

Project delivery with Oracle's Smart Construction Platform and the ecosystem of innovation partners

Presenter

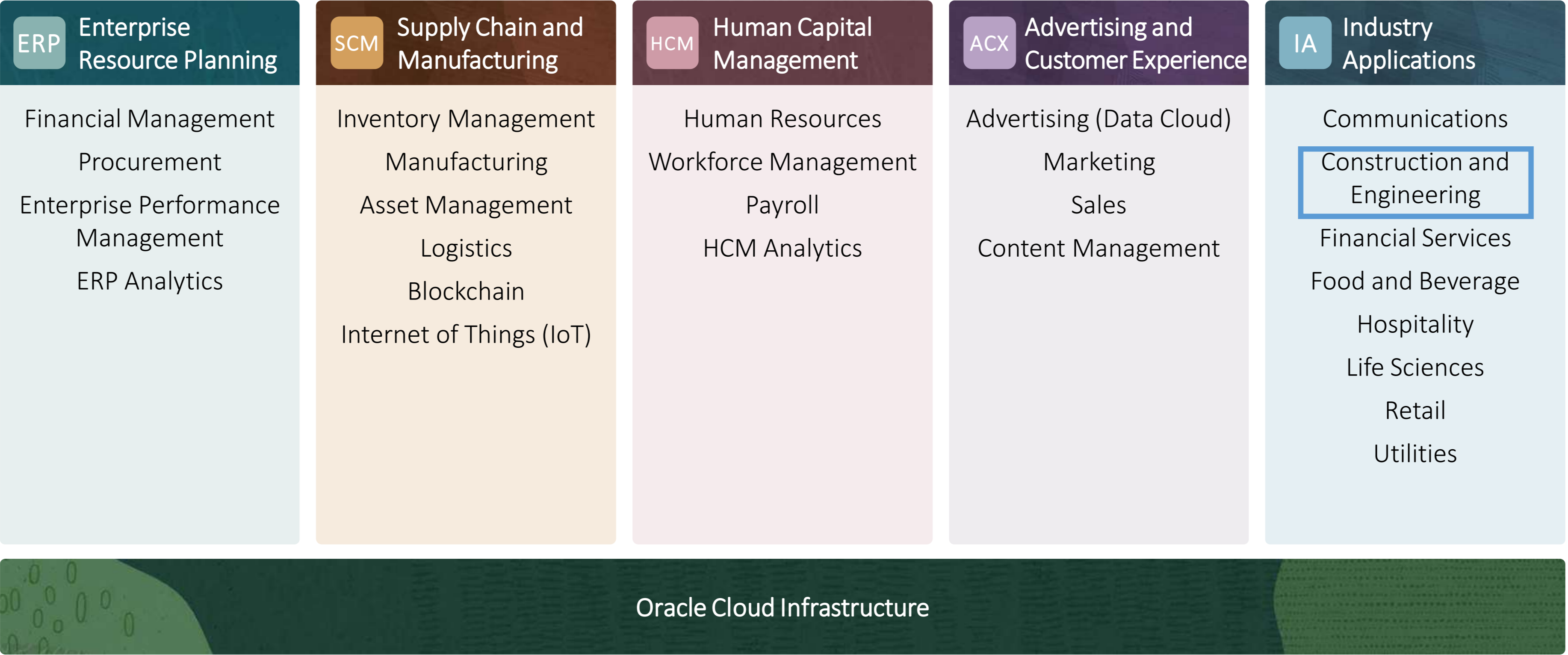


Geoff Roberts
Industry Strategy Director,
Oracle Construction and
Engineering

Our mission is to help people see
data in new ways, discover insights,
unlock endless possibilities.

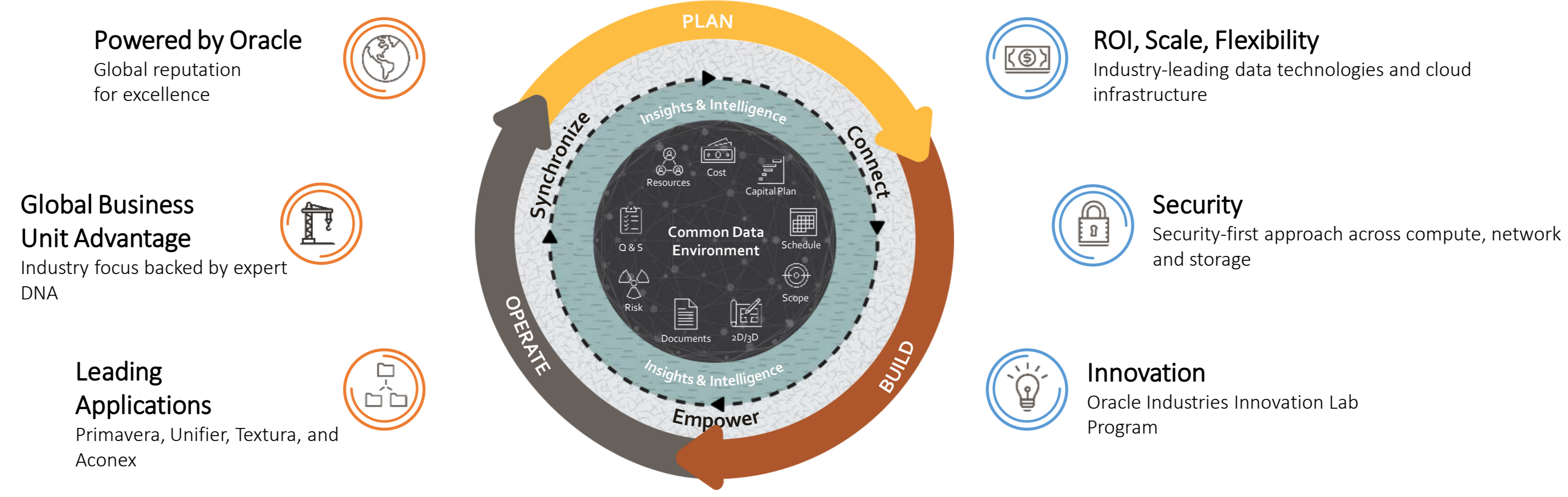


Oracle



Oracle Construction and Engineering

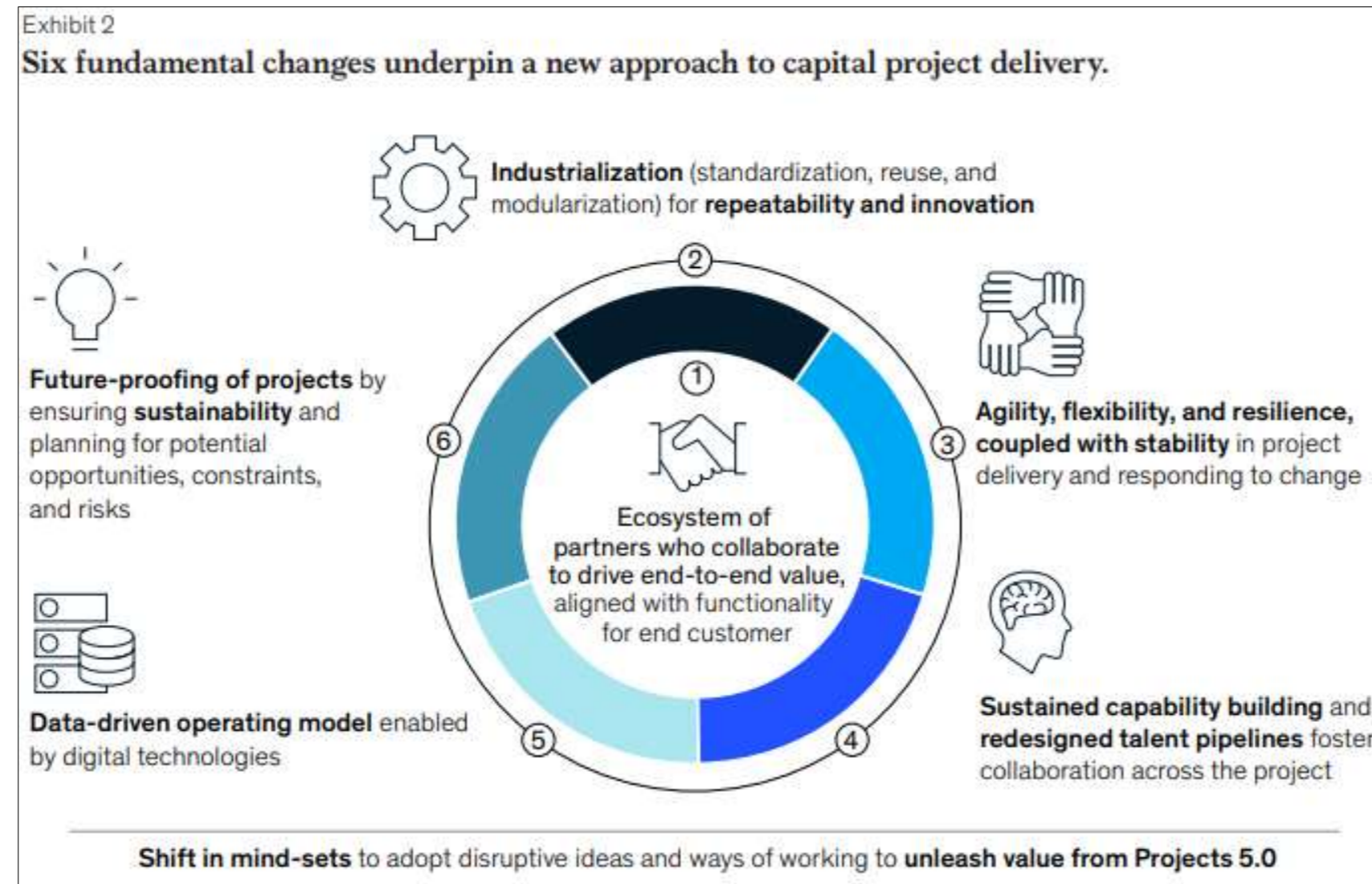
Smart Construction Platform



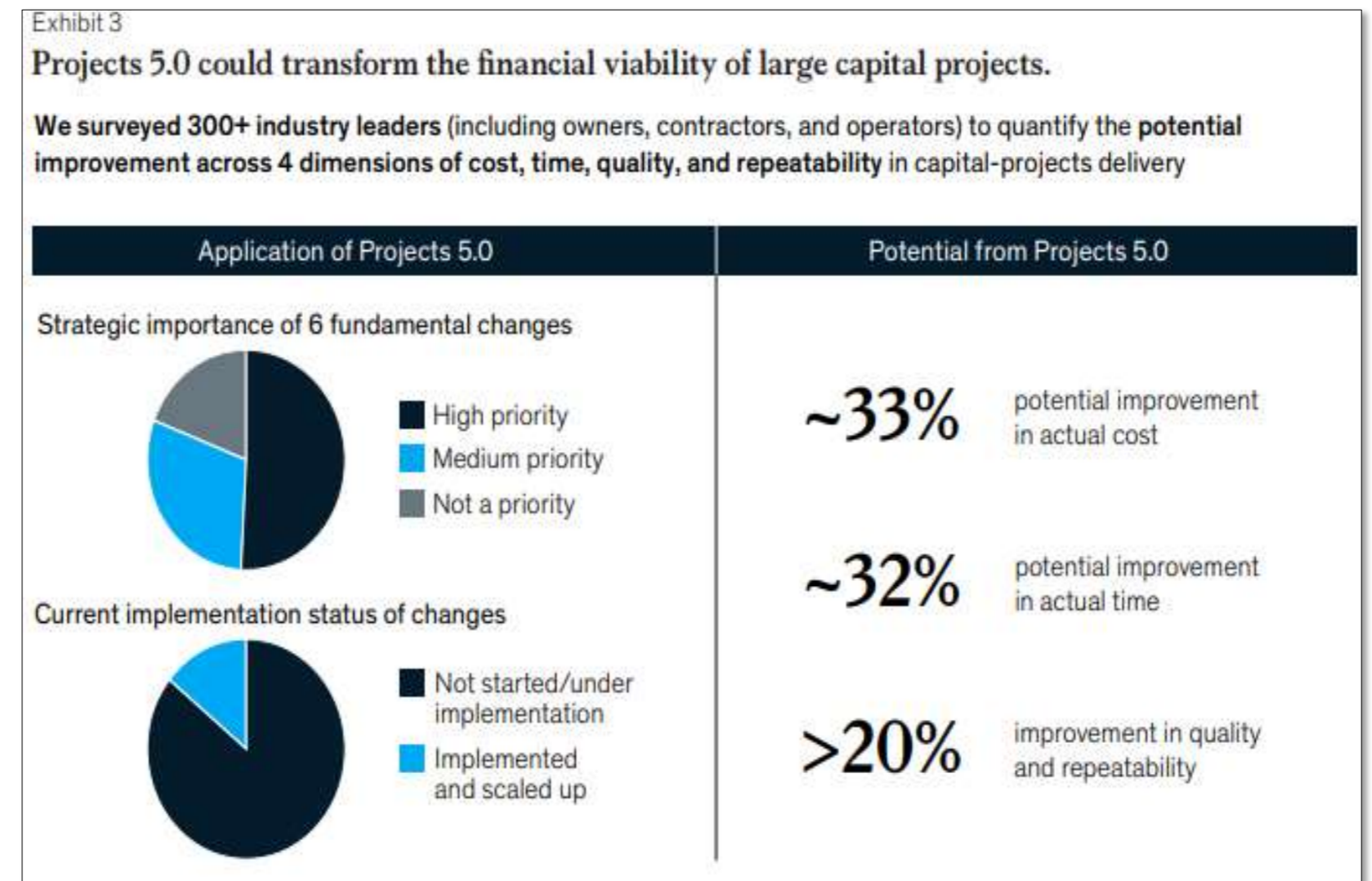
The importance of an integrated platform for Capital Project Delivery

Insights from McKinsey

A new approach to Capital Project Delivery
Six fundamental changes



Benefits of this new model
Measurable improvement potential



Benefits of an integrated platform

An industry view – importance of “golden thread of data”. The Hackitt Report



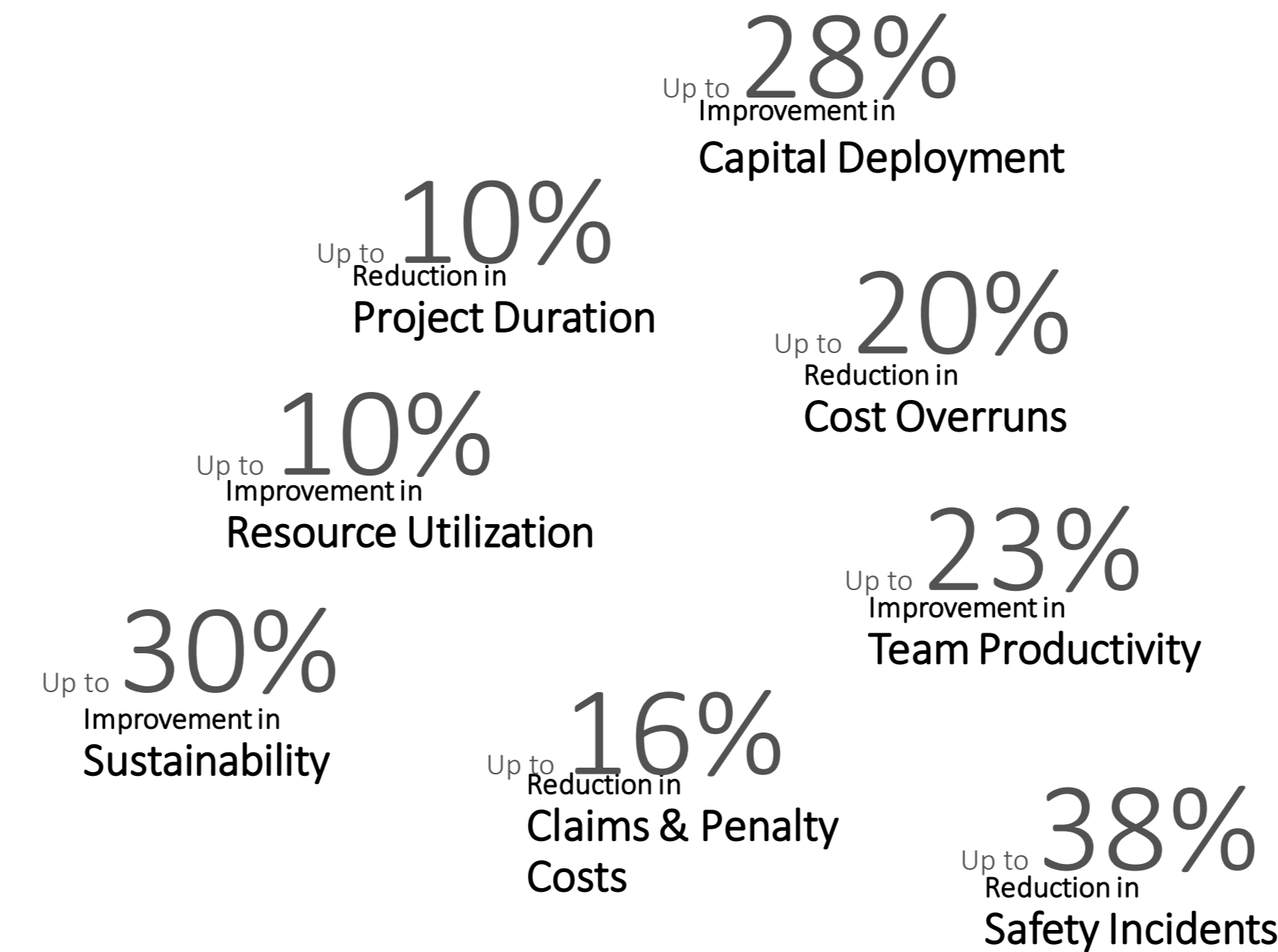
- A **‘golden thread’** of good quality information enables future building owners to better manage their buildings safely.
- As soon as detailed work commences the client needs to ensure that a **digital record** of the building work is established and a **Fire and Emergency File** is initiated.
- Both will need to be maintained throughout **design and construction** and be part of the **regulatory oversight process**.
- Formal handover will help enable **timely occupation**.
- This process ensures focus throughout the project, that the **‘golden thread’ of key information** is passed across to future building owners, resulting in **more effective safety management throughout the building life cycle.”**

Source: Building a Safer Future-The Hackitt Report – 2018 p.35

Oracle Smart Construction Platform

Drive performance, predictability, continuous improvement

- Maximize returns
- Build productively
 - Connect teams
 - Predict and mitigate risks
 - Automate processes
- Decide, learn, improve
- Operate efficiently



Source: Compilation of 3rd party benchmarks, actual customer outcomes, and Oracle Construction and Engineering Customer Strategy insights.

Product vision
Industry, technology, and innovation

Performance > Expectations

 Continuous Improvement

Predictability = Norm

Connected Empowered

Synchronized

Accelerated performance

Requires intelligent platforms

Point Solutions Solved Targeted Pain Points

- ✓ Basic Efficiencies
- ✓ Std Workflows



Individuals & Departments

First Gen Platforms Connected Teams

- ✓ Faster Decisions
- ✓ Fewer Errors



Project Teams

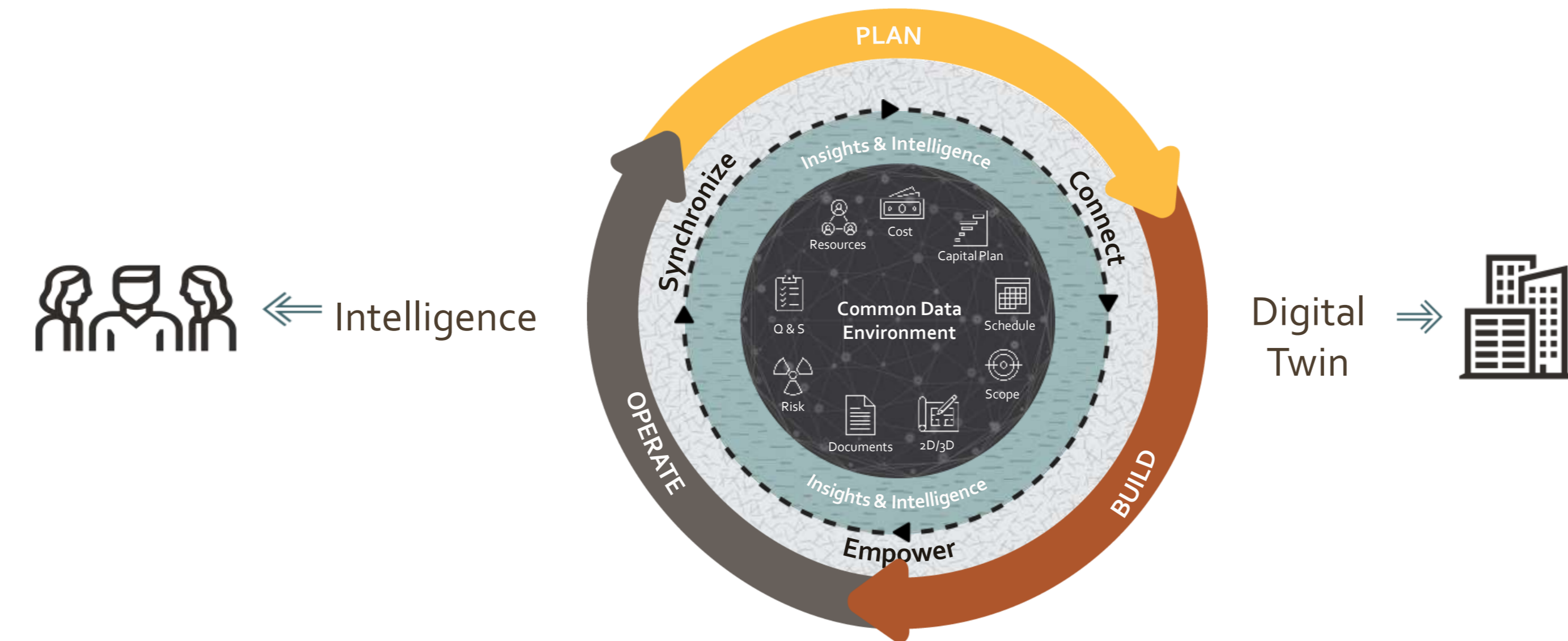
Intelligent Platforms Synchronize & Empower

- ✓ Unlock Data
- ✓ Automate Processes



Highly Responsive Ecosystems

Oracle Smart Delivery Platform



Oracle Smart Construction Platform

Drive performance, predictability, continuous improvement



Connect

Teams are **connected** across processes and data



Empower

Team members are **empowered** with data and intelligence to make informed, proactive decisions



Synchronize

Activities, people, and resources are **synchronized** throughout the project lifecycle



Connect

“

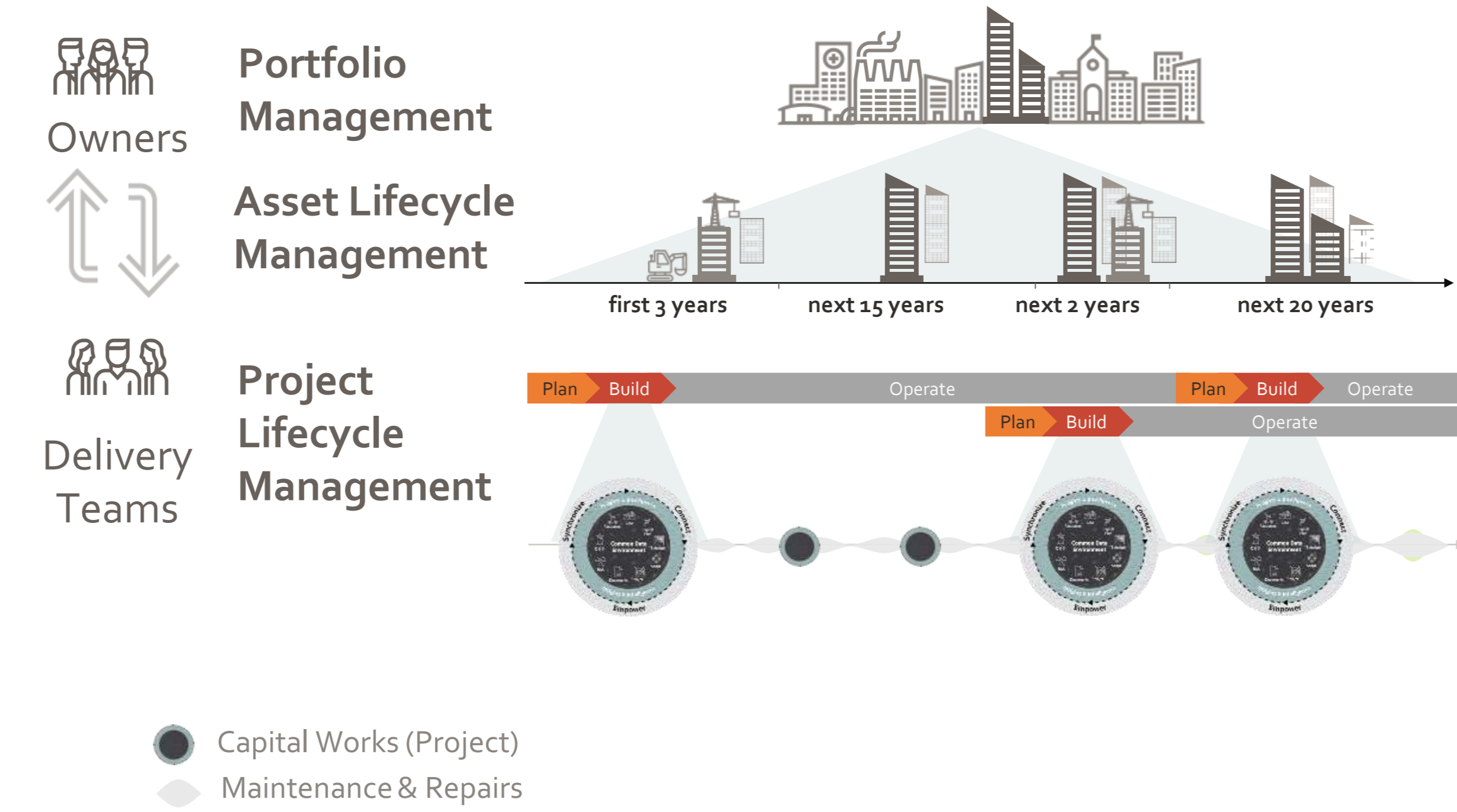
The Connect Plus consortium, including Balfour Beatty, Egis Road Operation UK and Edge Orbital Holdings Ltd., is responsible for maintaining the M25 Orbital Motorway around London has significantly sped workflows, correspondence and contract management. “The interdependencies created from cross organizational collaboration creates a more collaborative team.”

Simon Wilkinson
Commercial Manager, Connect Plus



Connect portfolios, asset and project life cycles

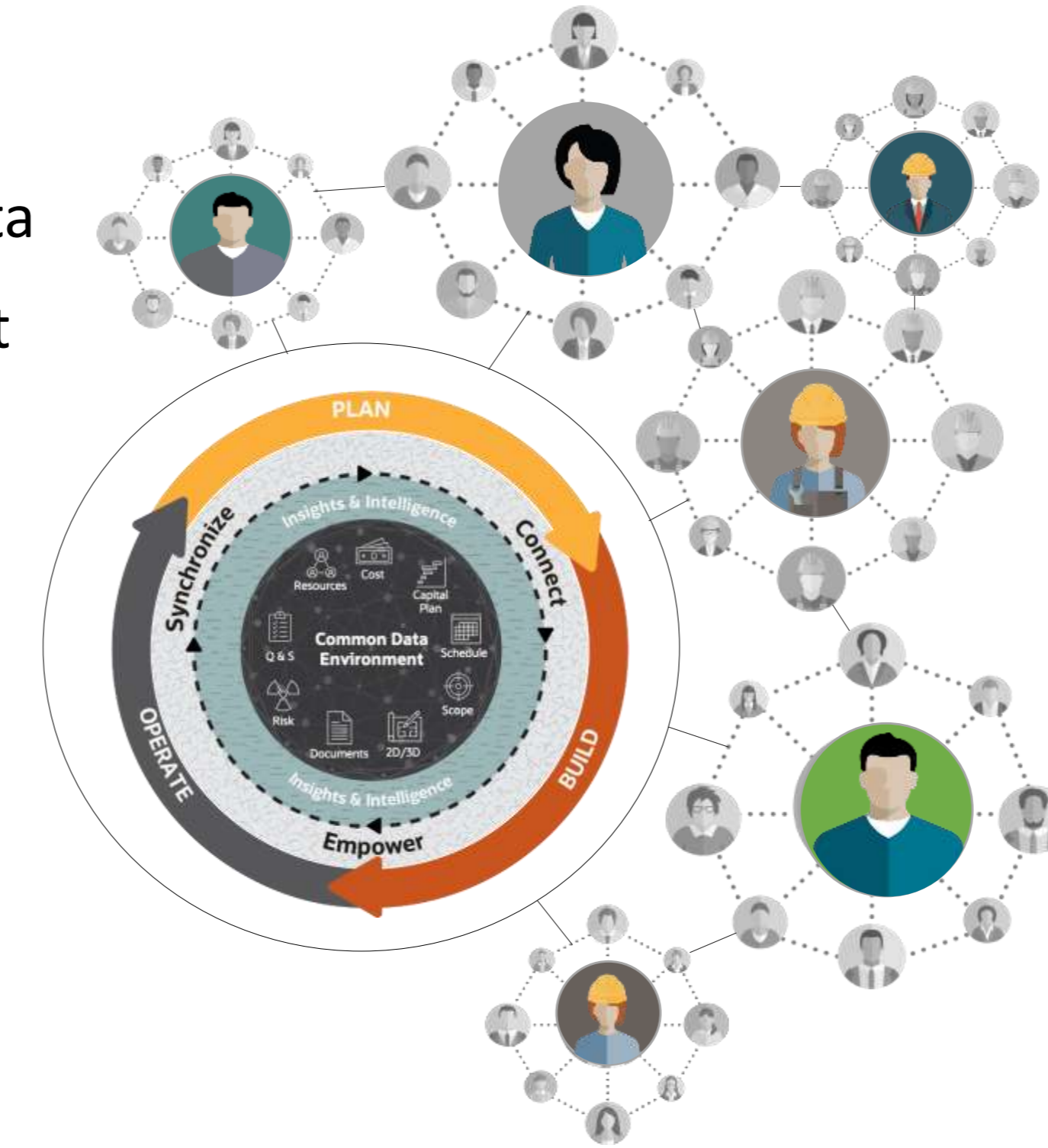
Bridge the gap with planning, control, and visibility



Connect project teams

Trust, share, build productively

- Participate, share and own all relevant data
- Connect early across scope, schedule, cost to reduce costly changes and rework
- Configure processes to improve communication, speed turnaround
- Drive accurate project controls
- Efficiently manage change
- Ensure compliance, minimise risk, speed dispute resolution





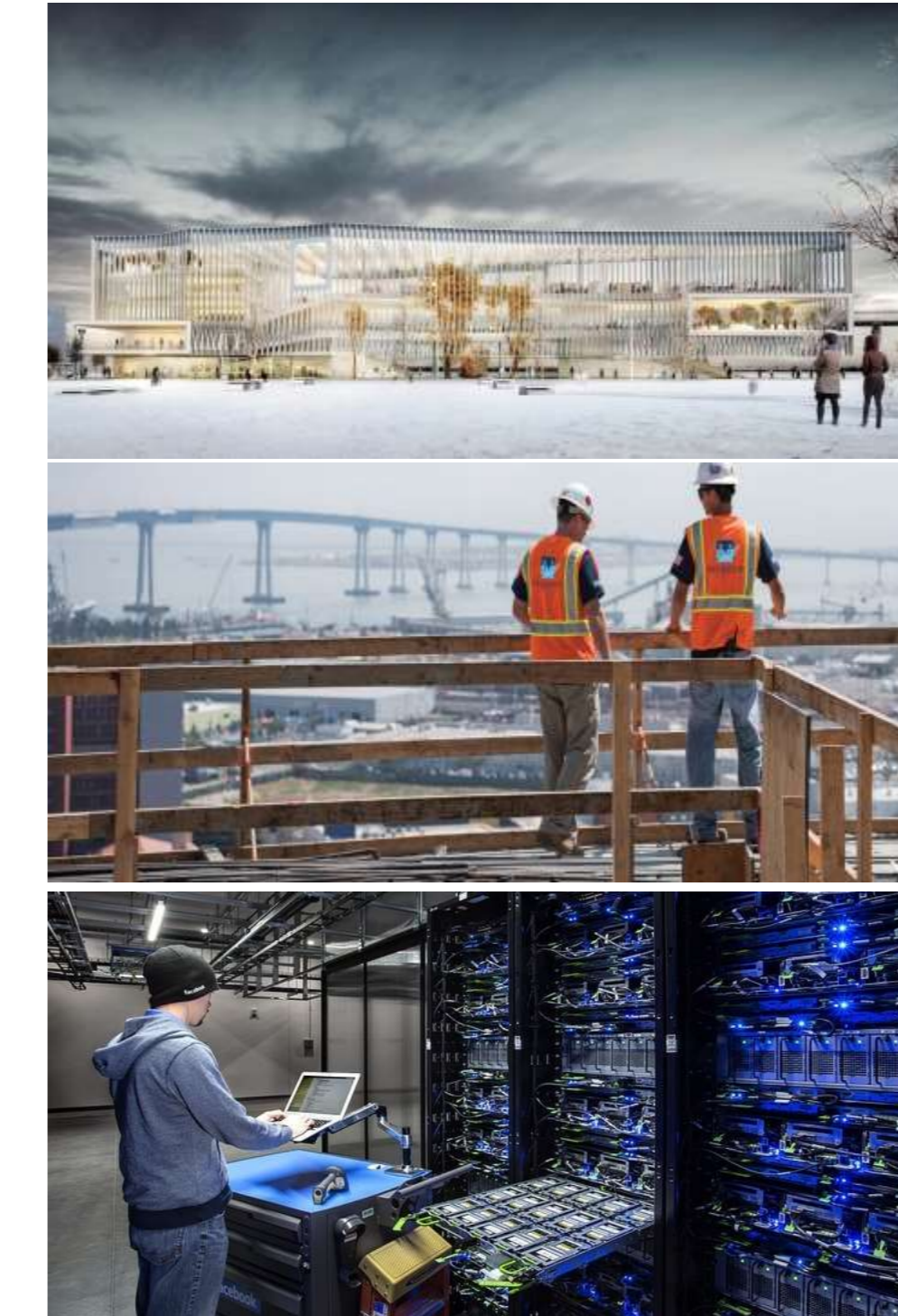
Empower

“

The construction industry has few, if any, truly predictive analytics solutions at the project or company scale ... significant value can be created by developing analytics and insights platforms that leverage the growing pool of inter- and intra-company data. These platforms will enable more proactive, data-driven management of both individual projects and companies overall.

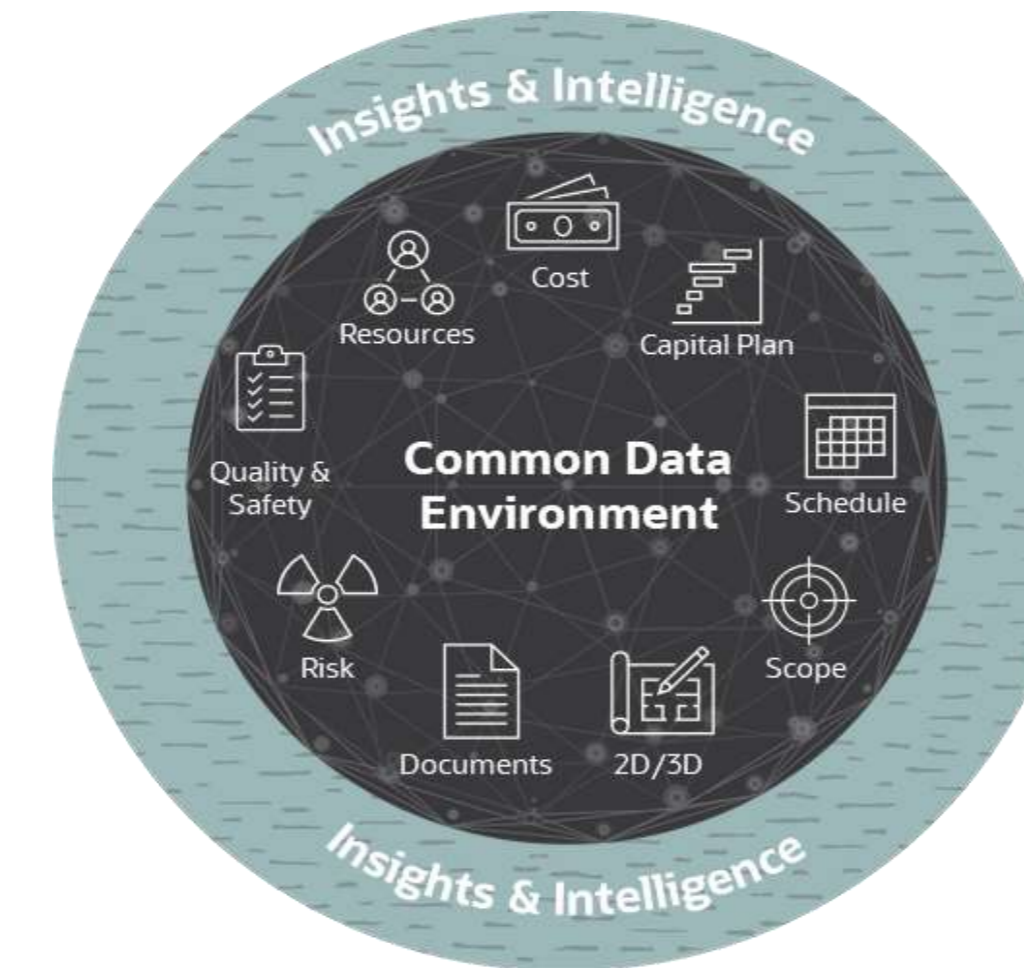
McKinsey & Company

Source: <https://www.mckinsey.com/industries/private-equity-and-principal-investors/our-insights/rise-of-the-platform-era-the-next-chapter-in-construction-technology>



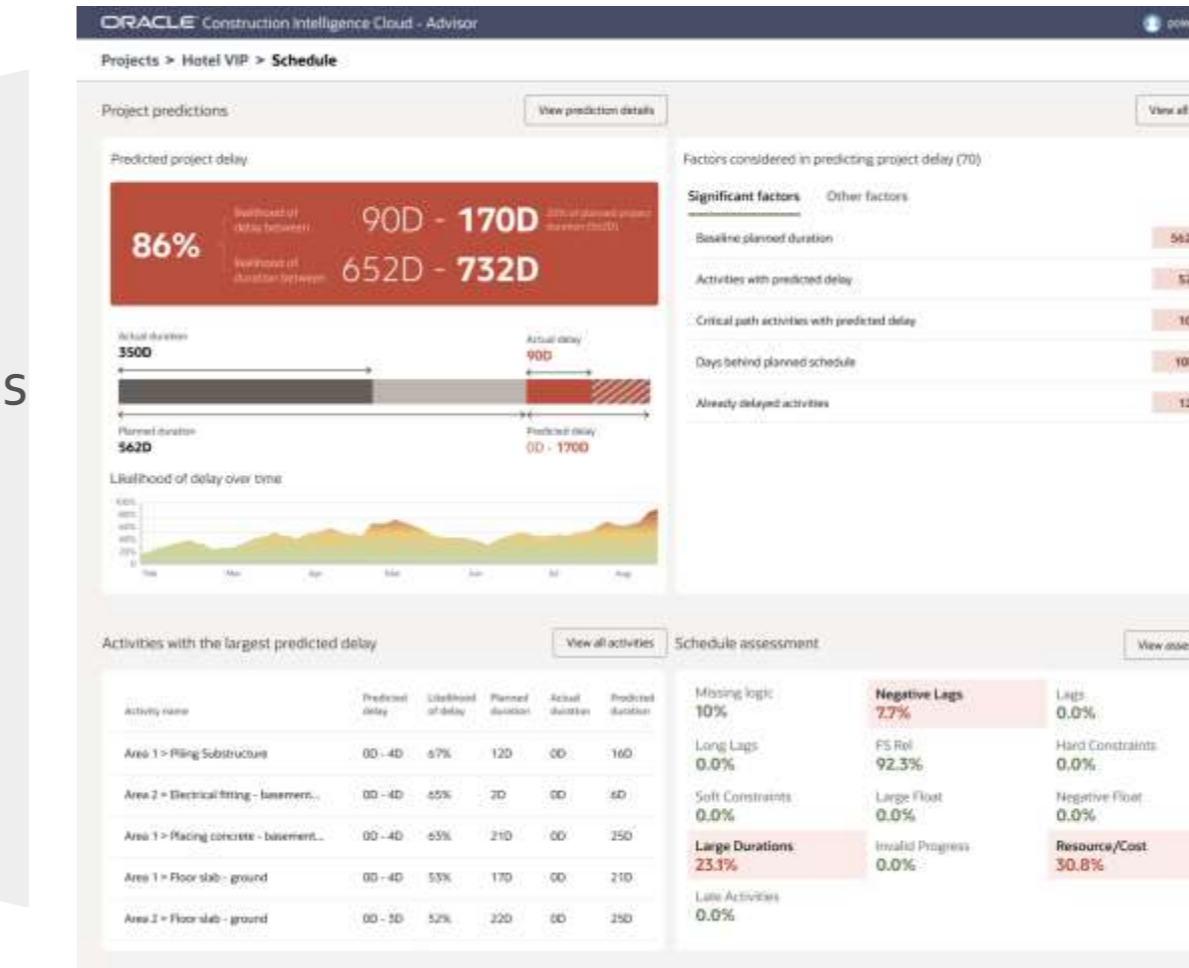
Empower – predictive intelligence

For proactive decisions



- ✓ Unlock broad, deep data
- ✓ Train, adjust, improve models
- ✓ Predict risk:

- Schedule
- Safety
- Rework
- Litigation
- Partners
- Budgets
- Cashflow





Synchronize

“

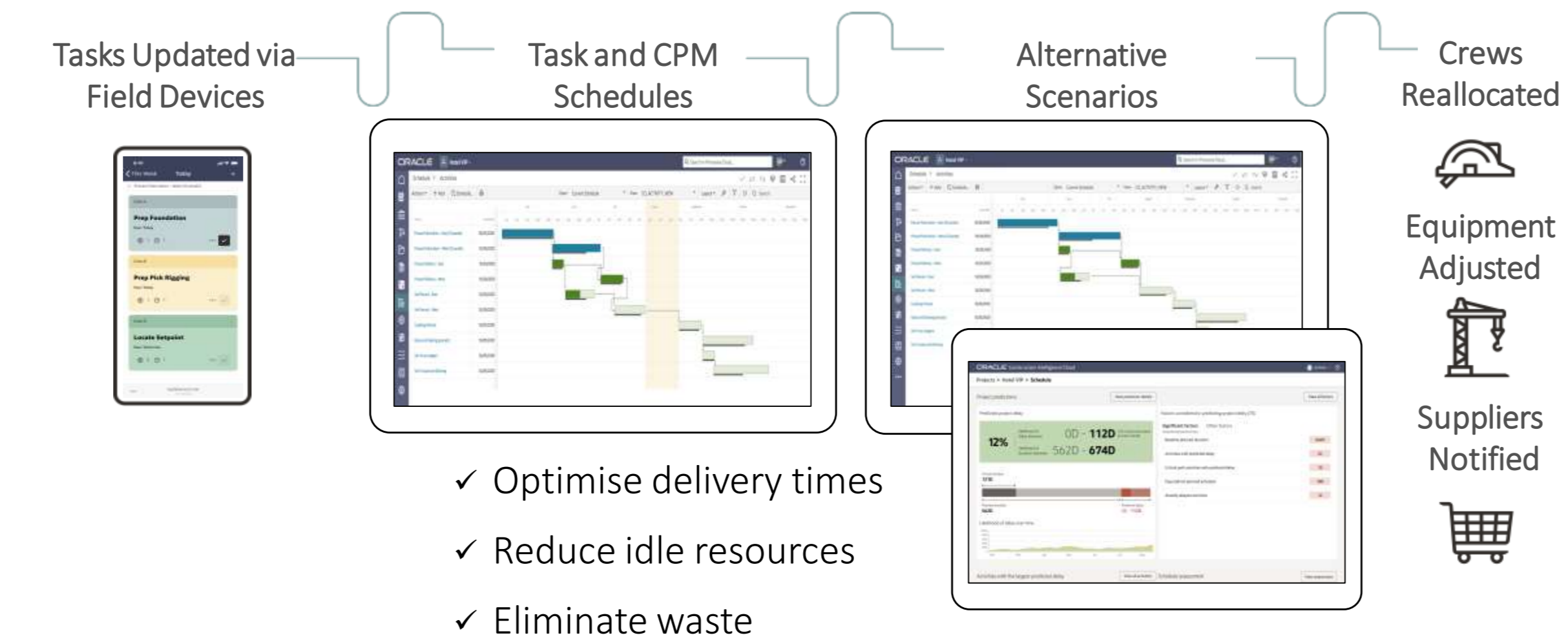
To truly improve performance, we must synchronise activities across the entire construction supply chain from designers and consultants to material suppliers and contractors, ensuring all parties are working together according to the central project schedule

Patty Sullivan \ Burns & McDonnell
Project manager \ Strategic Initiatives



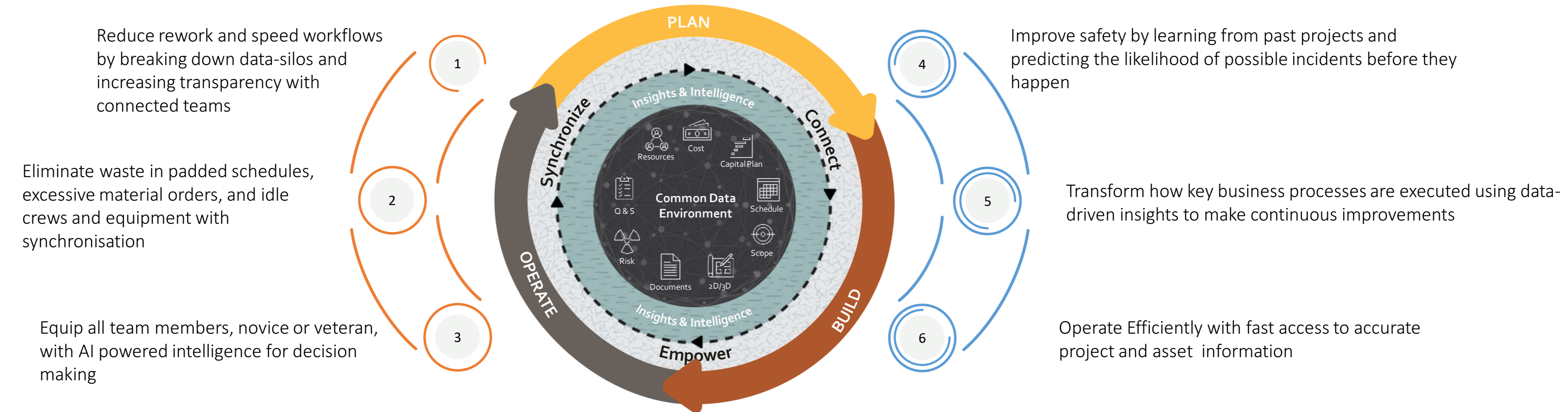
Synchronize supply chain

Keep work progressing



Imagine accelerated performance

Connect, Empower, Synchronize



Oracle Smart Construction Platform customer value

Drive performance, predictability, continuous improvement



Graham connects project team across 100 organizations to speed turnaround times >50%.



Empowered with clear and accurate data from their 3D models, Tractebel captures and resolves issues 50% faster.

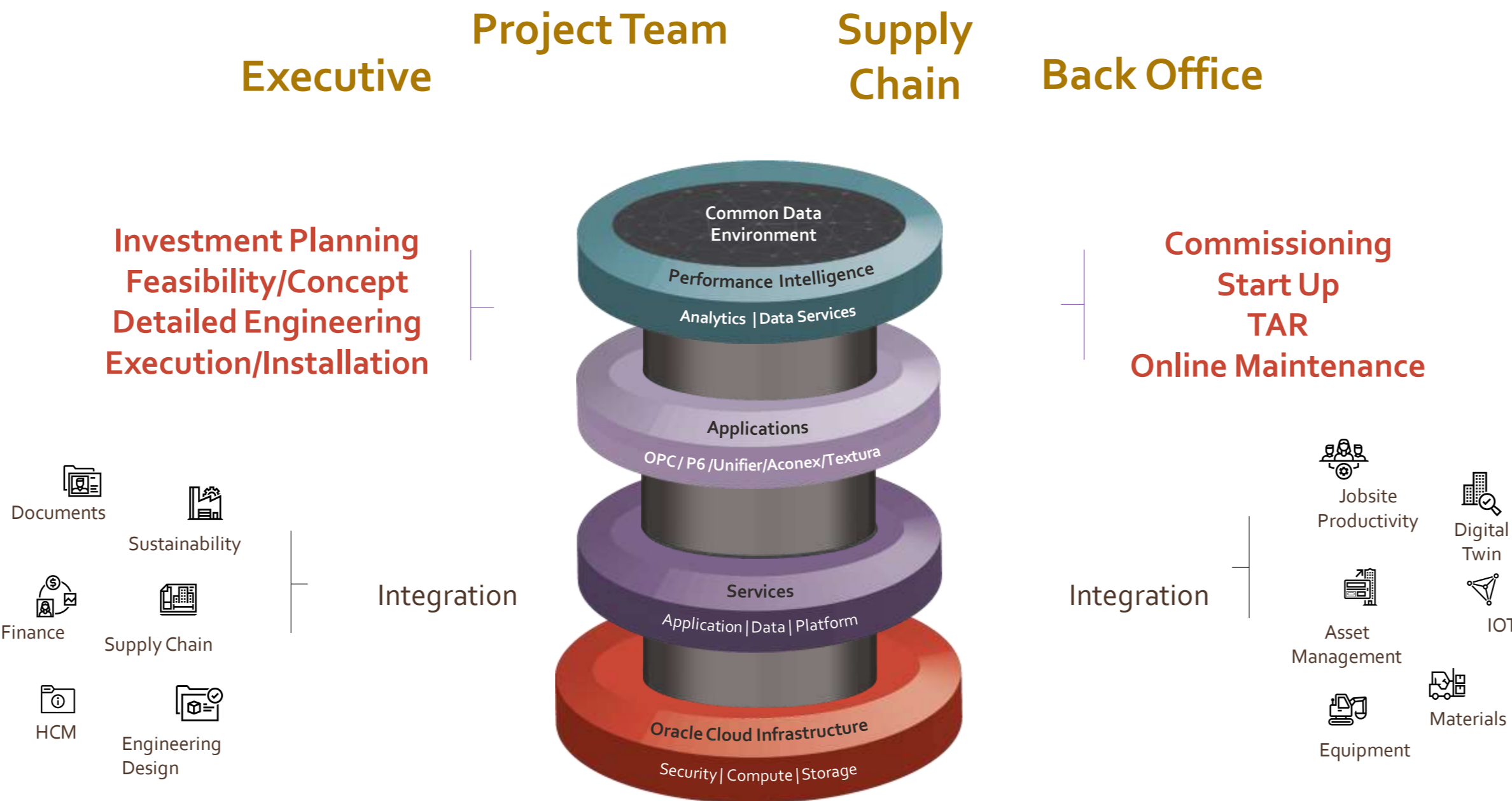


Landmark Properties synchronises task and CPM schedules across three divisions.

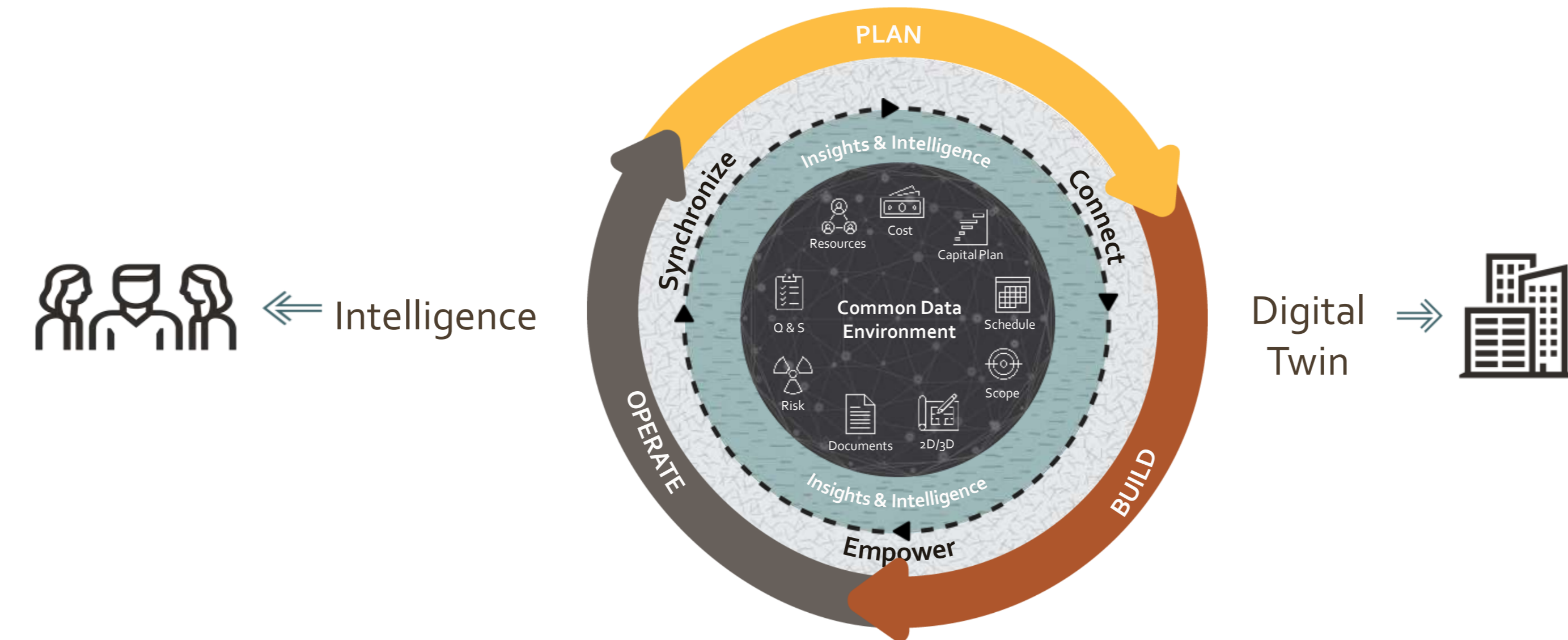


Vesta commercial real estate reduces insurance risk with predictive intelligence.

Oracle Smart P3M Delivery Platform

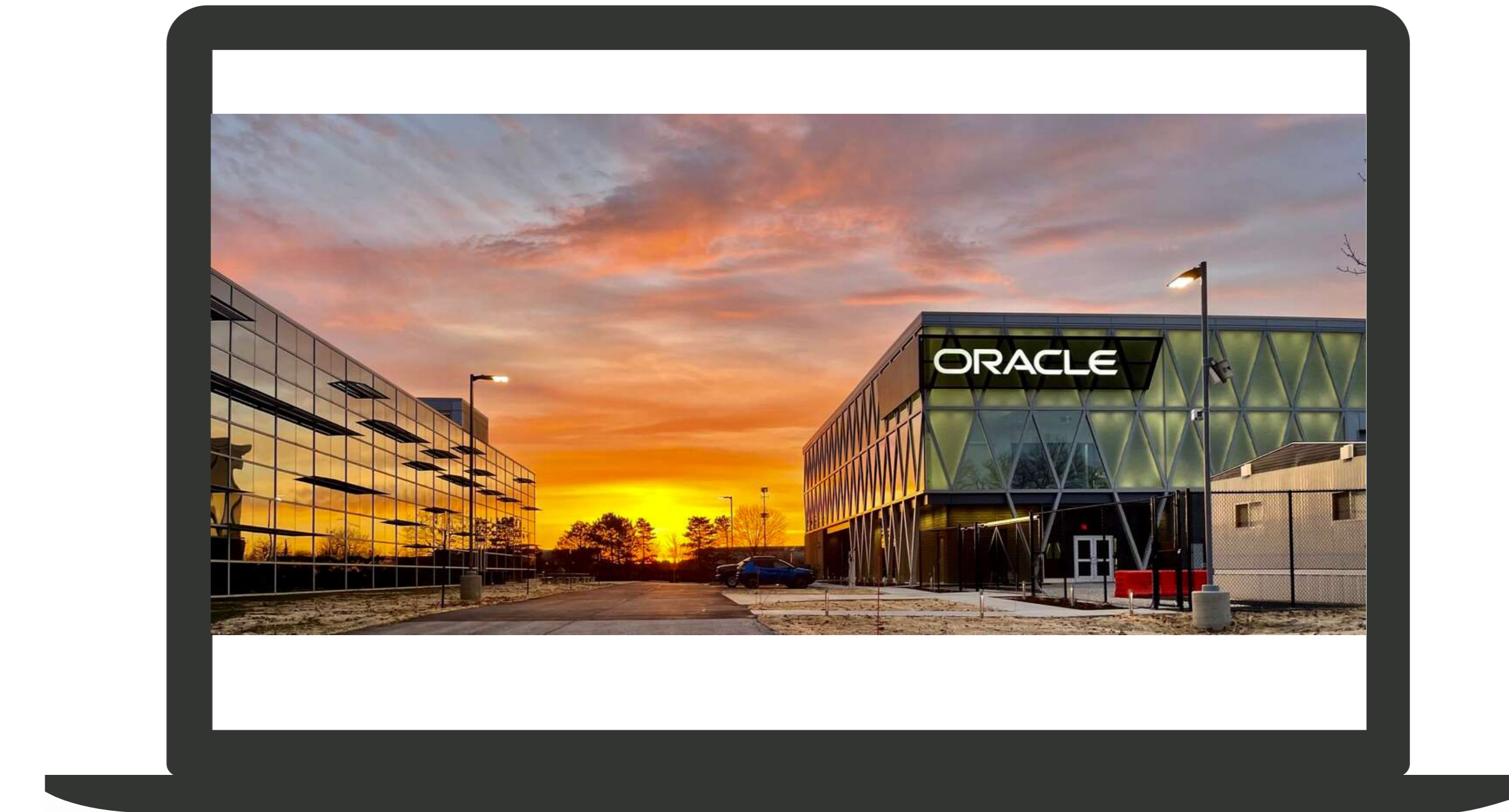


Oracle Smart Delivery Platform






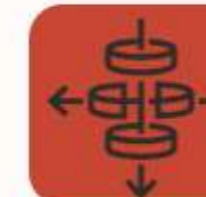




Oracle Industries Innovation Lab Mission

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

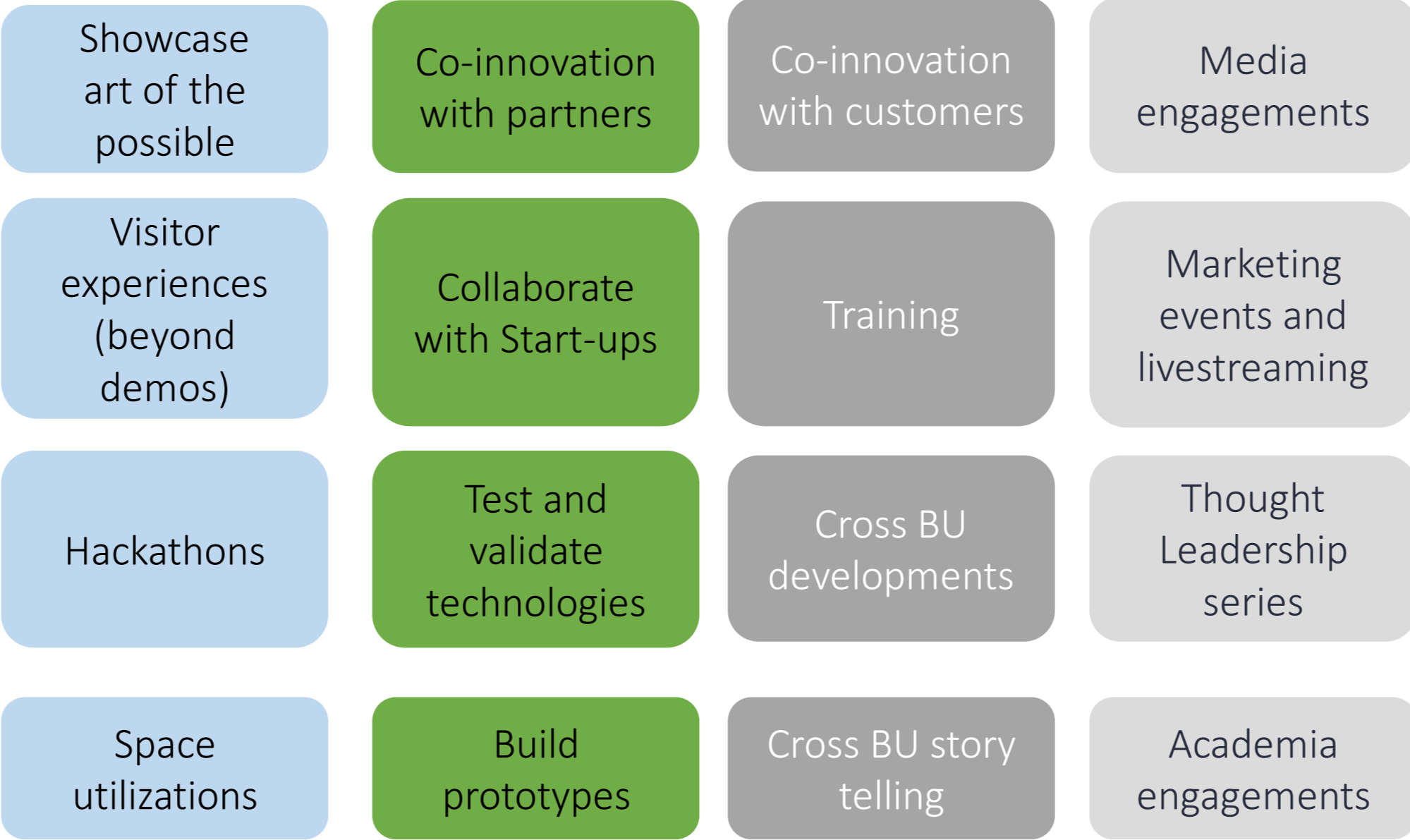


Opportunities available to our customers today

Align opportunities to your organization's goals

 Model centric Adding a spatial dimension to most transactions and processes in the Plan-Build-Operate lifecycle	<ul style="list-style-type: none"> • BIM • Model coordination • xD scheduling • VR/AR 	 Productivity improvement Increase the output of the jobsite and office workers	<ul style="list-style-type: none"> • BIM • IoT • Off-site construction • Connected tools
 Digital collaboration The team using a common platform to plan, record, and share information	<ul style="list-style-type: none"> • Trusted CDE • Model coordination • Mobility • Sensors 	 Leveraging data Capture the generated data improve processes through-out the plan, build, operate lifecycle	<ul style="list-style-type: none"> • Predictive analytics • Integrated procurement • IoT Platform • Trusted CDE • 5G
 Remote construction and facility management Leveraging technology to manage activities remotely.	<ul style="list-style-type: none"> • Drones • Facility visualization • Autonomous equipment • 5G • VR/AR 	 Project optimization Improve the ability to deliver on schedule and within budget.	<ul style="list-style-type: none"> • Predictive analytics • Integrated procurement • IoT Platform • xD Scheduling
 Health & Safety Always a focus, COVID as increased the urgency and complexity of delivering on worker safety	<ul style="list-style-type: none"> • Facility visualization • Wearables/IoT • Autonomous equipment • Off-site construction • Connected tools 	 Incorporating AI/ML Understanding the impact of AI/ML on the plan, build, operate lifecycle and developing an AI/ML strategy.	<ul style="list-style-type: none"> • Overlay on all other trends

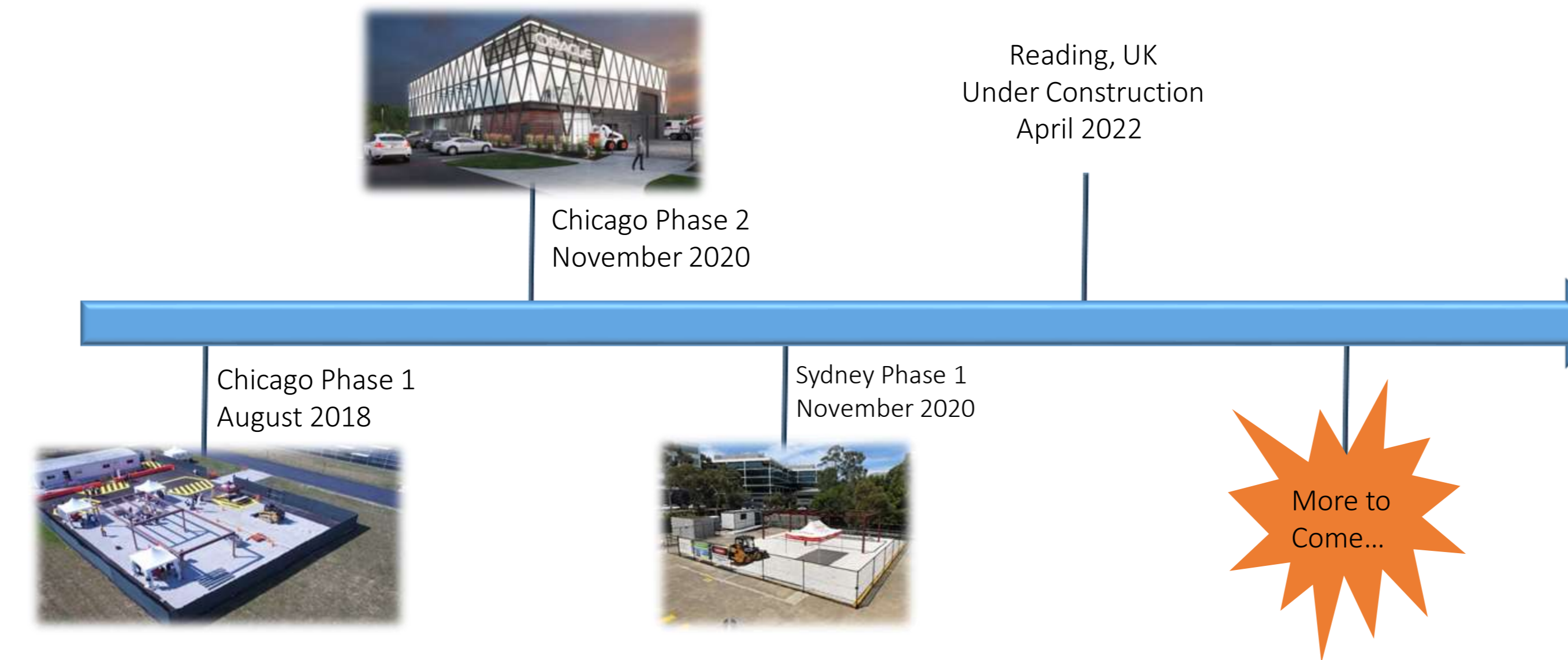
Innovation Lab engagement components



■ Customer/Partner/Internal/External ■ Partner/Internal ■ Customer/Internal ■ External

Oracle's vision for a global innovation lab network

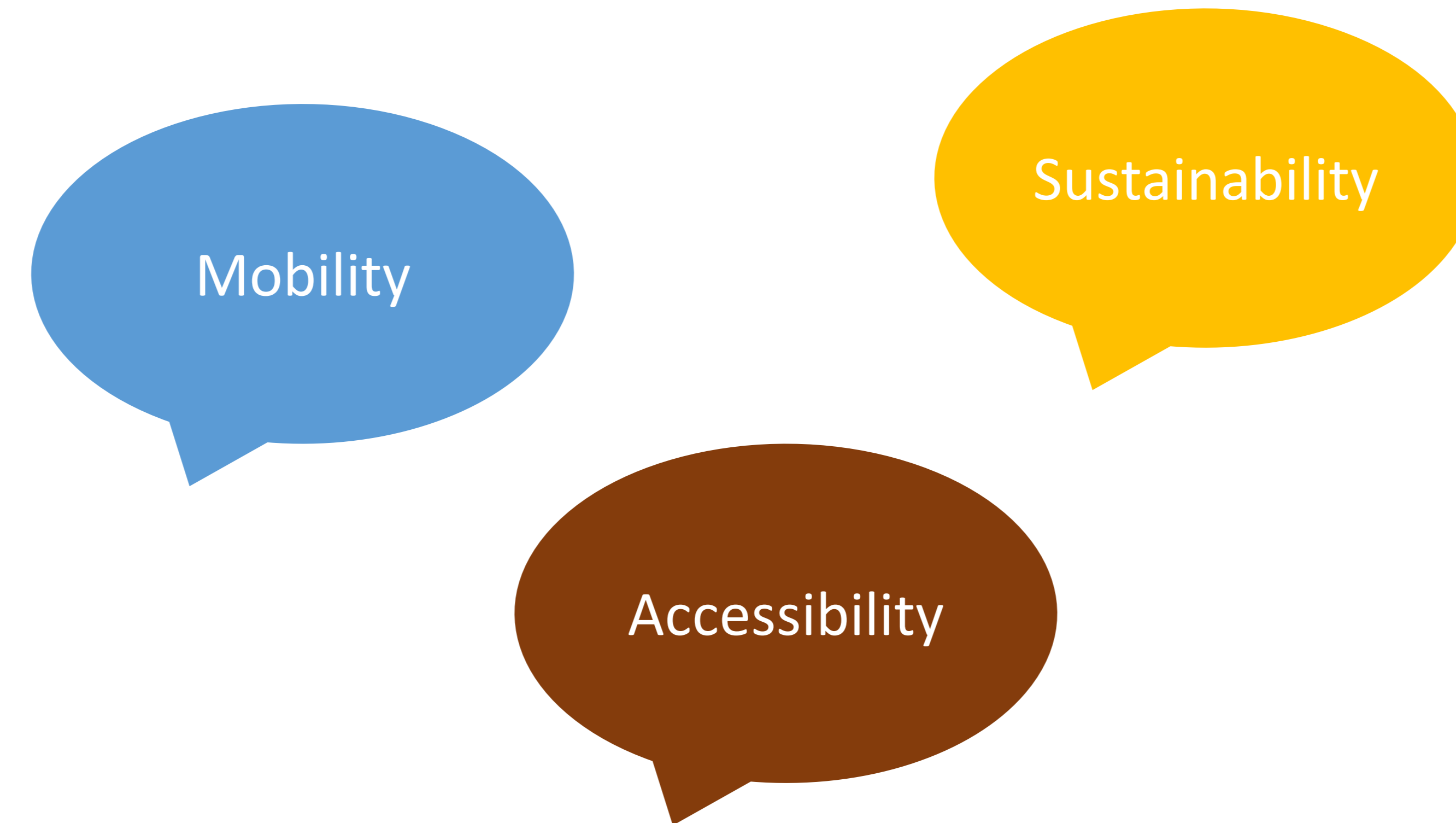
Facilitating the industry's digitalisation



Oracle Industries Innovation Lab – Reading, UK

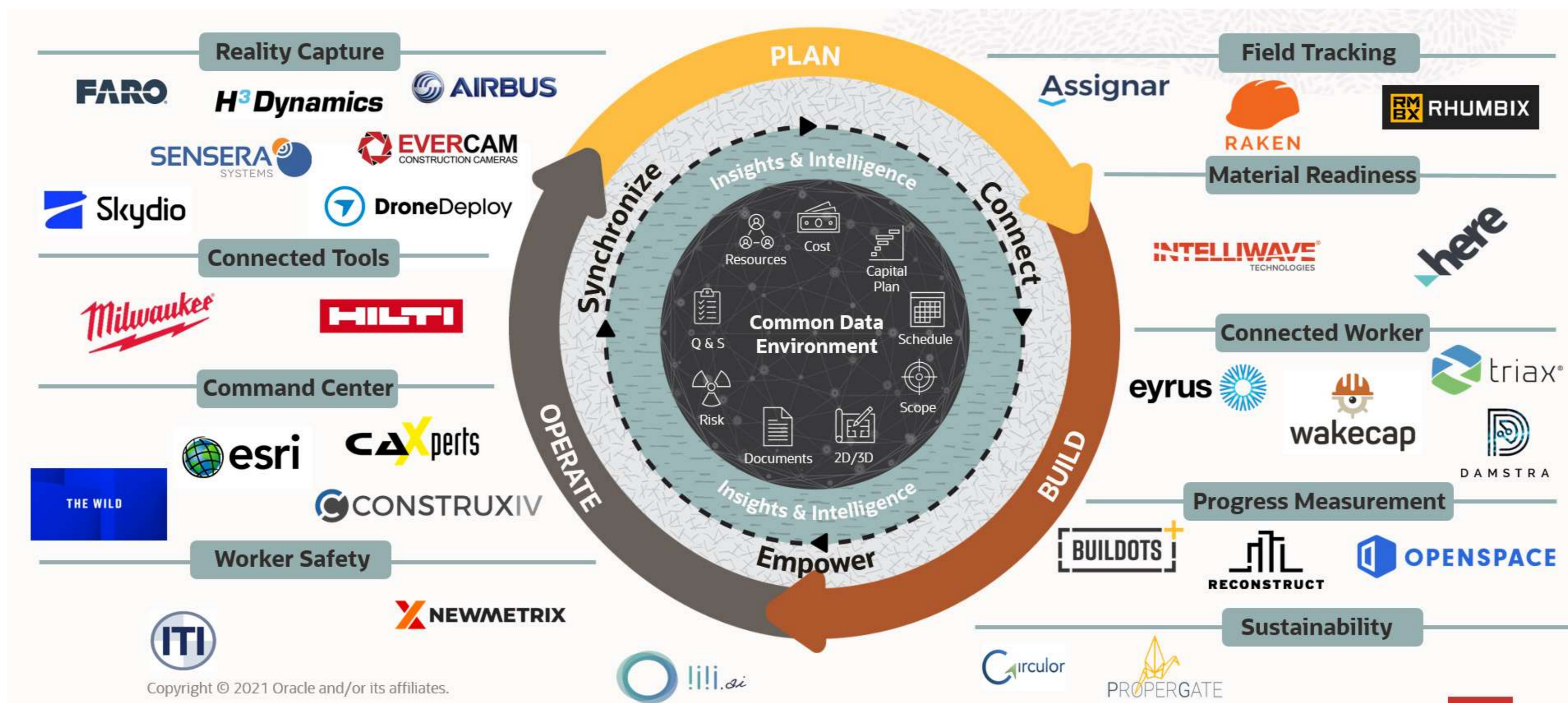


Oracle Industries Innovation Lab themes – Reading, UK



Our executive approach

Oracle, customers, and partners to co-innovate and bring to life transformative technologies



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Key Takeaways

- *96% success rate for projects who have skilled teams, and integrated systems*
- *Only 22% of projects have skilled teams, fully integrated processes and systems.*

Platform is key - Now is the Time to Transition

THANK YOU

ORACLE
Construction
and Engineering

 **Project Controls**
EXPO
London, UK