

# Research and innovation partnership offer

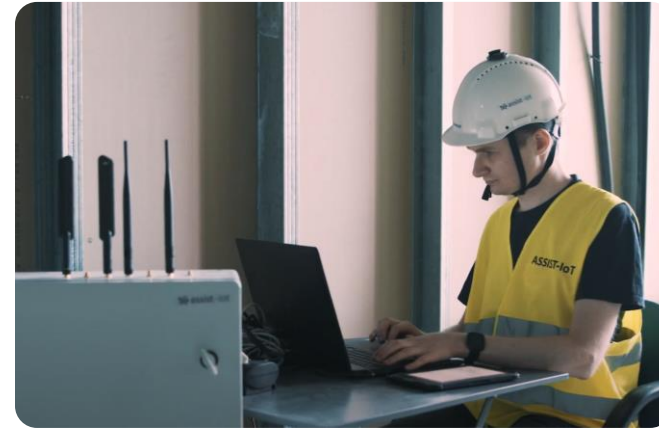
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# Key facts

- **NeverBlink** – deep tech startup / SME from Poland
- **Main expertise:**
  - Scalable knowledge graph (KG) technology
  - KG + GenAI integration
  - Real-time streaming
  - Cloud-Edge-IoT continuum systems
- **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**
  - 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:**

- Cutting-edge AI  
(incl. neurosymbolic AI, frugal, active inference, agents...)
- Making GenAI deliver business value – grounding LLMs in real knowledge
- Computing continuum
- Real-time and streaming systems

- **Preferred role:** core technical partner

- Can also do pilot implementation (jointly with end user)
- We can bring end user partners if needed (multiple verticals)

# 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
- 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*

# The problem

- **KGs have already revolutionized:**

- Logistics (Amazon, Zalando)
- Biotech (drug interactions, gene-protein mapping)
- Cybersec (Wiz, acquired for **\$32B** by Google)
- Scaling GenAI (GraphRAG method)

- **But, KGs don't work if you need simultaneously:**

- Low latency
- High throughput
- Integration of many data sources

...like you do in **Industry 4.0, large-scale live analytics, construction**

# 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*

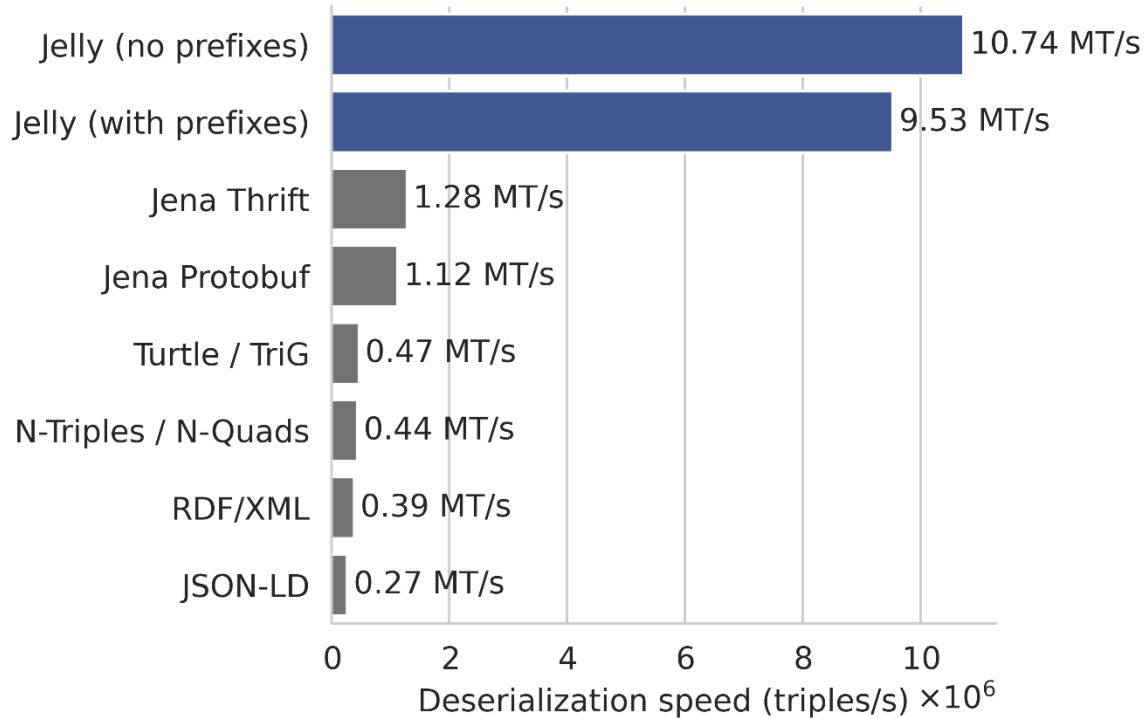
# Example business cases

- 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.