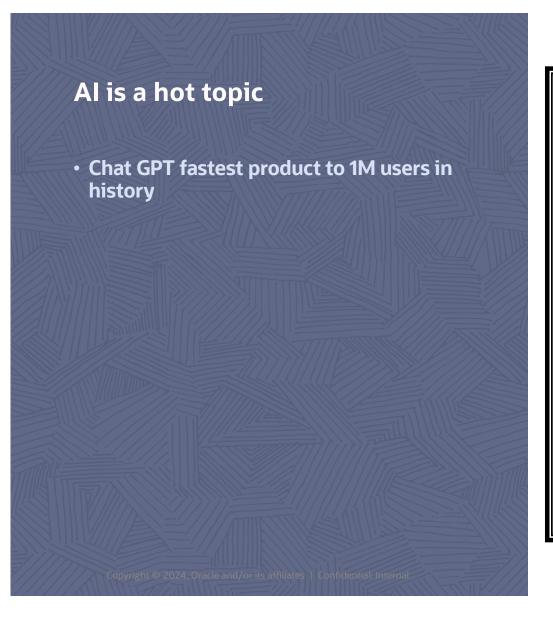
ORACLE

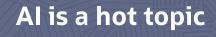
The future of Generative Al in Oracle Construction & Engineering

Padmini Kanive

Director, Product Strategy, AI & Analytics, Oracle C&E



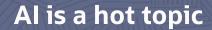




- Chat GPT fastest product to 1M users in history
- Making the cover of business week: Will it kill us all?

Businessweek OK, Computer





- Chat GPT fastest product to 1M users in history
- Making the cover of business week: Will it kill us all?
- Oracle's best quarter ever thanks to... Al

BARRON'S

Topics Stock Picks Lists & Rankings Magazine

Data

TECHNOLOGY EARNINGS REPORT

Oracle Stock Extends Its Rally. Earnings Got a **Boost From AI.**



By Eric J. Savitz Follow Updated June 12, 2023 6:00 pm ET / Original June 12, 2023 1:00 am ET

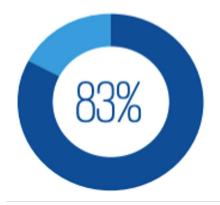
"Oracle's Gen2 Cloud has quickly become the number 1 choice for running Generative AI workloads,"

Oracle Chairman and CTO, Larry Ellison, Q4 FY23 Results

Al is a hot topic

- Chat GPT fastest product to 1M users in history
- Making the cover of business week: Will it kill us all?
- Oracle's best quarter ever thanks to... Al
- And... AEC executives are focused on it...

Figure 9: Industry executives' perception of the future landscape (within 5 years)



Feel organizations will be data-driven, including routine use of data analytics and predictive modeling for project planning and monitoring



But what is "AI"

For enterprise?

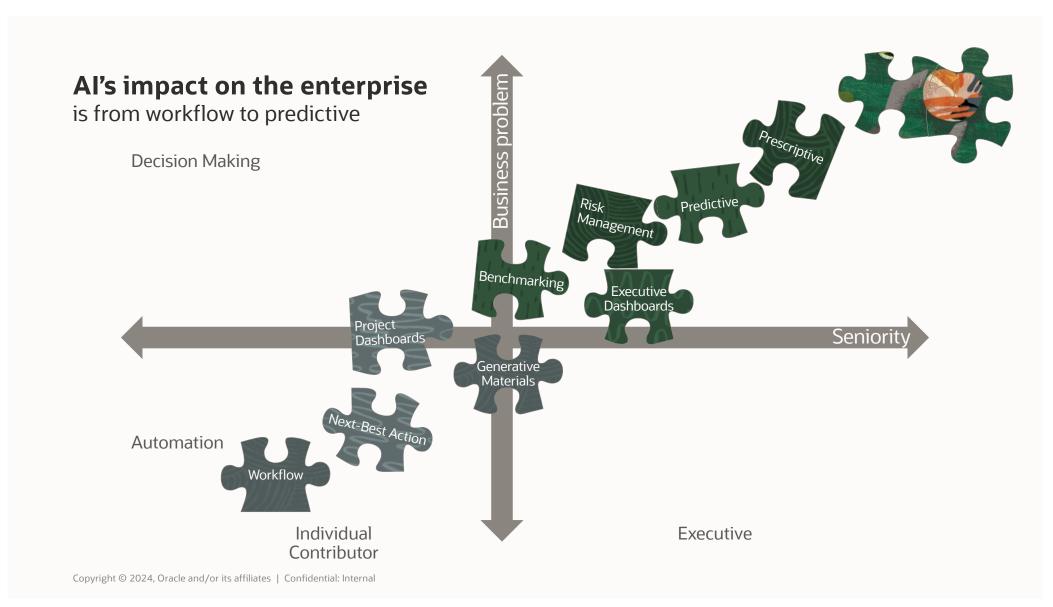


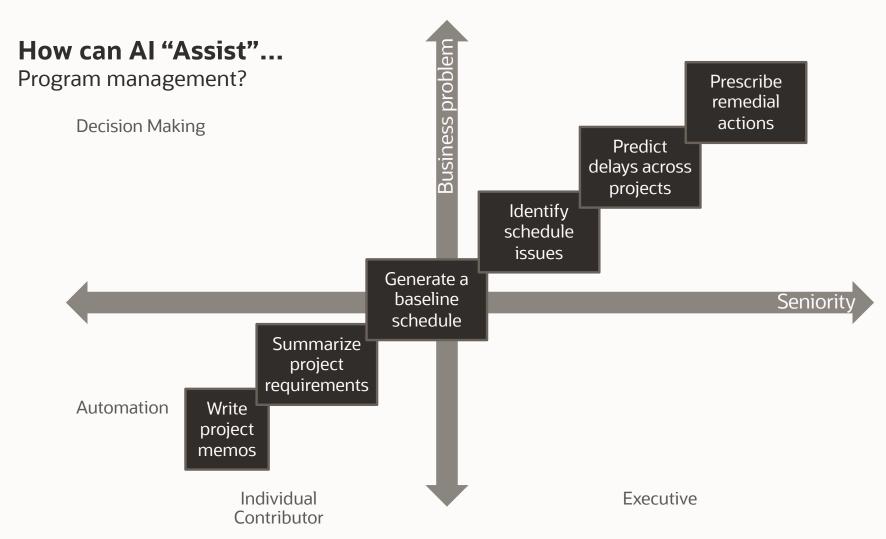
Because Al isn't just one thing...

There are many uses...









But is AI an existential threat?

Well... let's ask Al, is it a Chihuahua or a Muffin?



Source: https://www.metamaven.com/chihuahua-vs-muffin-comparison-computer-vision-apis/

Yes, but AI beats humans at specific tasks!

Let's look at chess... Grandmasters + Al beat Al alone

After chess-playing AI programs became widely available, the combination of humans and chess-playing programs performed better than either did individually.

Forbes, 1/7/2022: Why Computer-Assisted Humans Are The Best Chess Players And What That Means For Technology Operations





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



And Oracle is best positioned to deliver on the potential of AI for E&C

It's our overall mission...



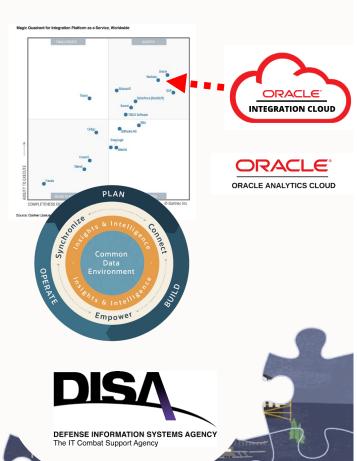
Oracle's market-leading analytics and AI products



Tuned for construction and capital project delivery

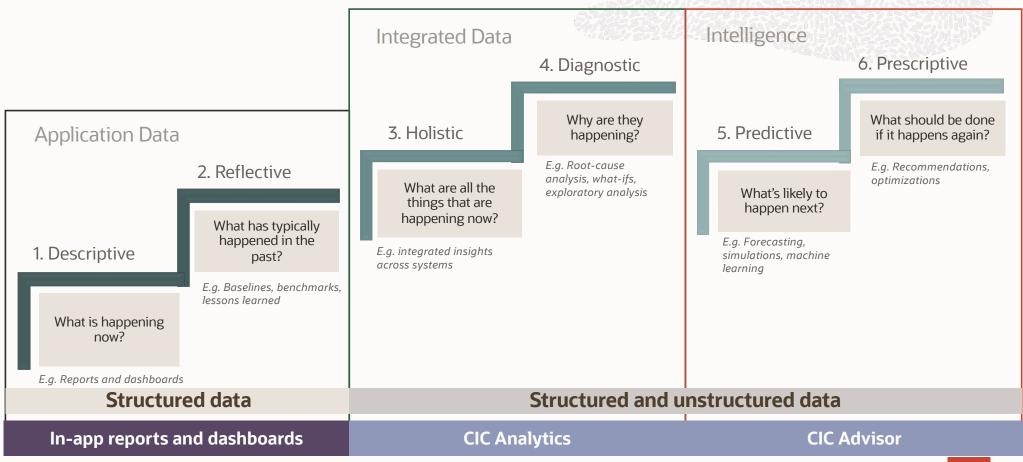


Built with Oracle's military-grade security and privacy

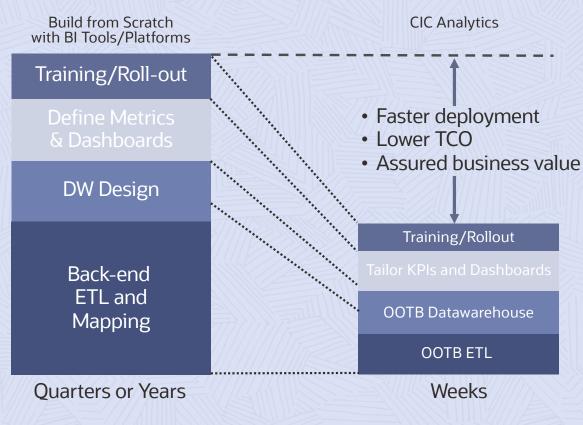


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The Data and Intelligence Journey



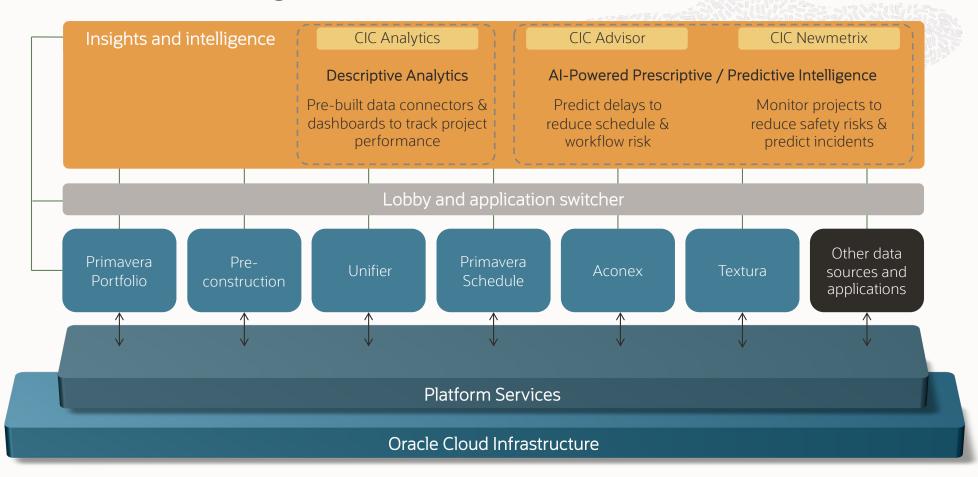
We already have Power BI/Tableau/Qlik/etc.



Faster Time to Value and a Lower Cost of Ownership

- ~ 1+ years of development effort to design the DW/DL
- Requires a SQL developer(s), Business Analyst(s), BI platform/tool administrator(s)
- Dashboard/report requirements are constantly changing requiring changes to the DW/DL
- Costs lots of time and money to plan, design, build and maintain

Construction Intelligence Cloud





Construction Intelligence Cloud - Analytics

Pre-built data connectors & dashboards to track project performance



Portfolio Analysis



Project Performance



Schedule and Cost KPIs

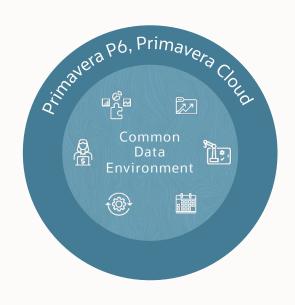






Construction Intelligence Cloud – Advisor: Schedule

Predict delays to reduce schedule risk



Al-Powered Predictive & Prescriptive Intelligence



Predict delays and prevent schedule overruns

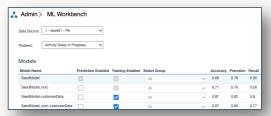








Learn from the past, apply it to the present



Re-train models suited to your organization



Construction Intelligence Cloud – Advisor: Workflow

Predict delays to **reduce workflow risk**



Al-Powered Predictive & Prescriptive Intelligence



Identify potential litigation or disputes and take corrective actions

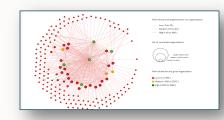








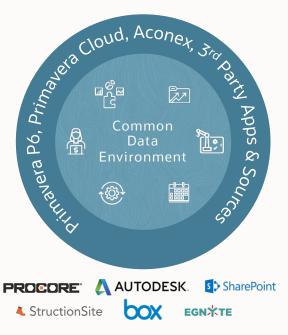
RFI delay predictions



Identify supply chain bottlenecks and downstream impacts



Construction Intelligence Cloud – Newmetrix: Safety Monitor projects to reduce safety risks & predict incidents



Al-Powered Predictive & Prescriptive Intelligence



Safety monitoring uses computer vision AI to identify safety risk trends



Predictive analytics ranks projects weekly by safety incident risk





Predictive-Based Safety (PBS) Connects Analytics to Action



Identify the riskiest projects.

Take specific actions to reduce identified risks.

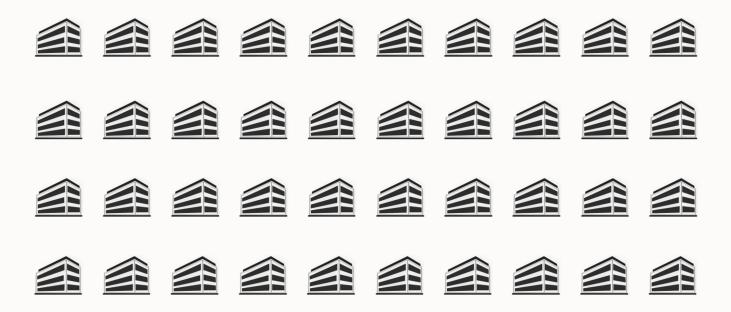
Reduce incident rates and resultant losses.

Newmetrix predictive models are able to identify which...

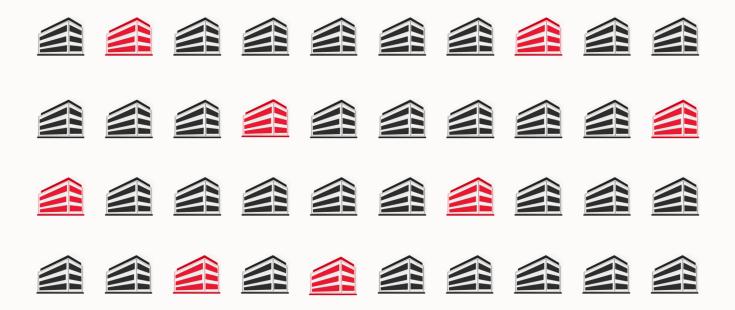




Know Where to Focus Your Attention



Focus on the Riskiest Projects





Risk Forecast Week **10/16/2021**

Last Data Import **10/09/2021**





Project Priorities & Actions

Please select a project from the list to the left.

Decreased Risk



- Stayed the Same







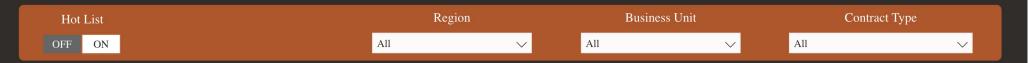




Oracle | Weekly Risk Summary

Risk Forecast Week **10/16/2021**

Last Data Import **10/09/2021**





Project Priorities & Actions						
Priority	Reasons	Action Steps				
•	Labor: Foreman Ratio	Increase the number of formen as a portion of the total labor force. Target 3.3 or fewer worker-days per forman-day.				
•	Incidents: Wkly All Incident Rate	Raise awareness of recent incident(s) with all project employees. The project is 3.6 times more likely to have another incident this week.				
0	Observations: Worker Obs. Rate	Perform more observations in active work areas. Target at least 1 observation per 150 worker hours.				
A	Photos: Work at Height	Perform observations targeting work at height activities. Raise awareness of the increased risk associated with working at height with all employees working in the area.				
A	Observations: Avg. Risk Factor	Ensure that all hazards identified in observations from the past week have been addressed.				
•	Labor: Supervision Ratio	Increase employee presence on the project. Target 1 employee for every 14 worker-days (max).				
•	Labor: Safety Ratio	Increase the presence of safety staff on the project. Target a minimum of 1 safety rep. hour for every 6 worker-days reported on manpower logs (max).				















And one more thing...

Press Release

Oracle to Deliver Powerful and Secure Generative AI Services for Business

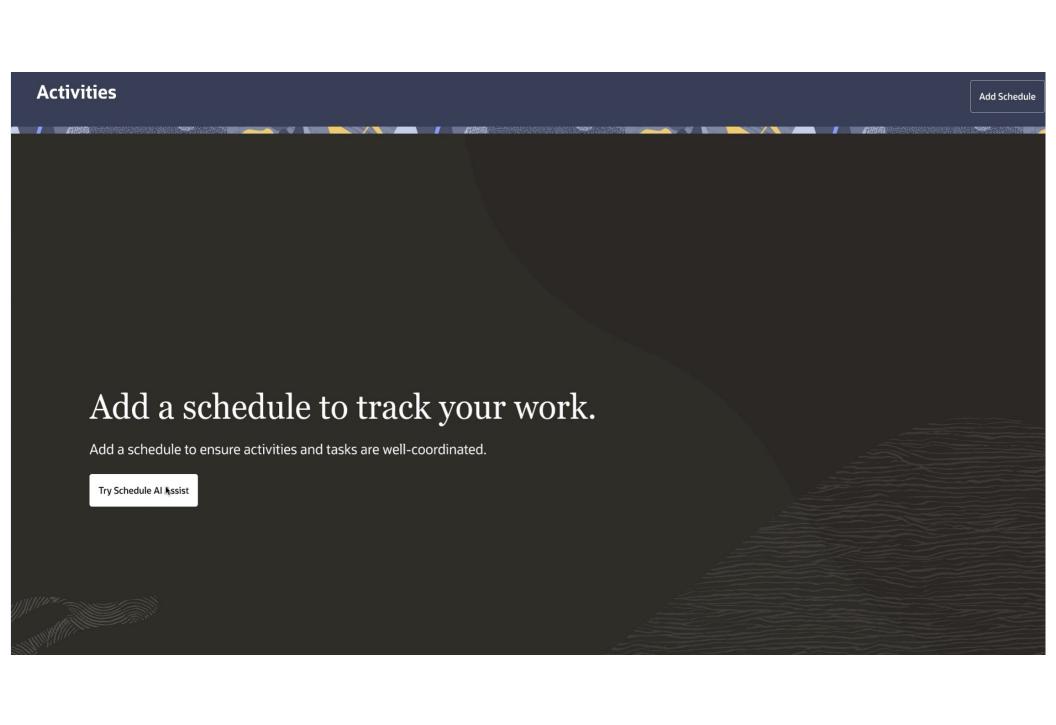
Oracle is uniquely positioned to deliver generative AI services spanning applications to infrastructure that help businesses solve today's most complex challenges

Oracle partners with Cohere to provide generative AI services

Austin, Texas—June 13, 2023

Oracle today announced its plans to develop powerful, generative AI services for organizations worldwide. Oracle will provide native generative AI services to help organizations automate end-to-end business processes, improve decision-making, and enhance customer experiences, in collaboration with Cohere, a leading AI platform for enterprise. Built on Oracle Cloud Infrastructure (OCI) and leveraging Oracle's unique Supercluster capabilities, Oracle generative AI services will span applications to infrastructure and aim to provide the highest levels of security, performance, and value in the industry.





Potential next steps on the Analytics and Al journey

		1) CIC Analytics	2) Newmetrix Predictive Safety	3) CIC Advisor Predictive Schedule	4) Strategic Collaboration
Action	n	Implement Analytics dashboards	Predictive Data Health Check	Early Access Program (EAP)	Join the Analytics and Al Working Group
Delivera	able	 Software deployment tied into your Oracle data sources Pre-built templates for key views and aggregate reports 	 Benchmark report on data and safety metrics Working predictive safety model & dashboard or Working benchmark dashboard 	 Schedule data review Access to schedule predictive analytics Analysis of your schedule data by area (configurable) 	 Quarterly discussions Review and provide input on product direction Discuss advances in analytics amongst peers (2x year)

5) And now, Generative Al consulting projects with Oracle partner Cohere



ORACLE