

# AI-driven hazard detection & compliance reporting (Health and Safety (OHS))

## Summary

Profile type

**Technology offer**

Company's country

**Slovakia**

POD reference

**TOSK20250528035**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement****Commercial agreement with  
technical assistance****Investment agreement**

Targeted countries

**• World**

Contact Person

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Term of validity

**29 May 2025****29 May 2026**

Last update

**29 May 2025**

## General Information

### Short summary

Slovak SME has developed an automated, AI-driven solution that recognises hazards on site and instantly maps each one to the exact legal paragraph eliminates these bottlenecks. It accelerates risk assessments, guarantees clause-level traceability, and generates a one-click report or email that documents all non-conformities for seamless follow-up and audit readiness. The SME is looking for business and R&D partners in EU countries.

### Full description

A small Slovak-based business with fewer than 10 employees is specialised in applied research and development of artificial-intelligence and machine-learning technologies, as well as system integration.

The company has developed a solution that automates risk- and hazard-identification processes through advanced image-recognition techniques. Every detected risk or hazard is cross-referenced with local legal and regulatory requirements, and all non-conformities are clearly flagged in the final report. The cloud-ready solution integrates with existing CCTV or mobile-device cameras, flags hazards instantly, and produces compliance reports aligned with EU and national legislation.

**Problem Statement — Occupational Health & Safety Compliance**

In the occupational-health-and-safety (OHS) domain, companies must comply with 100 separate laws comprising

1,000 – 1,500 individual paragraphs. Memorising this body of regulation—and manually cross-checking each clause against real-world site conditions during an inspection—is unrealistic. The result is:

- Slow, labour-intensive inspections that interrupt operations.
- Human error and omissions, leaving critical hazards unflagged.
- Regulatory exposure: missed clauses translate into fines, legal liability, and reputational damage.
- Fragmented audit trails that are difficult to export, share, or defend during external audits.

The SME is looking for partners in EU countries, such as re-sellers / local market distributors / OHS companies with domain knowledge for R&D partnership / Looking for investment for further scaling / Commercial agreement with technical assistance / Research and development cooperation agreement with OHS domain expertise companies.

#### Advantages and innovations

The company offers:

- A working prototype validated in industrial environments.
- A multidisciplinary research team (AI, computer vision, safety engineering).
- Openness to technical cooperation, commercial agreements with technical assistance, and joint EU-funded projects.

Current state: TRL 6, aiming for TRL 7.

#### Technical specification or expertise sought

#### Stage of development

**Under development**

IPR Status

**No IPR applied**

IPR Notes

#### Sustainable Development goals

• **Not relevant**

## Partner Sought

#### Expected role of the partner

The SME is looking for:

- Industrial end-users (manufacturing, energy, construction, logistics) to pilot or adopt the technology and improve HSE performance.
- Distributors / system integrators active in industrial automation, safety, or computer-vision solutions.

- R&D partners or consortia for Horizon Europe / Eurostars calls in AI, computer vision, occupational safety, or predictive maintenance.

## Type of partnership

**Research and development cooperation agreement**

**Commercial agreement with technical assistance**

**Investment agreement**

## Type and size of the partner

• **SME 11-49**

• **R&D Institution**

• **SME <=10**

• **Big company**

• **SME 50 - 249**

## Dissemination

## Technology keywords

• **01004017 - Work Hygiene and Safety Management**

## Market keywords

• **02007021 - Other Artificial intelligence related**

## Targeted countries

• **World**

## Sector groups involved