![Parsons logo]

NAVIGATING AI RISKS IN THE AEC INDUSTRY

STRATEGIES FOR A SECURE & EFFICIENT FUTURE

Ricardo Lorenzo
Chief Technology Officer
Parsons

WHY PARSONS?
TWO SEGMENTS, ONE PLAYBOOK

Why Parsons?
Synergy Between FED & CI

Federal Solutions
Cybersecurity for defense, geospatial intelligence; advanced tech for mission-critical systems
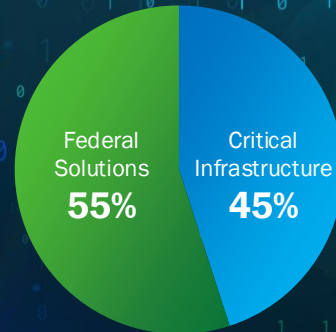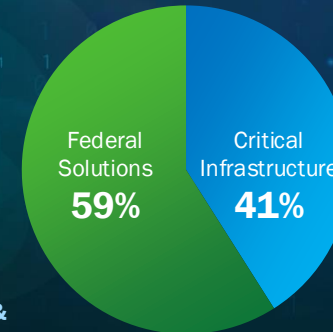
Critical Infrastructure
Large-scale road, bridge, rail, water, and urban development projects across 30+ countries

Financial Snapshot

$7.0B
Contract Awards (Fiscal Year 2024)

Federal Solutions **55%** | Critical Infrastructure **45%**

Federal Solutions **59%** | Critical Infrastructure **41%**

$6.8B
Total Revenue (Fiscal Year 2024)

Key Facts & Figures

80
Years Of History

~ 20K
Employees

132
Locations

12
Countries

233+
Sustainability Accreditations

WHY SHOULD YOU CARE ABOUT AI RISKS?

Why AI Is Transforming AEC

Labor & Productivity Gaps

Accelerated Digital Transformation

Sustainability & Safety Demands

#1

AI-Enhanced Malicious Attacks is the most cited emerging risk by senior risk and assurance executives for three consecutive quarters in 2024

Source: Gartner, 2024

1 in 12

prompts into free, public LLMs (e.g., ChatGPT, Gemini, Perplexity) contained sensitive information (e.g., customer & employee data, legal & finance data, proprietary code)

Source: Harmonic, 2025

47%

of organizations reported experiencing negative consequences from GenAI (e.g., inaccuracy, cybersecurity issues, or IP leaks) in early 2025, up from 44% in 2024.

Source: McKinsey, 2025

KEY AI RISKS & CHALLENGES IN AEC

PARSONS' PERSPECTIVE

1. Data Quality & Integrity

5. Workforce Literacy Gaps

Where We See the Largest Risks

2. Privacy & IP Leakage

4. Regulation & Compliance Drift

3. Cyberattack Surface

HERE'S WHAT WORKED

WHAT WE LEARNED FROM OUR JOURNEY

Hybrid
"Build vs. Buy"
Approach

Upskilling
&
AI Literacy

AI Use Case Pilots
&
Data Governance

RISK

RISK

RISK

RISK

RISK

Privacy &
IP Leakage

Data Quality
& Integrity

Workforce
Literacy Gaps

Cyberattack
Surface

Data Quality
& Integrity

STRATEGIC APPROACHES & GOVERNANCE

KEY PILLARS FOR AI SUCCESS IN AEC

AI Governance Committee & Policy

(e.g., NIST AI Framework)

1

Balanced Technology Vetting & Robust Vendor Partnership

2

Workforce Engagement

(Training & Best Practices)

3

Business Alignment

4

RISK MITIGATIONS & NEXT STEPS

4-Step Risk Management Cycle

Identify   **Evaluate**   **Mitigate**   **Monitor**

Key Takeaways

Establish AI Governance & Start Small

Invest In Workforce Readiness

Align AI Projects With Business Needs

1   **2**   **3**

THANK YOU

Questions?

Ricardo Lorenzo
Chief Technology Officer
Parsons

ricardo.lorenzo@parsons.us