

# Oracle Analytics Product Management Update



**Philippe Lions**

Senior Director, Product Management -  
Analytics Platform, Oracle



## Safe harbor statement

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The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

# Oracle Analytics

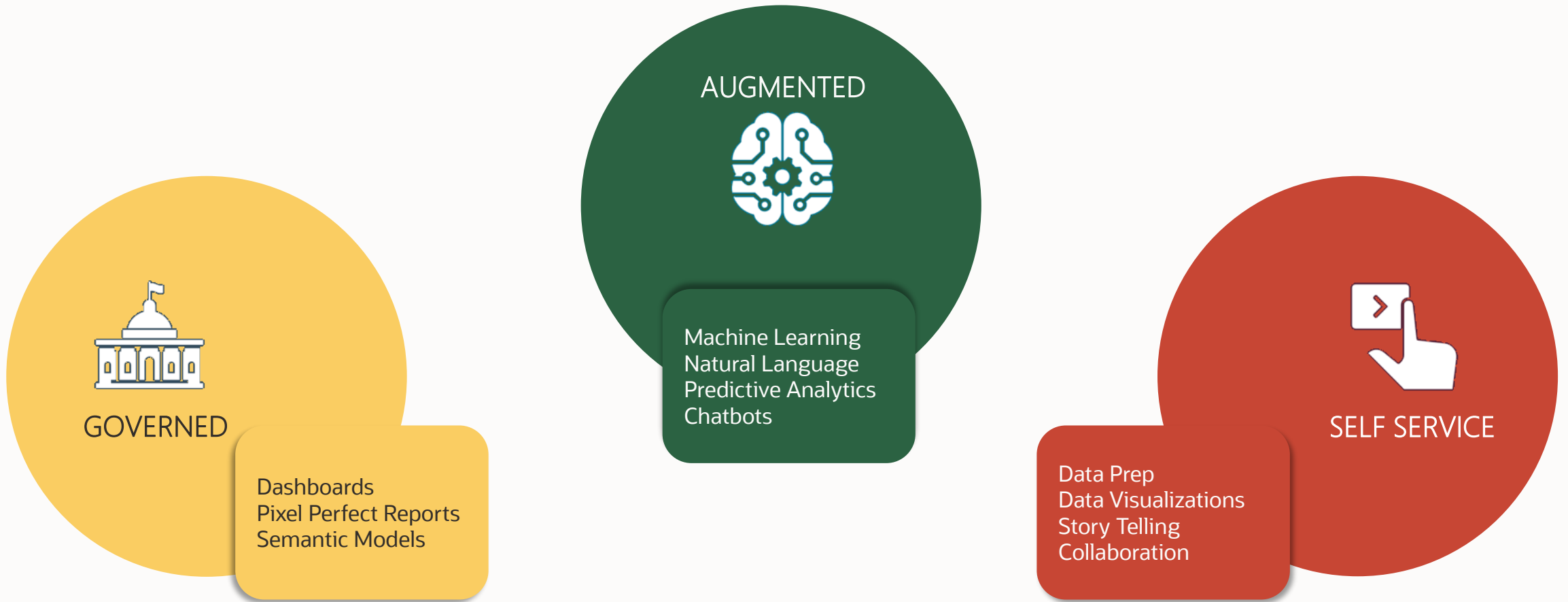
Complete Analytics Platform for  
Business Users, Developers and IT



Packaged Domain Analytics  
built on ADW and OAC

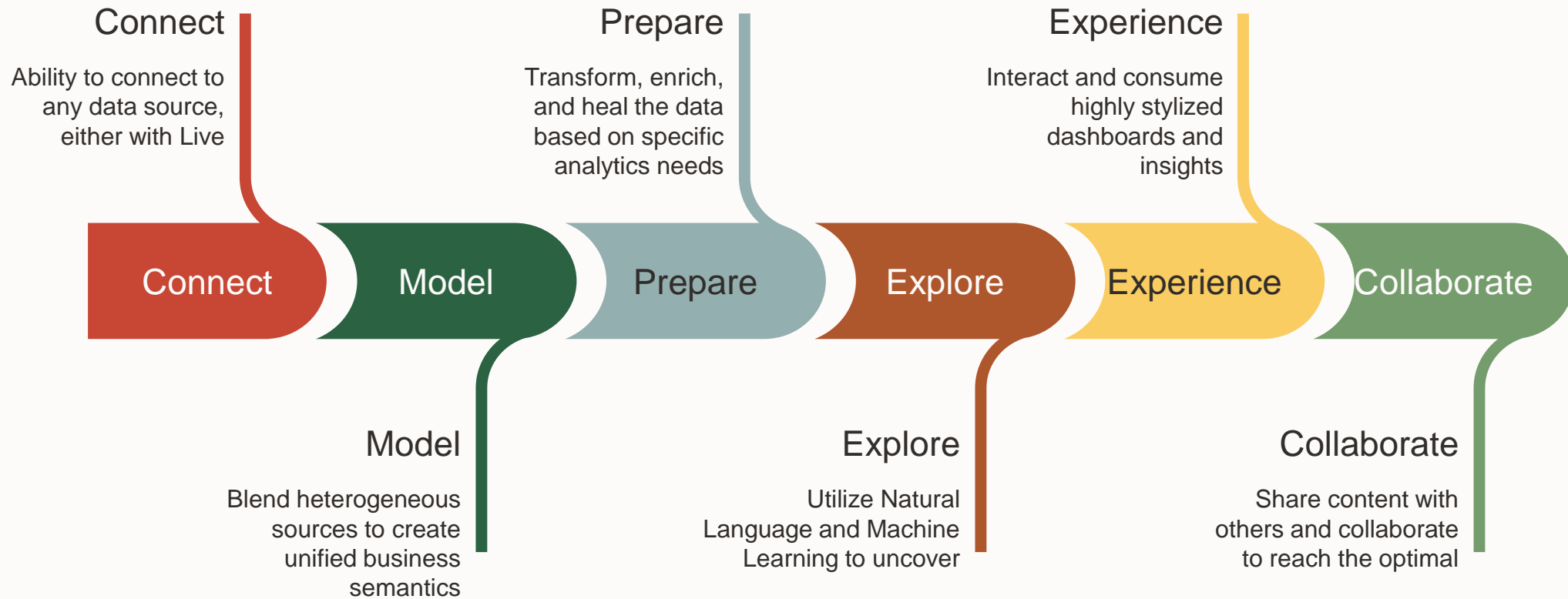


# Analytics Needs Across the Organization



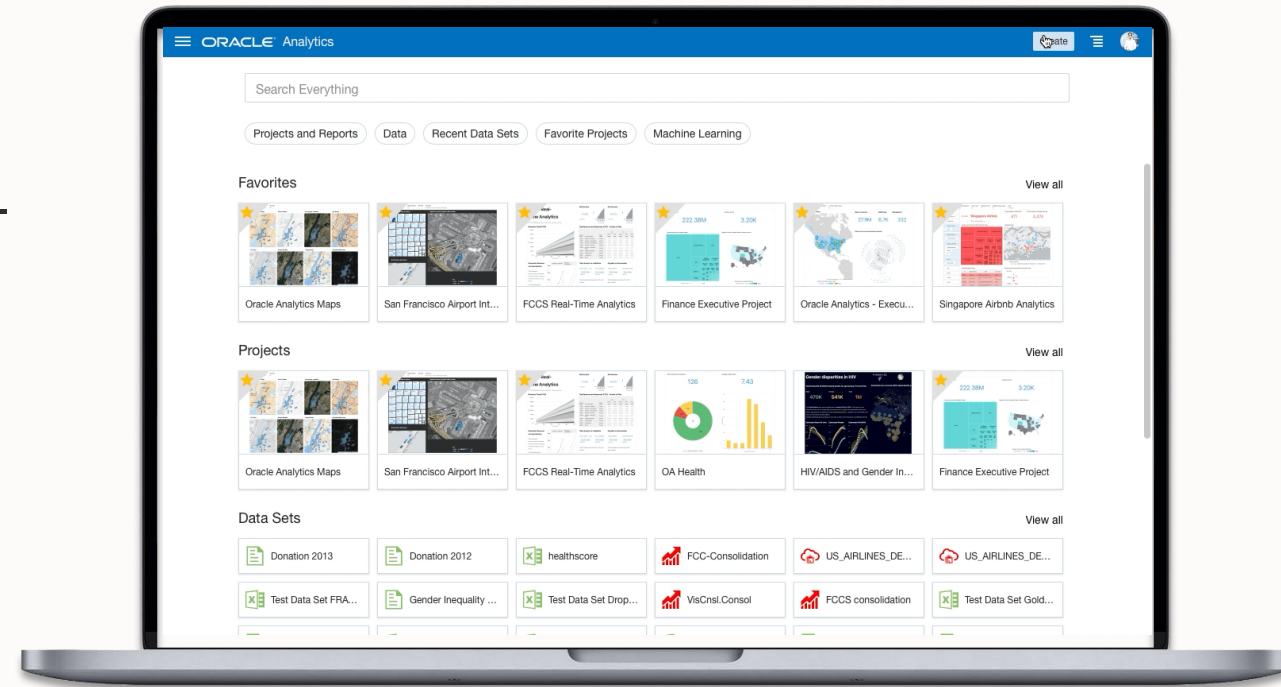
# Oracle Analytics

Complete Analytics Platform for Business Users, Developers and IT



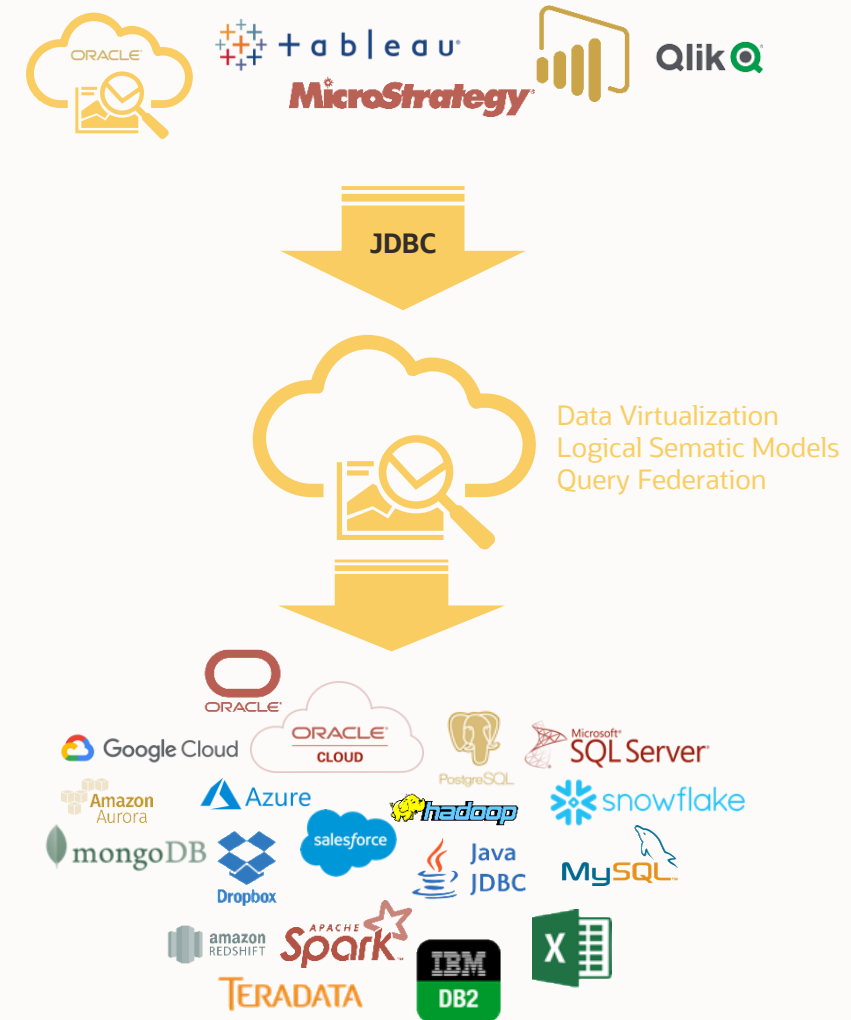
# Open Connectivity

- Dozens of built-in connectors
  - Relational, NoSQL, Big Data, SaaS, 3<sup>rd</sup> cloud, on-premises
- **Secure access** to Cloud Sources, On-Premises, SaaS Applications, and more
  - **Direct connectors to ERP, CX, HCM, EPM Cloud, NetSuite, Salesforce, and more**
- **Blend any data** regardless of source or type



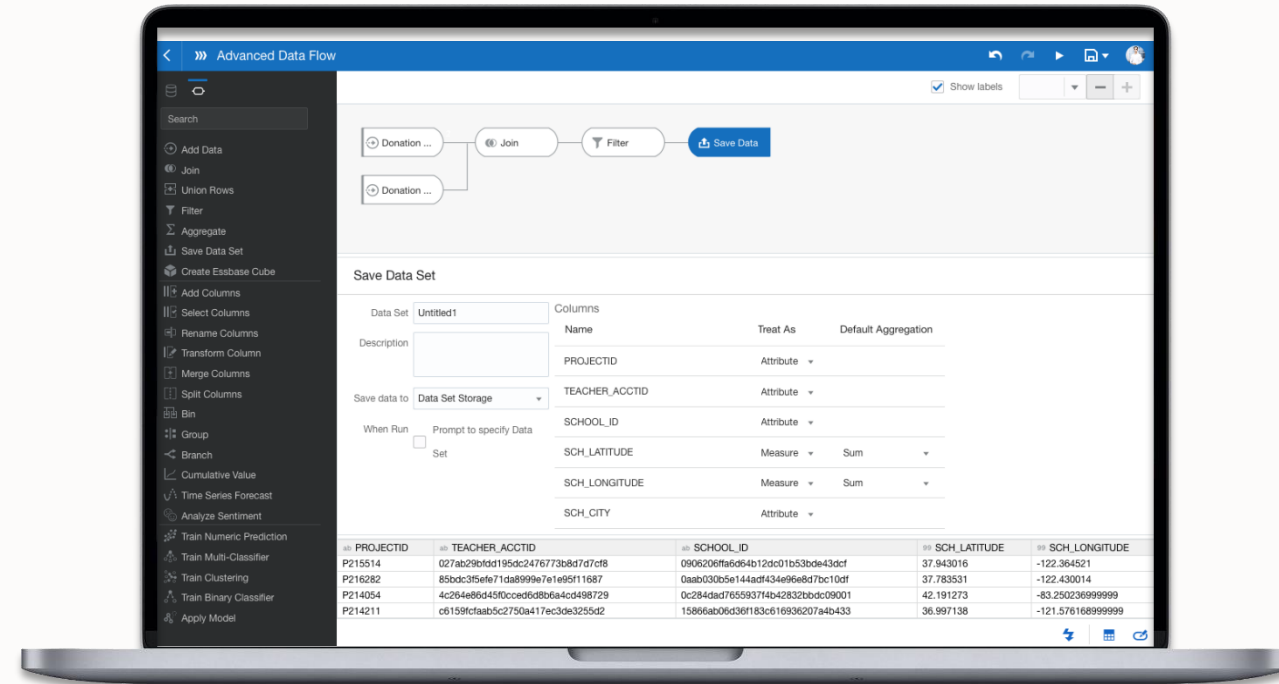
# Open Connectivity from Other Tools

- Open JDBC access to Semantics and Datasets
- Allow for organizations with diverse analytics tools
  - **Single source of truth** for metadata and metrics regardless of tool of choice
- Create homegrown applications accessing the Analytics data



# Integrated Data Preparation

- **Visual data transformation** for Business Analysts
  - Reduce the 'Export to Excel'
- Vast array of transformation capabilities
  - Join, Branch, Bin, Group, Filter, Aggregate, Custom calculations, and more
- Integrated scheduler
- **Machine Learning** capabilities to train and use predictive models
  - Linear Regression, Random Forest, CART, K-Means Clustering and more algorithms.
- Ability to consume Database Advance Analytics directly from the UI





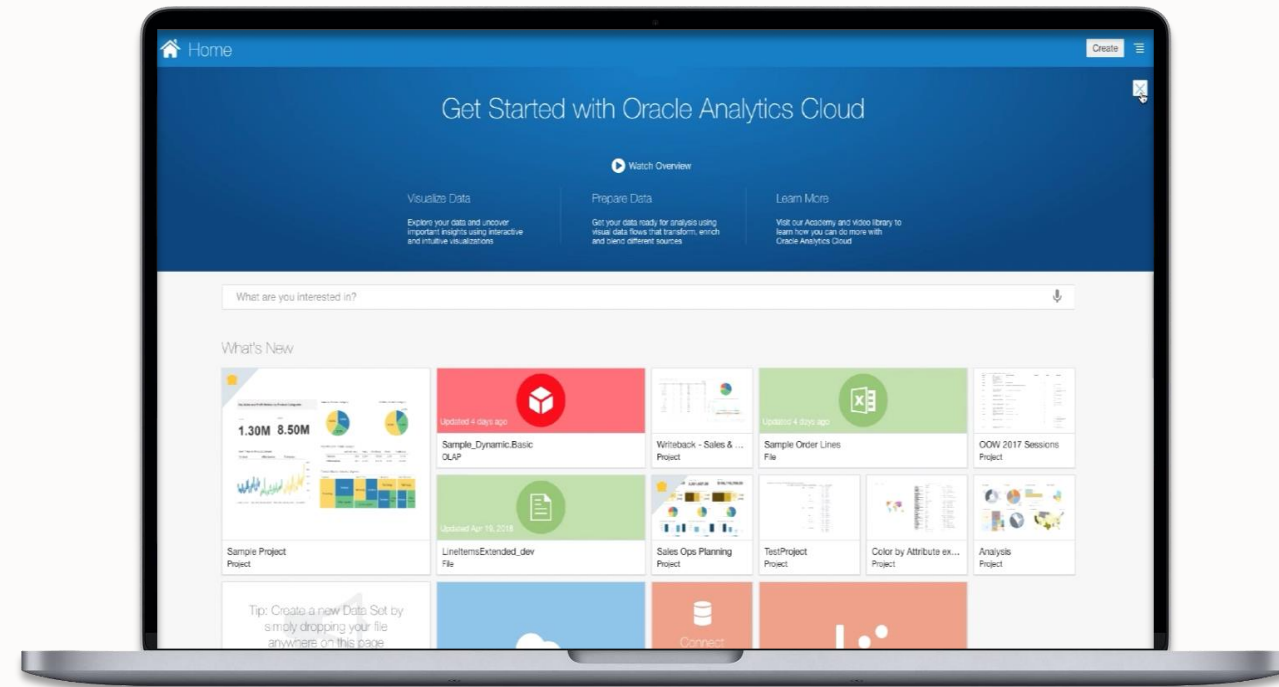
# Intuitive and Interactive Analytics

- Dozens of stunning visualizations
  - **>50 built-in visualizations**, dozens of plug-ins
  - “Beyond the basics” out-of-the-box visualization such as Sankey, Network, Pictogram, etc.
- Built in **geospatial analytics**, NLG, diagnostics and predictive analytics
- Create **custom visualizations in minutes** with built-in digitization tool
- **Open JS platform** (D3.js compatibility) for advanced plug-ins



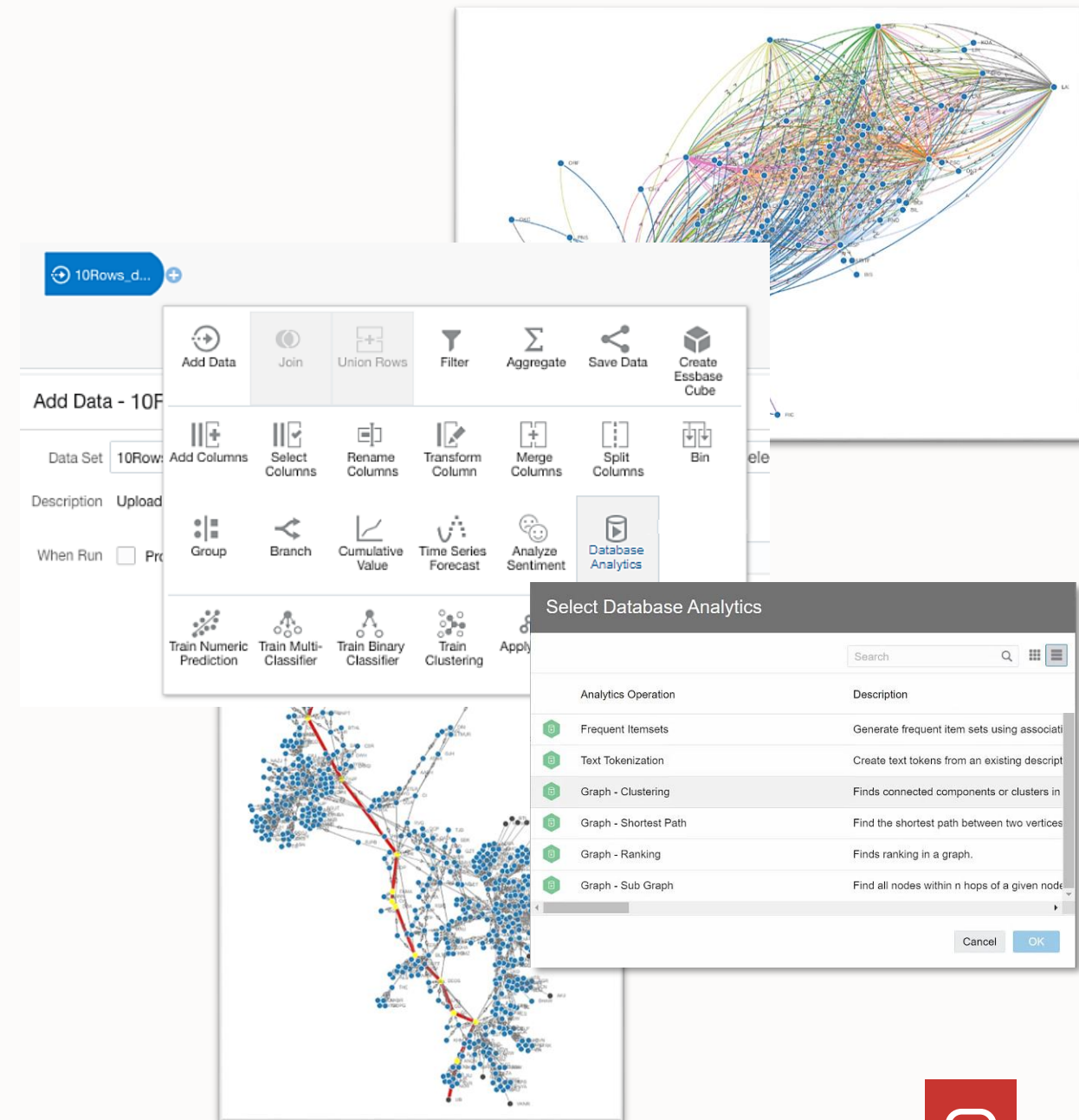
# Data Discovery and Exploration Using **Natural Language**

- **Find the right data – fast!**
  - Customers report spending **20-40%** of their time looking for the right data
- Ask any questions directly from the home page, mobile, or desktop
- Ability to scan all available sources for the best matched insight
  - Synonyms, abbreviations, auto-complete, dynamic filtering, dynamic calculation, time awareness, negation detection, and more
- Speech-enabled in 28 languages



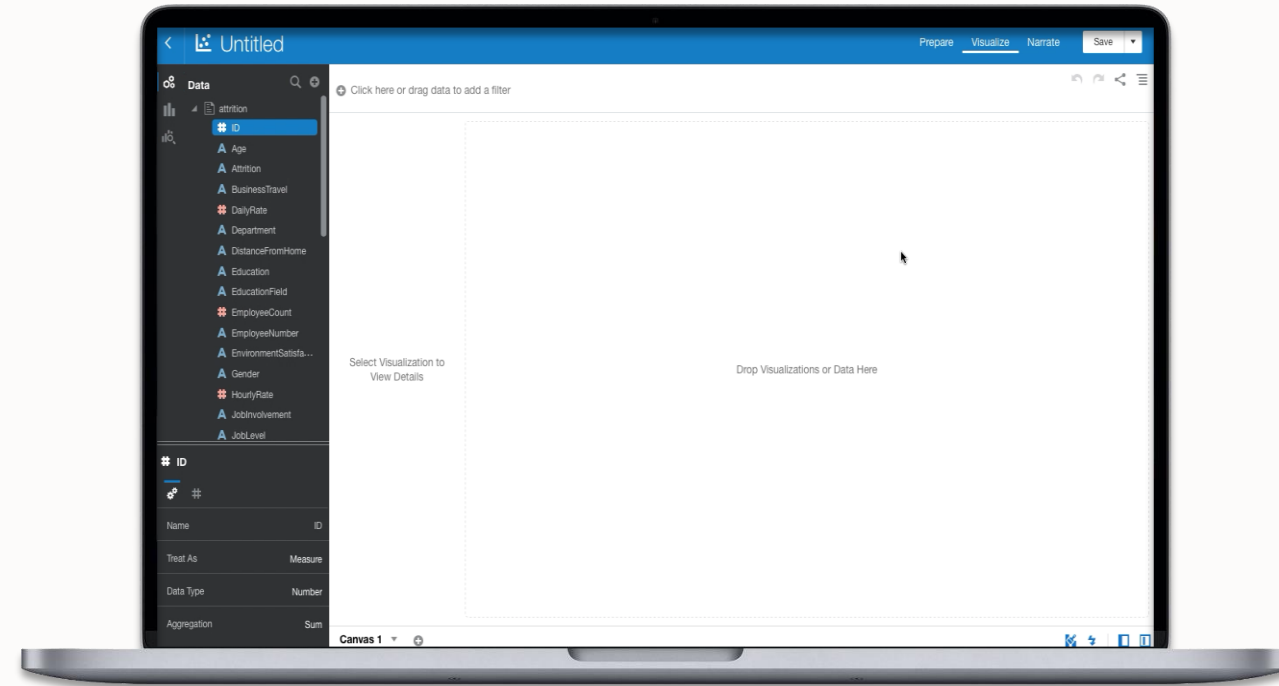
# Advanced Analytics At Scale

- Consume ML functions directly from the Oracle Database
  - Text Mining and Analytics
  - Market Basket Analysis
  - Graph Analytics
  - Pattern Matching
  - Approximate Analytics
- Register and use trusted ML models
  - Batch and/or transactional (live and interactive) predictions
- Compete explain-ability of the AI/ML logic for individual scored item



# Self-Service ML to Uncover Hidden Insights

- Automated Machine Learning Analysis and Insights
- With one click, ML algorithms analyze your data
  - Key drivers
  - Segmentation
  - Anomalies and outliers
- No PhD Required
  - Designed for users of any level
- Got a PhD?
  - Bring or train your own models



# Heal and Enrichment

- Patented **deep data profiling** identifies the specific role of each column
- ML based recommendations for
  - Fixing bad formatting
  - Transformations
  - Remove sensitive information
  - Enrichment based on system and custom knowledge

The screenshot displays a data tool interface with several panels. On the left, a 'Transformations' panel lists options for extracting information from birthdates. In the center, a 'Identify Sensitive Data' panel shows options for obfuscating and deleting SSNs. On the right, an 'Enrichment' panel lists various ways to enrich data using provider zip codes. At the bottom right, a 'Healing' panel shows a 'Repair phone' option. The background shows a data table with columns for provider information, phone numbers, and dates.

### Transformations

- Extract Day of Week from birthdate
- Extract Day of Month from birthdate
- Extract Day from birthdate
- Extract Day of Year from birthdate
- Extract Month of Year from birthdate
- Extract Quarter of Year from birthdate
- Extract Quarter from birthdate
- Extract year from birthdate

### Identify Sensitive Data

- Obfuscate Digits of ssn
- Obfuscate First 5 Digits of ssn
- Delete ssn

### Enrichment

- Enrich provider zip with City
- Enrich provider zip with Lat
- Enrich provider zip with Lon
- Enrich provider zip with State
- Enrich provider zip with County
- Enrich provider zip with Population\_Largest\_City
- Enrich provider zip with Elevation\_Meters
- Enrich provider zip with Timezone
- Enrich provider zip with State\_Code

### Healing

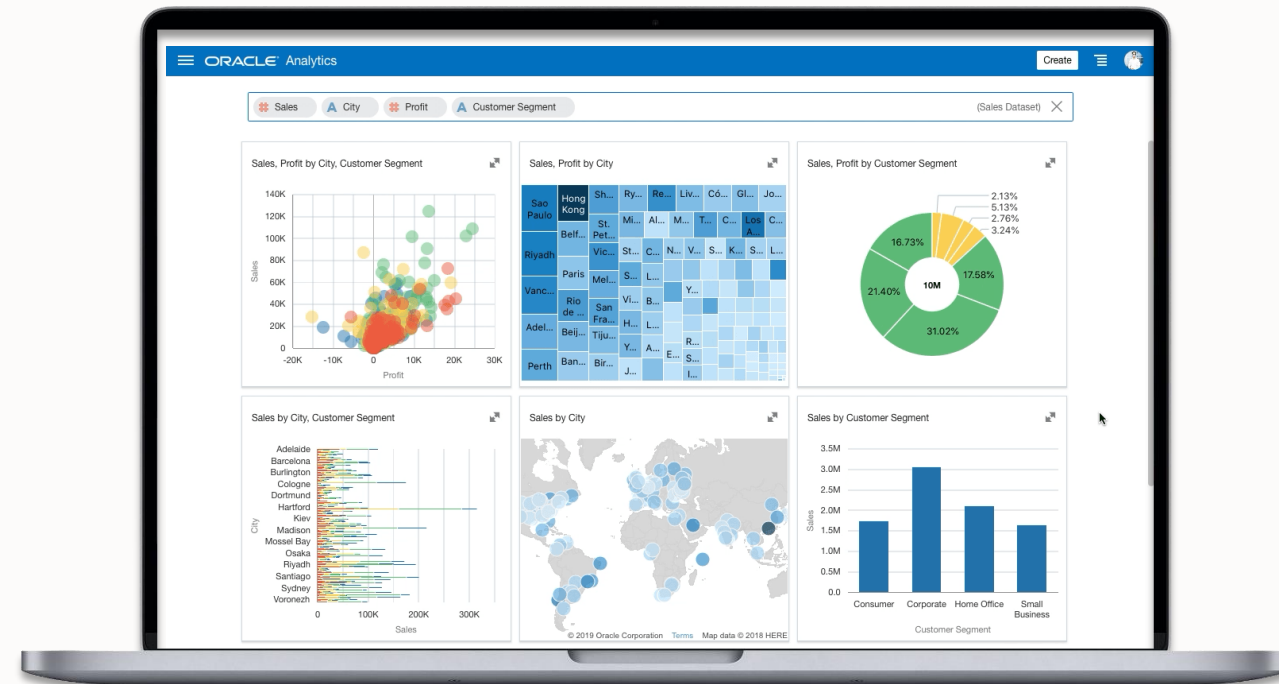
- Repair phone

Transformation Script      Data and Live Metadata Preview      Recommendations



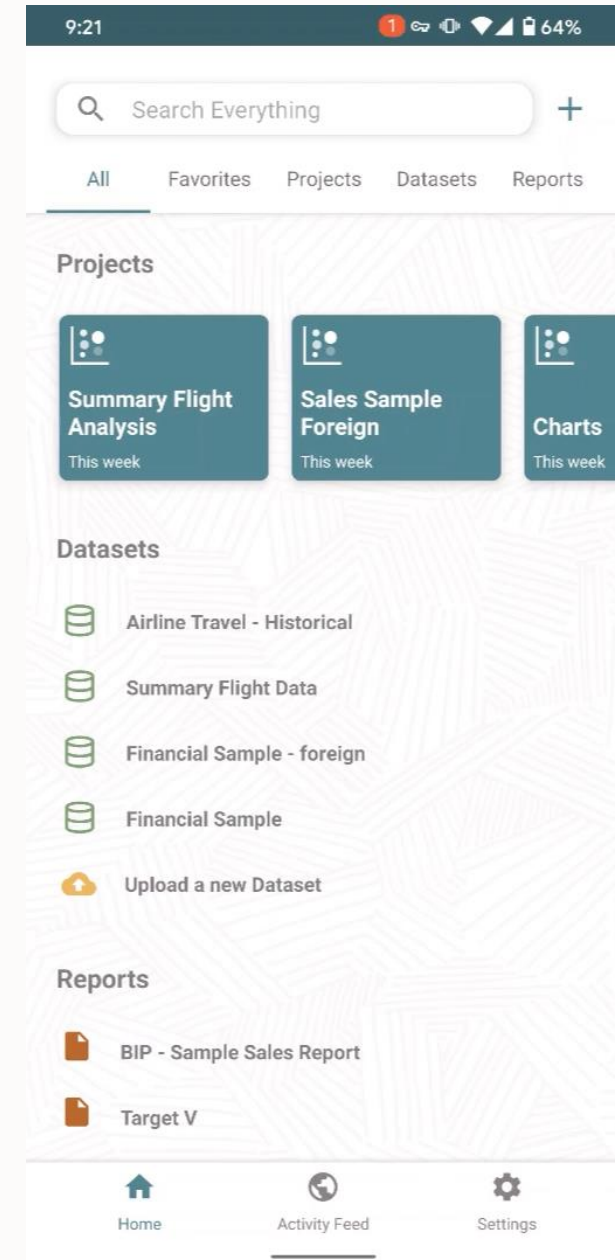
# Natural Language Narratives and Explanations

- Fully embedded NLG engine
- Describe data insights with a dynamically generated language narrative
- Multiple languages, various levels of verbosity, various observations (trends, outliers, clusters, etc.)
- Dynamic and fully automated

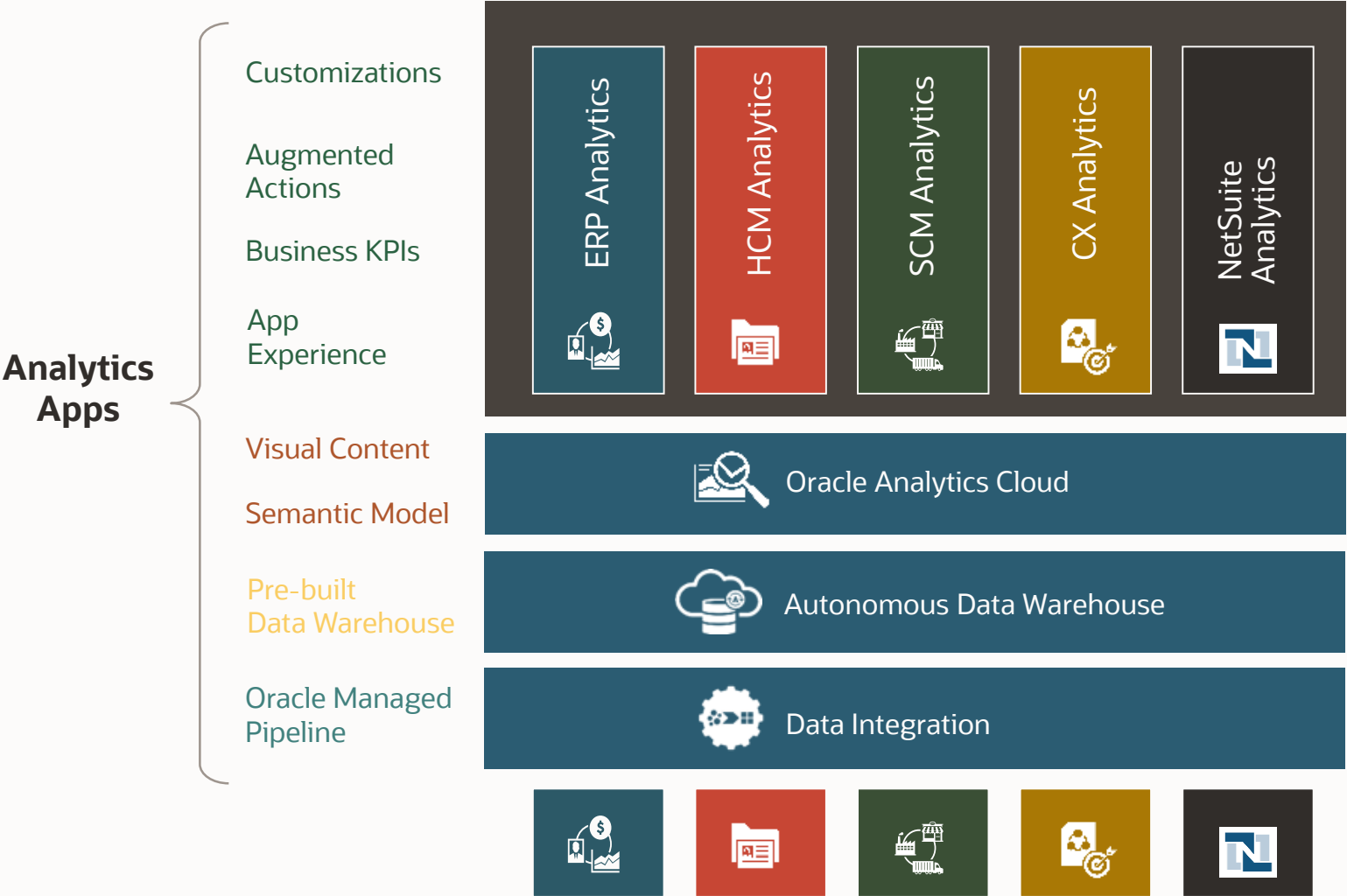


# NextGen Analytics on Mobile

- Access to predictive, personalized, and proactive analytics on iOS and Android devices
- Anticipates events and need to deliver appropriate insights proactively
  - Learned behavior, interests, and preferences
  - Infuse insights into daily activities based on your interests
- Mobile specific capabilities to fit on-the-go consumption of information



# Pre-Built Analytics Solutions





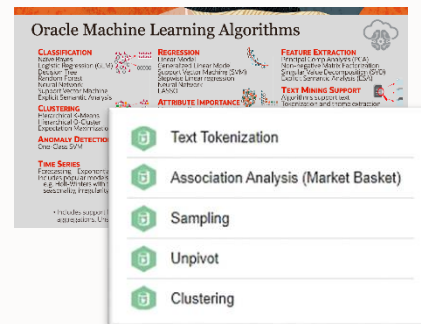
# Oracle Analytics Server 5.9

Dozens of new features that came to OAC in 5.6, 5.7, 5.8, and 5.9

## Advanced Visualizations with Digitized Images



## Oracle Machine Learning Integration



## New Connectivity Options



## Enhanced User Experience



# Oracle Analytics 5.9 **Selected Features**

## Visualization and Experience

- Improved Overall Content Density
- Sorting Enhancements
- Pass multi-value selection in Data Actions
- Filters Experience Improvements
- WYSIWYG exports to PDF/PPT
- Viz Update - Area Chart
- Support WMS/XYZ Web Maps as backgrounds

## Datasets and Platform

- Increased data export limits (CSV, Excel)
- Data Prep Improvements - Auto-fix Zip codes, single click trim function
- Impersonation for Kerberos connection
- Snapshot bar option for Day by Day content
- Override Database-Feature-Support Configuration

## Machine Learning and Advanced Analytics

- Explainable AI capabilities with Oracle Machine Learning
- Prediction Set and Prediction Details from the scoring process
- Model Metadata - Related Datasets within the model inspector
- Frequent Item-sets (Market Basket Analysis)
- Text Analytics: Text Tokenization

# Available Resources

- Public OAC sandbox
  - [Oracle.com/OACLIVE](https://Oracle.com/OACLIVE)
- Oracle Analytics Library
  - [bit.ly/OAClibrary](https://bit.ly/OAClibrary)
- Udemy Courses
  - [bit.ly/OACourses](https://bit.ly/OACourses)
- YouTube Channel
  - [bit.ly/OACtube](https://bit.ly/OACtube)
- OA Idea Lab
  - [bit.ly/OAIdeaLab](https://bit.ly/OAIdeaLab)

