

ORACLE

CIO Exchange

Data in Action:
A Blueprint to Fuel Transformation

Hosted by Jae Evans, CIO, Oracle



Featured speakers



DJ Patil

*Former U.S. Chief
Data Scientist*



Elaine Priest

*Head of Data
Transformation
NatWest*



Warren Jones

*Chief Technology Officer
SailGP*



Stephanie Trunzo

*SVP and General Manager
Oracle Health*



T.K. Anand

*SVP, Analytics
Oracle*



Greg Pavlik

*SVP, AI/Machine Learning
and Data Services
Oracle*



James Richardson

*VP, Product Strategy,
Analytics
Oracle*



Edwin Upson

*Group Vice President,
Enterprise Cloud
Architects
Oracle*

You're going to the Formula1 race in a go-kart: The current data landscape

The Covid-19 brought to light that there is a struggle to answer basic questions around data - where do you start with something so big and time sensitive? We needed to get data into the policy makers hands faster.

Starting simple is best. We began by creating a data dictionary (a common vocabulary for data) and an Insights team focused on asking qualitative questions.

Data today is multidisciplinary and there is a need for people to work with data in novel ways.

Trust is key when it comes to data. It's our responsibility to create the standard – the golden rule – for data.



“ *Our mission is to responsibly unleash the power of data to benefit all* **”**

DJ Patil

Former U.S. Chief Data Scientist

Key questions

- What are basic ethics around data? How do we train people on this?
- How do we hold ourselves accountable?
- How do we make sure it benefits everyone?
- What's the next generation of safeguards and protections?

Click the link below for DJ Patil's free book on ethics:

<https://medium.com/@dpatil/ethics-data-science-ff21d0c29346>

What's important about data and analytics today? A conversation with NatWest's Elaine Priest

Data analytics drives customer centricity and growth.

The pandemic was a catalyst for maturing data analytics and forcing senior executives to look at data in a different way across the demand and supply sides.

Adoption of data comes down to listening, being curious, and delivering on the future state.

Moving to the cloud helps with scale, simplifies the data architecture footprint, and ultimately, helps businesses make more educated decisions.

Making analytical insights more intuitive for users is a priority.

Automation is also key. If something is too complex, it's not going to scale and will be prone to failure.

Keys to success

- Welcome a broad range of perspectives
- Create teams that reflect the customer base
- Listen to concerns (both externally and internally)
- Make your business strategy and company purpose align with data

“*Every person needs to understand their relationship with data and how it impacts their business.* **”**

Elaine Priest

Head of Data Transformation, NatWest

Creating your data blueprint in 2022

Whether you're starting with bite-sized problems or completely overhauling your business, AI and augmented analytics help businesses with their goals and outcomes.

Most business users have not fully benefited from data. Augmented analytics—powered by AI, machine learning and natural language—can change that through intuitive learning capabilities within the tools.

Self-service BI tools over the last decade have democratized access to things like data analysis, data exploration, and collaboration around data. These tools are also rapidly evolving to take on AI ML use cases.

Lakehouse merges data warehouses and data lakes so that you can mine and gather insights from the full set of information available.

There's an increased adoption of SaaS applications which enables a new class of pre-built analytic applications and solutions. It produces turnkey analytics with minimal developmental effort to help you get started quickly.



“ *We want to make AI boring. We want to make it easy to use and ubiquitous.* **”**

Greg Pavlik

SVP, AI/Machine Learning and Data Services, Oracle

30,000 sensors on an F50 catamaran: Data in action with SailGP

Oracle Autonomous Database collects huge amounts of data and focuses on key metrics to improve performance and strategy (for example, 1,000 data points, 30,000 sensors per catamaran, 44 billion requests).

Sharing data openly lets us learn from one another. We use data to forecast specific situations and we use augmented reality to map out the course for the athletes.

Data helps safeguard against potential problems for the athletes and the boats. Oracle anomaly detection package finds anomalies and can predict problems ahead of time.

Keys to success

- Flush out your priorities first
- Build a foundation of good data
- Don't try to do everything at once



“ Prioritize what you want to accomplish and don't rush it. The data will inform your roadmap. ”

Warren Jones

Chief Technology Officer, SailGP

Event Q&A

How should a Quantitative Insights organization be set up to be most effective within an organization? Any key pitfalls to avoid? Any resources you would recommend for best practices?

- Break down data silos by combining data from multiple areas of the organization with proper data security policies
- Democratize access to data, but implement role-based governance
- Make analytics tools accessible to all
- Implement and foster a collaborative, analytics-driven decisions culture
- Obtain cross-departmental executive sponsorship

Can we talk about AI /ML impacting normal manufacturing (that is, PCBA build, system build, or even chip manufacturing)?

- AI and ML have had a big impact on manufacturing
- Examples include getting better data for form recognition and digitization, converting analog forms into structured data, and comparing POs to decision-oriented applications (such as supply chain optimization and better forecasting techniques)
- Computer vision and even audio AI are also playing an increasing role in quality control and validation during the manufacturing process
- Applies even to use cases like chip manufacturing where slight defects result in a failed circuit board

Event Q&A

With multi-clouds, how can a CDO create a data lakehouse "community" cloud without having to move data?

- Focus on the gravity of data for a given workload. The reality for most large organization is multicloud plus hybrid on-premises
- Look for ways to reduce "chatty" boundaries between the different centers of gravity and build patterns to do things like streaming and/or bulk synchronization when information is needed in multiple locations
- Look at "data catalog" and metadata management approaches that enable you to understand all data under management

What do you see the biggest disruption facing banks around the data architecture and management?

- Economic volatility led by global events
- Building complete banking ecosystems with current regulatory pressures and auditability
- Rate of adoption of new technology coming from new consumer banking expectations with tech, personal banking, insurtech, etc.
- Getting consistent, verifiable results in risk measurement, management, and mitigation. All these factors have a direct impact on data governance, policies, use of structured/semi-structured data, and analytics

Keep the conversation going

Articles:

<https://www.oracle.com/business-analytics/>

<https://blogs.oracle.com/analytics/post/market-survey-cross-departmental-analytics-in-high-demand>

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