



Status of Project Controls & Future with AI



26 Mar 2026

Speaker Introduction

Anil Godhawale

- ▶ **BEng (Mechanical), MBA, IEng, CCP, PSP, FCASA**
- ▶ **Spent over 20 years practicing Project Controls in Oil & Gas, Defense and Infra projects**
- ▶ **Founder of various Project controls initiatives**
 - Project Controls Expo – Largest Project Controls Events taking place in USA, UK, UAE, Australia and Brazil
 - Project Controls TV- Netflix of Project Controls
 - London Metropolitan College – Dedicated academic institution focused on Project delivery offering diploma to degree qualifications



Agenda

Implications for Capital Projects, R&D Infrastructure and Major Programmes

Discussion Points

- ▶ Increasing complexity of capital projects globally
- ▶ Need for transparency, governance and predictability
- ▶ Growing role of data, digital platforms and AI

Key Message

“ Project Controls is evolving from reporting and monitoring to predictive decision support powered by data and digital technologies. ”



What is Project Controls?

Simple definition –

A niche function responsible for managing large/complex projects time, cost and risk to achieve successful project delivery

For detailed definition,

please visit [Project Controls : What is it and why is it important ?](#)

How Project Controls achieves that ?

By sharing the right information (KPIs) to the right stakeholders at the right time to ensure the right decisions are taken at the right time



Difference between PC and PM

Project Controls is the art that turns Project Management into a science.

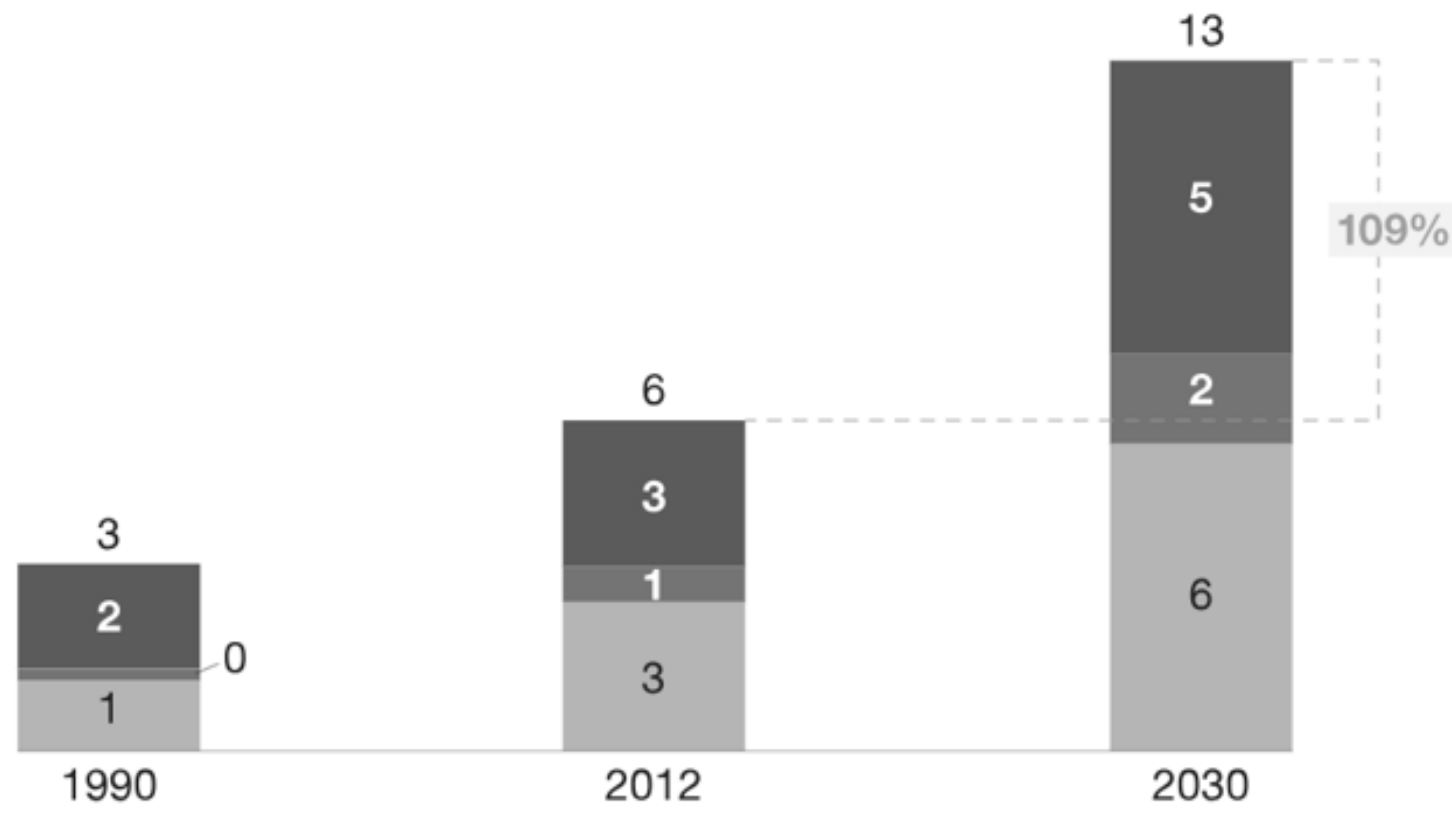
Project Controls is eyes and ears of project management helping to deliver projects **successfully** with no surprises.

Why Project Controls?

Global infrastructure investment by industry

Selected years, constant 2005 prices and exchange rates, \$ trillion

- Real estate
- Transportation
- Energy, utilities, and social infrastructure



Megaprojects' share in the future²

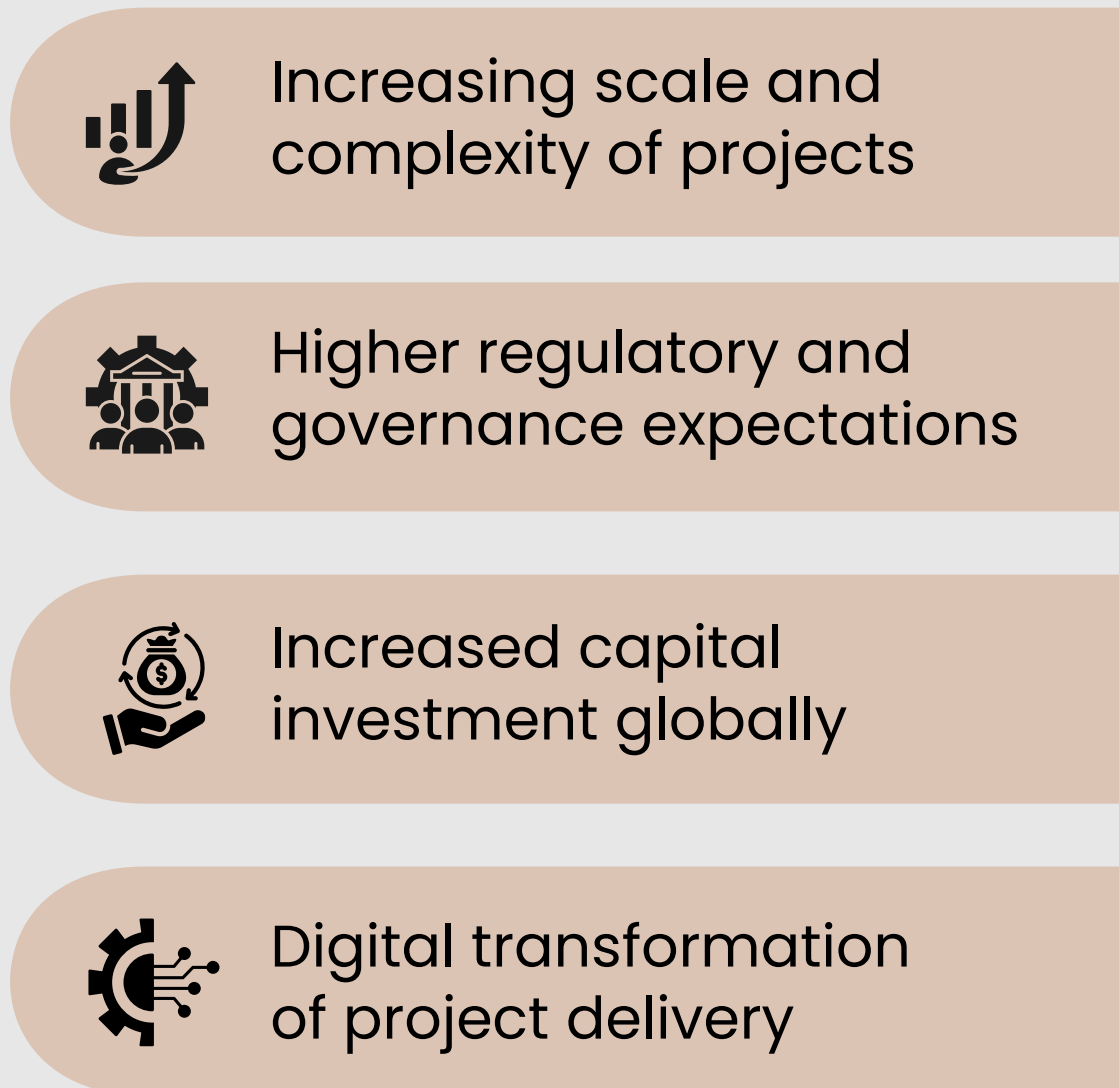
12% by number of projects
77% by project value

Reference - McKinsey Report

In recent years project controls have become established as a dedicated discipline with a rapidly growing community of senior professionals recognized for their value to all projects. For a project to succeed, appropriate planning is vital and hence accurate estimating, cost and schedule management, risk management, change management and forecasting is now deemed essential. The development of a suitable project control system, and a team to execute these systems, is an integral part of the overall project management effort.

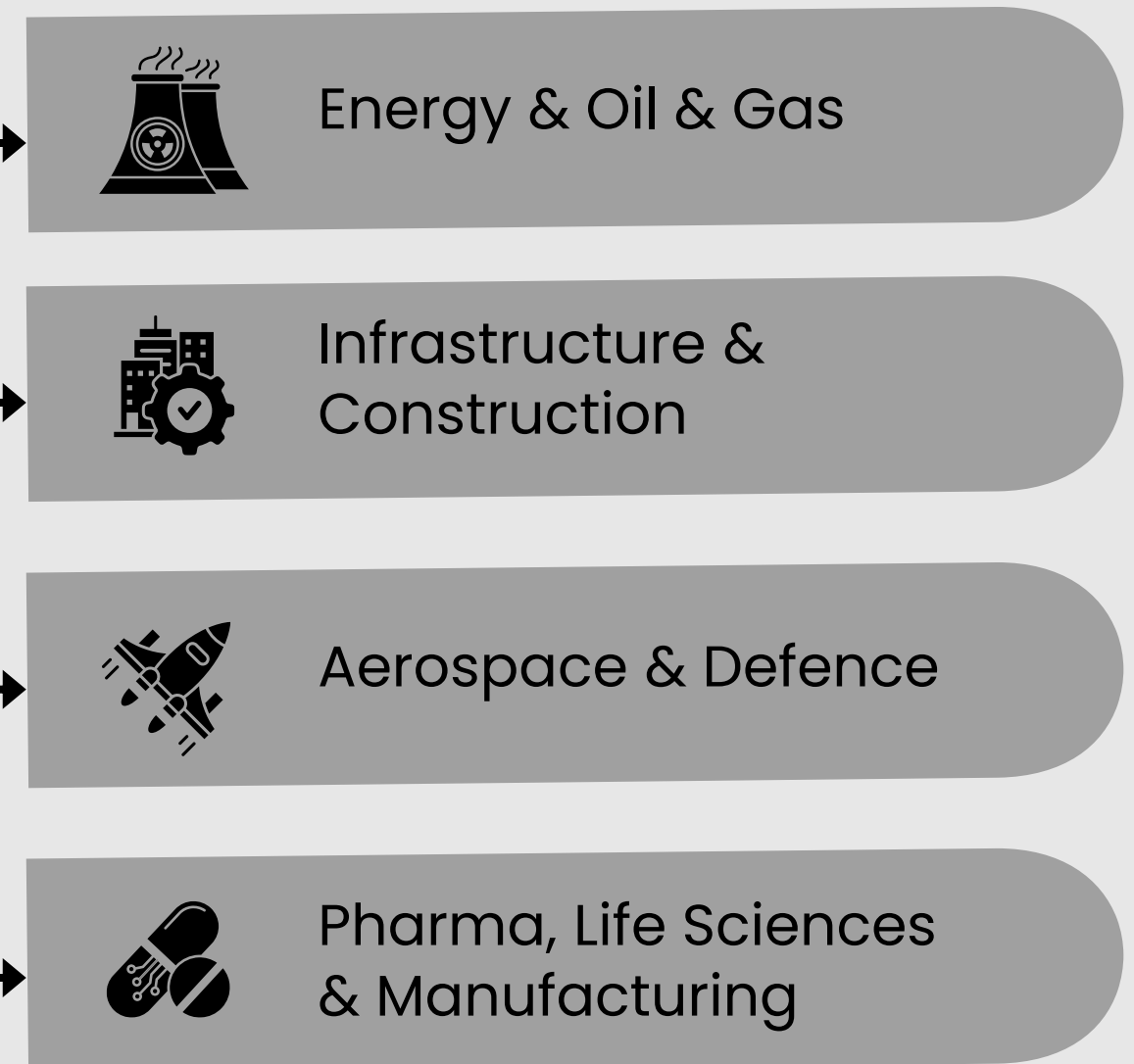
A report by PWC suggested that worldwide infrastructure spending will grow to \$9 trillion per year in 2025 and increasing thereafter. With project controls investment estimated to average at least 2% of a project cost, this values the spend on project controls at around \$20 billion. Little wonder this is a sector that now has dedicated departments, staff and is establishing best practice techniques.

Drivers Behind Growth



Global growth of Project Controls

Industries Leading Adoption

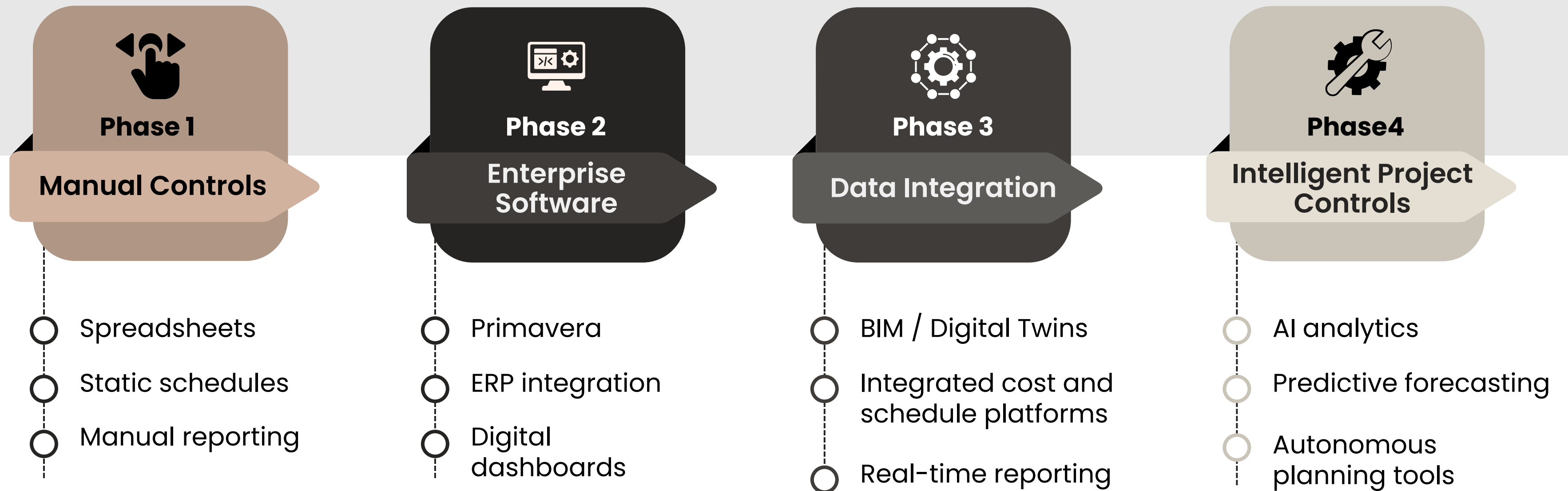


Trend

Project Controls is moving from “project support” → “strategic project governance function.”

Evolution of Project Controls

Project Controls has evolved through **four major technology waves**

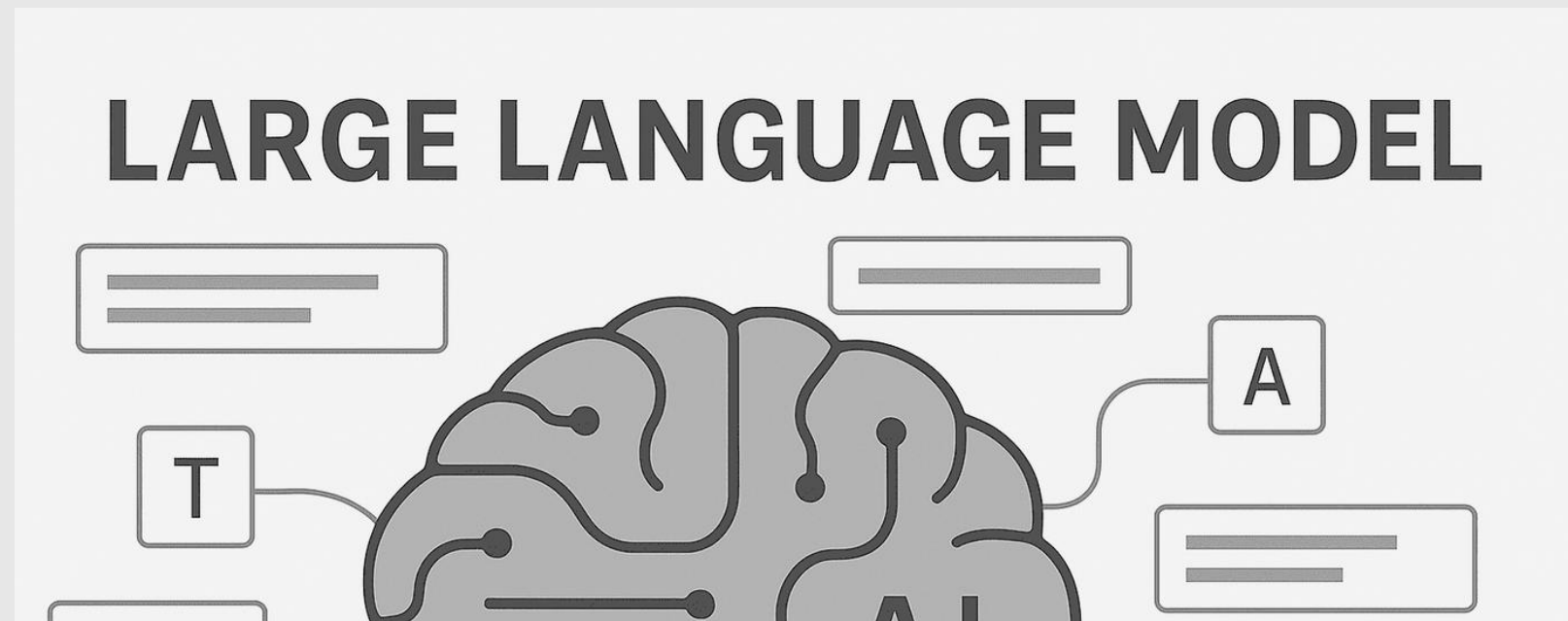


Global Standardisation Efforts

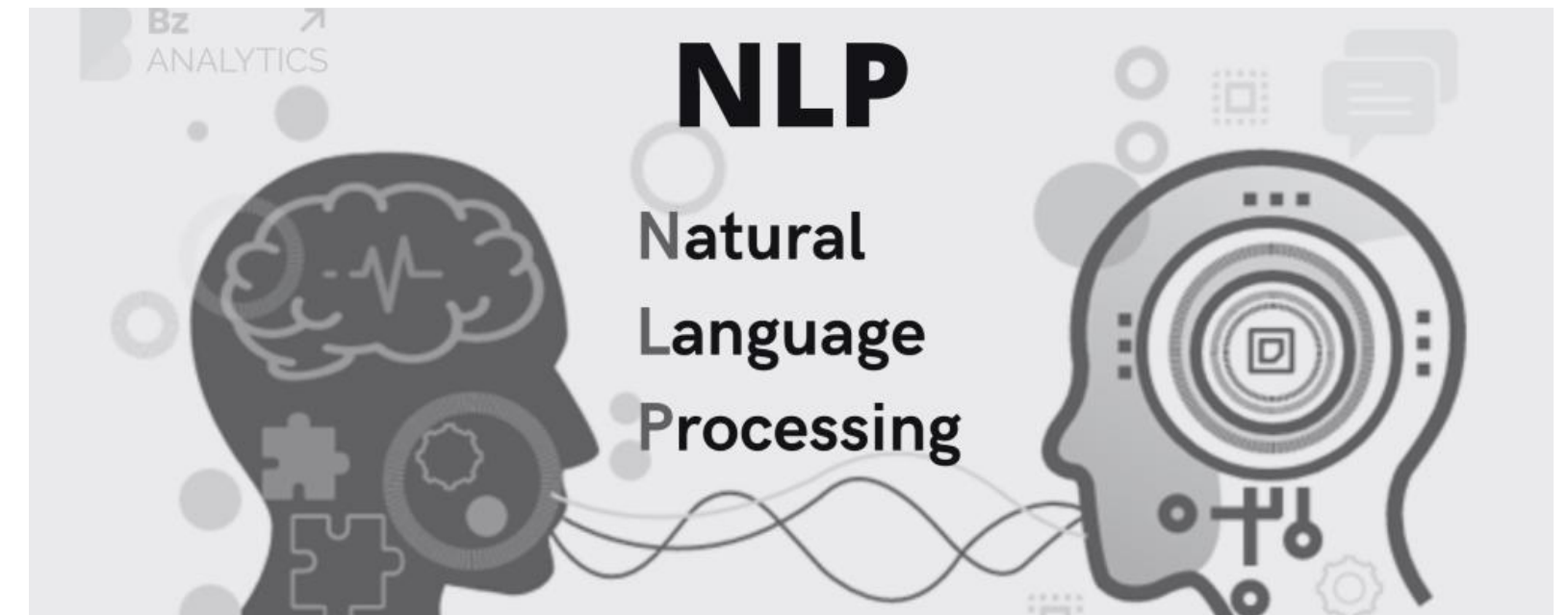
Despite rapid growth, global standardisation of Project Controls is still evolving.



AI Basics



Large Language Models are AI systems trained on vast amounts of text data. They are capable of understanding natural language, summarising complex information and generating human-like responses.



Natural Language Processing focuses on enabling machines to understand and analyse human language. Projects generate large amounts of unstructured data, including correspondence, contractor reports, technical documents and meeting discussions.

Ontologies and Knowledge Graphs

One of the biggest challenges in Project Controls is the fragmentation of project data.

Cost information, schedules, risk registers and engineering deliverables often exist in separate systems with limited integration. Ontologies and knowledge graphs help create structured relationships between these datasets.

For example, they can link:

Schedule activities

Cost accounts

Risk events

Contract clauses

Engineering deliverables

Generative AI

Generative AI refers to systems capable of producing new content such as reports, analyses, simulations or summaries.



Performance report generation

Scenario analysis summaries

Risk register drafting

Forecast narrative preparation

Agentic AI

Agentic AI represents the next stage of AI evolution.

Unlike traditional tools that respond to queries, agentic systems can operate autonomously within defined boundaries.



In a Project Controls context, AI agents could:



Continuously monitor cost and schedule performance



Detect anomalies or emerging trends



Generate early warning alerts

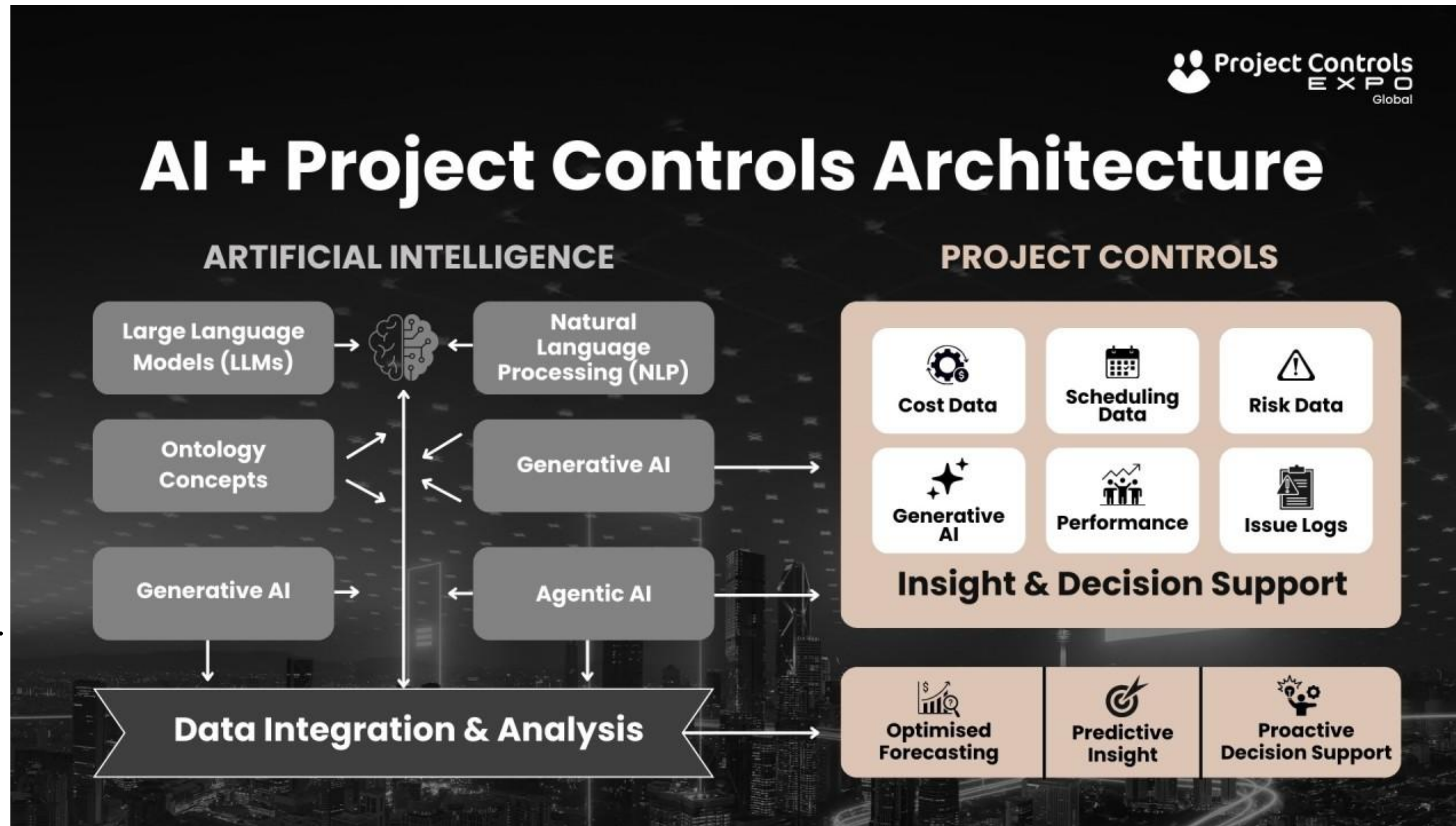


Suggest mitigation strategies



Trigger reporting workflows automatically

How AI Will Transform the Role of Project Controls



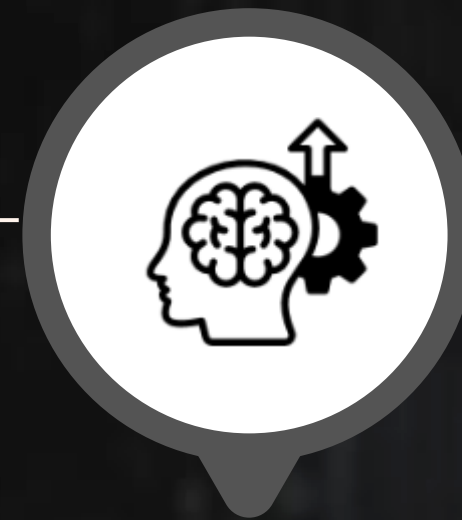
Skills the Future Project Controls Professional Must Develop



Data Literacy



AI Awareness and Prompting



Systems Thinking



Critical Thinking



Communication and Influence

The Human-AI Partnership



The future of Project Controls will not be defined by humans versus machines. Instead, it will be shaped by human-AI collaboration.



Thank You!

For further information, please reach us out

Anil Godhawale

Founder, Project Controls Expo

Phone – 0044 7775848459

Email – Anil@ProjectControlExpo.com

