

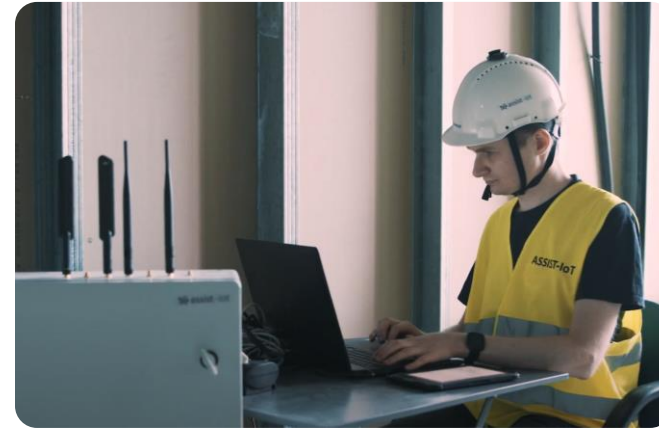
Research and innovation partnership offer

Key facts

- **NeverBlink** – deep tech IT startup / SME from Poland
- **Main expertise:**
 - Scalable knowledge graph (KG) systems
 - Robust & responsible generative AI (using KGs)
 - Real-time analytics
 - Streaming data integration
- **Team experienced in R&D:**
 - Horizon projects (including proposal writing and coordination teams)
 - Academic research at Polish Academy of Sciences and Warsaw University of Technology

Team's R&D experience

- **Best example: tech leadership in ASSIST-IoT H2020 project**
 - Our team led the technical tasks in the Smart Safety of Workers pilot
 - Bringing cutting-edge Edge-IoT tech from **TRL 3 to 6/7**
 - Integration of 20+ software and hardware modules
 - Deployment on a live construction site
 - **Awarded as the Best Professional Research by buildingSMART International (2024)**



[See the video](#)

Team's R&D excellence

- **3 experienced AI researchers in the core team;** specializations:
 - Scalable KGs, streaming (Piotr)
 - GraphRAGs, distributed AI (Karolina)
 - Agentic AI, data science (Anastasiya)
- **Open source software and open science**
 - Highlight: the Jelly project <https://w3id.org/jelly>
 - Contributions to Apache Jena and other high-profile projects
- **EU research collaborations with:**
TU Berlin, TU Wien, Fraunhofer HHI, UPV, Warsaw University of Technology, Polish Academy of Sciences, and more

R&D partnership offer (1/2)

- **Open to collaborations on:**

- Applying responsible AI in novel use cases
- Implementing cutting-edge AI methods: neurosymbolic, frugal, active inference, agents...
- Real-time and streaming systems
- Data integration and data science

- **Preferred role:** technical partner

- We can support the consortium in building excellent, responsible AI and data processing systems
 - Key advantage: expertise in knowledge graphs, giving AI robustness & explainability
- Can also do pilot implementation (jointly with end user)

R&D partnership offer (2/2)

- Extensive experience in proposal writing
→ we can make strong contributions to proposals
- Can bring additional partners, if needed:
 - End users / pilots (construction, automotive, robotics, OSH...)
 - Academia (IT)
- Open science and open source software track record
- Gender-balanced team, including leadership & technical staff
- EU deep-tech with large potential to make measurable impact (economic, social, environmental)

Let's get in touch



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Appendix: NeverBlink's technology

Why knowledge graphs (KGs)?



Integrate many data sources
all information in one graph



Explain your system's decisions
all reasoning steps are traceable



Harness and scale LLMs
KG = brain, LLM = mouth & ears



Make sense of your data
with powerful logical reasoning



Evolve domain knowledge
no re-training required, just add it

NeverBlink's technological focus

- Scale KGs to huge problems
→ *breakthrough KG processing algorithms*
- Reason in real-time on quickly changing data
→ *dynamic / streaming knowledge graph technology*
- Integrate enterprise data sources
→ *ingest pipelines for (almost) any data format*
- Enable hybrid reasoning: KGs + LLMs/ML
→ *GraphRAG and other neurosymbolic techniques*

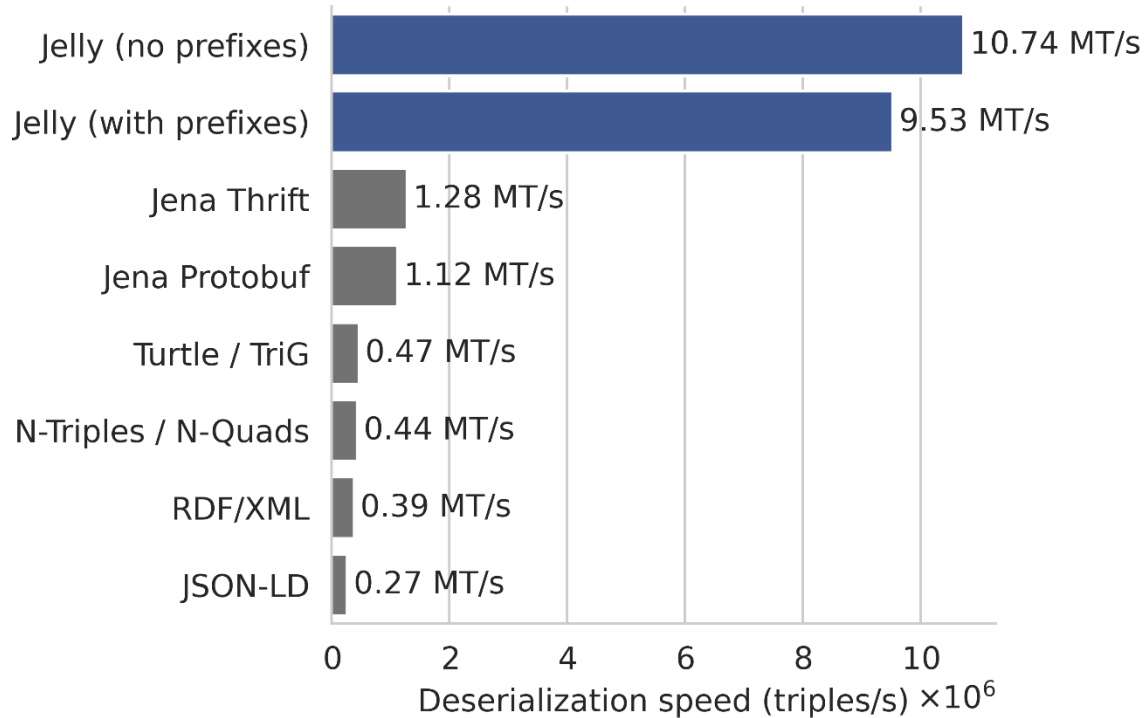
Example business cases

- Rapidly growing generative AI demand (\$36B market, 46.7% CAGR)
→ **Realizing GenAI's full potential requires dynamic KGs (GraphRAG)**
- Industry 4.0 & industrial IoT expected to become ubiquitous
→ **Live data integration & reasoning can be solved with KG streams**
- Streaming data analytics increasingly relies on heterogeneous data
→ **KG streams can integrate the data and enable complex analytics**

Our solutions are applicable in all of these cases.

Data source: Statista Market Insights

Our technology today



Benchmark details:

<https://w3id.org/jelly/dev/performance>

Jelly – our open-source KG transmission / streaming protocol

- **2–8x faster** than any competition
- **The only solution** to support all types of KG streams
- **Full conformance** with the open RDF 1.1 standard
- **Implemented** for popular libraries (Jena, RDF4J, Titanium)

Learn more: <https://w3id.org/jelly>

Business value

Increase throughput

Process more data, faster.

Lower latencies

Quickly respond to events and changing knowledge.

Reduce your infra bill

You need less compute & network bandwidth.

Plug & play

Full support for the RDF 1.1 standard. Switch to Jelly and go.