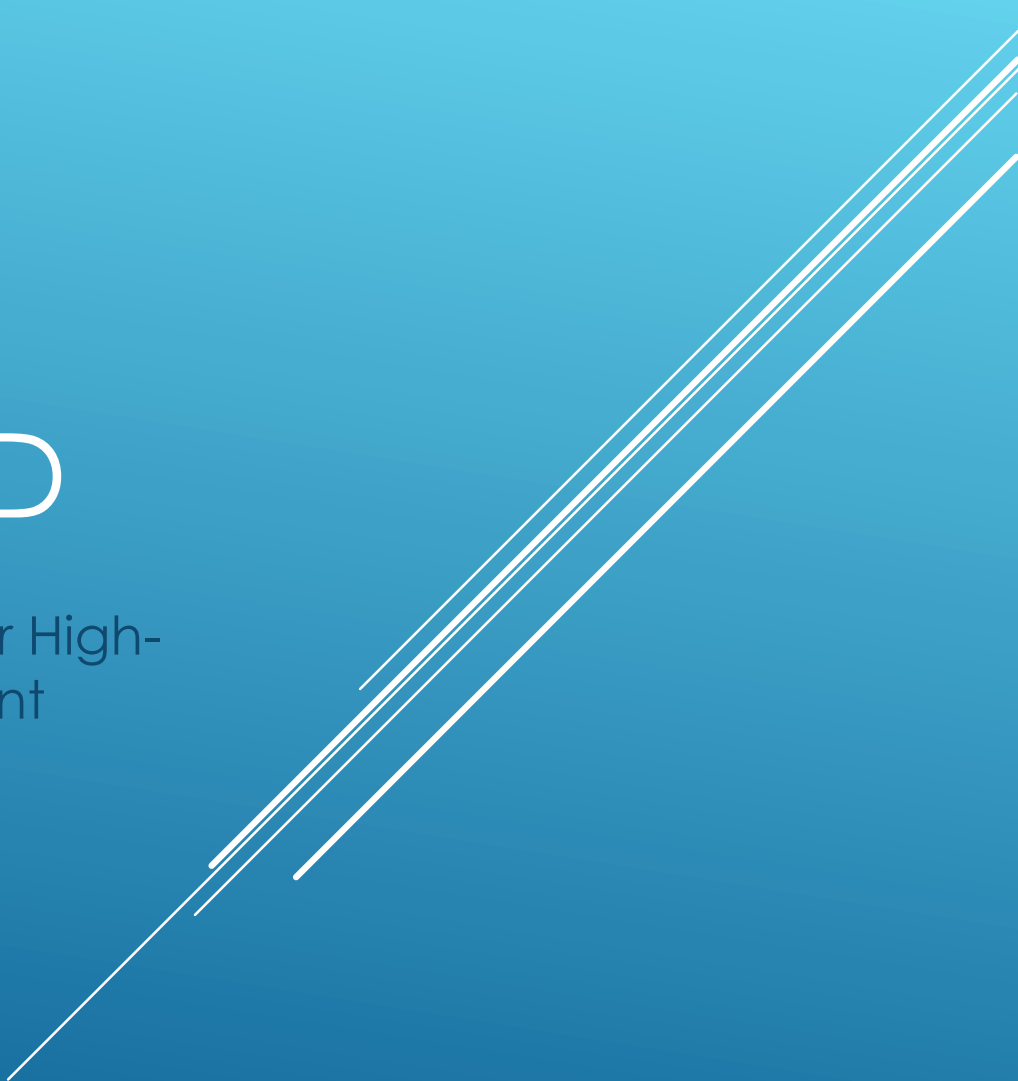


RK PROJECT SOLUTIONS LTD

AI Risk Intelligence Platform for High-
Risk Infrastructure | £250k Grant
Proposal



- ▶ Development of an AI-driven risk intelligence platform for high-risk infrastructure
- ▶ Focused on energy, civil engineering, and construction environments
- ▶ Transforms reactive safety management into predictive risk control
- ▶ £500k grant enables accelerated innovation and national impact

EXECUTIVE SUMMARY

- ▶ UK energy and infrastructure investment at historic highs
- ▶ Increasing project complexity and risk exposure
- ▶ Persistent safety incidents and productivity challenges
- ▶ Strong policy push for digitalisation and AI adoption

STRATEGIC CONTEXT

- ▶ Risk identification is inconsistent and heavily experience-dependent
- ▶ RAMS and risk registers are static and quickly outdated
- ▶ Limited real-time visibility for senior decision-makers
- ▶ Lessons learned are not systematically captured

THE SITE-LEVEL PROBLEM

- ▶ AI can identify patterns across thousands of site data points
- ▶ Real-time risk intelligence enables early intervention
- ▶ Supports safer, more predictable project delivery
- ▶ Clear alignment with UK safety and net-zero programmes

THE OPPORTUNITY

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- ▶ AI-powered dynamic risk identification engine
- ▶ Continuously updating risk profiles
- ▶ Mobile-first interface for site managers
- ▶ Designed specifically for high-risk infrastructure delivery

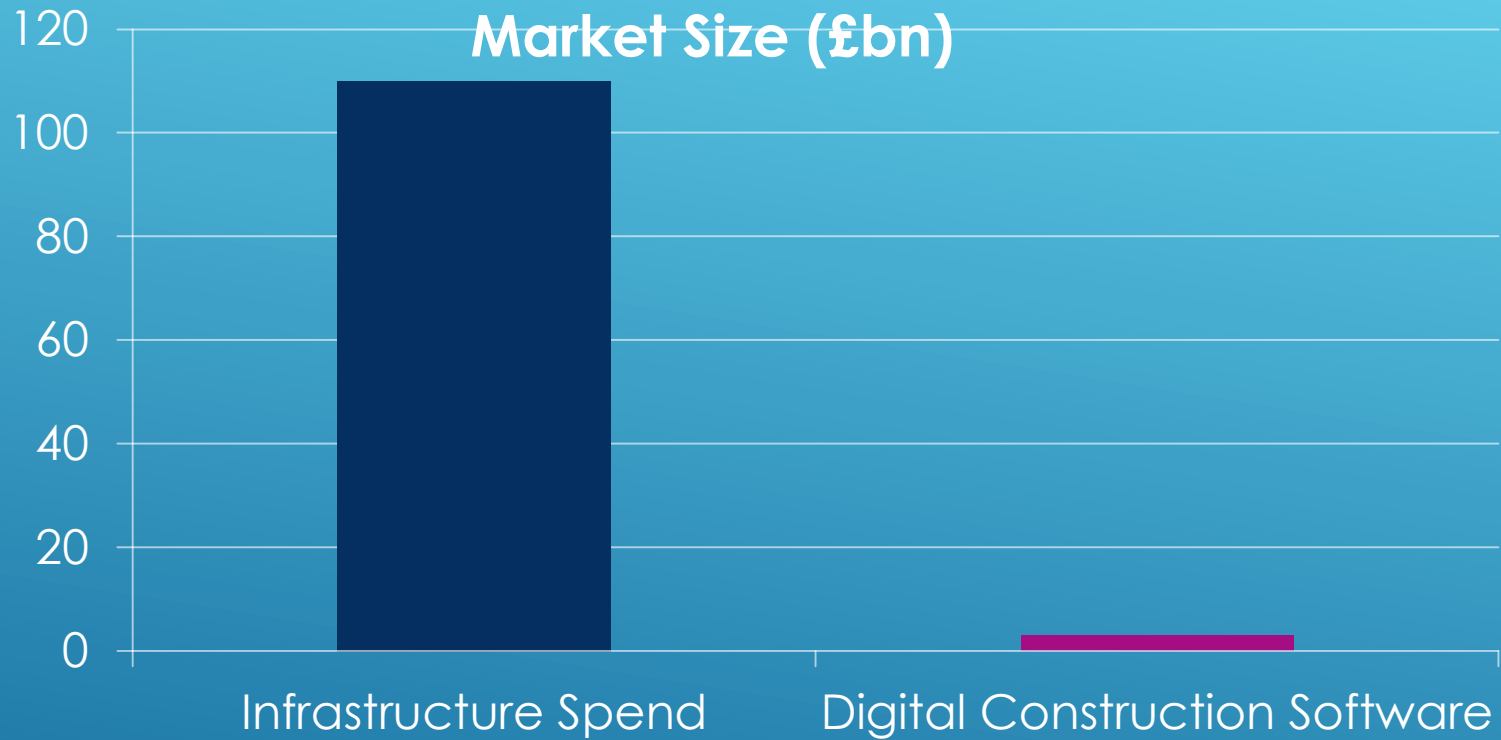
THE INNOVATION

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- ▶ Live site data captured via mobile application
- ▶ AI analyses tasks, sequencing, environment, and workforce factors
- ▶ Emerging risks flagged with recommended mitigations
- ▶ Dashboards provide portfolio-level oversight

HOW THE PLATFORM WORKS

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UK MARKET CONTEXT (£BN)

- ▶ Compliance-focused rather than decision-support tools
- ▶ Generic systems lack sector-specific intelligence
- ▶ Lagging indicators dominate safety reporting
- ▶ Low engagement from frontline teams

WHY EXISTING SOLUTIONS ARE
INSUFFICIENT

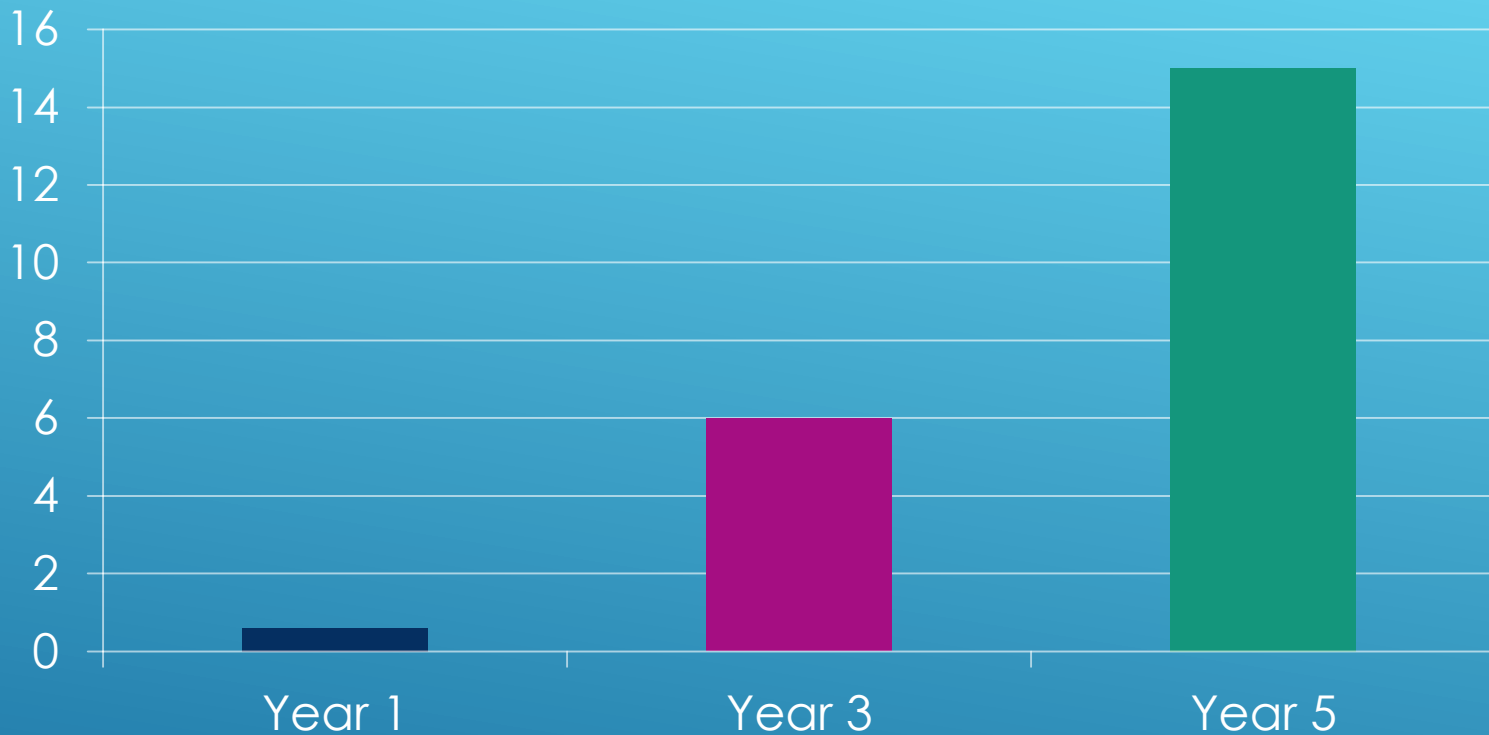
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- ▶ SaaS-based recurring revenue model
- ▶ Per-project and enterprise licensing
- ▶ High gross margins typical of software platforms
- ▶ Strong post-grant scale-up potential

COMMERCIAL SUSTAINABILITY

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Revenue (£m)



PROJECTED REVENUE GROWTH
(£M)

- ▶ Advanced AI model development and training
- ▶ Secure cloud and data infrastructure
- ▶ Extended live pilots across multiple sites
- ▶ Independent safety and productivity evaluation
- ▶ Cyber security and regulatory compliance

USE OF GRANT FUNDING (£250K)

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- ▶ Months 0–6: Core platform and AI engine build
- ▶ Months 6–12: Multi-site pilots and refinement
- ▶ Months 12–18: Commercial-grade release
- ▶ Formal governance and reporting throughout

DELIVERY PLAN & MILESTONES

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- ▶ Measurable reduction in safety incidents
- ▶ Improved programme predictability
- ▶ Productivity gains across UK infrastructure projects
- ▶ Creation of a scalable UK digital capability

IMPACT & OUTCOMES

- ▶ Deep operational experience in energy and civils. Rik has had a 23-year career in construction with years of Tier 12 contractor experience.
- ▶ Trusted relationships with industry stakeholders
- ▶ Strong understanding of site-level realities
- ▶ Proven project governance capability

WHY RK PROJECT SOLUTIONS

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- ▶ £250k grant funding
- ▶ Accelerate development and validation
- ▶ Deliver national safety and productivity benefits
- ▶ Position the UK as a leader in AI-enabled infrastructure delivery

- ▶ Questions?

THE ASK