



The **Intelligent** Project

Combining human and artificial intelligence
for project success.

Ray Paulk
Founder / CEO, ProjectAI

Project Controls Expo, Melbourne, VIC — November 2022

projectai.com



Today's Speaker



Ray Paulk

Founder / CEO, ProjectAI

- Senior business and portfolio advisor specialising in capital investment/ venture structuring, project strategy, technology strategy, portfolio optimisation, growth & international expansion.
- Over 20 years experience in major- and mega-projects and portfolios for the Oil & Gas, Natural Resources and EPC industries:
 - All project phases (appraisal, selection, definition, execution)
 - Greenfield and brownfield projects
 - Owner-operated and partner-operated
 - Standalone projects and programme-based
- Expert in major project governance to inform capital investment decisions, execution phase reviews, and forensic reviews.
- Led large multi-disciplinary teams, overseeing project controls for projects and programs ranging from \$4m to \$15bn, and portfolios ranging from \$60 to \$100bn. Advised numerous project and portfolio teams on six continents.
- Recognized innovator and thought leader in Project & Portfolio Management, specializing in advanced analytics, automation, systems integration, reporting and artificial intelligence for projects.
- BSc Mechanical Engineering, University of Houston, USA
Post Grad Managing Projects, Manchester Business School, UK

Digital Transformation in
Capital Projects:
What's stopping us?



Problem 1:

Projects are **human.**

Problem 2:

Projects are **temporary.**

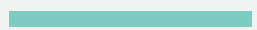
Problem 3:

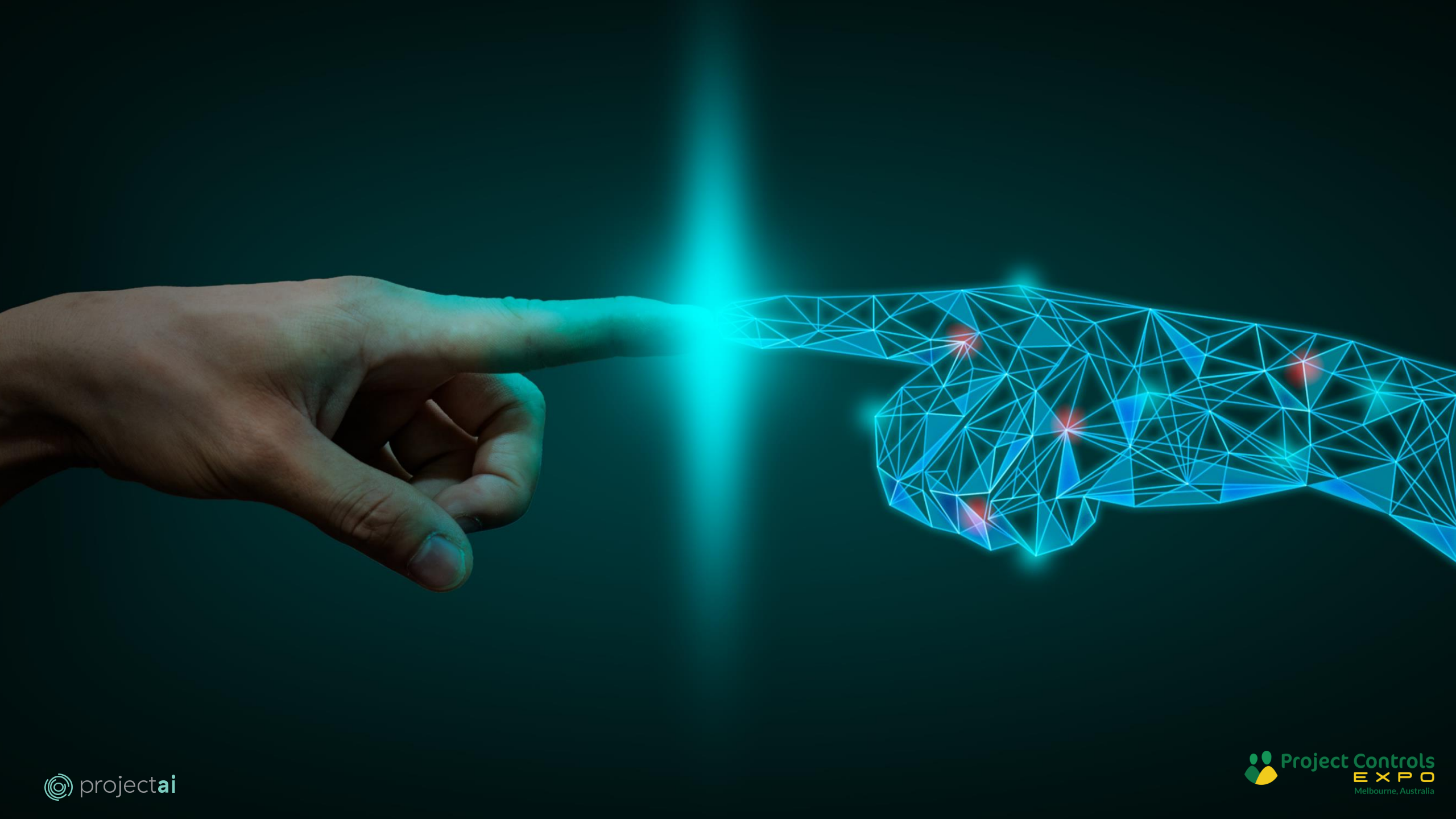
Projects are **unique.**





Problem 1:
Projects are **human.**





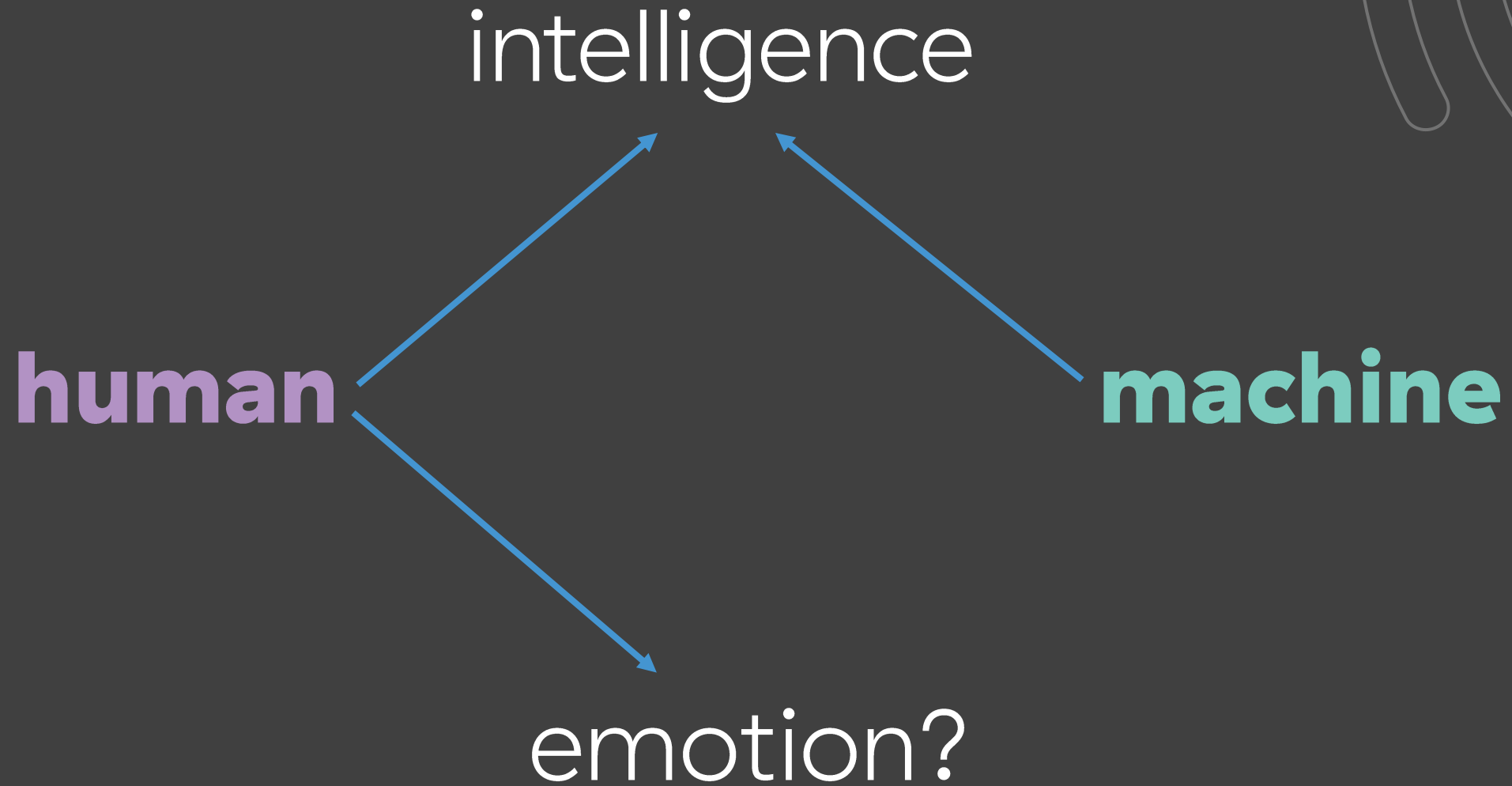
Q: What is the most common question project managers ask their teams?

A: How's it going?

Q: What are PM's listening for?

A:

- What people say.
- How they say it.





All project success... (and failure) ... depends on **people**.

The four primary human **emotions**:

...are a **catalyst** for:

HAPPINESS



ACHIEVEMENT

SADNESS



LEARNING

FEAR



PLANNING

ANGER



CHANGE

After every train wreck... **one simple question:**

“Were you surprised that the project failed?”

- Executives / stakeholders almost always say **YES**.
- Project team members almost always say **NO**.

Why do projects fail?

The usual suspects...

- Poor planning / front-end loading
- Poor leadership
- Inexperienced managers
- Management / key resource turnover
- Inadequate documentation and control
- Inaccurate / overly optimistic schedules & estimates
- Poor communication
- Ineffective / toxic culture, or ethical misalignment
- Conflicting drivers between stakeholders
- Poor resource management
- Reactive issue management / constraint elimination
- Slow information flow
- Disregarding warning signs

What do all of these issues have in common?

People!

As an industry, **what are we doing about it?**

A new range of **predictive** indicators of project **performance**

What's missing from your project report?



Sentiment

How are people feeling about the project?



Engagement

How involved and included are people on the project?



Influence

How do people view their ability to affect the project?



Interest

What do people really care about on the project?



Confidence

Do people believe the project will meet its objectives?



Culture

How do people view the culture on the project? Is it safe to speak?



Relationships

Do people trust their leaders and peers?

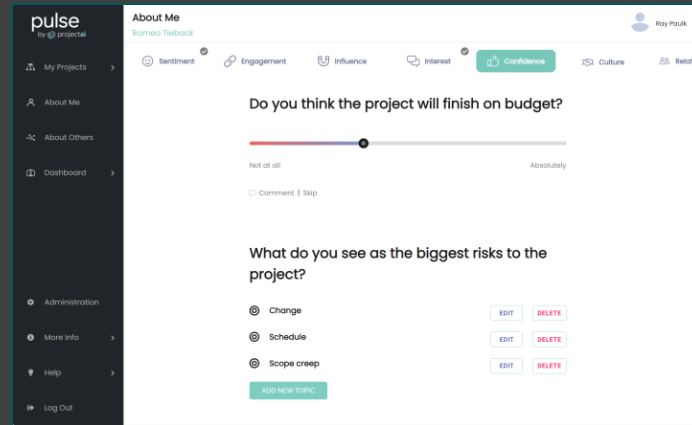


Improvement

What can be done to make the project successful?

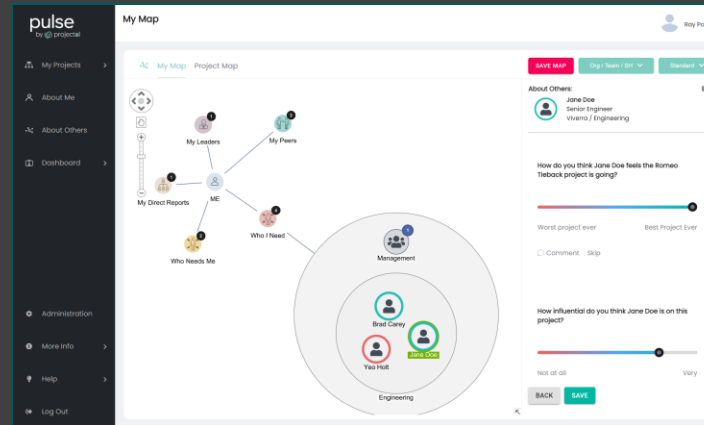


About Me (Reality)



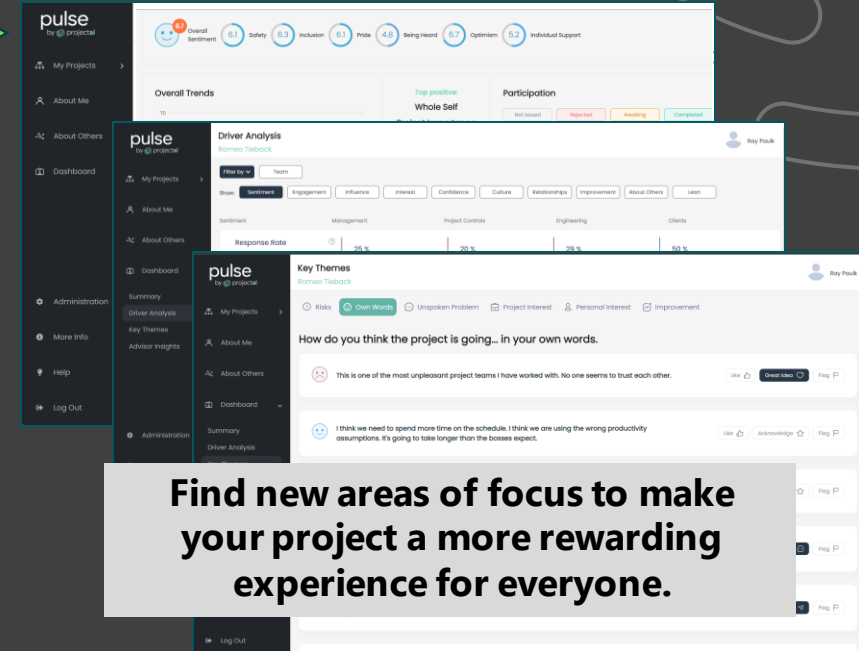
Discover the things that really matter to your team members.

About Others (Perception)



An entirely new approach to engage the people who will make your project successful.

Monitor & Analyse



Find new areas of focus to make your project a more rewarding experience for everyone.

Take Action



Problem 2:

Projects are **unique.**

“Let me tell you why **this project** is different...”

– EVERY PROJECT MANAGER

The volume of **project data is growing exponentially**, but the ability of people to manage it is not keeping pace.

- | **Disparate processes and systems**
- | **Spreadsheets are the enemy**
- | **Manual effort and re-work**
- | **Slow information flow to decision makers**
- | **Reinventing the wheel for every new project**
- | **Lost project and organisational knowledge**



Projects are **unique**... but not **“special”**.

- **Even with the same scope...**
 - Different people
 - Different location
 - Different stakeholders
 - Different suppliers
 - Different time / season
 - Different market conditions
 - Different tools
 - Different spreadsheets
 - Different reports
 - Different technologies
 - Different execution strategy
 - Different contracting strategy
 - Different culture

- **Common Types of Data**
 - Scope
 - Cost
 - Schedule
 - Progress
 - Resources
 - Risk
 - Changes
 - Issues
 - Documents
 - Materials
 - Models
 - Contracts
 - Health, Safety, Quality, etc.

>1000 Applications on the market for this.

- **Common Elements**
 - Labor
 - Pumps
 - Valves
 - Steel
 - Concrete
 - Cranes
 - Generators
 - Welders
 - Electricians
 - Engineers
 - Contracts
 - Fabrication
 - Commissioning

The concepts which add **meaning** to data.

Q: What is this?



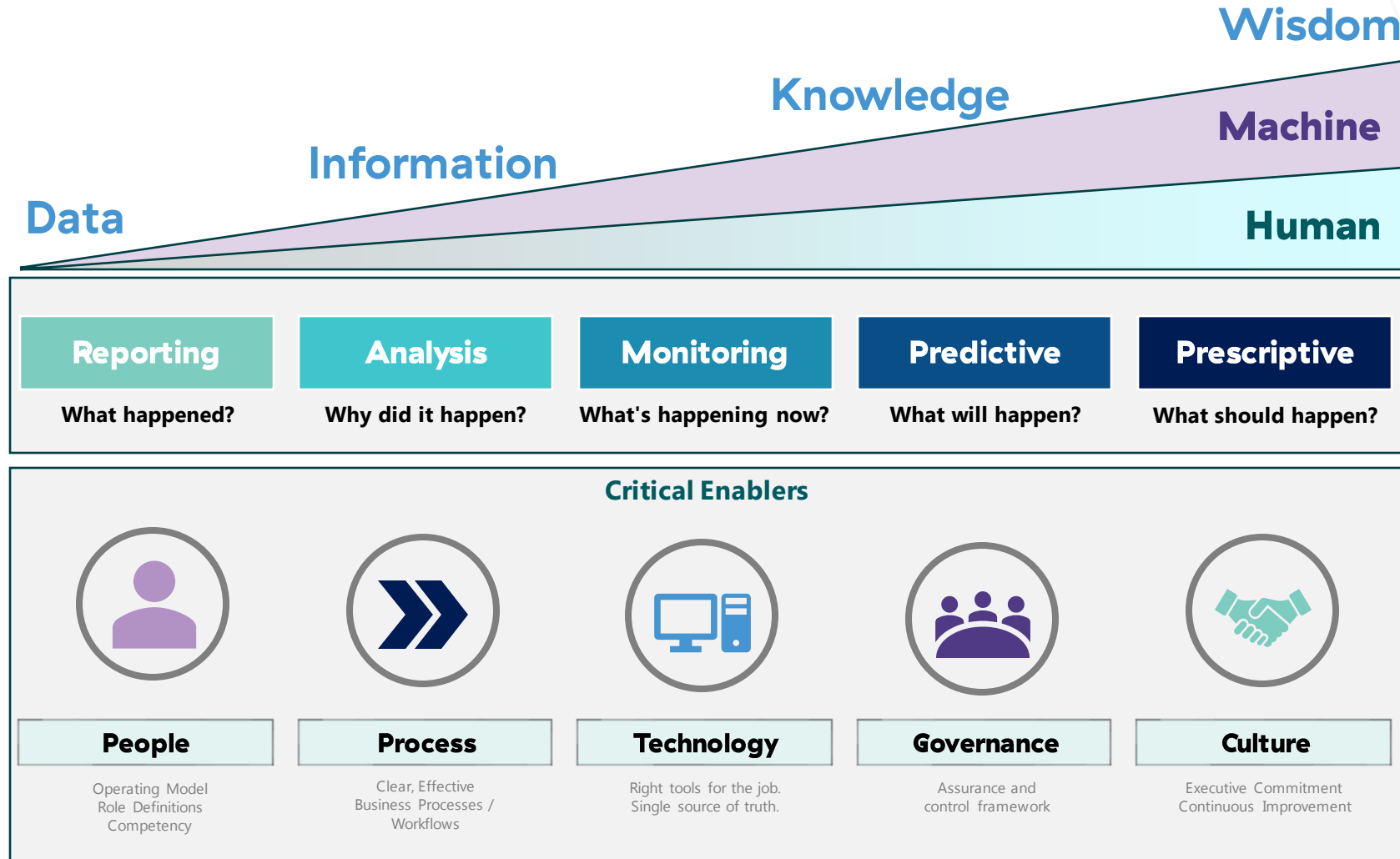
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Data is great.
Knowledge is better.



Human Intelligence + Artificial Intelligence

Creating a positive feedback loop.





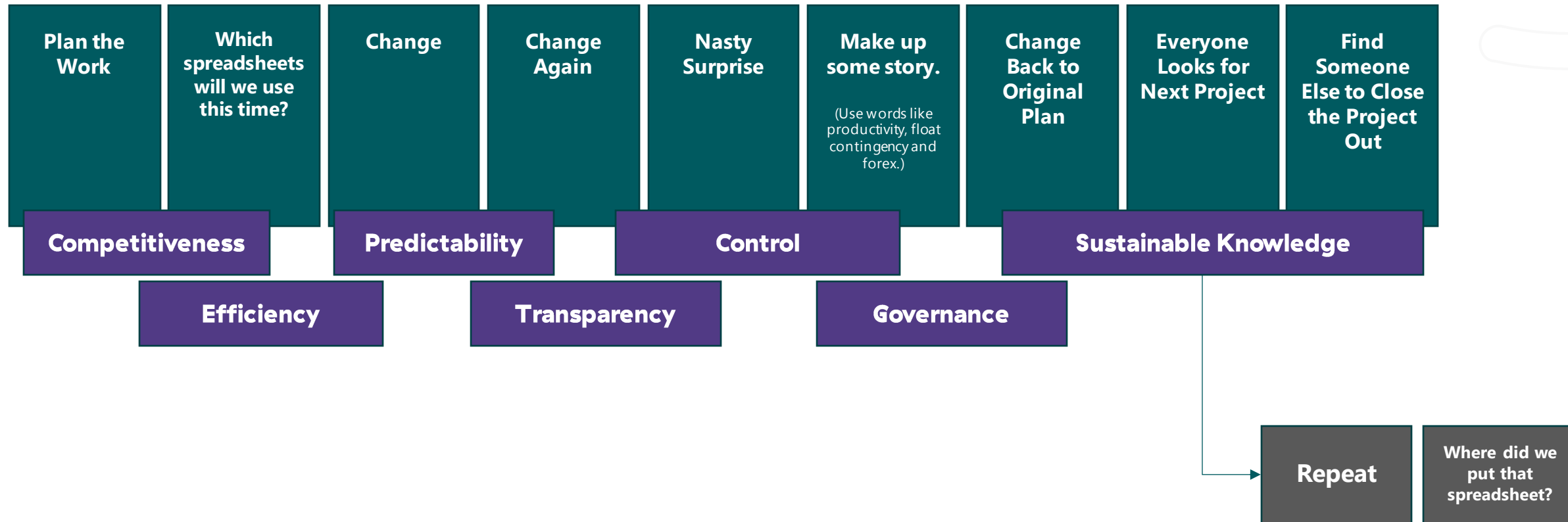
Problem 3:

Projects are **temporary.**

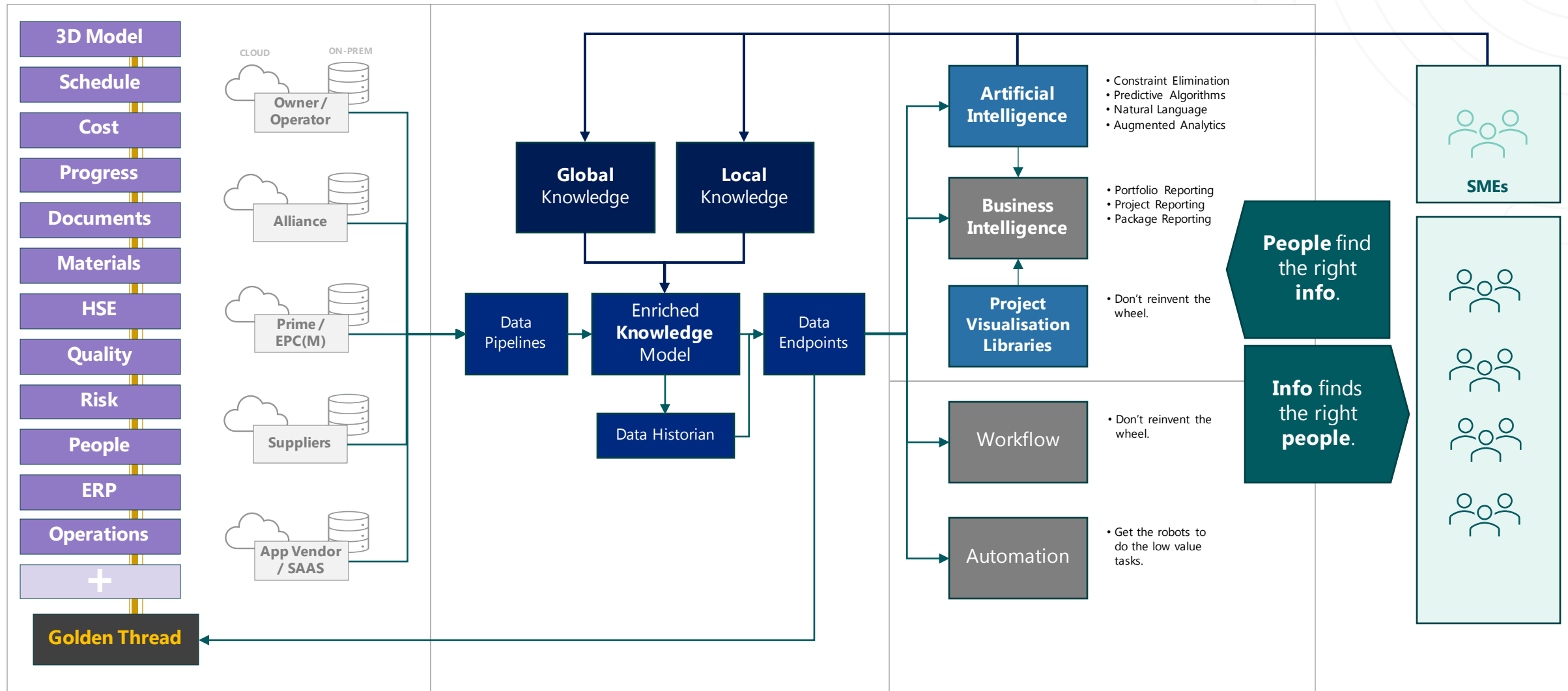
The project lifecycle:

START

FINISH



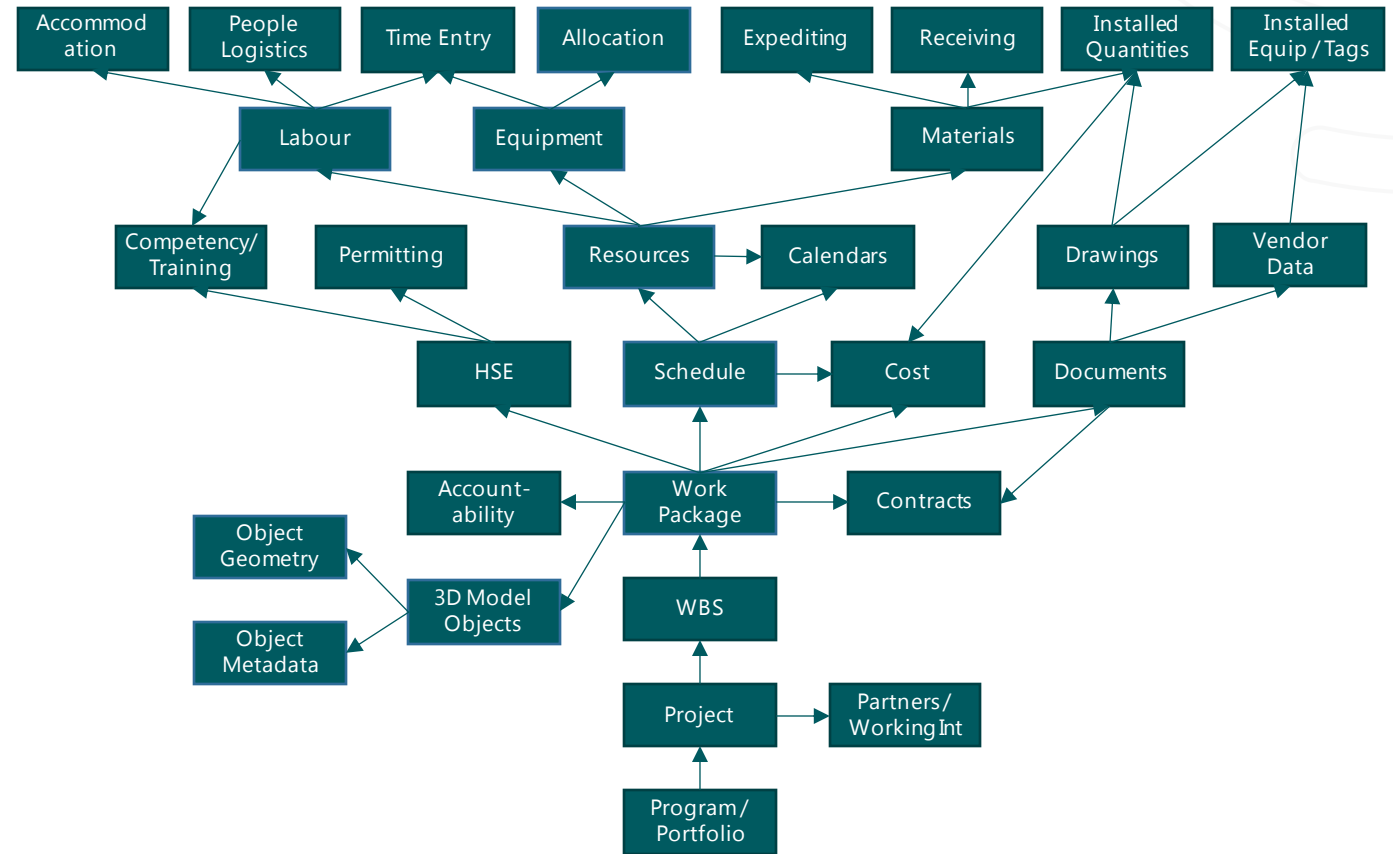
We make data meaningful... for **your project** ... and **the next project**.



Merging **technical** and **commercial** data for a new dimension of predictability... powered by artificial intelligence.



ProjectAI's revolutionary **knowledge** platform designed to help you overcome the traditional data challenges faced by capital projects.



Projects are **human.**

Projects are **temporary.**

Projects are **unique.**







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