS

FedXParity at MIST 2026

Aida Akbarzadeh (NTNU) presented FedXParity, a framework that brings fairness, privacy and explainability together in federated learning.

It checks not only that outcomes are fair, but that models reason consistently across groups. Tested on employment and simulated power-grid data, it cut the Equalized Odds gap by up to 75% while reducing privacy leakage.

Authors: Reza Shahbazian, Georgios Spathoulas and Aida Akbarzadeh. The work grew out of a TES research exchange.



KEEPING IoT DATA RELIABLE

CPS4CIP 2026 Workshop

Ismail Ari presented a testbed of containerised IoT nodes that injects faults on purpose to test Byzantine Fault Tolerance. Comparing five statistical methods, the study found that robust estimators stayed effective with up to 50% of sensors compromised, under the conditions tested. The work comes from the Norwegian Computing Center and Özyeğin University collaboration.

Read both papers in the ENFIELD news section: https://enfield-project.eu/category/latest-news-and-updates

RESEARCH MOBILITY PARTNERSHIPS THAT LAST

LOCO Study Presented at IEEE ASYU 2026

ENFIELD's Third-party Exchange Scheme (TES) connects researchers with leading European centres, and those links keep producing results.

Ismail Ari of Özyeğin University, selected through the TES Open Call, continues to work with the Norwegian Computing Center in the Adaptive AI pillar. At IEEE ASYU 2026 in Istanbul (9–11 September), he presented LOCO, a study of how Kubernetes-based microservices cope with heavy load and disruption.



Read it in the ENFIELD news section:
https://enfield-project.eu/category/latest-news-and-updates

The main finding: there is no one-size-fits-all route to resilience. Infrastructure has to be chosen to match each system's performance, scalability and reliability needs. Authors: O. S. Yılmaz, A. Baranta, I. Ari, S. Pirbhulal and H. Abie.

ENFIELD IN THE ENERGY DOMAIN: 16 USE CASES

SAFER POWER LINES
EDP CNET applies explainable machine learning to LiDAR 3D scans to find vegetation near overhead lines.

TRUSTED METER DATA
EDP CNET and ISKRA build an AI framework that checks meter data for corruption and flags fraud or poisoning.

SMARTER EV CHARGING
INESC TEC and ISKRA optimise EV charging so batteries can store grid energy when renewable supply is high.

Explore all ENFIELD Energy use cases: https://enfield-project.eu/industrial-domains/energy

AI MAPS RENEWABLE ENERGY CURTAILMENT RISK FOUR YEARS AHEAD



Curtailment means reducing renewable output to keep the grid stable. A tool built through an ENFIELD Open Call now forecasts it four years ahead.

Developed by Nabi Taheri (University of Pisa) with EDP CNET, on site and remotely, the application helps utilities and renewable operators de-risk investment: choosing grid nodes with lower curtailment risk, or planning measures to protect returns where the risk is accepted. One journal paper is published in IEEE Access; a second is under review.

Smarter siting for renewable energy investment

KNOWLEDGE SHARING ACROSS EUROPE

Recent ENFIELD Webinars - Autumn 2026

ENFIELD hosted the following webinars during autumn 2026:

28 Oct – Human Perception of Trust in AI
5 Nov – Safe by Design, hosted by POLITEHNICA Bucharest, with speakers from DFKI, Pavia, Rule4, CISPA and Red Hat
11 Nov – ASTRID, open-source tools that check industrial datasets for quality, security, reliability and fairness, with Jorge Martinez-Gil (SCCH)
12 Nov – AI Solutions at Boeing Aerospace Spain, on airspace operational efficiency, with José Ignacio Vidal Franco







Details: https://enfield-project.eu/events

ENFIELD'S LEGACY:

POLICY, TRUST AND WHAT COMES NEXT

From research results to policy recommendations for Europe

THE ENFIELD WHITE PAPER

Trustworthy and Green AI for Europe

The ENFIELD White Paper sets out policy recommendations from more than three years of research in Green, Trustworthy, Human-Centric and Adaptive AI across Energy, Manufacturing, Healthcare and Space, aligned with the EU AI Act, the European Green Deal and the Data Spaces Strategy.



Its goal is auditable, certifiable and interoperable AI that also boosts innovation, competitiveness and market readiness for industry.

In a new video, Alberto Casanova (Gruppo Maggioli) explains its vision: faster uptake of green, trustworthy, human-centric and adaptive AI, and closer research–policy dialogue.

Watch the full video: https://youtu.be/vRTuwqLFRBs

STRAI 2026 WORKSHOP AT ARES

Secure, Trustworthy and Robust AI



The workshop grew out of ENFIELD and met at ARES 2026 in Linköping, Sweden, on 24 August.

Workshop chair Sebastian Heil (TU Chemnitz) explored managing AI biases like security vulnerabilities, using a CVE-inspired approach, after Steven Furnell (Nottingham) spoke on misplaced trust in AI.

Nottingham also gave the keynote "Aware or Ignorant – In AI We Trust?" at CERC in Galway, Ireland, on 16 October.

FROM AI POLICY TO IMPLEMENTATION

Q&A: Building Trustworthy AI in Europe

On 27 October 2026, ENFIELD joined the fifth and final session of the AI NoEs Horizons and Beyond Q&A series, alongside representatives from across the European AI ecosystem.

Astik Samal (Maggioli) presented ENFIELD's policy outputs, with practical insights on translating each regulatory requirement into measurable assessments.

The closing session explored how Europe can turn its AI ambitions into practical, trustworthy solutions. Read more at daiedge.eu.

THE ENFIELD PORTAL

Where Europe's AI researchers and industry connect, share and learn

ENFIELD built the Portal as a digital network connecting researchers and industries in AI: one place where experts from industry and academia capture and share knowledge and experience.

Members get three spaces: Networking (community, experts and a discussion forum), a Knowledge Hub (documents, publications, a wiki and vertical AI products) and Foster Excellence (educational material, research labs, AI datasets and use cases).

Join the community at enfield-portal.eu