## ORACLE

# Oracle Global Leaders Oracle Analytics

July 2021

**Benjamin Arnulf** 

Senior Director, Product Strategy Oracle Analytics



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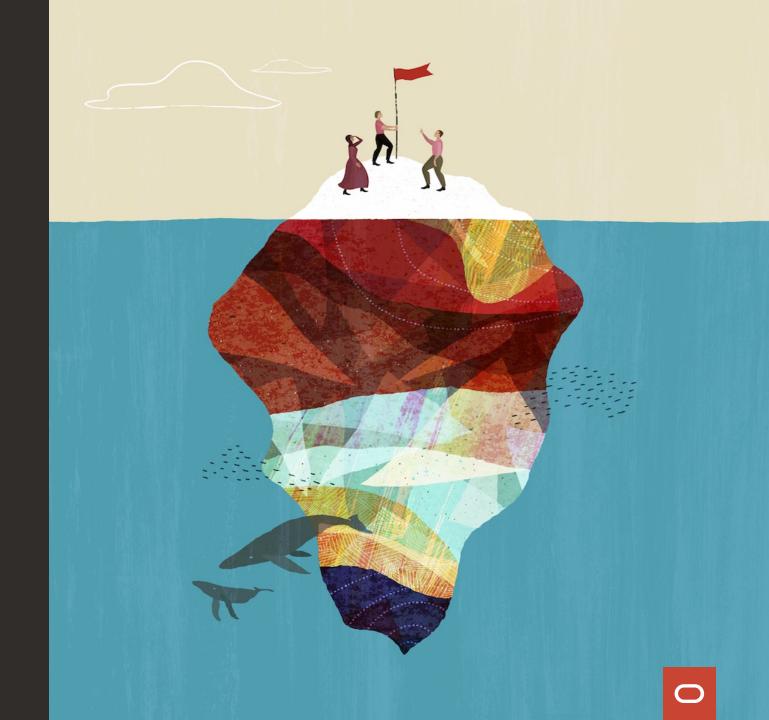


## **Benjamin Arnulf**

Senior Director Product Strategy Oracle Analytics



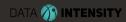
# Oracle Analytics Product Strategy



## **Innovating with Oracle Analytics**

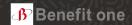


































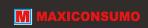




















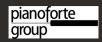












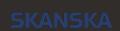




























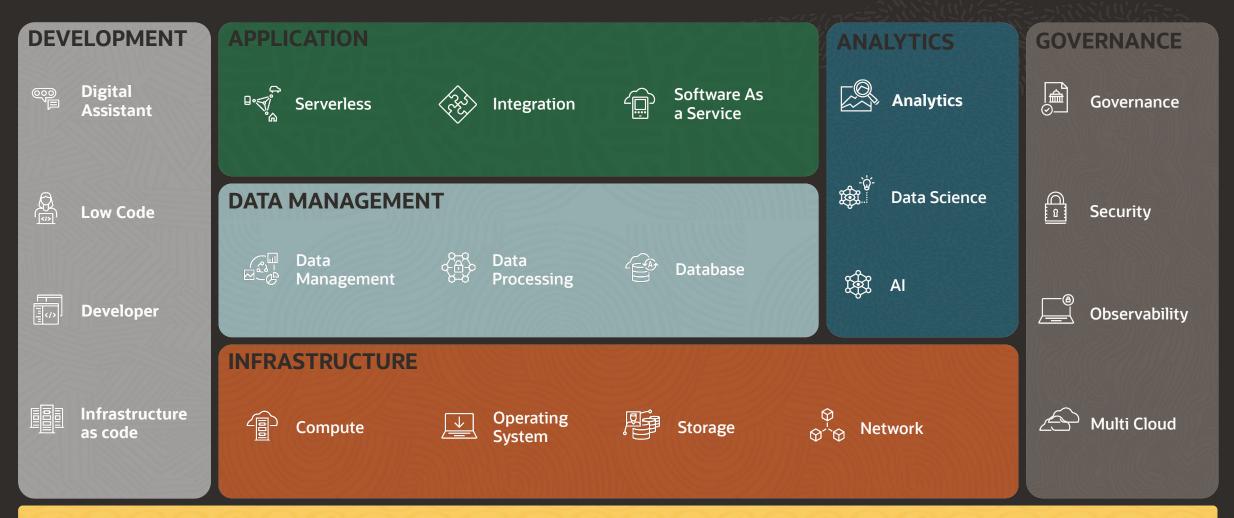








## **Oracle Al, Data and Analytics Cloud Services**



PUBLIC / GOVERNMENT CLOUD and CLOUD @ CUSTOMER



## **New Analytics Strategy**

## Simplify & Unify



## **New Analytics Products**



Oracle Analytics



Oracle Analytics Server

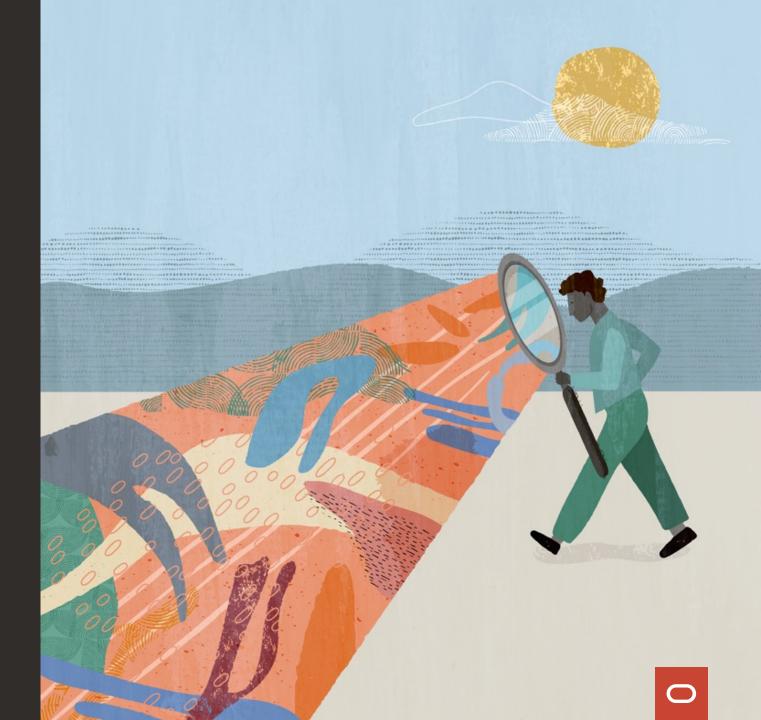


Oracle
Fusion Analytics
Warehouse



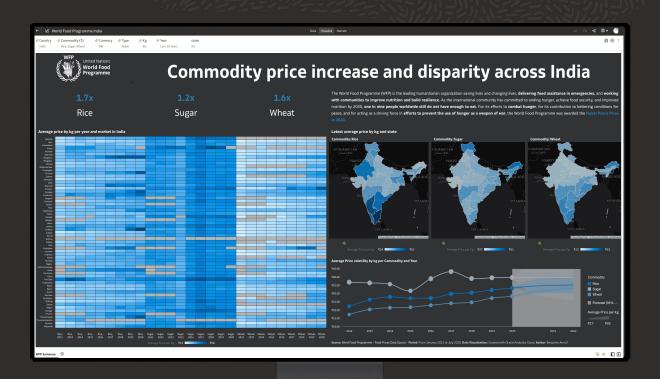
# Oracle Analytics Products

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## **Oracle Analytics Cloud**

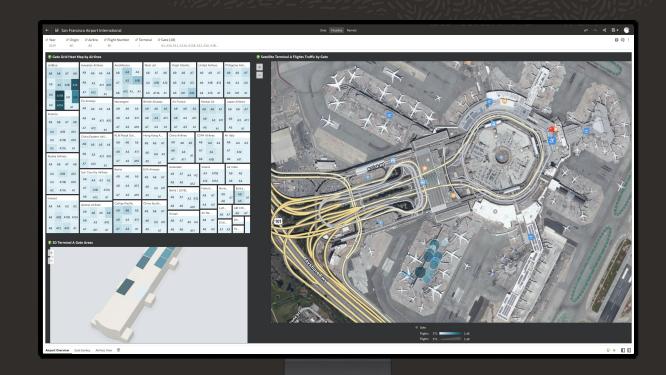
- Augmented Analytics Cloud Platform
- Data Preparation, Data Flow, Data Enrichment
- Data Visualization, Machine Learning, Al
- Automated Forecast and Insights
- NLP, NLG, Mobile enabled
- Self Upgrading, Patching and Securing





## **Oracle Analytics Server**

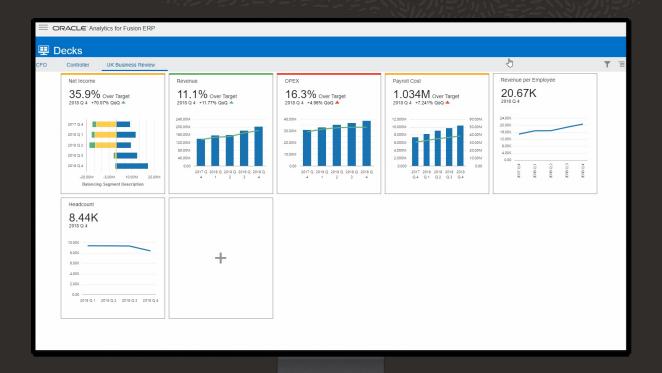
- Modern analytics platform on-premises
- Supports hybrid configurations
- OBIEE customers upgrade at no cost\*
- Machine Learning, AI & Data Visualization
- Yearly release refresh
- Available on Windows & Linux





## **Oracle Fusion Analytics**

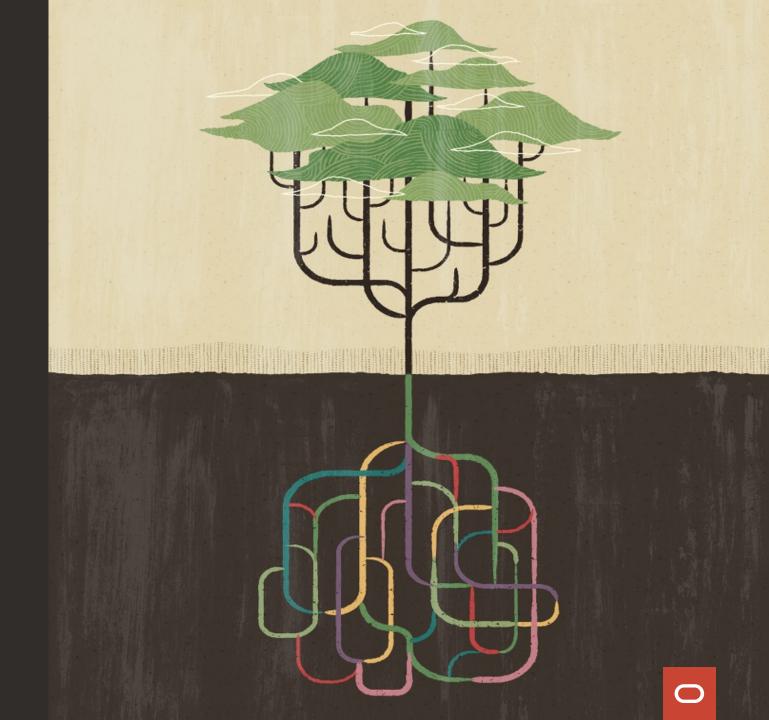
- Fully Managed Augmented Analytics
- Autonomous Data Warehouse
- Key Performance Indicator Catalog & Targets
- Data Pipeline, Data Model & Data
- Visualization and Advanced analytics
- For Fusion ERP, HCM, SCM, CX, NetSuite





# Oracle Analytics





## **Oracle Analytics Solution & Integration**











## **New Analytics Features**

CONNECT	PREPARE	MODEL	EXPLORE	SHARE	CONSUME	
Oracle Applications Oracle NetSuite Oracle Database Oracle Essbase Oracle EPM Cloud Hive Impala PostGreSQL Excel Salesforce	Interactive Data Transformation & Cleansing	Semantic Models	Interactive Data Visualization	Dashboards	Web	
	Smart Data Profiling	Self-Service Natural Language Data Sets Query & Narration		Reports	Mobile	
Spark Snowflake MongoDB SQL Server MySQL Amazon Redshift	Data Enrichment with ML Models	Analytics Catalog	Auto-ML & Al Insights	Role Based Security	Embedded	
Amazon EMR Google BigQuery Azure Synapse JDBC 	Scheduled Data Flows	Metadata & Data Search	One-Click Advanced Analytics	Enterprise Scale Deployment	Chatbot	

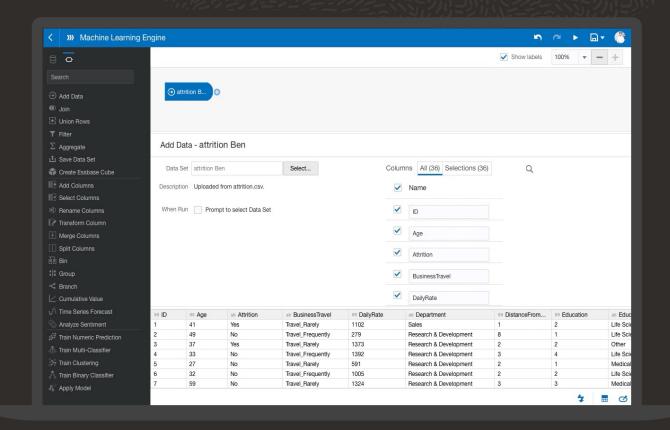


# Oracle Analytics ML, Mobile, Graph –



## **Predictive Analytics**

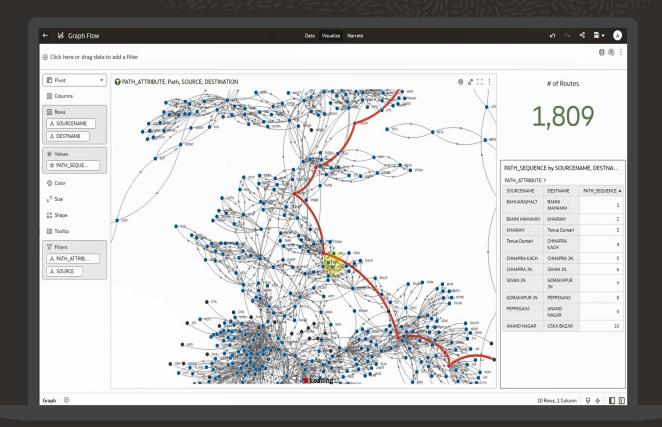
- Data Flow to train ML models
- CART
- Linear Regression
- Clustering, Outliers
- & more algorithms
- Explore ML models





## **Graph Analytics**

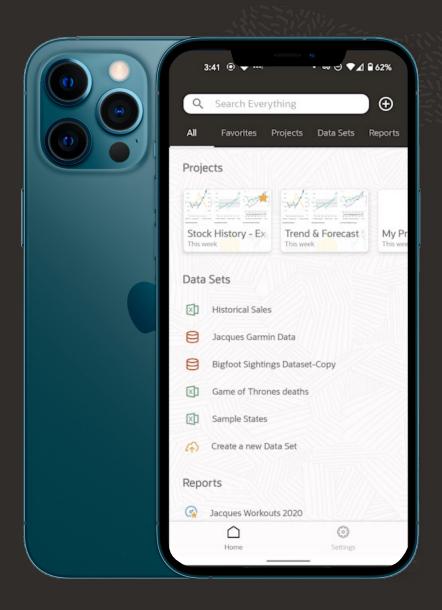
- Interact with graph data
- Identify relationships and patterns
- Shortest path, page rank, clustering
- Sub network algorithms
- Optimized graph visualizations types
- Integrated with Autonomous Database





## **Mobile Analytics**

- Unified Home Page & Search
- Interacting with DV projects
- Launch Dashboard
- Share & collaborate on projects
- Open, create & upload datasets
- Easy to setup

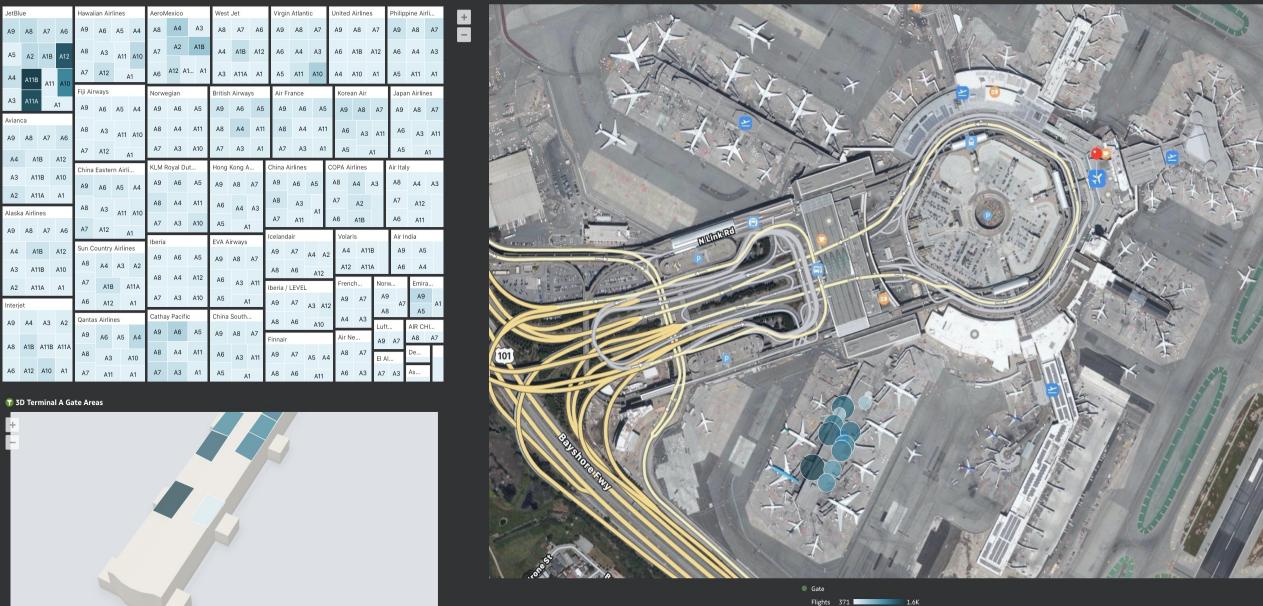




# Oracle Analytics Data Visualization —

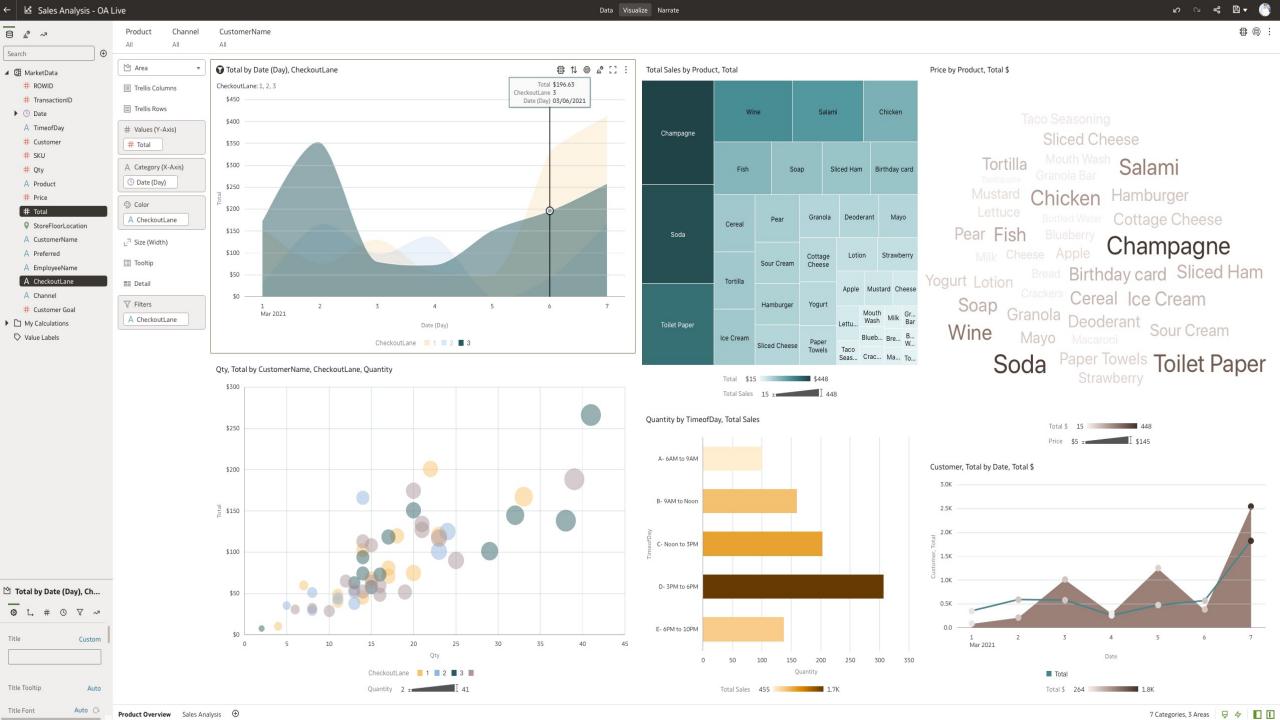


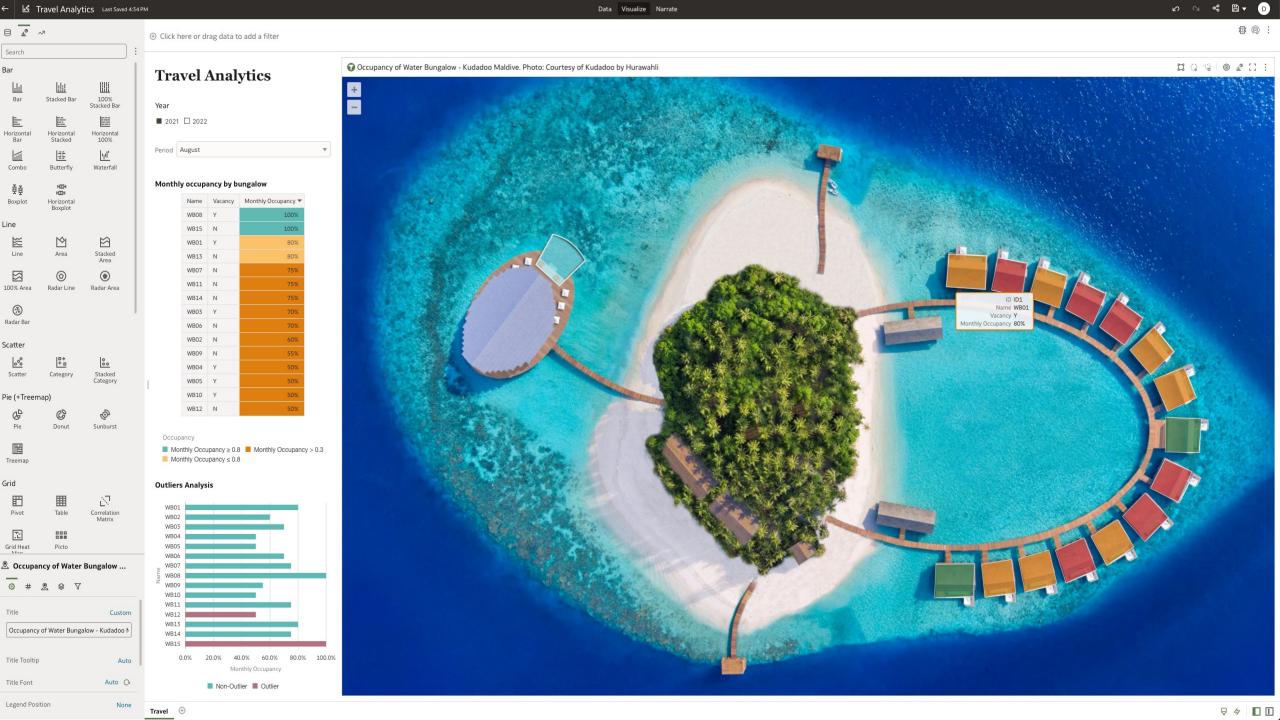
← 🗠 San Francisco Airport International Data Visualize Narrate ☆ Origin 
☆ Airline 
☆ Flight Number 
☆ Terminal 
☆ Gate (18) I A1, A10, A11, A11A, A11B, A12, A1A, A1B... 👣 Gate Grid Heat Map by Airlines Satellite Terminal A Flights Traffic by Gate United Airlines Philippine Airli... A9 A8 A7 A6 A9 A6 A5 A4 A8 A4 A3 A8 A7 A6 A9 A8 A7 A9 A8 A7 A9 A8 A7 A8 A3 A11 A10 A4 A1B A12 A6 A4 A3 A6 A1B A12 A6 A4 A3 A5 A2 A1B A12 A3 A11A A1 A5 A11 A10 A4 A10 A1 British Airways A9 A6 A5 A4 A9 A6 A5 A9 A6 A5 A9 A8 A7 A6 A7 A12 A1 A7 A3 A10 A7 A3 A1 A7 A3 A1 A4 A1B A12 KLM Royal Dut... Hong Kong A... China Airlines China Eastern Airli... A3 A11B A10 A9 A6 A5 A8 A4 A3 A9 A6 A5 A9 A8 A7 A8 A4 A3 A9 A6 A5 A4 A2 A11A A1 A8 A4 A11 A6 A4 A3 Alaska Airlines A7 A3 A10 A5 A1

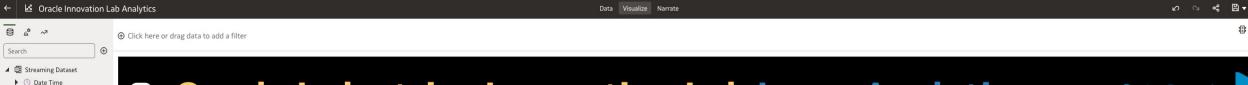


Flights 371

Commodity price increase and disparity across India The World Food Programme (WFP) is the leading humanitarian organization saving lives and changing lives, delivering food assistance in emergencies, and working 1.6x with communities to improve nutrition and build resilience. As the international community has committed to ending hunger, achieve food security, and improved nutrition by 2030, one in nine people worldwide still do not have enough to eat. For its efforts to combat hunger, for its contribution to bettering conditions for Rice Sugar Wheat peace, and for acting as a driving force in efforts to prevent the use of hunger as a weapon of war, the World Food Programme was awarded the Nobel Peace Prize Average price by kg per year and market in India Latest average price by kg and state Average Price per Kg ₹24 Average Price volatility by kg per Commodity and Year ₹40.00 Rice Sugar ₹30.00 Wheat Forecast (95%. ₹20.00 Average Price per Kg Source: Word Food Programme - Food Prices Data Source - Period: From January 2011 to July 2020. Data Visualization: Created with Oracle Analytics Cloud. Author: Benjamin Arnulf Average Price per Kg ₹13 ₽ 4 🔲 🗓







## **Oracle Industries Innovation Lab Laser Analytics**

## **FARO** Boston Dynamics



## Innovation Lab: Deerfield, IL, USA



## **Geo Location**



uthors: Benjamin Arnulf & Burcin Kaplanoglu, PhD. Organization: Oracle. Technology: Boston Dynamics | Faro | Oracle Analytics. Description: Streaming analytics proof of concept from Faro scanner via Oracle Analytics Lab. Analytics Platform: Oracle Analytics Cloud.



# Steps # Miles # Speed # Meter Square

My Calculations

A Location

 My Calculations ∇alue Labels

Innovation Lab: Deerfie...

Zoom Interaction Auto Focus on Data

## **HCM** Analytics - Top Talent

#### **Top Talent**

6

## 12

**Talents Total Headcount** 





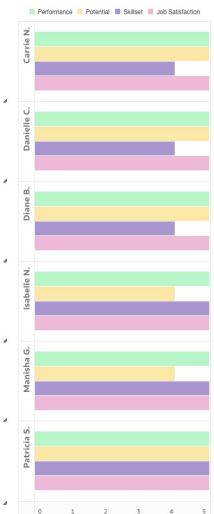
















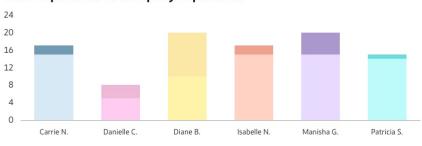
#### **Potential and Agility Radar**



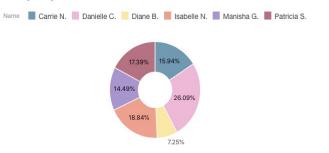
#### **Attribute Indicators by Top Talent**

Name	<b>Business Travel</b>	Restricted Stock	Manager
Carrie N.	•	•	•
Danielle C.	•	•	•
Diane B.	•	•	•
Isabelle N.	•	•	•
Manisha G.		•	
Patricia S.			

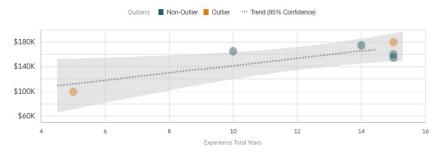
#### **Total experience vs Company Experience**



#### Overtime % by Top Talent



#### **Outliers for Income vs Total Experience**



Analytics Solution: Oracle Analytics Cloud - Author: @Benjamin Arnulf - Source Data: Simulated Oracle HCM Data







## Formula 1 Grand Prix De Monaco 2021



Race Distance (Km)

260.29

Circuit Lenght (Km)

3.34

Winner Car / Engine

Red Bull Racing / Honda

Winner Driver

Max Verstappen



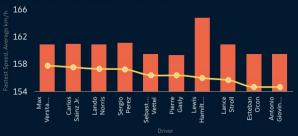
Number of Laps



Average Speed (Km/h)







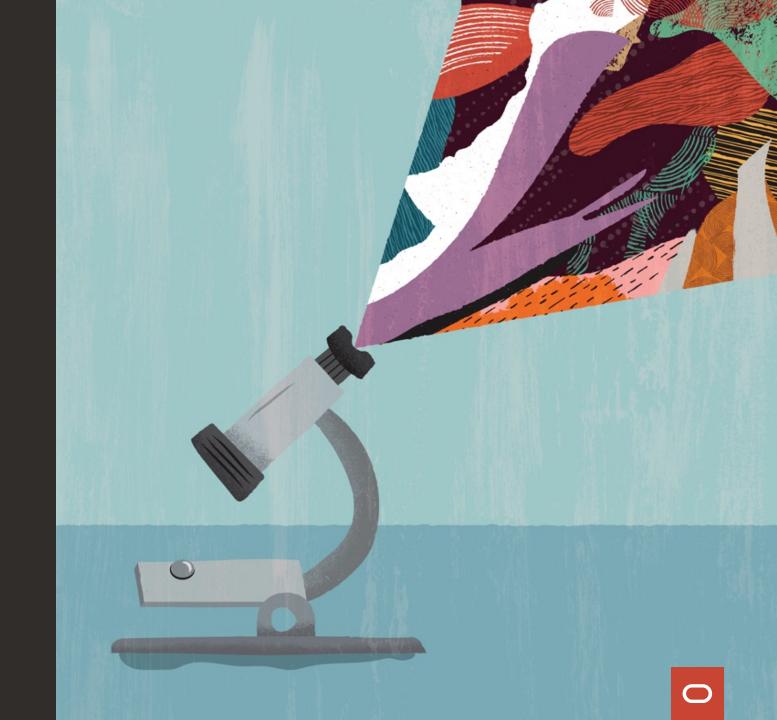
Fastest Speed Average km/h



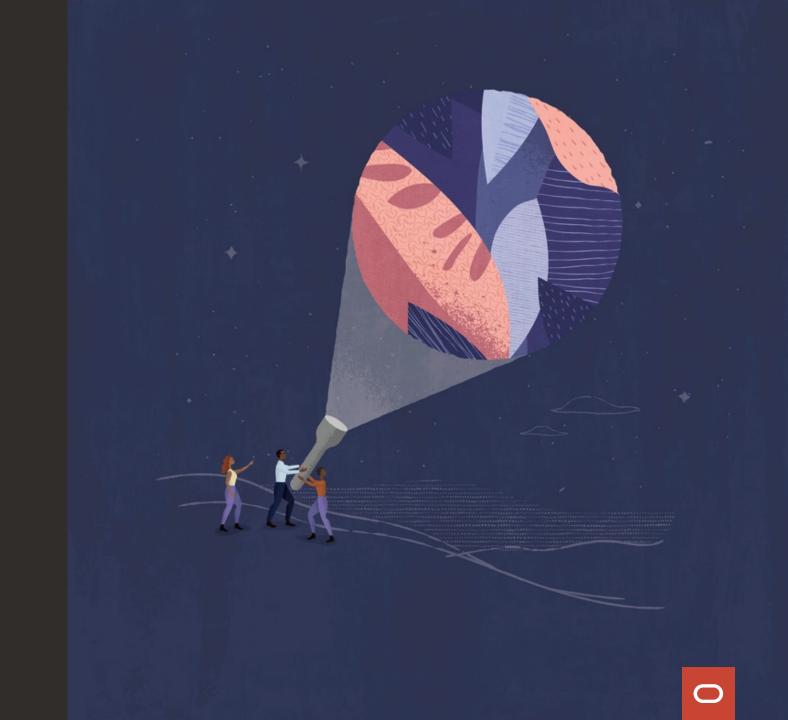
POS A	NUMBER	Driver	Car	Engine	Time	Interval	Gap	Average km/h	Laps	Pits	Points
1	33	Max Verstappen	Red Bull	Honda	1:38'56.820			157.83	78	1	25
2	55	Carlos Sainz Jr.	Ferrari	Ferrari	1:39'05.788	8.968	8.968	157.60	78	1	18
3	4	Lando Norris	McLaren	Mercedes	1:39'16.247	10.459	19.427	157.32	78	1	15
4	11	Sergio Perez	Red Bull	Honda	1:39'17.310	1.063	20.490	157.29	78	1	12
_	_	C. L. C. Maria		NAME OF TAXABLE PARTY.	4 70140 444	70.404	50.504	454.45			

Author: @BenjaminArnulf - Analytics Platform: Oracle Analytics Cloud - Dataset: Formula1.com - Grand Prix: Monaco 2021 - Unofficial Data Visualization

# Oracle Analytics Demonstration



# Oracle Analytics Roadmap



## Oracle Analytics Cloud & Server Roadmap

Released in CY 2021 – 1st Half

CY 2021 – 2<sup>nd</sup> Half

CY 2022 - 1st Half

### **Oracle Analytics Cloud**

- Generic JDBC Connectivity
- Connectivity to Google BigQuery
- Scheduled refresh for data sets
- Custom Knowledge enrichments
- Advanced self-service data sets
- Data Quality Insights
- Increased limits for Data Flows
- Support for subject area, Essbase, and EPM hierarchies in self-service pivot and table
- Chart custom sort dialog
- On-canvas filters for date and measures
- Discrete layers on maps
- High resolution printing in Data Visualization
- Graph analytics in Data Flows
- Enhanced content and in-content search
- Next generation OA Mobile
- Health & performance service metrics

### **Oracle Analytics Server**

- Annual Oracle Analytics Server Release including features through <u>OAC 5.9</u>
- Support for SUSE Linux and IDM
- New DB Certifications
- In-Place upgrade from OAS 5.5

### **Oracle Analytics Cloud**

- Microsoft Azure Synapse connectivity
- Support for analytics views from subject areas
- REST API connector
- Turn off auto-joins for data sets with multiple tables
- Flexible, layer-based combo chart
- Mapbox maps and interaction
- Sort visualizations by outside columns
- Automated Insights
- Improved Natural Language Generation
- Redwood Design user experience
- Conditional formatting
- Improved handling of Nulls in list filters
- Customized actions for consumers
- Improved Back button experience
- New print control options
- Improved handling for Notes
- Visualization multi-select
- Increased limits for export from visualizations
- PDF encryption
- Administrator mgmt. of self-service assets
- Performance insights for canvases & visualizations

### **Oracle Analytics Cloud**

- Web-based semantic modeler
- Semantic model markup language
- CX Unity and Sparkline connectors

## **Oracle Analytics Server**

 Annual Oracle Analytics Server Release including OAC features through Q1 CY 2022

## Oracle Fusion and NetSuite Analytics Warehouse Roadmap



### **NetSuite Analytics (NSAW)**

Beta Program

#### **Fusion HCM Analytics**

- Talent Performance
- Goals, Gains & Loss

#### **Fusion ERP Analytics**

- Spend Analytics
- GL/AP/AR Enhancements

#### **Global Expansion**

- Support of 10 Languages
- NA, EMEA, APAC

#### **NetSuite Analytics (NSAW)**

Sales, Payables and Inventory

#### **Fusion CX Analytics**

Beta Program

#### **Fusion SCM Analytics**

Beta Program

#### **Fusion HCM Analytics**

- Absence & Accruals
- Compensation

#### **Fusion ERP Analytics**

- Employee Expenses
- Multi-Calendar

#### **Global Expansion**

- Support of 10 Languages
- NA, EMEA, APAC, LATAM

#### **NetSuite Analytics (NSAW)**

• Financials and Manufacturing

#### **Fusion CX Analytics**

- Marketing Analytics (Eloqua)
- Sales Analytics (Sales Cloud)

#### **Fusion SCM Analytics**

- Order Management
- Inventory

#### **Fusion HCM Analytics**

- Talent Profile and Review
- Payroll

#### **Fusion ERP Analytics**

- POs, Receipts, Agreements
- Projects, Fixed Assets

### **Global Expansion**

- Support of all Fusion Languages
- NA, EMEA, APAC, LATAM

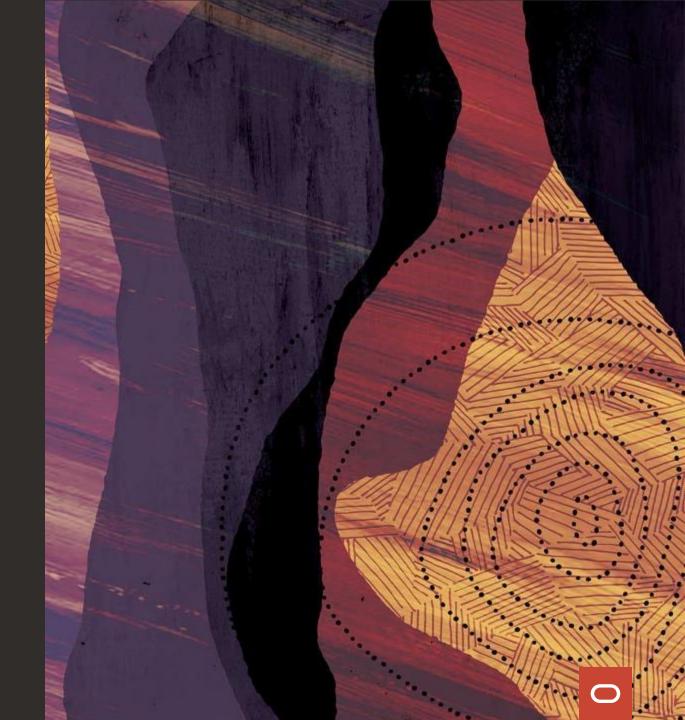
Q1 2021 Q2 2021 Q3 2021 Q4 2021

OAC 5.9 OAC 6.0 OAC 6.1 OAC 6.2

**OAS 5.9** 



## Thank you



## ORACLE