

ORACLE

# Oracle for Project Delivery: The Full Lifecycle, Powered by AI

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Oracle

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## Safe harbor statement

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# Agenda

**Industry  
challenges**

**Oracle's answer**

**AI for project  
delivery**

**The Oracle  
Ecosystem**

**Industry Lab**



# Agenda

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## Bigger (GIGA) scale outcomes

**\$25+ Trillion**

In giga infrastructure planned globally by 2030<sup>1</sup>

**+20 – 45%**

Overages on a typical giga project budget<sup>2</sup>

**+2 – 3 Years**

Extensions on a typical giga project timeline<sup>2</sup>



# There are some capital investors at the MAC today!!!

## Future Expectations

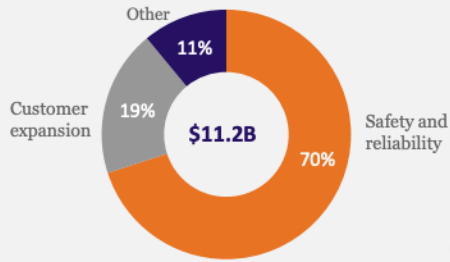
During 2026, we expect to receive net dividends of approximately \$1.2 billion from our regulated subsidiaries and expect to spend approximately \$800 million in capital expenditures primarily associated with system enhancements and computer hardware and software.



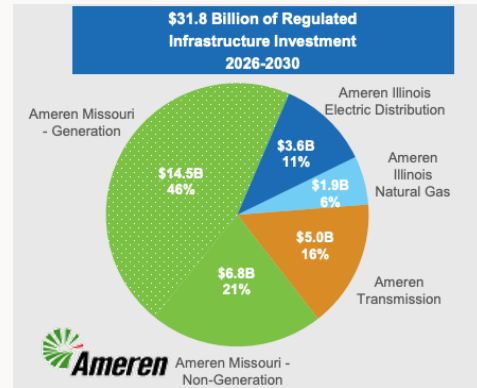
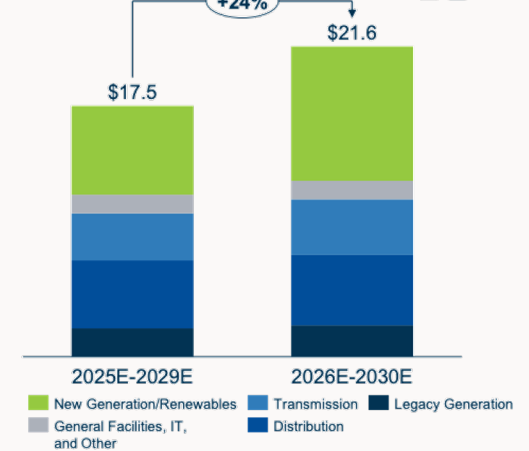
## STLOUIS-MO GOV

The 2026-2030 Capital Improvements Plan (CIP) identifies the projects funded in FY2026 through the Capital Budget and the projects tentatively scheduled for the following four years. Projects included in the CIP from 2026 to 2030 have an estimated cost of \$220.5M. The projects will be funded through a combination of local, state, and federal sources.

### 10-year capex breakdown (FY26-FY35E)



### Capital Investment Plan Update (\$ billions)



### FY2026 Budgeted Expenditures

MSD's FY2026 Budget contains three parts:



Item	Cost
Operating Budget	\$273.4 million
Capital Improvement & Replacement Program	\$567.4 million
Debt Service	\$275.8 million
<b>TOTAL EXPENSES</b>	<b>\$1,116.6 million</b>



# What makes projects so difficult to execute???

Machine Learning

3D Printing

**DECENTRALIZATION**

**FRAGMENTATION**

**LACK OF REPLICATION**

**TRANSIENCE**

Iron Triangle (scope, time, cost)

5D BIM Modeling Mobile and Simplicity Everywhere

Building Information Management (digital twin)

Drones & Sensors

Optimized Handover/Close-out

Cloud Computing

Artificial Intelligence

Integrated Procurement

Ecosystem Collaboration

Common Data Environment

Advanced (5G) Wireless

Handover/Close-out

TOOLS

Command Center Hubs

Robots/Exo-suits

Autonomous Equipment

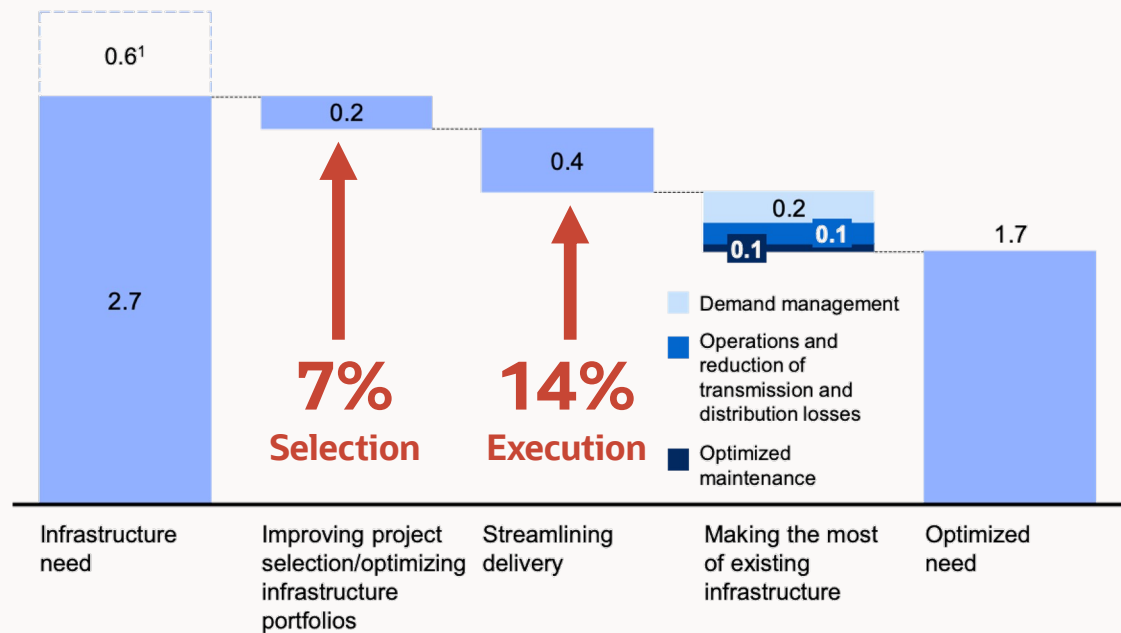
Wearables

IoT Data Platform

Predictive Performance

Pre-fab Manufacturing (off-site construction)

# Gaps in infrastructure project delivery lead to 21% waste



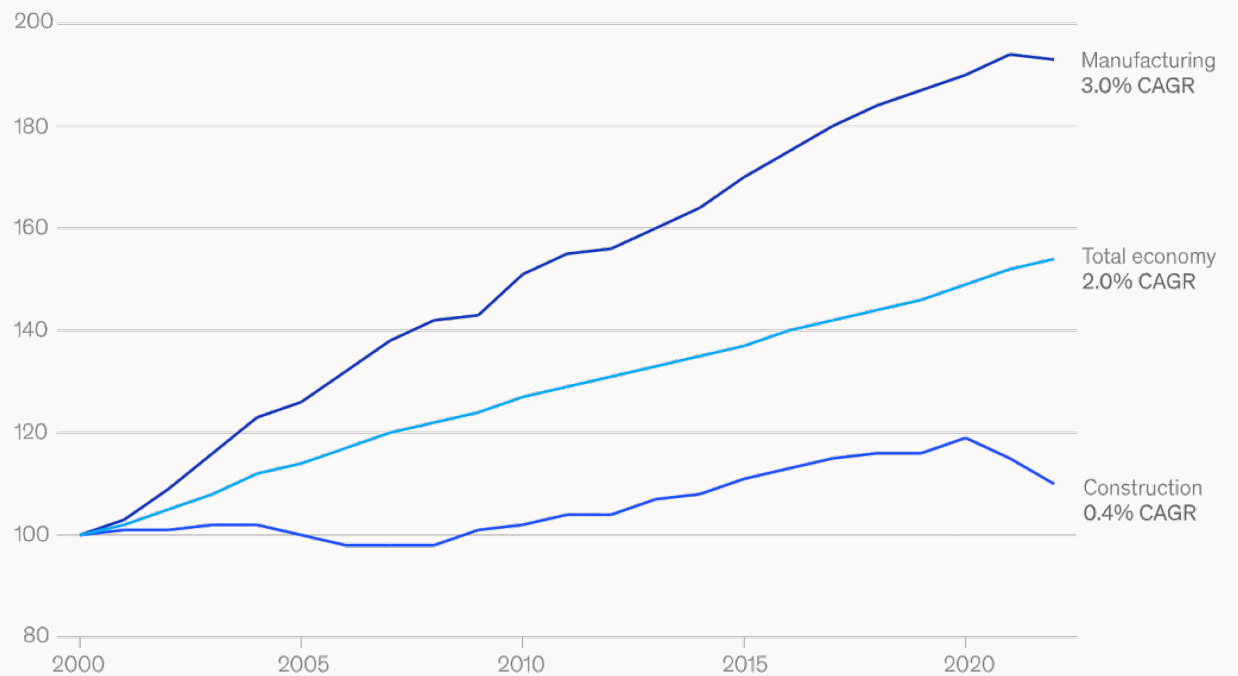
Source: McKinsey Infrastructure Practice, *Infrastructure productivity: How to save \$1 trillion a year*, January 2016



# Lagging productivity

## Labor productivity in construction continues to lag behind productivity in manufacturing and the total economy.

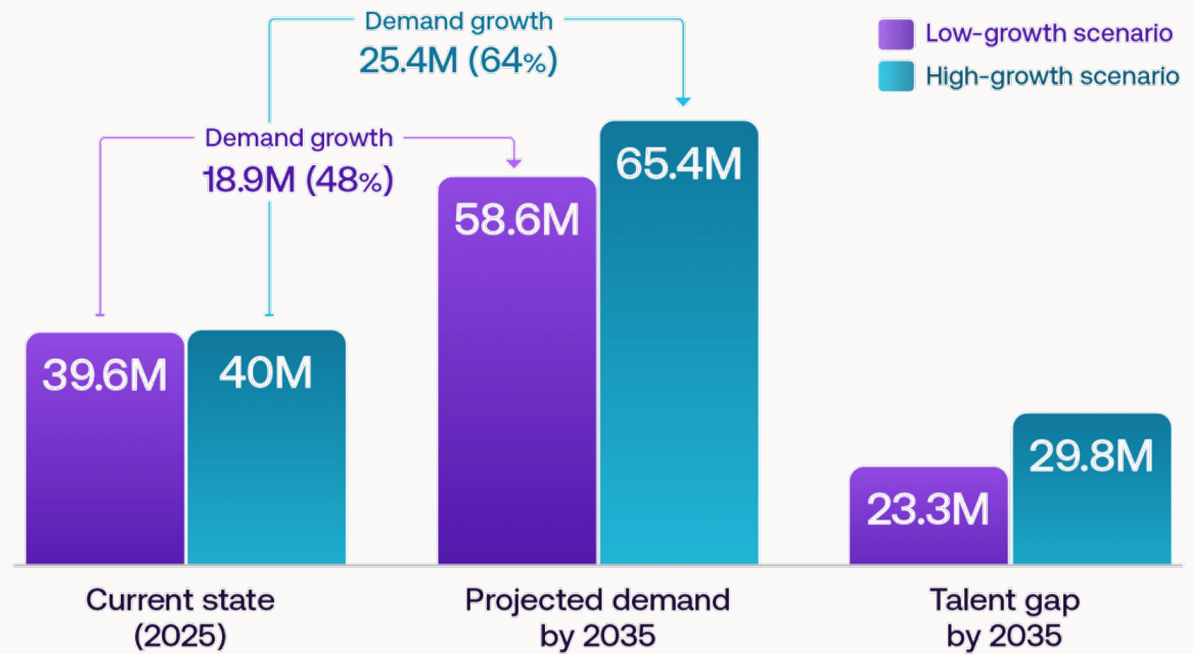
Real gross value added per hour worked (global),<sup>1</sup> 2000–22 (index: 2000 = 100)



<sup>1</sup>Includes 42 countries with sufficient data availability; they account for >90% of 2022 construction value added.  
Source: McKinsey analysis based on sources from IHS Markit, the International Labour Organization, OECD, the UN, and local statistical offices



# The global talent gap (2025)



**Note:** An additional 4.4M project professionals are expected to leave the workforce by 2035 due to attrition and retirement. Percentages were rounded for easy reading.



# Technology Trinity

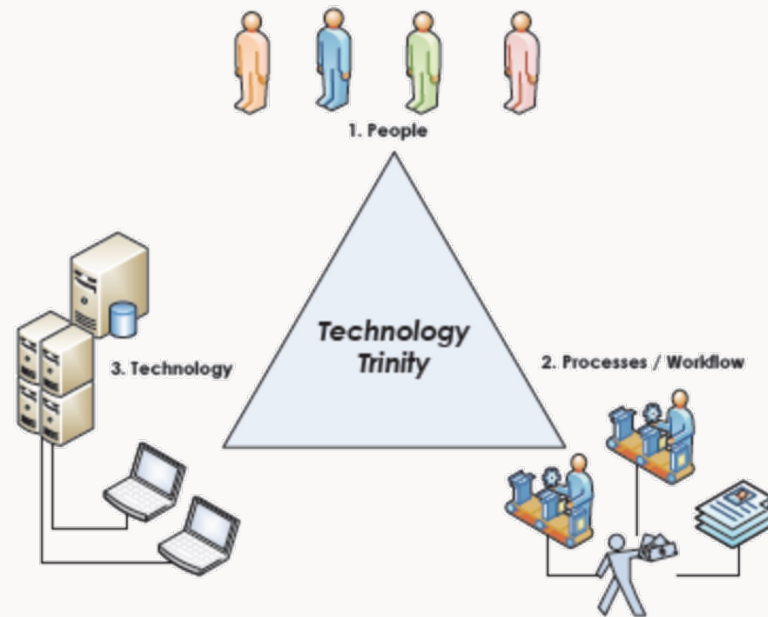


Figure 1: Technology trinity.



## Two of the most valuable organizations we know



- Construction Professional in Built Environment Project (CPBEP)<sup>TM</sup> certification



- Oracle partner, Digital Construction Practitioner

- Nominally 120 - 130 members representing energy, manufacturing, chemical, EPC, and advisory firms as well as multiple US federal government organizations
- Focused on tangibly improving project outcomes through academically-based research across 17 Best Practices
- Oracle's engagement includes:
  - Deployment and Technology Committees
  - **Third in CII-member research team participation**
  - Digitizing tools and processes (PDRI, AWP, et. al.)



# Building on 50+ years of PMI, 1.4 million PMP's, Agile, CII, and LCI

1960's      1970's      1980's      1990's      2000's      2010's      2020's

### 1960's

Project Management becomes a discipline in aerospace, construction and defense industries. It was from these industries that the PMI seed was planted.

**1969**  
"Birth" of PMI

### 1983

Construction Industry Institute (CII) founded

### 1984

First PMP certification exam

### 1990's

- Introduction of new methods:
- Scrum
  - RAD
  - DSDM
  - Extreme Programming

### 2000

Agile comes into focus as 17 software developers meet to discuss expediting development to bring new software to market faster

### 2020

The Coronavirus pandemic disrupted labor markets globally and fundamentally changed "the way we work".

### 2022

PMI announces the PMI-CP certification

### 2023

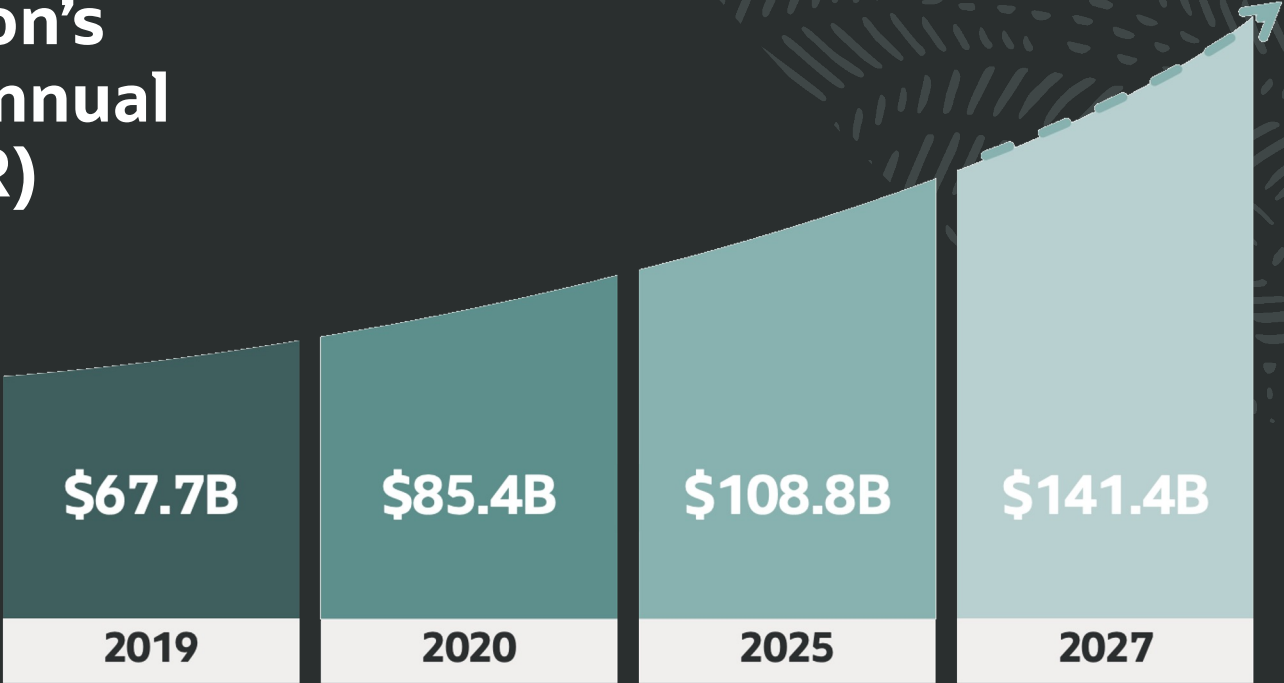
PMI and Oracle announce collaboration to improve digital project efficiencies in construction

### 2024

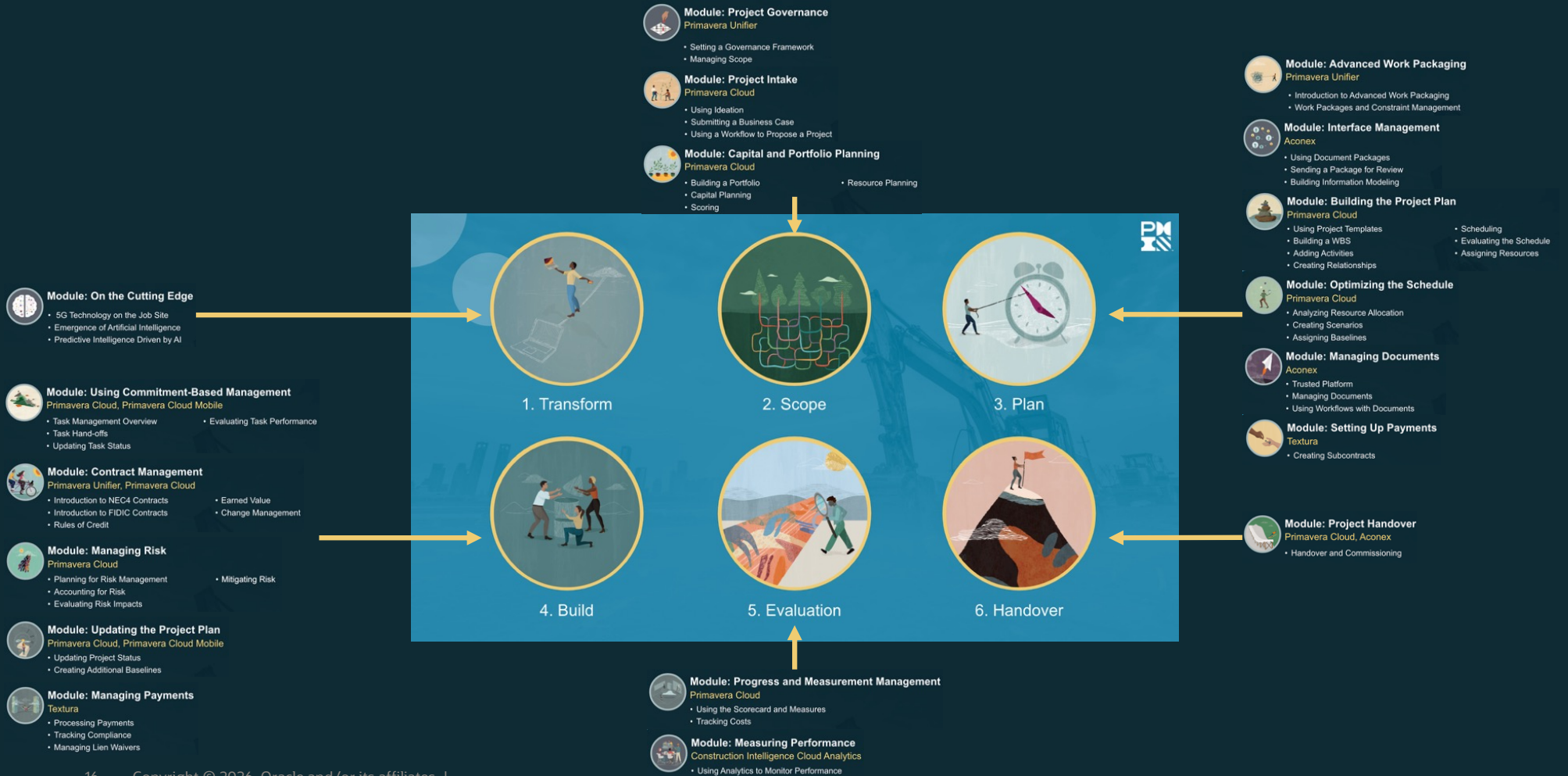
1,400,000 PMP's worldwide



# Offsite construction's 9.6% compound annual growth rate (CAGR)



# Smart Construction Platform in the PMI-DCP course



# Agenda

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# What is project delivery?

## DO THE RIGHT PROJECTS



*(aka Portfolio Management, Capital Planning)*

- Decision data
- Strategic
- Consumed primarily by decision makers
- Key outcomes
  - Capital planning, allocation, re-allocation
  - Strategy and enterprise risk alignment
  - Scenario planning

## DO PROJECTS RIGHT



*(aka Project Management, Project Controls)*

- Precision data
- Transactional
- Consumed primarily by project teams
- Key areas of management
  - Scope, schedule, and cost
  - Risk and contingency
  - Collaboration and documents

# Feeding the beast

Financial Constraints

Strategy & Goals

Economy / Growth

Asset Inventory & Condition

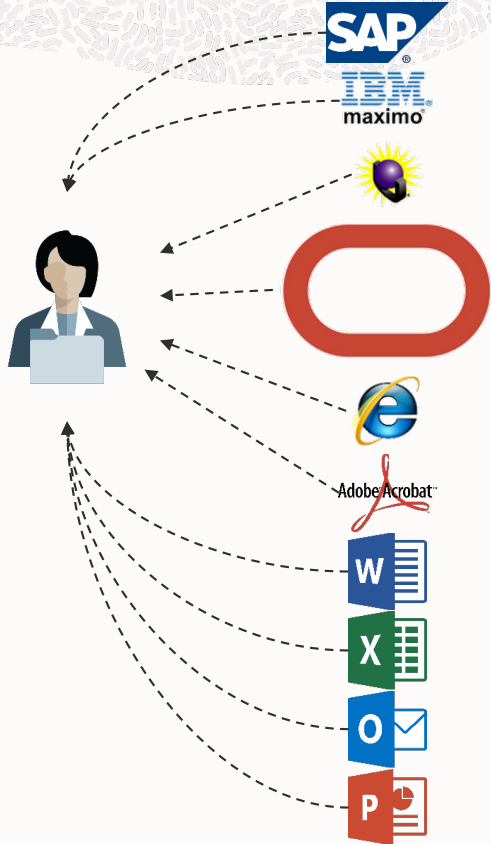


**“Megashheet”**  
VLOOKUP, SUMIF, COUNTIF

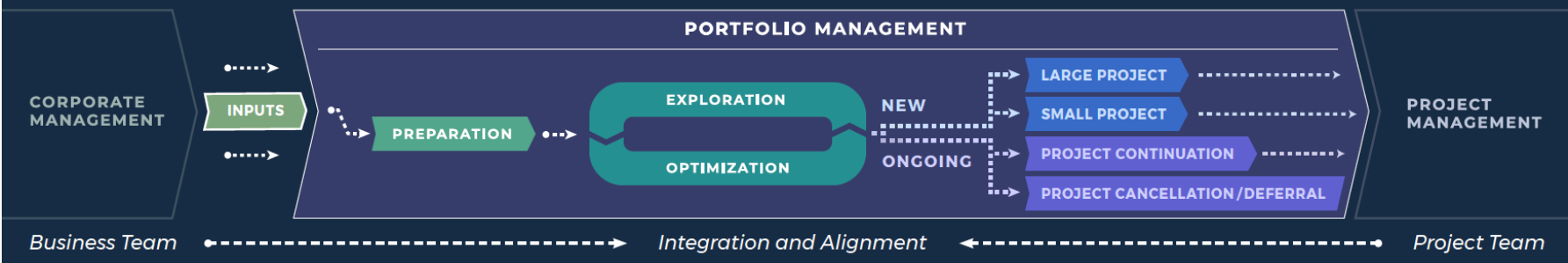
Regulatory Compliance

Internal & External Feedback

Investment Benefit(s)



# CII capital planning documentation

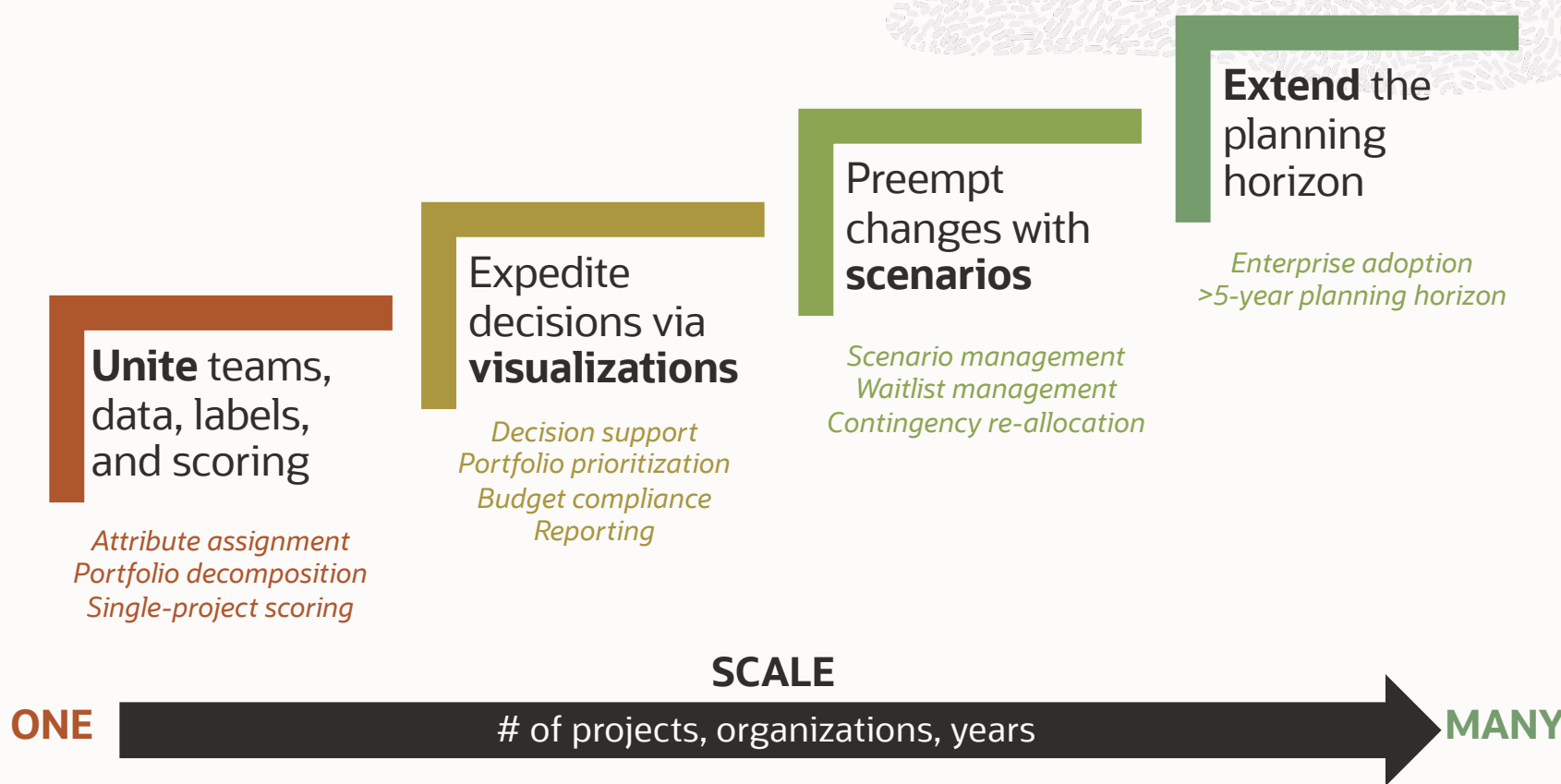


INPUTS	PREPARATION	EXPLORATION	OPTIMIZATION
<ul style="list-style-type: none"> <li>• Overview</li> <li>• Corporate Mission, Vision, &amp; Values</li> <li>• <b>Corporate Goals</b></li> <li>• Corporate Capital Plan</li> <li>• Safety, Compliance, &amp; Regulatory Requirements</li> <li>• Market Analysis</li> <li>• Environment, Social, &amp; Governance Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Overview</li> <li>• P1. Define Portfolio Objectives</li> <li>• P2. Define Portfolio Management Process</li> <li>• P3. Define Portfolio Oversight Process</li> <li>• P4. Define Portfolio Management Roles &amp; Responsibilities</li> <li>• P5. Define Portfolio Management Personnel</li> <li>• P6. Identify Portfolio Information Management System</li> </ul>	<ul style="list-style-type: none"> <li>• Overview</li> <li>• E1. Engage Internal Parties for Portfolio Exploration</li> <li>• E2. Engage External Parties for Portfolio Exploration</li> <li>• E3. Collect Ongoing Projects Information</li> <li>• E4. Assess Projects and Portfolio Performance Against Benchmarks</li> <li>• E5. Collect Ongoing Project Improvement Initiatives</li> <li>• E6. Identify New Projects</li> <li>• E7. Categorize Projects</li> <li>• E8. Assess Project Preliminary Risks and Feasibility</li> <li>• E9. Evaluate Profitability and Cashflow</li> <li>• E10. Conduct Preliminary Resource Availability Analysis</li> <li>• E11. Conduct Preliminary Qualitative Analysis</li> <li>• E12. Filter Feasible New Projects</li> <li>• E13. Consolidate Portfolio Projects</li> </ul>	<ul style="list-style-type: none"> <li>• Overview</li> <li>• O1. Score Projects</li> <li>• O2. Select Projects</li> <li>• O3. Analyze Strategic Portfolio Scenario</li> <li>• O4. Level Resource Requirements</li> <li>• O5. Level Cashflow and Financial Requirements</li> <li>• O6. Optimize Portfolio Schedule</li> </ul>



# Like the vision, the portfolio management journey is about the future

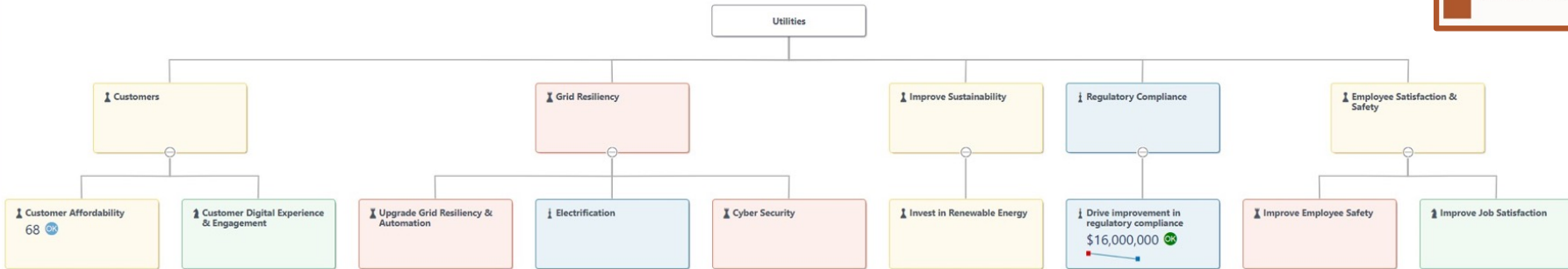
Disconnected, Inconsistent, Uncontrolled, Inefficient, Inaccurate



Collaborative, Integrated, Consistent, Governed, Transparency  
Efficient, Scalable, Traceable, Governance, Flexible



Strategy Type  Increasing Revenue  Operating Cost Efficiency  Goals  Risk Mitigation



**Unite** teams, data, labels, and scoring

Show Color for Strategy Type

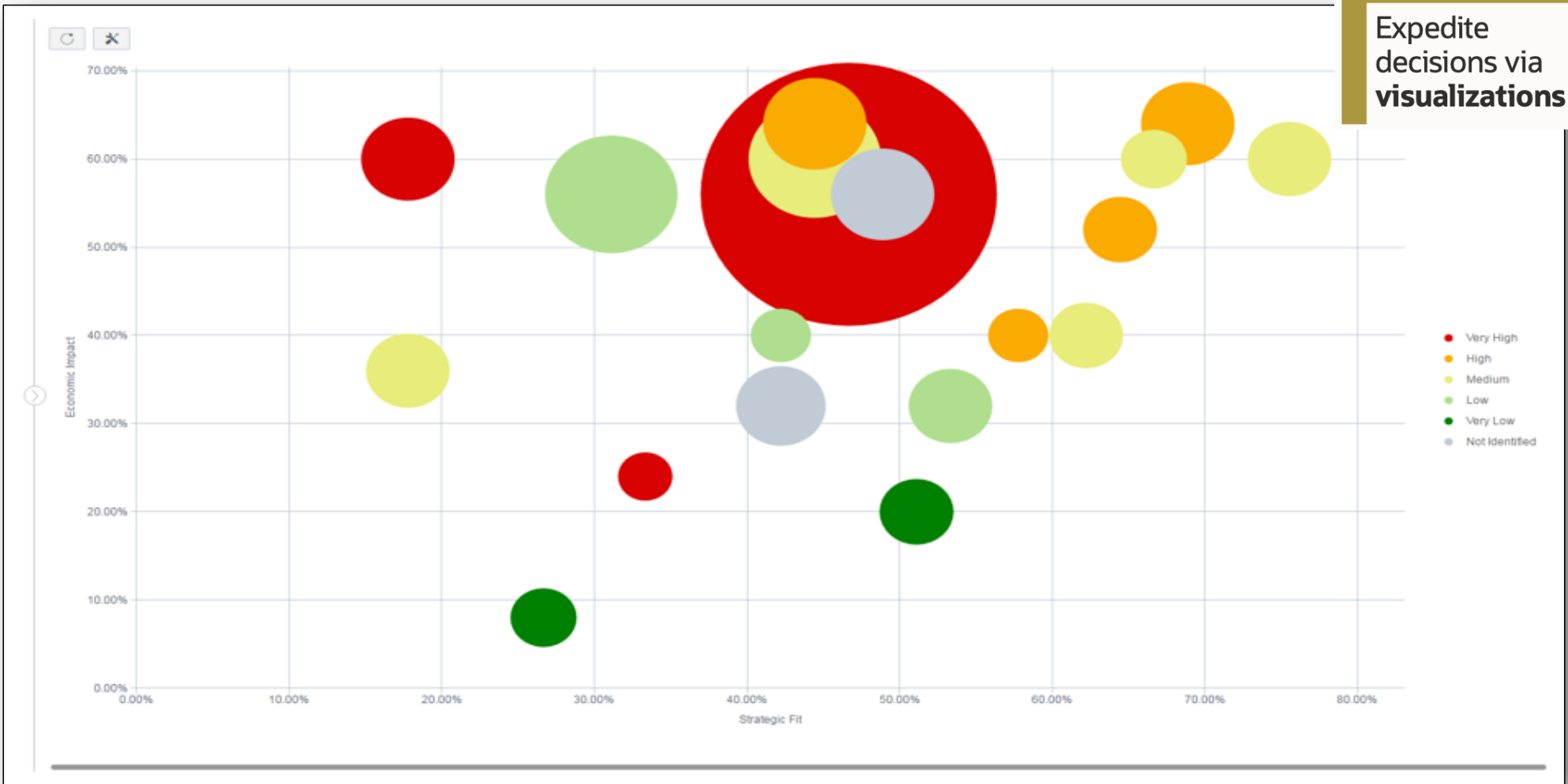
Projects

Name	Percentage Alignment	Planned Budget	Planned Duration	Evaluation Score	Planned Budget
Eikhart U1 Effluent Monitoring Upgrades	100%	\$1,000,000	261	79%	\$1,000,000
Comanche U1 NERC Installs	100%	\$3,500,000	301	73%	\$3,500,000
Comanche U2 NERC Installs	100%	\$3,500,000	324	73%	\$3,500,000
Comanche U3 NERC Installs	100%	\$3,500,000	324	73%	\$3,500,000
Comanche U2 CEMS	100%	\$1,500,000	260	69%	\$1,500,000
Comanche U1 CEMS	100%	\$1,500,000	260	69%	\$1,500,000
Comanche U3 CEMS	100%	\$1,500,000	325	57%	\$1,500,000





Expedite decisions via visualizations



Preempt changes with scenarios

Cost and Funds > Budget Planning 2018 (Approved)

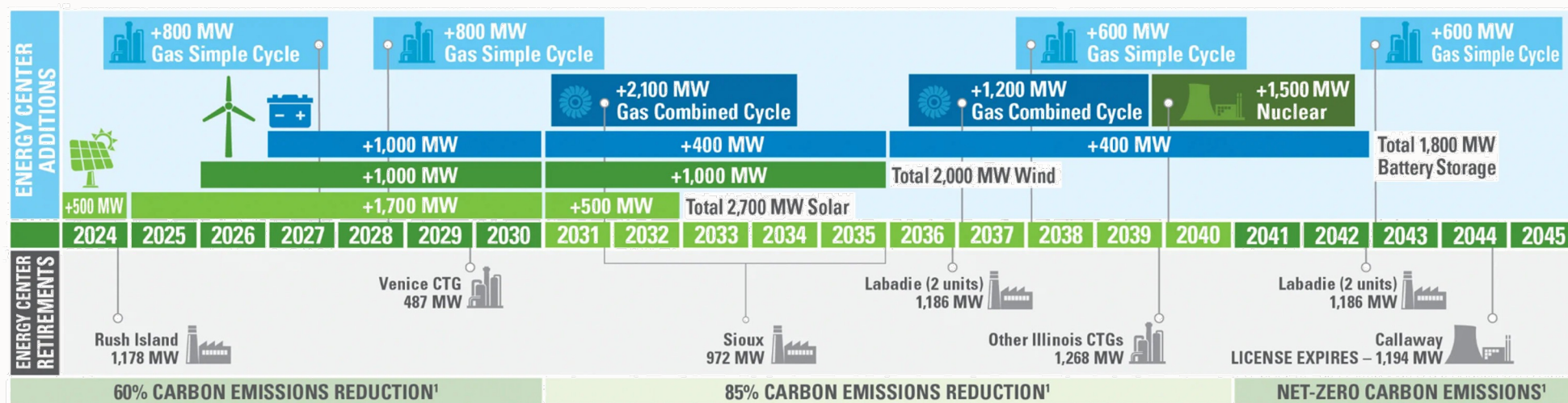
Initial All-in Strategy Aligned - In Planning

Actions		Project View	Waterline View	Waterline Options						
Name	Evaluation Score	Strategic Score	Risk Level	Conf	Start	Finish	Total Cost	2018	2019	
<b>Target Budget</b>							<b>\$8,000,000.00</b>	<b>\$4,000,000.00</b>	<b>\$3,000,000.00</b>	
<b>Proposed Budget (15 of 27)</b>			0.00		01-Aug-14	31-Jan-23	<b>\$7,223,000.00</b>	\$3,629,334.00	\$2,456,668.00	
<b>Difference</b>							<b>\$777,000.00</b>	\$370,666.00	\$543,332.00	
<input checked="" type="checkbox"/>	⊕ Sample Proposal	31.16%	Not Identified	High	01-Feb-18	31-Jan-20	\$240,000.00	\$200,000.00	\$40,000.00	
<input checked="" type="checkbox"/>	⊕ Harbour Pointe Facility	82.00%	Medium	Medi	01-Aug-14	31-Jul-20	\$420,000.00	\$160,000.00	\$150,000.00	
<input checked="" type="checkbox"/>	⊕ Nesbid Building Expansion-1	69.00%	Low	High	01-Oct-15	31-Dec-19	\$300,000.00	\$150,000.00	\$125,000.00	
<input checked="" type="checkbox"/>	⊕ Juniper Building	72.17%	Medium	High	01-Feb-15	31-Jan-20	\$230,000.00	\$150,000.00	\$80,000.00	
<input checked="" type="checkbox"/>	⊕ Juniper Nursing Home-1	85.50%	Medium	Medi	01-Feb-18	31-Jan-23	\$250,000.00	\$125,000.00	\$50,000.00	
<input checked="" type="checkbox"/>	⊕ Harbour Pointe Assisted Living Center-1	32.33%	Medium	High	01-Aug-14	31-Dec-18	\$350,000.00	\$350,000.00		
<input checked="" type="checkbox"/>	⊕ Nesbid Building Expansion	58.84%	Low	High	01-Oct-15	30-Sep-20	\$100,000.00	\$100,000.00		
<input type="checkbox"/>	⊕ Multi-Platform Content Consolidation	34.67%	Not Identified	Low	01-Jan-18	31-Dec-20	\$1,500,000.00	\$500,000.00	\$500,000.00	
<input checked="" type="checkbox"/>	⊕ VR Implementation	65.83%	Not Identified	Medi	01-Mar-18	30-Apr-21	\$578,000.00	\$213,334.00	\$41,668.00	
<b>Waterline: Proposed Budget is less than \$5,000,000.00</b>										
<input checked="" type="checkbox"/>	⊕ Embed and Optimise Document Management...	20.00%	Not Identified	High	01-Dec-15	31-Dec-19	\$1,100,000.00	\$500,000.00	\$500,000.00	
<input checked="" type="checkbox"/>	⊕ Kickserv Next Generation Deployment	21.83%	Not Identified	Medi	01-Jan-17	31-Dec-21	\$1,750,000.00	\$700,000.00	\$750,000.00	
<input checked="" type="checkbox"/>	⊕ ReachSearch SEM Modernization	30.00%	Not Identified	Medi	01-Jan-17	31-Dec-21	\$730,000.00	\$356,000.00	\$220,000.00	
<input checked="" type="checkbox"/>	⊕ Logging Data Retention	20.00%	Not Identified	High	01-Jan-18	31-Dec-19	\$850,000.00	\$400,000.00	\$400,000.00	
<input checked="" type="checkbox"/>	⊕ Deploy MDM Service		Medium		16-Apr-18					
<input checked="" type="checkbox"/>	⊕ AP-test4		Not Identified		08-May-18					



**Extend the  
planning  
horizon**

## Preferred Plan Timeline



# CII & PMI risk management guidance



Implementation Resource 280-3

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## What's the Risk?

	LEVEL 1: IDENTIFICATION	LEVEL 2: DETERMINISTIC	LEVEL 3: PROBABILISTIC																																										
	<table border="1"> <thead> <tr> <th>Risk</th> <th>Category</th> </tr> </thead> <tbody> <tr> <td>Poor soil conditions may require deep foundations, resulting in cost increase.</td> <td>Cost</td> </tr> <tr> <td>Utility relocation delay could result in longer schedule.</td> <td>Schedule</td> </tr> </tbody> </table>	Risk	Category	Poor soil conditions may require deep foundations, resulting in cost increase.	Cost	Utility relocation delay could result in longer schedule.	Schedule	<p>HEAT MAP</p> <table border="1"> <tr> <td>E</td> <td>M</td> <td>M</td> <td>H</td> <td>H</td> <td>H</td> </tr> <tr> <td>D</td> <td>L</td> <td>M</td> <td>M</td> <td>H</td> <td>H</td> </tr> <tr> <td>C</td> <td>L</td> <td>L</td> <td>M</td> <td>M</td> <td>H</td> </tr> <tr> <td>B</td> <td>L</td> <td>L</td> <td>L</td> <td>M</td> <td>M</td> </tr> <tr> <td>A</td> <td>L</td> <td>L</td> <td>L</td> <td>L</td> <td>M</td> </tr> <tr> <td></td> <td>a</td> <td>b</td> <td>c</td> <td>d</td> <td>e</td> </tr> </table> <p>Probability vs Impact</p>	E	M	M	H	H	H	D	L	M	M	H	H	C	L	L	M	M	H	B	L	L	L	M	M	A	L	L	L	L	M		a	b	c	d	e	
Risk	Category																																												
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C	L	L	M	M	H																																								
B	L	L	L	M	M																																								
A	L	L	L	L	M																																								
	a	b	c	d	e																																								
<b>Definition</b>	<ul style="list-style-type: none"> <li>Identify risks and opportunities.</li> </ul>	<ul style="list-style-type: none"> <li>Analyze risk through single-point estimates of potential impacts.</li> </ul>	<ul style="list-style-type: none"> <li>Analyze risk through probability distribution estimates of potential impacts.</li> </ul>																																										
<b>Benefits</b>	<ul style="list-style-type: none"> <li>Generates list of project risks and opportunities.</li> </ul>	<ul style="list-style-type: none"> <li>Provides probability x impact matrix.</li> <li>Generates prioritized list of risks.</li> <li>Calculates expected value for contingency allocation of time or cost.</li> </ul>	<ul style="list-style-type: none"> <li>Provides cumulative probability distribution.</li> <li>Increases probability of meeting project targets.</li> <li>Project cost or duration is based upon desired level of certainty.</li> </ul>																																										
<b>Results</b>	<ul style="list-style-type: none"> <li>Identify, allocate, and manage risks.</li> <li>Communicate potential risks to project stakeholders.</li> <li>Transfer organizational knowledge to projects.</li> </ul>	<ul style="list-style-type: none"> <li>Make Go/No-go decisions based upon expected value.</li> <li>Prioritize risks to manage.</li> <li>Communicate risks intuitively and visually.</li> <li>Allocate resources to mitigate and manage the most significant risks.</li> </ul>	<ul style="list-style-type: none"> <li>Clearly communicate project cost or schedule uncertainty.</li> <li>Determine impacts of risk events on project performance.</li> <li>Determine likelihood of achieving project outcomes.</li> </ul>																																										
<b>Limitations</b>	<ul style="list-style-type: none"> <li>Does not quantify the impact or probability of occurrence of risk events.</li> <li>Cannot assess the impact of risk events on the project.</li> </ul>	<ul style="list-style-type: none"> <li>One-point estimate does not include uncertainty inherent in the risk.</li> <li>Is unable to communicate the collective impact of risks to achieve project targets.</li> </ul>	<ul style="list-style-type: none"> <li>Is dependent on validity of information input into the model and complexity of model.</li> </ul>																																										
<b>Requirements</b>	<ul style="list-style-type: none"> <li>Permits minimal investment of team members' time to collaborate and create risk register.</li> <li>Requires experienced facilitator, capable of identifying risks.</li> </ul>	<ul style="list-style-type: none"> <li>Requires increased investment of time (2-5x Level 1 investment) to develop the single-point probability and estimated impact of each identified risk.</li> <li>Requires relevant experience and/or historical data.</li> <li>Requires experienced facilitator who can elicit expected probability and impact.</li> </ul>	<ul style="list-style-type: none"> <li>Requires further investment of time (6-15x Level 1 investment) for in-house or outsourced expert to perform and analyze quantitative simulation.</li> <li>Requires experienced facilitator who can elicit multi-point estimates of probabilities and impacts of risks.</li> </ul>																																										



# Risk breakdown structure

Plan Risk Management

Summary & Settings for Risk

Risk

Defaults Field Labels Configured Fields Codes Workflow Actions Forms

+ Add Code Assign...

Name *	ID *	Owning Workspace	Sharing Method	Color
⊙ Risk Breakdown Structure	RBS_PMSD	Production - Production	Automatic	
⊙ Risk PESTLE Code	RISK_PESTLE_CO...	Production - Production	Automatic	

Total: 2 | Download

Next, let's look at a Risk Breakdown Structure.

Click Next >



# Risk registers

Identify Risks

Perform Qualitative Risk Analysis

Perform Quantitative Risk Analysis

Plan Risk Responses

Monitor Risks

The screenshot displays the Oracle Risk Register interface. At the top, it shows the Oracle logo and the project name 'Wrotham School ICSRA'. Below this is a search bar and a 'Risk > Risk Register' breadcrumb. The main area contains a table with columns for Name, ID, Pre-Response Score, Post-Response Score, Status, Type, Pre-Response Probability, and Pre-Response Schedule. The 'HVAC Shortage' risk (ID R4) is highlighted in green. Below the table, there are tabs for 'Risk Details', 'Response Actions', 'Probability', 'Schedule Impact', 'Cost Impact', 'Impacted Activities', 'Codes', 'General', 'Weather', 'Related Items', and 'Location'. The 'Impacted Activities' tab is selected and highlighted with a red box. A blue callout box points to this tab with the text: 'Click Impacted Activities'. Below the tabs, the 'General' tab is active, showing fields for Name (HVAC Shortage), ID, Manager (Ned Chen), Type (Threat), Status (Open), Identified Date, and Identified By.

Name	ID	Pre-Response Score	Post-Response Score	Status	Type	Pre-Response Probability	Pre-Response Schedule
High Winds	R12			Open	Weather		
Wet Weather	R11			Open	Weather		
Frost	R13			Open	Weather		
Window manufacturing delay	R9	3	1	Open	Threat	M (40.00% - 60.00%)	VL (0d - 5d)
Failed electrical inspection	R8	3	0	Open	Threat	L (20.00% - 40.00%)	VL (0d - 5d)
Permit delay	R7	2	2	Open	Threat	VL (0.00% - 20.00%)	M (10d - 20d)
Foundations Subside	R1	6	2	Open	Threat	L (20.00% - 40.00%)	M (10d - 20d)
Poor understanding and detail in specification	R3	20	1	Open	Threat	M (40.00% - 60.00%)	M (10d - 20d)
Brick Supply Shortage	R2	10	0	Open	Threat	M (40.00% - 60.00%)	M (10d - 20d)
Contract Delay	R5	6	2	Open	Threat	L (20.00% - 40.00%)	M (15d)
Concrete supply constrained	R6	2	1	Open			
Use Lean Construction Methods	R10	20	56	Open			
Reuse previous design work	R4	24	12	Open			
<b>HVAC Shortage</b>		5	5	Open			

A risk can be assigned to multiple activities. Each activity can have multiple risks assigned to it.

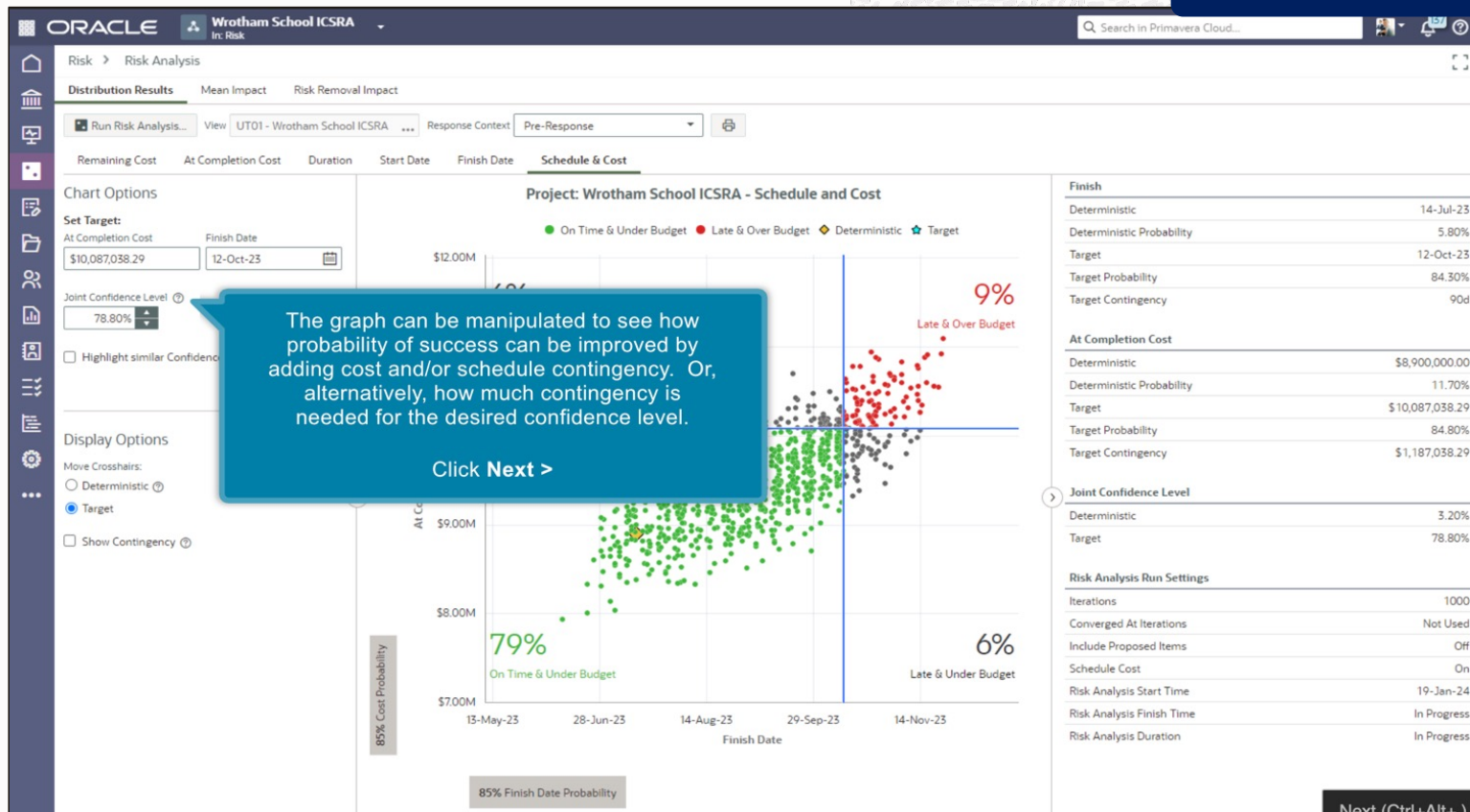
Click Impacted Activities



# Probabilistic analysis

Perform Quantitative Risk Analysis

Implement Risk Responses



# Agenda

**Industry  
challenges**

**Oracle's answer**

**AI for project  
delivery**

**The Oracle  
Ecosystem**

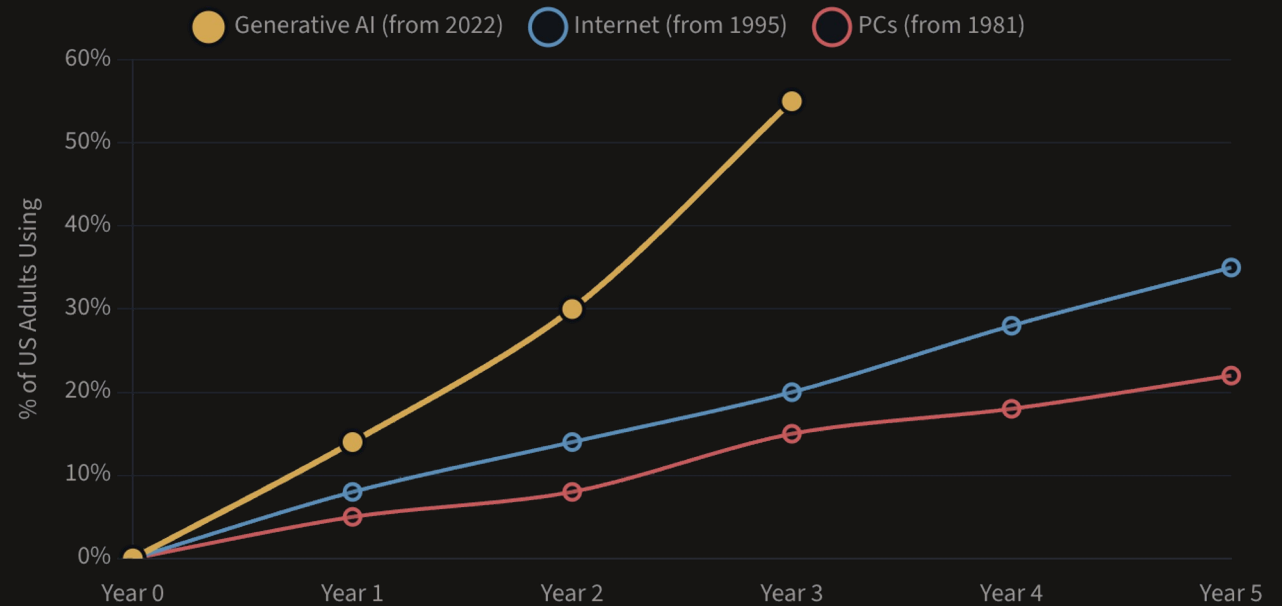
**Industry Lab**



# AI's early adoption vs. other tech

## Technology Adoption: Years After Mass-Market Launch

GENERATIVE AI vs. PCs vs. INTERNET – U.S. ADULTS



Sources: NBER Working Paper 32966 (Bick, Blandin, Deming), St. Louis Fed, CPS data

# Advisor for Safety: Safety Monitoring

Racoon City

Month January 2024 ▾



Alley.jpg

Image 2 of 6

Q Search

Confidence All Review Status All

- High Extension Ladder Needs Review ...
- High Excavator Needs Review ...
- High Wood Needs Review ...
- Medium Gas Tanks Needs Review ...
- Low Exposed Hole Needs Review ...

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10-Jan-2023

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15-Jan-2023

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2D Image

Uploaded  
15-Jan-2023

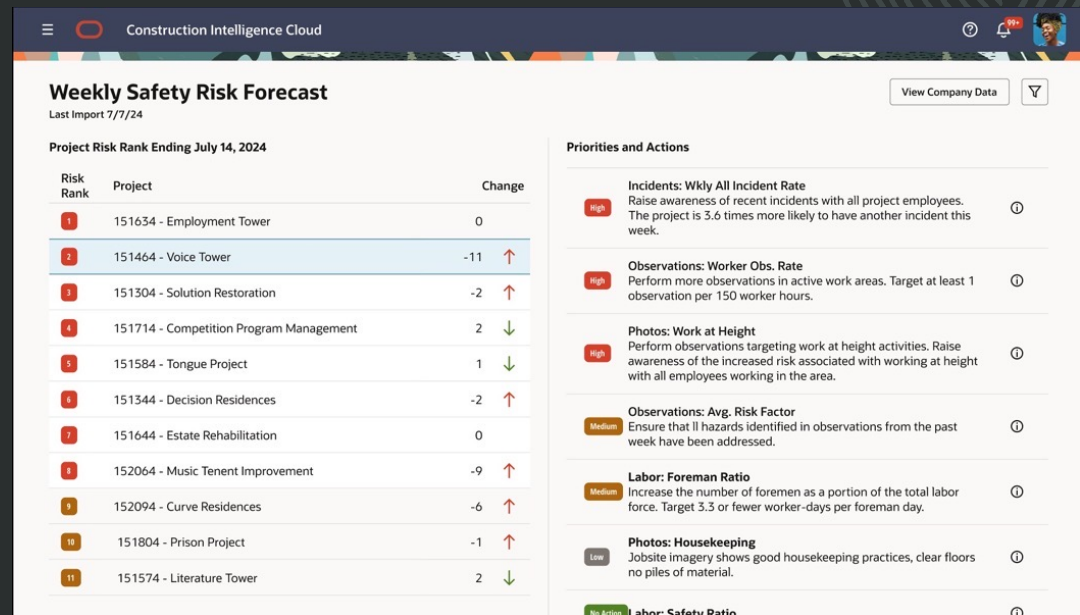
Tags  
5



# Advisor for Safety: Predictive Safety Analytics

## BUSINESS VALUE:

- Moves enterprise safety programs from being reactive to proactive.
- Identifies safety hazards and predicts the projects at greatest risk of a safety incident.
- Provides recommendations for risk mitigation.



# AI in Oracle Aconex

## Safety Observations and Predictive Safety

- Implement Observation-based safety program
- Run AI-powered predictive safety program

## In active development or limited release

### Document meta-data extraction

- Identify key document data in drawing title blocks, content to auto-populate document register

### AI powered search

- Enable natural language search tied to query outputs

The image displays three screenshots from the Oracle Aconex software interface. The top screenshot, titled "Risk Level vs Incident History 151634 - Voice Tower", shows a line graph of risk level over time from July 2020 to July 2023. A callout box for the week ending 12/27/2022 indicates a Project Rank of 15, Risk Level of 42, 1 Minor Incident, and 0 Recordables. Below the graph is a table of incidents with columns for Date, ID, Type, Injury, OSHA Status, Severity, and Reported Late. The bottom screenshot shows a search results table for "Temporary Files" with columns for File Name, Candidate Doc No, Revision, Status, Title, and Date Uploaded. The table lists four documents related to a project plan and section.

Date	ID	Type	Injury	OSHA Status	Severity	Reported Late
12/24/2022	IN20011421	Bodily harm	Abrasions, scratches	First aid	3.0	No
01/15/2023	IN20011890	Bodily harm	Bruises, contusions	Recordable	4.0	No
02/01/2023	IN20011926	Bodily harm	Abrasions, scratches	First aid	3.0	No
02/15/2023	IN200112024	Bodily harm	Abrasions, scratches	First aid	3.0	No
04/01/2023	IN200112284	Bodily harm	Bruises, contusions	Lost time	4.0	Yes
04/06/2023	IN200112323	Bodily harm	Crushing/pinching...	Recordable	3.0	No

File Name	Candidate Doc No	Revision	Status	Title	Date Uploaded
428-20C-3A-S1-0752_T...	428-20C-3A-S1-0752	A		TEMPORARY OSD/SW/SUO BASIN PLAN AND SECTION	06/07/2025
428-20C-3A-S1-0902_E...	428-20C-3A-S1-0902	A		EROSION AND SEDIMENT CONTROL PLAN SHEET 2 OF 2	06/07/2025
428-20C-DA-S1-0052_B...	428-20C-DA-S1-0052	A		BULK EARTHWORKS PLAN SHEET 2 OF 2	06/07/2025
428-20C.DA.S1-0602_SI...	428-20C.DA.S1-0602	A		SIGNAGE AND LINEMARKING PLAN SHEET 2 OF 2	06/07/2025



# AI in Oracle Primavera Cloud

## SCHEDULE GENERATION FROM RFP CONTENT

- Saves time by evaluating RFP document content, summarizes the information and develops the initial preliminary schedule.

## OPC HELP

- Gives instructions in response to natural language queries, which helps users -- especially ones that are not in the solution every day.

**Document Summary**  
Request for Proposal

**Basic Project Information**

Project Name STATE UNIVERSITY DINING SERVICES BUILDING	Project ID STATE UNIVERSITY DINING SERVICES BUILDING
Location Pierre, SD	Estimated Construction Cost approximately \$32,000,000
Owner State University	Engineers Pierre ESG, Inc.
Architects RGG Architects, Inc.	Facility Type Higher Education&#x2F;Research
Project Type New Construction	Delivery Method Construction Manager at Risk (CMAR, CMR, CM@R, CM@r)
Contract Type Guaranteed Maximum Price (GMP)	

**Summary Schedule Information**

Proposal Issued Date April 23, 2025	Pre-Proposal Meeting Date May 2, 2025
Pre-Proposal Meeting Mandatory Site Walkthrough Mandatory Date June 6, 2025	Close of Q&A May 16, 2025
Proposal Due Date June 6, 2025	Award Date June 20, 2025
Estimated Construction Start Date August 1, 2025	Estimated Construction End Date June 30, 2026
Substantial Completion Date July 15, 2026	Final Completion Date August 31, 2026

**Generate Schedule from Summary**  
Choose the activities that you want to include in the generated schedule. Default activity selections are based on information from the document summary.

- Administrative
  - Award
  - Final Completion
  - Issue RFP
  - Notice to Proceed
  - Pre-Proposal Meeting
  - Proposal Due
  - Start Construction
  - Substantial Completion
- Closeout
  - Punchlist
- Construction
  - AHJ Inspections
  - Ceilings
  - Commissioning
  - Conveying Equipment
  - Construction Cleaning
  - Demolition
  - Drainage
  - Drywall & Finishes
  - Frnshline Wrnk

Cancel Generate

# AI in Oracle Primavera Unifier: Business Process and Workflow Summarizers

## BUSINESS PROCESS SUMMARIZATION

- Summarizes Business Processes (ex: a group of change orders, or issues) to be able to understand the topics involved without clicking into each one

## WORKFLOW SUMMARIZATION

- Gives a day-in-the-life of a record to be able to determine workflow path, bottlenecks, current status, next steps, etc

The screenshot shows the Oracle Primavera Unifier interface. At the top, it displays 'North America Oracle PRJ019'. Below that, a breadcrumb trail reads 'Wood Shores > JHC Faculty Building > PRJ001'. A toolbar includes options for 'View: All Records', edit, refresh, print, search, and help. A table is visible with columns for 'Vendor Name' and 'Amount'. A 'Summary' pop-up window is overlaid on the table, containing the following text:

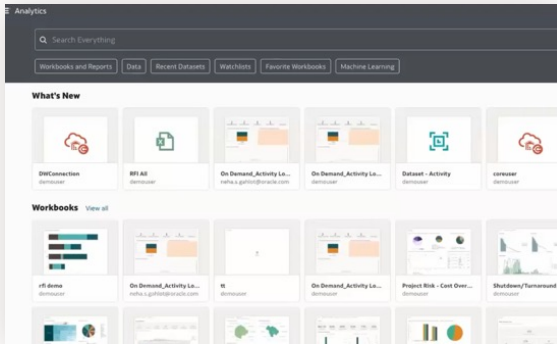
		Vendor Name	Amount
From CSV Template...			
From Microsoft Excel Template...	low	Cartwright Inc Design	\$1,500.00
Test LIC from Test PCO	123456798 Test 3	Bashirian, Kemmer an...	\$0.00
Contract 19 Test	123456798 Test 3	Bashirian, Kemmer an...	\$0.00
test	123456798 Test 3	Bashirian, Kemmer an...	\$0.00
5	111 Test Change order	Bashirian, Kemmer an...	\$0.00
4	111 Test Change order	Bashirian, Kemmer an...	\$0.00
CO creation 2	111 Test Change order	Bashirian, Kemmer an...	\$0.00

**Summary** ×  
Generated by AI

The incident involves a reported issue where deleting a category used as a default value for a menu item custom field causes the field to still reference the deleted category. The customer service team initially assigned the investigation to IDC and later discussed the complexity and potential impact of the issue. There were considerations about making changes on the client side, but it was ultimately decided that the issue would not be fixed there. The investigation continued with various activities and attempts to resolve the problem, involving multiple teams and ongoing debugging and code changes. The incident was still open at the last recorded activity.

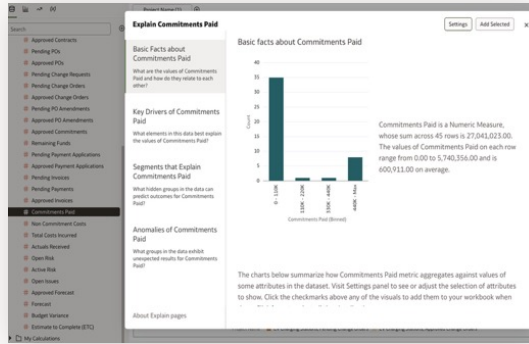


# Examples of AI Powered Features in CE Analytics



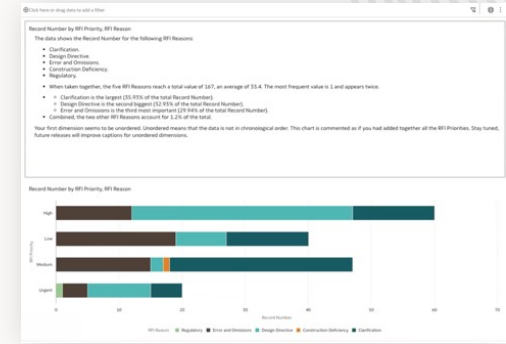
## Home Page Ask & AI Assistant

Simply ask questions about your data and get answers. Instantly access and generate relevant visualizations.



## Explain

AI generated visualizations explain the details of fields, including anomalies, patterns, etc.



## Language Narrative

Instantly add a narrative to a dashboard to further explain a visual.



How is my project performing against its approved budget, and what is driving any variance?

Which projects currently have unutilized budget funds, and how can these be reallocated to support projects at risk of overruns due to change orders or actual spending exceeding commitments?

Identify savings opportunities and prioritize by category

The screenshot displays the AIDP Decision software interface. It features a sidebar with navigation options like 'Foresight' and 'Needs Attention'. The main content area is divided into several sections:

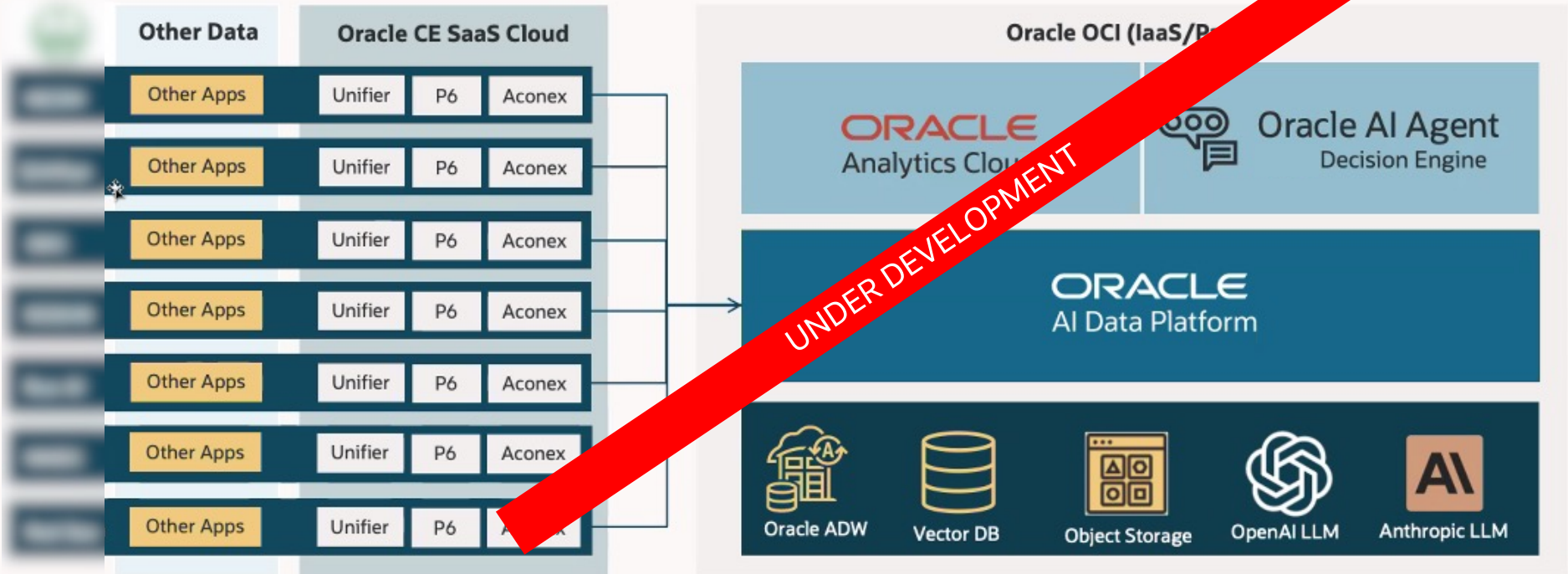
- Portfolio Budget:** Shows a \$42.6B shortfall and a \$206.4B budget change. It includes a 'Critical' status indicator and a 'Question: How is my project performing?' section.
- Project Budget:** Provides an 'Executive Summary' based on analysis of opportunities for strategic reallocation.
- TOP 10 SAVINGS OPPORTUNITIES - Ranked by SAR Savings:** A table listing various materials/commodities with their total spend, potential savings, savings percentage, and the number of projects affected.
- SAVINGS BY CATEGORY - Strategic Prioritization:** A table categorizing savings opportunities by priority (Urgent, High, Medium, Low) and category (Finishes, MEP, Building Envelope, Equipment, Metals, Interiors), along with recommendations.
- STRATEGIC RECOMMENDATIONS:** A list of immediate and high-priority actions, such as centralizing procurement for finishes and establishing framework agreements for MEP systems.

A prominent red diagonal banner across the center of the screenshot reads 'UNDER DEVELOPMENT'. At the bottom right, there is a 'Start Chat' button.

RANK	MATERIAL/COMMODITY	TOTAL SPEND (SAR)	POTENTIAL SAVINGS	SAVINGS %	PROJECTS
1	Fire Protection System	43.96 B	12.88 B	29.3%	63
2	Stone Cladding/Finish	21.23 B	10.41 B	45.9%	79
3	Ceramic Tile	17.51 B	8.01 B	46.5%	79
4	Curtain Wall System	18.56 B	7.98 B	43.0%	67
5	HVAC System	11.22 B	7.63 B	40.8%	66
6	Paint & Surface Coating	17.51 B	7.48 B	44.0%	79
7	Elevator	11.22 B	2.38 B	3.6%	76
8	Rebar	46.78 B	1.56 B	3.3%	17
9	Metals	22.51 B	0.90 B	4.0%	50
10	Interiors	16.22 B	0.64 B	3.9%	52

PRIORITY	CATEGORY	TOTAL SPEND	POTENTIAL SAVINGS	SAVINGS %	RECOMMENDATION
URGENT	Finishes	55.75 B	25.35 B	45.5%	Centralize sourcing
HIGH	MEP	117.23 B	22.66 B	19.5%	Framework agreements
HIGH	Building Envelope	18.56 B	7.98 B	43.0%	Consolidate vendors
MEDIUM	Equipment	65.55 B	2.38 B	3.6%	Volume negotiations
MEDIUM	Metals	66.88 B	2.11 B	3.2%	Long-term contracts
LOW	Interiors	13.78 B	0.50 B	3.6%	Optimize as opportunity

# Real World Example



## Live Proof of Concept for \$1.3tn program of works

Unifier/P6/Aconex/Autonomous DB/AI Data Platform/Analytics Cloud/Custom Integration & development



# Agenda

**Industry  
challenges**

**Oracle's answer**

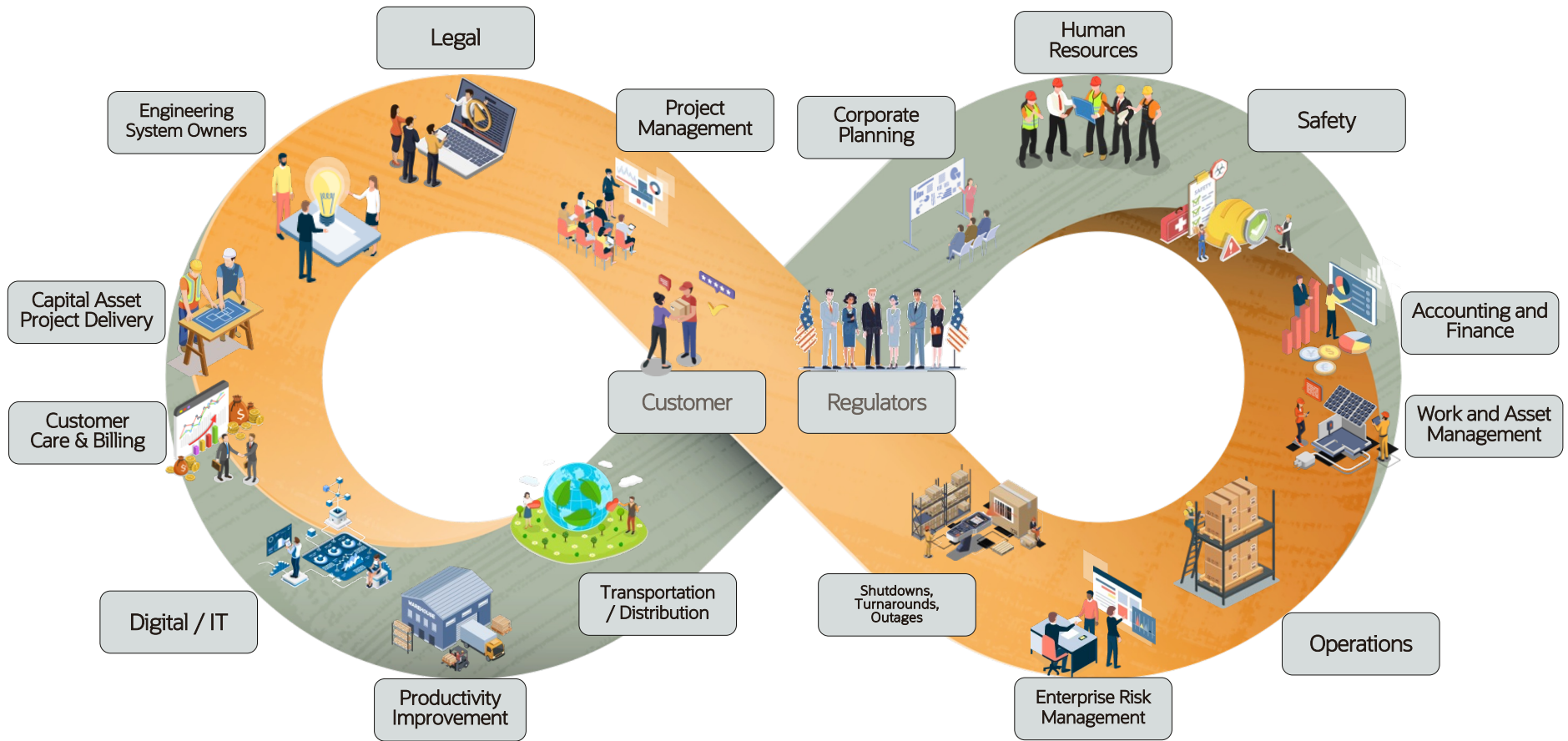
**AI for project  
delivery**

**The Oracle  
Ecosystem**

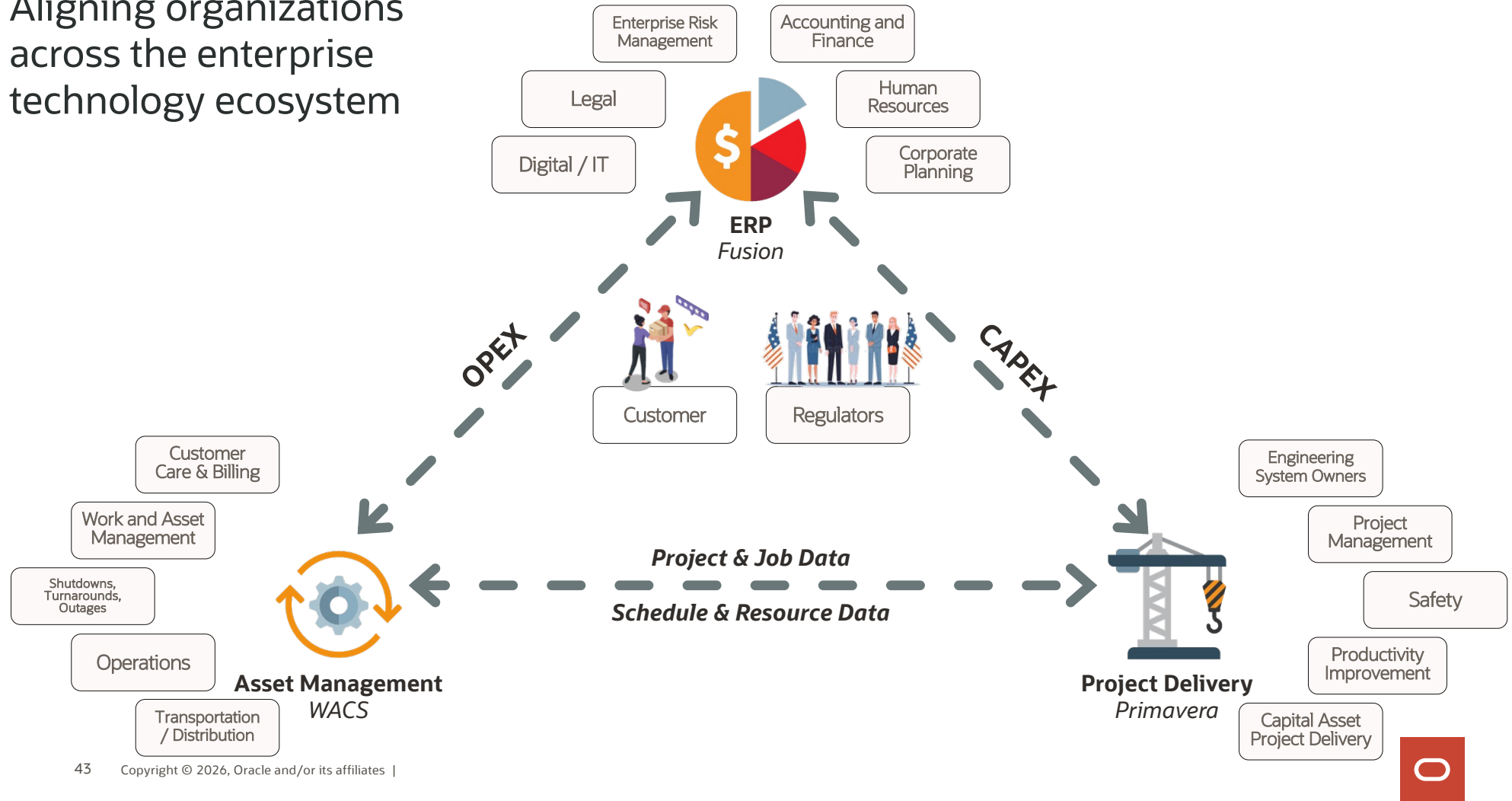
**Industry Lab**



# Sample owner organizational ecosystem



# Aligning organizations across the enterprise technology ecosystem





# Construction with Utilities

## Featuring

- ERP Financials & PPM
- CX4U & CPQ
- CCS
- Primavera Unifier

Automate the journey from customer opportunity, completion of construction to final billing for new utility services, supporting complex commercial needs and regulatory environments.

## Process Overview

- Capture/qualify new service opportunities, define scope & req.
- Estimate costs, generate quotes, manage contracts & approvals.
- Execute build, inspections, and update progress.
- Activate new assets, add service points, and transition to billing.

## Value

- ❖ Automation replaces manual handoffs - accountability throughout
- ❖ Faster time-to-service by connecting opportunity to operations.
- ❖ Improve cost control and project transparency at every step.
- ❖ Reduced risk with built-in compliance and approval workflows.
- ❖ Delivers seamless customer and stakeholder experience.





## Asset Replacement & Capital Planning

### Featuring

- ERP Supply Chain
- ERP HCM
- WACS
- Fusion Field Service (+ECP)
- Primavera
- ERP Finance

Enable data-driven decisions on asset maintenance versus replacement and optimize capital planning through analytics-driven integration across key Oracle platforms.

### Process Overview

- Visualize asset health through analytics
- Compare maintenance vs. replacement costs & risks
- Perform what-if analysis of options
- Plan and justify capital investments

### Value

- ❖ Informed, holistic asset investment decisions
- ❖ Improved risk management and regulatory compliance
- ❖ Reduced costs and optimized capital allocation
- ❖ Streamlined cross-departmental collaboration



## Customer to Grid

### Featuring

- Fusion CX (CX4U)
- Fusion Field Service (+ECP)
- Opower
- CCS (inc. CPM)
- ADMS (+ EnergyHub)

Unified customer engagement, device registration, field service, and flexible grid management. Follow a utility customer through the smart charger journey from promotion, installation and enrollment in direct load control events.

### Process Overview

- Engagement of EV owner to install smart charger
- Scheduling and tracking of installation engineer
- Promotion and enrollment in direct load control program
- Execution of load control event and settlement with customer

### Value

- ❖ Higher program enrollment rates
- ❖ Increased customer satisfaction scores
- ❖ Higher participation in demand management events
- ❖ Reduced cost to serve through greater automation
- ❖ Accelerated non wires alternatives to capacity constraints





# Revenue Intelligence

## Featuring

- ERP Finance
- CCS
- Opower
- CX4U
- Data Intelligence
- Oracle Payments (TBC)

A utility's financial health is tied to the financial health of its customers. This story starts on the balance sheet and shows how personalized customer engagement during affordability challenges contributes to the utilities' financial health.

## Process Overview

- General ledger, examination of receivables debt (owed by customers)
- Drilling down into accounts payable/receivable for root cause
- Find eligible customers for programs that increase ability to pay
- Highlight the engagement that follows and the results it delivers

## Value

- ❖ Boosts utility cash flow through targeted recovery.
- ❖ Connects customers to programs that help them pay.
- ❖ Reduces bad debt and fewer disconnections.
- ❖ Strengthens trust with proactive customer outreach.

# Agenda

**Industry  
challenges**

**Oracle's answer**

**AI for project  
delivery**

**The Oracle  
ecosystem**

**Industry Lab**





## Oracle Industries Innovation Lab Mission

—

Enable Oracle to collaborate with customers and partners across industries to co-innovate, experiment, and bring to life the power of transformative technologies.



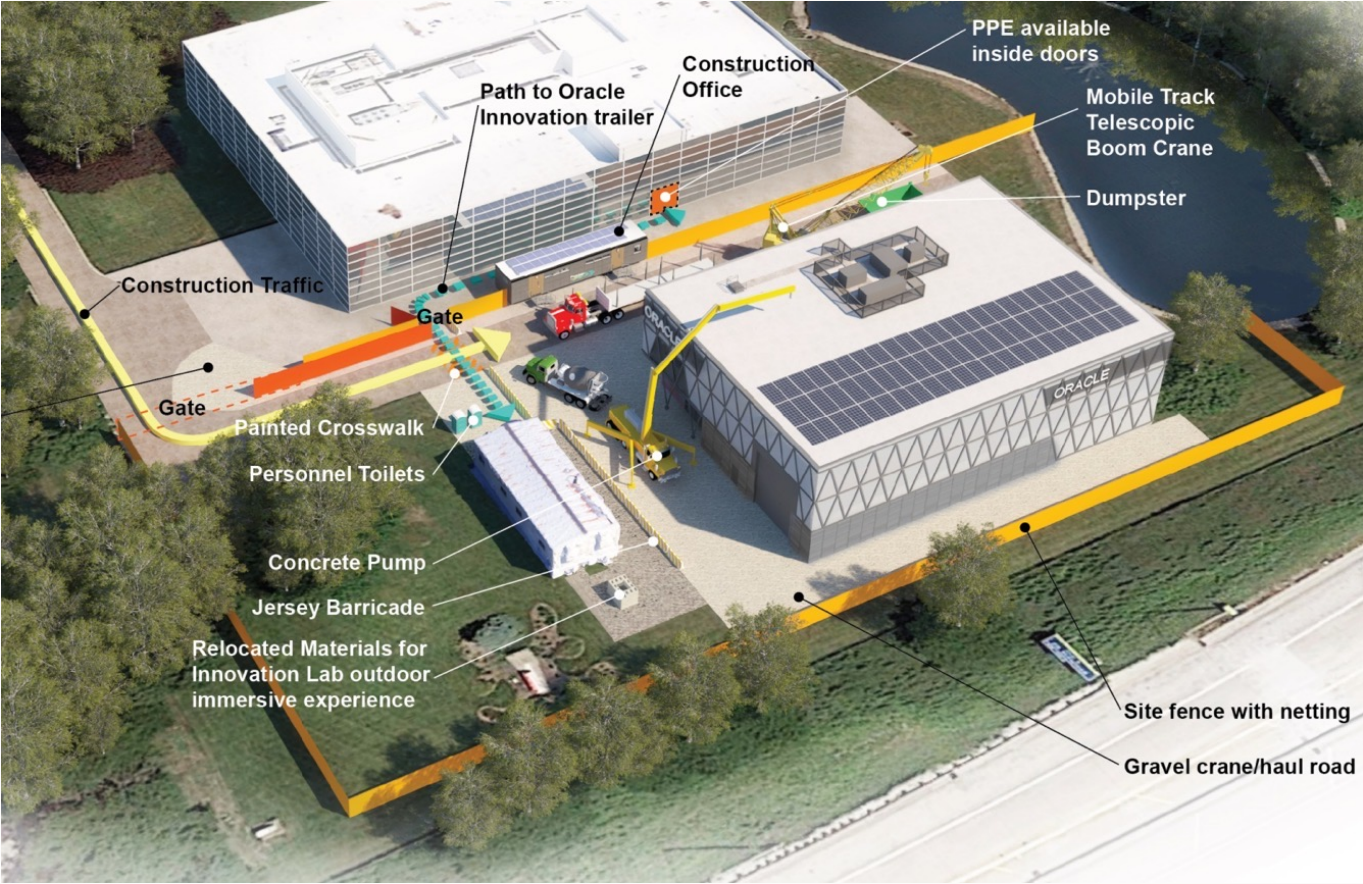
# Our Deerfield, IL (Chicago) Industry Lab technology partners



# Phase I (Construction & Engineering Innovation Lab)...where it all started



# Phase II (Industries Innovation Lab)...the vision



# “Pepper Construction Puts Oracle Construction and Engineering Solutions to the Test for Innovation Lab Build”

## Meet the Innovation Lab partners

Oracle’s technology ecosystem partners at the Innovation Lab delivered value-add capabilities to the technology stack to elevate project delivery to the next level.



[Pepper Construction case study](#)



**Let's check out the built product!!!**



# Oracle AI and Robotics for the Built World Forum 2026

## Explore the technologies transforming project delivery today and tomorrow

Technology continues to reshape how work gets done at the jobsite, with breakthroughs in AI, robotics, drones, reality capture, and other innovations continuing to enhance performance and improve project outcomes.

Join Oracle, our innovation partners, and your peers at our **AI and Robotics for the Built World Forum**, on May 20-21 at the Oracle Industry Lab in Deerfield, just outside Chicago. This exclusive event will delve into the latest technologies and practices that are helping unlock new insights and efficiencies in construction project delivery.

### Event Highlights

- Technology use case presentations
- Robotic partner technology and Customer presentations
- Insightful panel discussion on a variety of robotic technologies and the impact on the Build World
- Q&A sessions
- Lab experiences showcasing how we are making “art of the possible” a reality
- Oracle’s innovation partners to help you work through your digital journey

Airport: [O’Hare International](#)

Hotels: [Embassy Suites](#), [Courtyard by Marriott](#), [Hyatt Regency Deerfield](#)



**May 20**, 8:30 AM – 6:00 PM  
**May 21**, 8:30 AM – 2:30 PM



Oracle Industry Lab  
1405 Lake Cook Rd.  
Deerfield, IL 60015



# Thank you

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(314) 578-6986

