

ORACLE®

The Safe Harbor

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, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

La gestione del dato Sanitario

Sicurezza e Cloud nell'era dei Big Data

Luigi Scappin

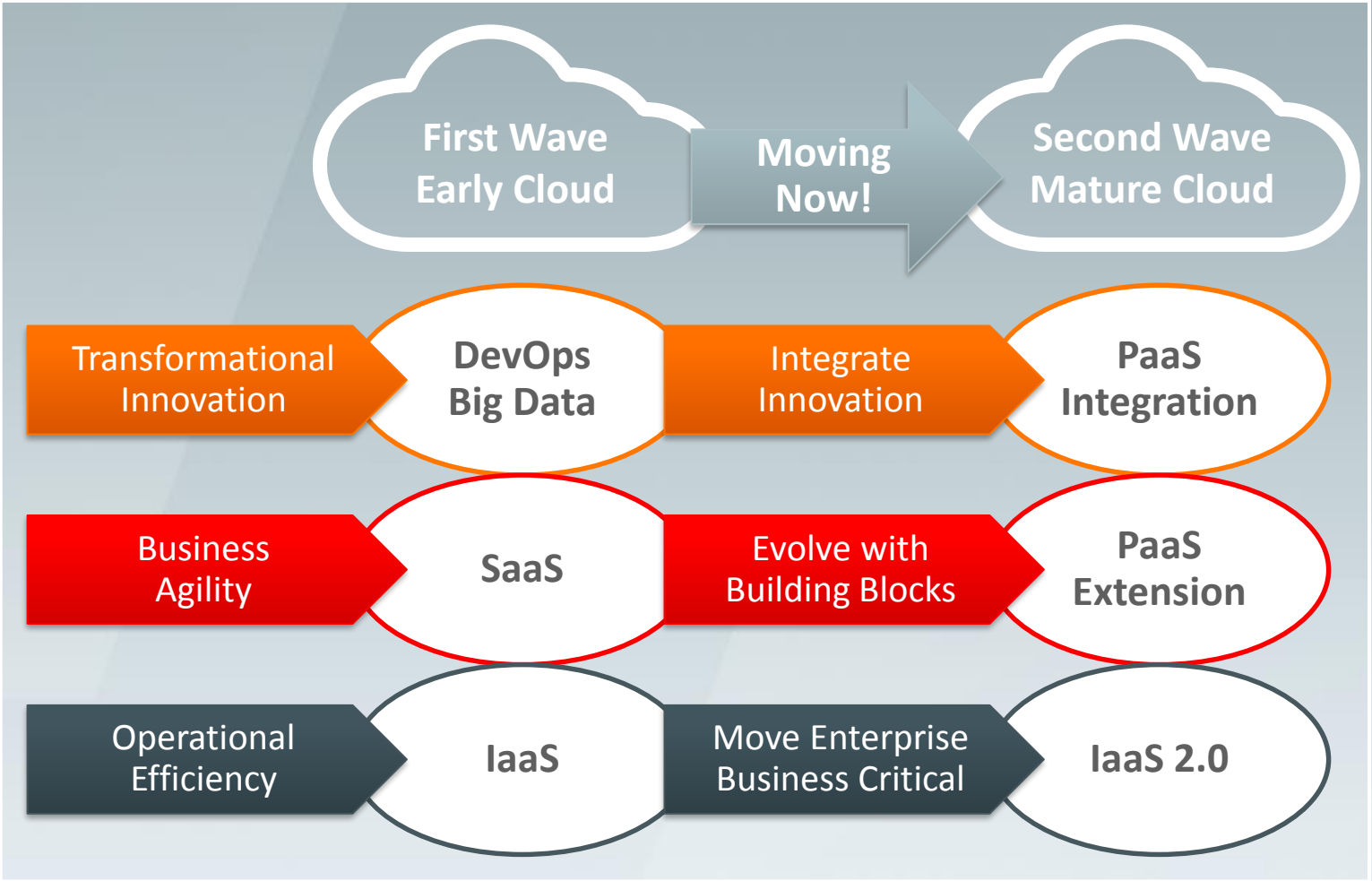
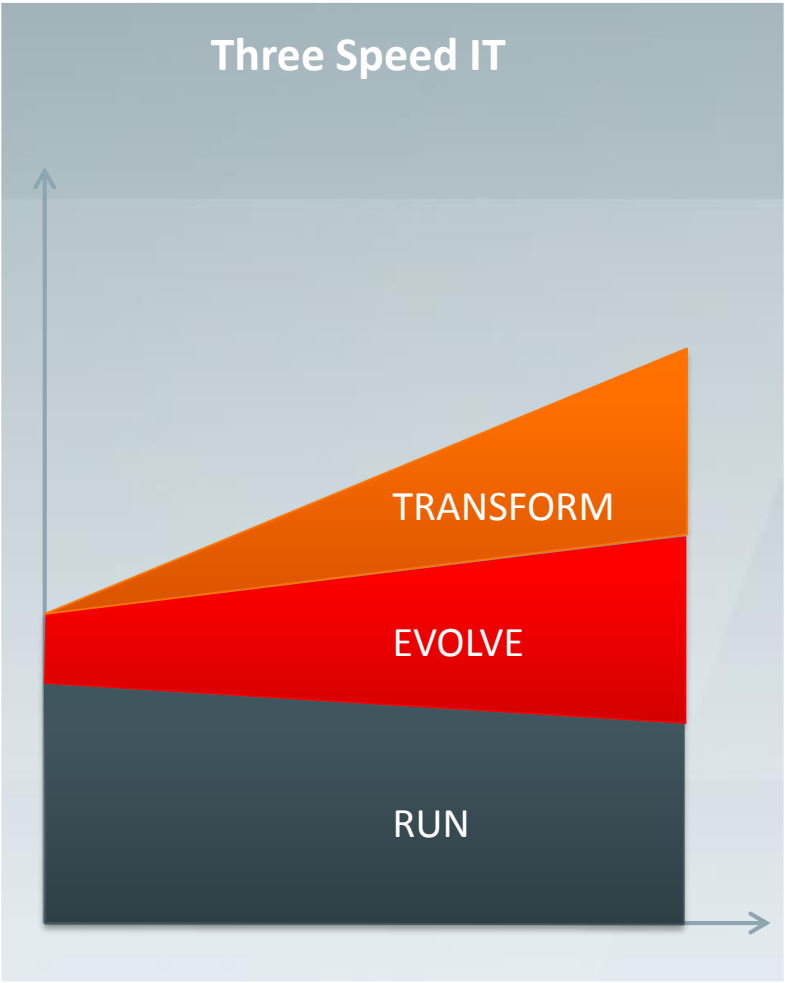
Sales Consulting and Business Solutions Senior Director

Oracle Italy

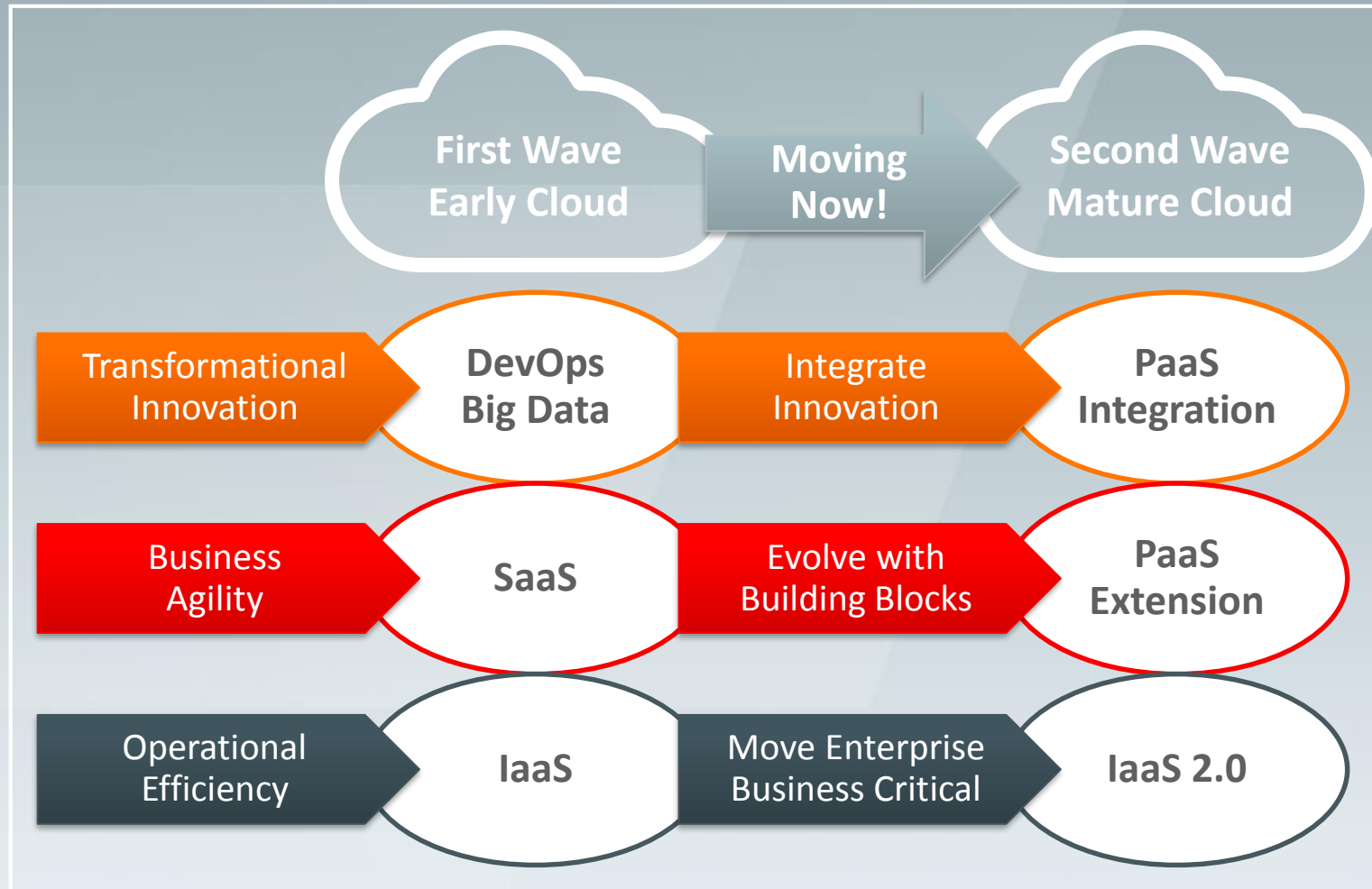
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Moving to Cloud Maturity

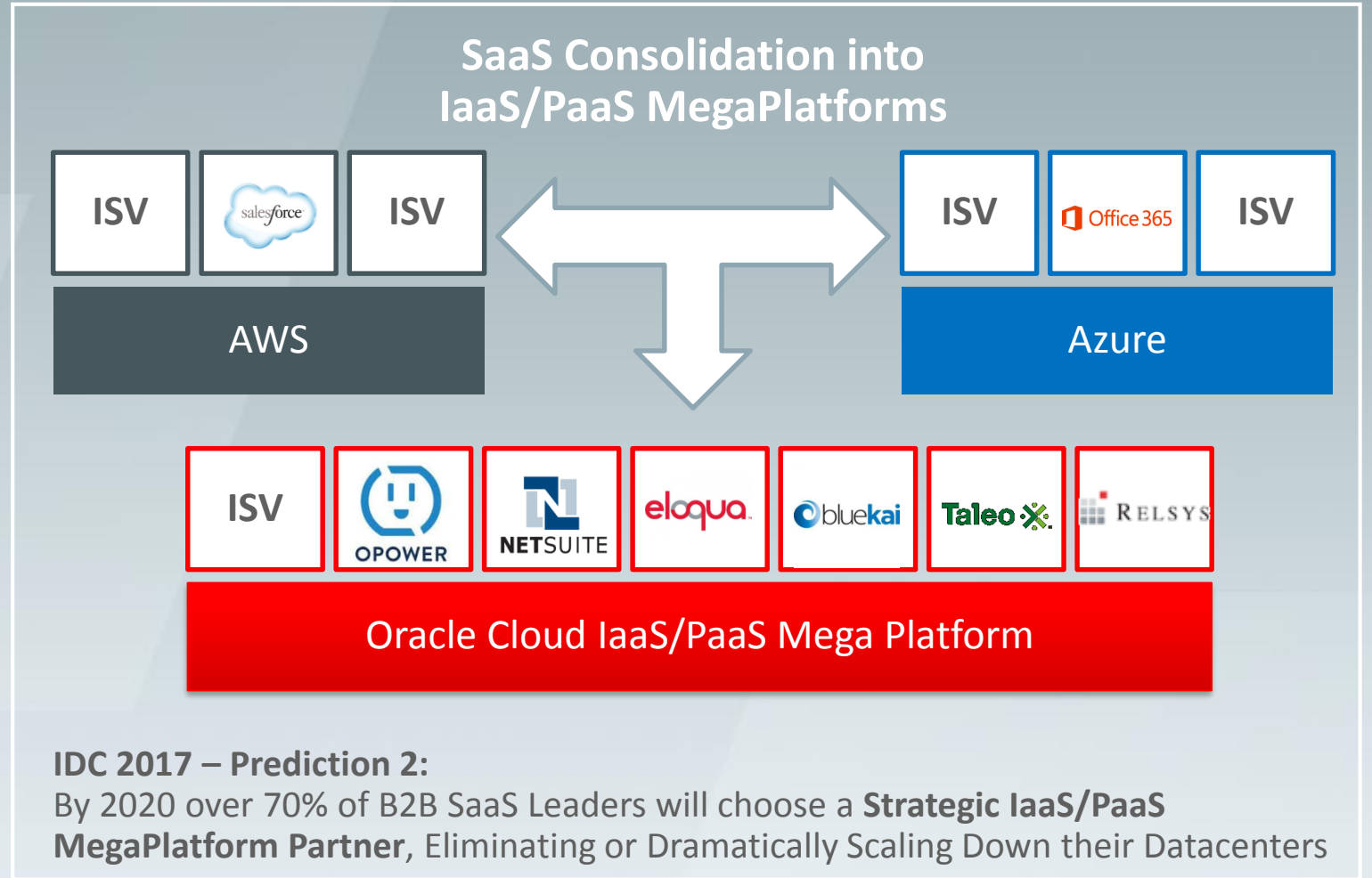
Grow Up, Now!



Customer Journey to Cloud brings to... an Enterprise and Integrated... One Cloud!



SaaS Consolidation into an Enterprise Grade IaaS/PaaS Mega Platform



Data Sources & Formats

Not Addressable with Traditional EDW Tools

- Admitting/Discharge notes
- Pathology reports
- Radiology Reports
- Surgical Summaries



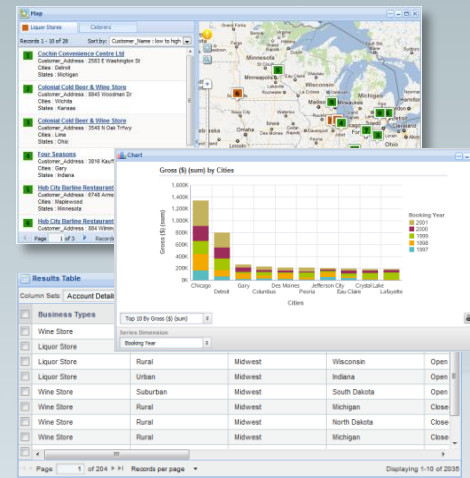
EMR Sources

- Patient to Provider Emails
- Texts & Chats
- Triage/Call Center Notes
- CCD Documents



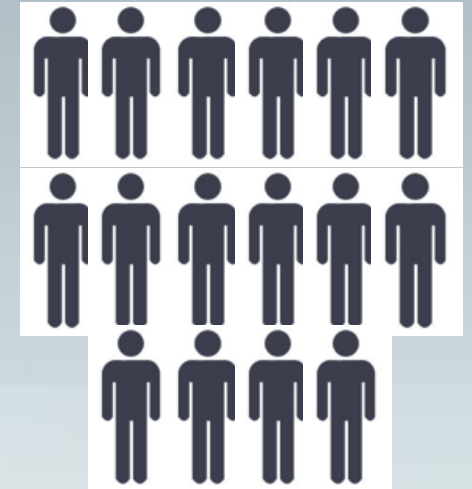
Pt. Portals - Call Centers - HIEs

- All-Payer Data
- Socio-Economic Data
- Retail Rx Data
- Environmental Data



Population Data

- Twitter
- Facebook
- Instagram
- LinkedIn



Social Media



PLUS: A deluge of home monitoring data coming your way...

Data Capital Architecture Leaving Data in Place

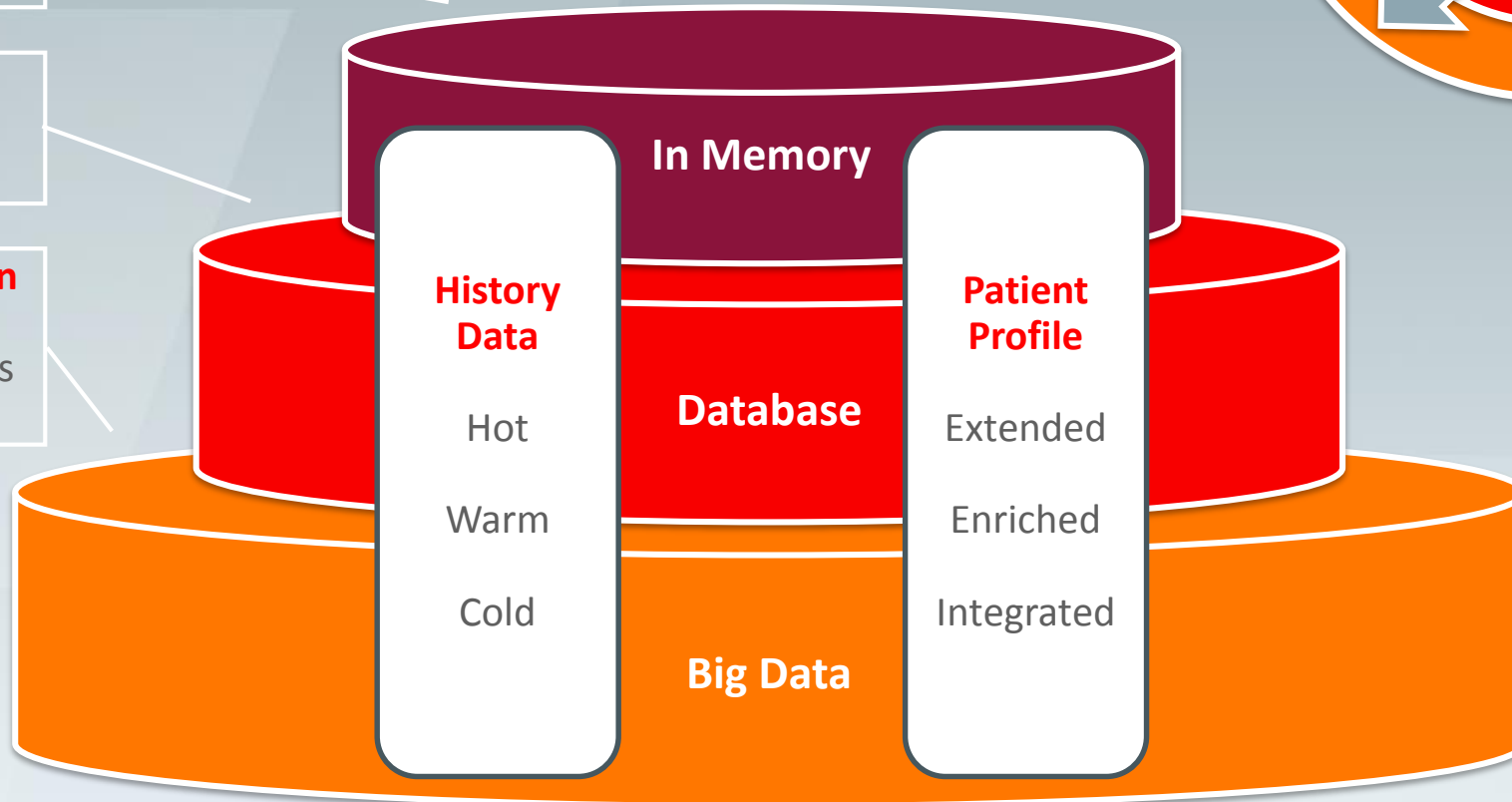
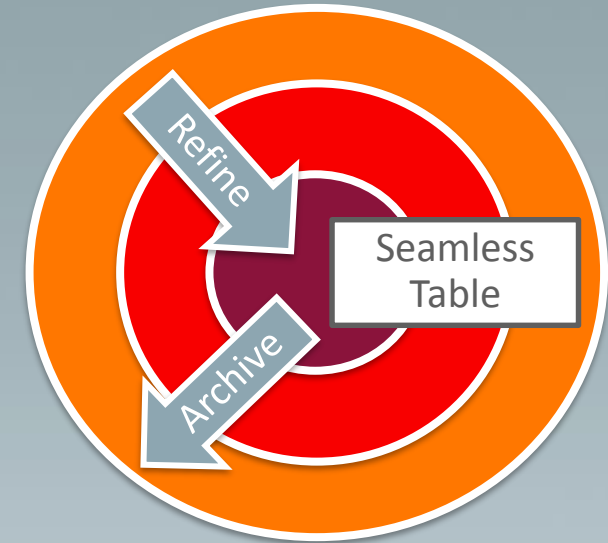
Operational Access and Queries
Real Time Analytics
Fast Queries

Analytic Access and Queries
Data Transformation
Data Modeling

Data Ingestion and Preparation
Massive Data Transformation
Stream and Advanced Analytics
Data Discovery

**Analytics
Data Security**

**Operational
Data Security**



**Data
Governance**
Meta Data
Dictionary
Lineage
Profiling
Quality

Data Lab "disposable"



Data Scientist

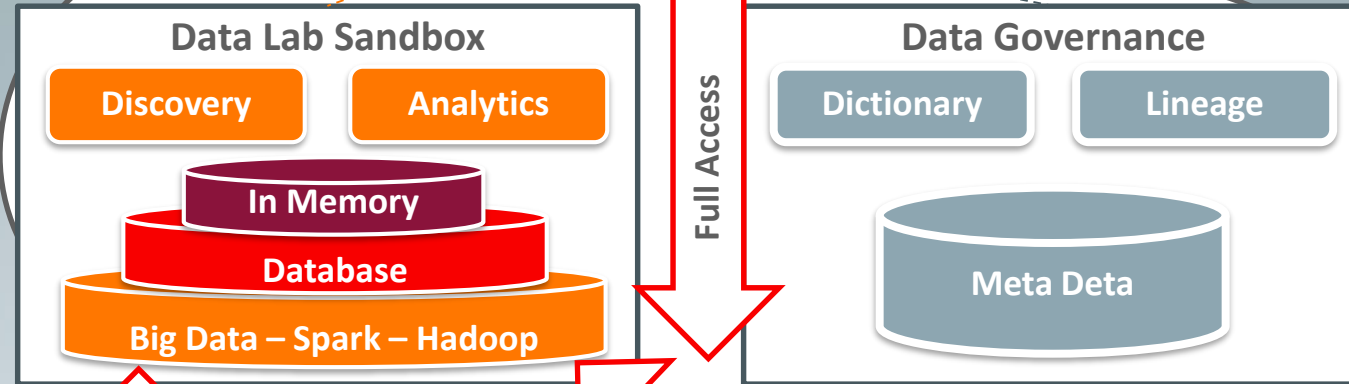
Lineage
Quality
Right to be Forgotten

Data Owner

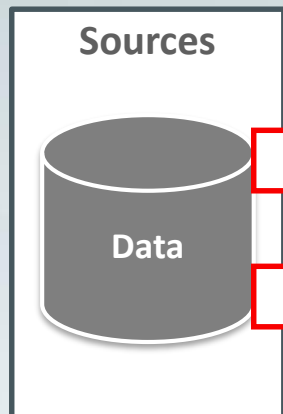


Approval
Masking
Limits
Time

Process

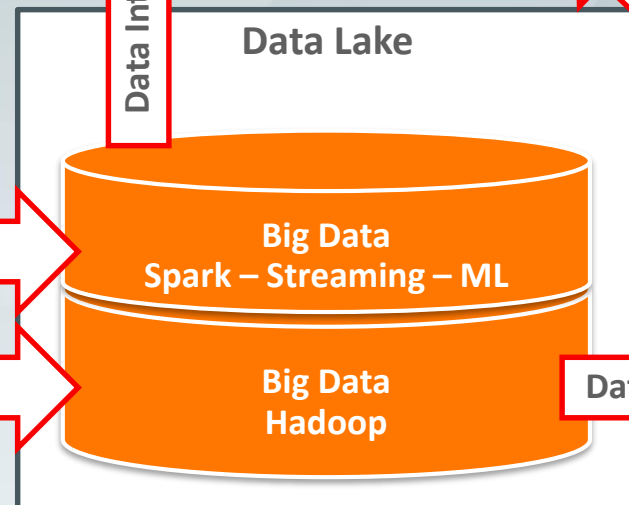


Business User

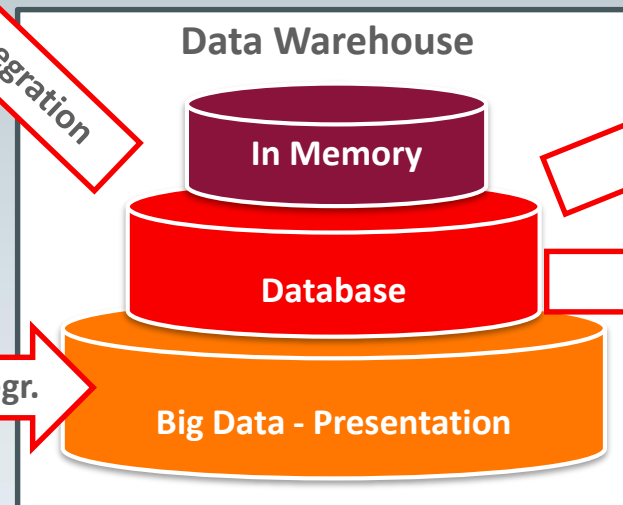


Real Time

Batch



Data Integr.



API

SQL

Data Lab To Find Savings and Cost Reductions in Health Care Budget

- United Kingdom's National Health Service
- Identify billing and identity fraud
- Optimize treatment by reducing use of less effective medical procedures
- Deployed Oracle Advanced Analytics, and Oracle Business Intelligence on Oracle Exadata and Oracle Exalytics

"With one vendor providing the whole solution, it's very easy for us."
Nina Monckton, NHS BSA

\$156M

Potential savings identified



DALL - Data Analytics Learning Laboratory

Data Scientist, Data Consultant, Statisticians, Data Lab Coordinator, Information and Data Analyst Team initially supported by Oracle experts

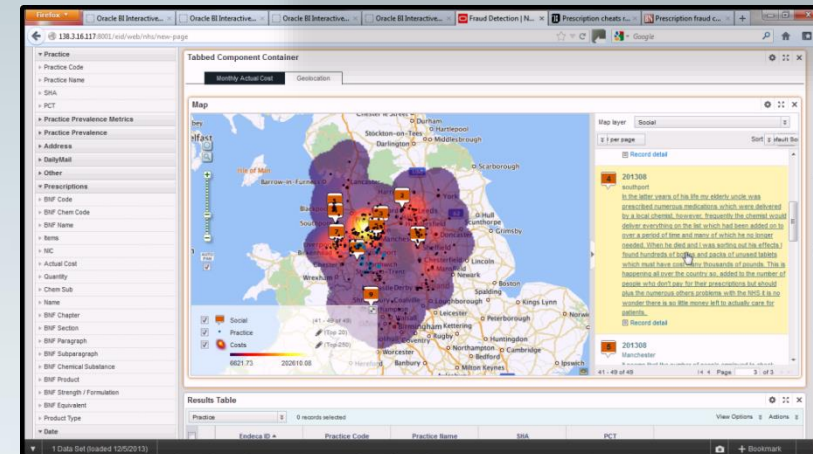
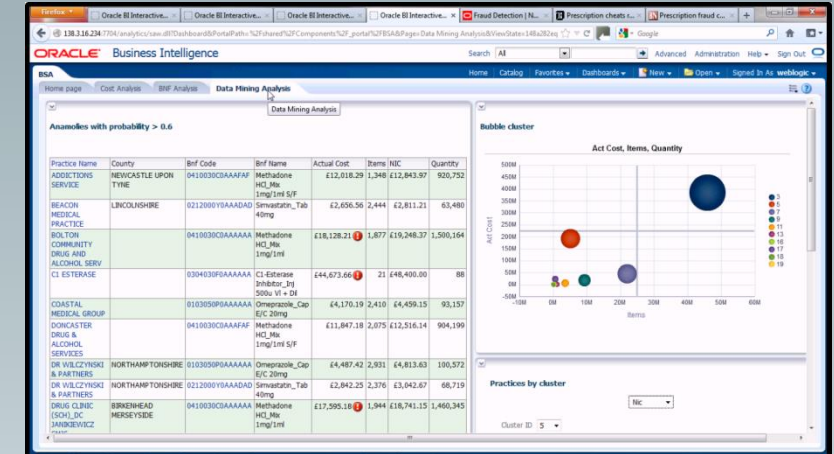


Preventing Fraud for Health Insurance Card

Analyzing Billions of Records in Minutes (prescription)

analyzing much larger sets of patient data, the NHSBSA can provide insight that is helping to improve standards of care

Analyzing Unstructured Text to Measure Satisfaction



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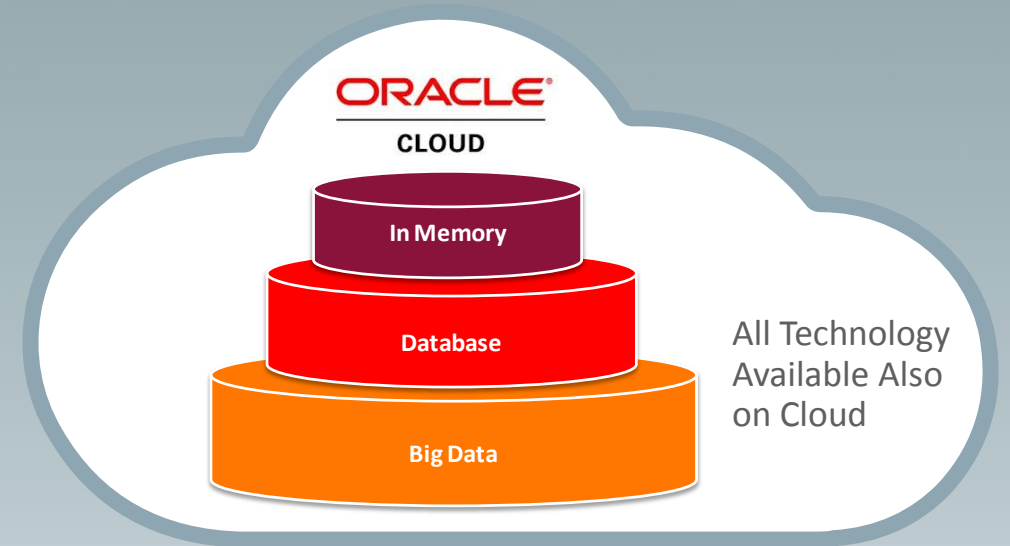
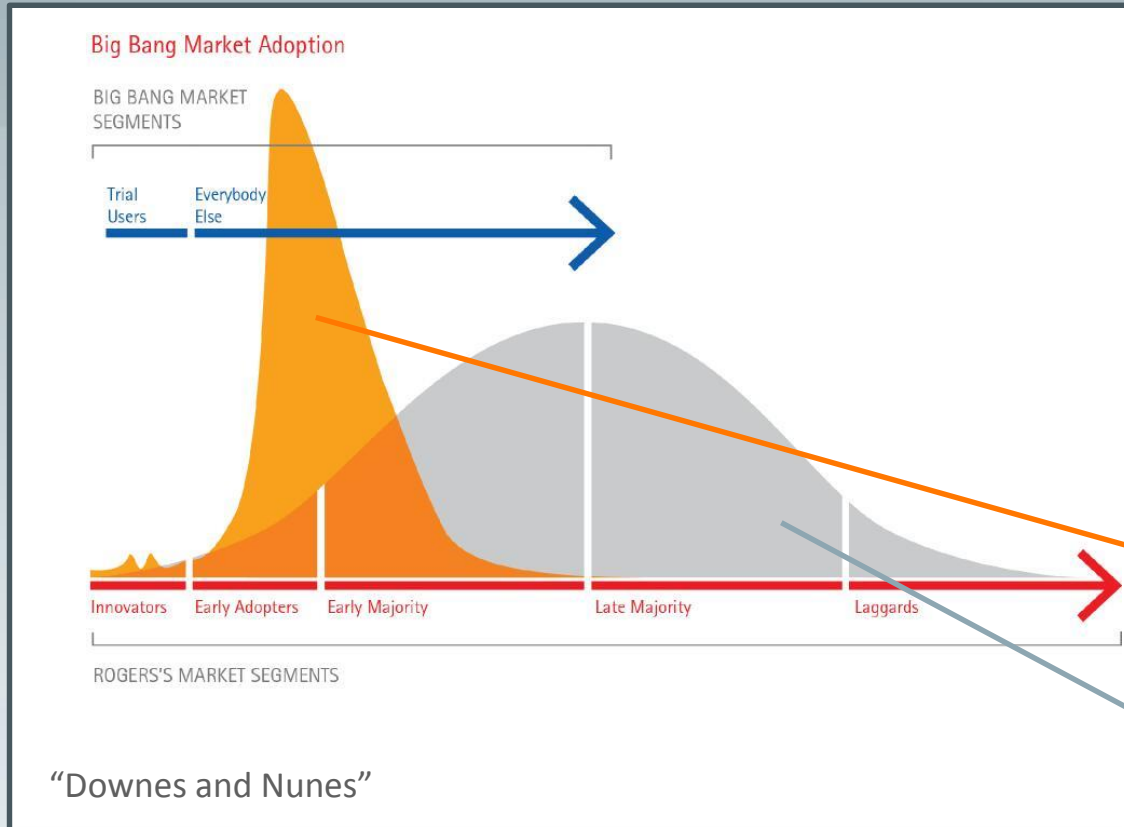
Our target for 2015/16 is to highlight at least £200 million of potential savings for the NHS through the DALL. The thermometer below shows what :



The DALL, however, isn't purely about saving money as we can also provide valuable insight into patient care, safety, probity and quality within the NHSBSA and wider NHS.

The Shark Fin Of Digital Transformation

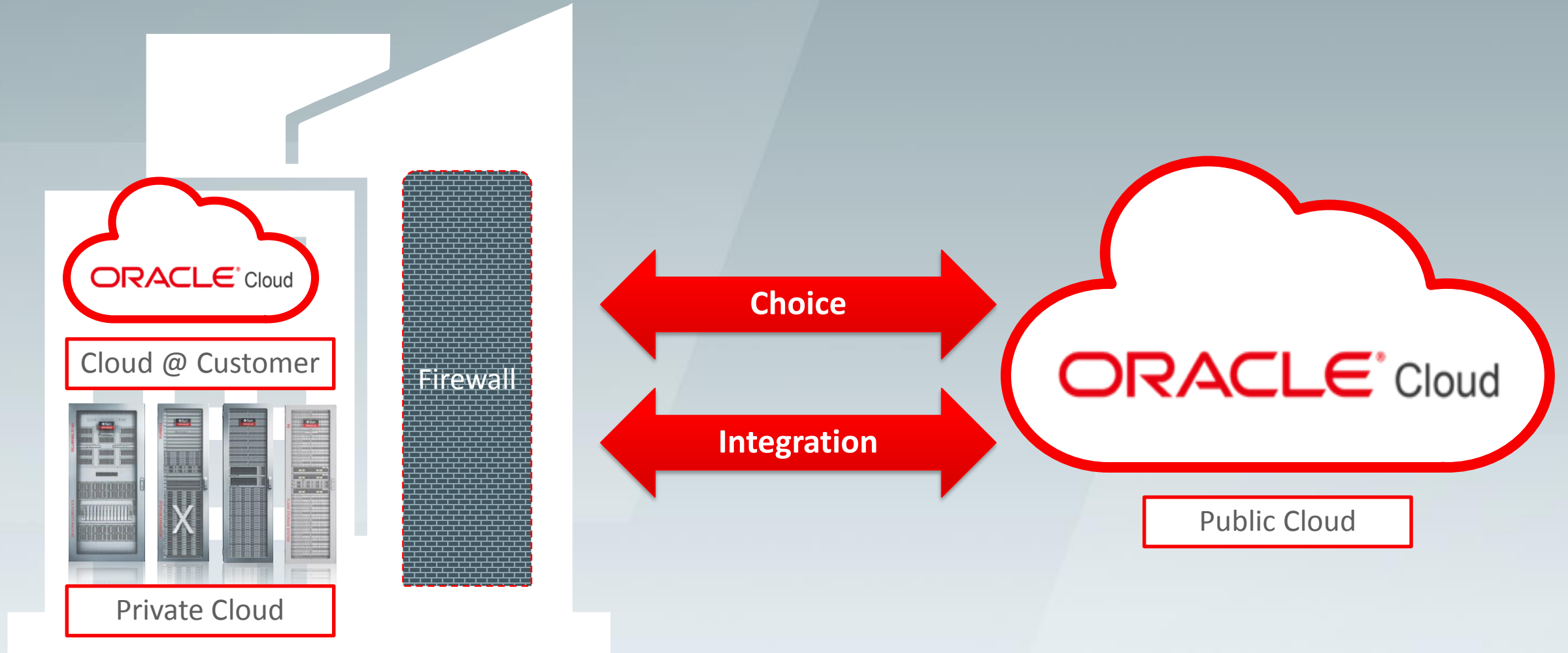
Business Agility goes to Cloud



Innovative Business Cycle
Try, Innovate, React
From Beta to Enterprise in a “Big Bang”
Test, fail and restart

Traditional Business Cycle
Plan, Provision, Engineer
Business Case to Ask for Big Investment
Avoid Any Possible Risk

Hybrid Cloud Your Choice – Transparent Integration



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