

Science Communication Plan of the COST Action KGELL CA24121

VERSIONS AND HISTORY OF CHANGES

Version	Date of adoption by MC	Notes (e.g. changes from previous versions)	Lead author(s)*
1.0	20/04/2026	First version	Davide Buscaldi

** The Science Communication plan is developed, updated and its implementation monitored under the overall supervision of the Science Communication Coordinator, and in close collaboration with other relevant contributors.*

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1. SUMMARY

KGELL (CA24121) - Knowledge Graphs in the Era of Large Language Models - is a COST Action running from October 2025 to October 2029, bringing together researchers from over 30 European countries and beyond to advance the integration of Knowledge Graphs (KGs) and Large Language Models (LLMs). The Action addresses critical limitations of LLMs (hallucinations, domain gaps, biases, lack of interpretability) by combining them with the structured, verifiable knowledge encoded in KGs, while simultaneously using LLMs to assist in constructing and maintaining KGs.

The Action's Science Communication strategy aims to:

- (1) raise broad awareness of the societal relevance of trustworthy, interpretable AI and the role of KGs in achieving trustworthiness and interpretability for AI;
- (2) disseminate scientific results openly and rapidly to the research community;
- (3) valorise outputs by engaging industry, policymakers, and civil society.

The six Working Groups (WG1: Augmenting LLMs with KGs; WG2: Domain-specific tasks; WG3: KG Construction; WG4: Multilinguality; WG5: Bias and Ethics; WG6: Evaluation and Validation) will each contribute to communication, dissemination, and valorisation activities aligned with their scope.

The Science Communication Coordinator (Davide Buscaldi, representing France) is responsible for overseeing the development, implementation, and annual review of this plan, in close collaboration with the Action Chair, the Vice-Chair, and the WG Leaders.

2. GENERAL AIM AND TARGET AUDIENCES

The overarching aim of the KGELL Science Communication Plan is to ensure that the Action's scientific advances, concerning the integration of Knowledge Graphs and Large Language Models, reach and benefit all relevant stakeholders across academia, industry, and society. The specific objectives are: (1) to inform a broad audience about the relevance and potential impact of combining KGs and LLMs for trustworthy, transparent AI; (2) to share scientific findings with the research community through open-access channels and peer-reviewed publications; and (3) to engage industry, policymakers, and civil society with actionable results and recommendations, particularly around AI reliability, bias, multilingualism, and domain-specific applications.

The primary target audiences are: (a) the scientific community: AI and NLP researchers, knowledge representation specialists, ontologists, and computational linguists who may build upon KGELL results; (b) industry and SMEs : technology companies, data-driven businesses, and AI solution providers who can benefit from more reliable and interpretable AI systems; (c) policymakers : EU institutions and national bodies shaping AI regulation, data governance, and open science policy; (d) the general public and civil society : citizens, journalists, and educators seeking accessible information about AI, its risks, and the role of knowledge-grounded systems in mitigating them; and (e) early-career researchers and students who represent the next generation of specialists in this field.

The MC will identify the relevant stakeholders (technology companies, SMEs, EU policy bodies, national AI agencies, and NGOs) during the first year of the action and include them in future versions of the communication plan.

Engagement strategies will vary by audience. Researchers will be reached primarily through scientific conferences (e.g. ISWC, ESWC, ACL, EMNLP, ECAI), open-access publications, preprints, and the Action website (<https://kgell-cost.eu>).

Industry will be engaged via dedicated workshops, policy briefs, and presence at technology events. Policymakers will be targeted through Science4Policy activities and the COST network (COST workshop on 4-5 June 2026). The general public will be engaged through social media (LinkedIn), webinars, interview-style exchanges posted on YouTube, and public science events. Early-career researchers will benefit from training schools and Short-Term Scientific Missions (STSMs).

KPIs will be made of website monthly visitors, social media follower growth, number of publications, workshop/training school attendance, industry and policy engagements, and media mentions.

3. PLAN FOR THE COMMUNICATION OF ACTION RESULTS

The key messages of KGELL for broad audiences are: (1) Knowledge Graphs can help ground AI systems in verified facts to avoid hallucination and biases; (2) combining KGs with LLMs enables AI that is more trustworthy, interpretable, and fair; (3) multilingual KG-LLM integration supports linguistic diversity and inclusion in the digital age; and (4) this European research network is building open, reusable knowledge infrastructure for the benefit of science and society.

Communication tools and channels include: (a) Action website (<https://kgell-cost.eu>), to be launched as soon as possible after the first MC meeting, serving as the central hub for news, publications, events, and project results; (b) social media: a LinkedIn page to share news, announcements, and accessible summaries; a YouTube page to share webinars and interviews with key researchers; (c) newsletter : a bi-annual (twice per year) mailing to the Action's network and registered followers (the registered followers should access via the website); (d) press releases issued at key milestones (major publications, training schools, etc.); (e) infographics and explainer videos to be produced by the Science Communication team in cooperation with the workgroups to explain core concepts (what is a KG? what is hallucination? How KGs help addressing the hallucinations?) to the general public in accessible language; (f) a visual identity including Action logo and colour palette that will be available on the official webpage of the Action.

The website governance will be assured initially by the Science Communication Coordinator. A more structured governance model will be established as the Action progresses.

4. PLAN FOR THE DISSEMINATION OF ACTION RESULTS

KGELL is committed to Open Science and will ensure that all Action outputs are publicly and freely accessible. All publications resulting from COST-funded activities will be deposited in open-access repositories (e.g. arXiv, HAL, or other institutional repositories) and, where possible, published in open-access journals. The Action adheres to the FAIR principles (Findable, Accessible, Interoperable, Reusable): datasets, benchmarks, ontologies, and software produced by the Action will be published with persistent identifiers (DOIs), standardised metadata, and open licences (e.g. Creative Commons CC-BY or Apache 2.0). Intellectual Property Rights will be managed in accordance with COST rules and the Action's MoU; no commercialisation of outputs is anticipated without prior MC agreement.

Target scientific venues include: international conferences such as ISWC (International Semantic Web Conference), ESWC (Extended Semantic Web Conference), ACL, EMNLP, NAACL, ECAI, and IJCAI for AI and NLP contributions; as well as dedicated workshops at these venues co-organised by Action members. Target journals include the Semantic Web Journal, Journal of Web Semantics, IEEE Transactions on Knowledge and Data Engineering, and ACM Transactions on Knowledge Discovery from Data. The Action will leverage the COST Open Research Europe (ORE) platform for open publications where appropriate.

Annual Training Schools will also serve as dissemination events, producing publicly available course materials and recordings. All dissemination products will be linked to the corresponding e-COST deliverables.

5. PLAN FOR THE VALORISATION OF ACTION RESULTS

KGELL's results are expected to generate significant impact beyond the academic sphere. The Action will actively pursue valorisation through three main channels: (1) industry engagement by organising industry-facing workshops and side events at major AI conferences, targeting technology companies developing or deploying LLM-based products (e.g. in healthcare, legal, financial, and public-sector domains) who need more reliable and transparent AI systems; (2) policy engagement by producing evidence-based policy briefs and recommendations, particularly on AI trustworthiness, hallucination mitigation, and multilingual AI access, to be shared with EU institutions (European Commission, European Parliament) and via the COST Science4Policy network; and (3) standardisation and norms by contributing KGELL outputs (ontologies, evaluation frameworks, benchmarks) to relevant standardisation bodies and open infrastructure initiatives such as the European Open Science Cloud (EOSC).

Key potential end users include biomedical and clinical informatics communities (WG2 domain-specific tasks); multilingual public administrations and translation services (WG4); AI ethics and compliance officers in large organisations (WG5); and evaluation and quality-assurance teams in AI product development (WG6). The Action will map its expected outputs such as surveys, benchmarks, datasets, ontologies, evaluation frameworks, and policy briefs, against these end-user needs to ensure relevance and uptake. KGELL will also seek to identify synergies with related EU-funded projects and initiatives (e.g. Horizon Europe projects on trustworthy AI, CLARIN, DARIAH) and will aim to be listed on the CORDIS and Horizon Results platforms upon completion of major deliverables.

Regarding data protection and IPR: KGELL does not anticipate handling personal data in its core research activities. All datasets produced will be either synthetic or derived from publicly available sources, processed in accordance with GDPR where applicable. Software and tools developed by the Action will be released under open-source licences (preferably Apache 2.0 or MIT). Any potential commercialisation pathways identified during the Action will be discussed and agreed upon by the Management Committee, ensuring compliance with COST rules on intellectual property.