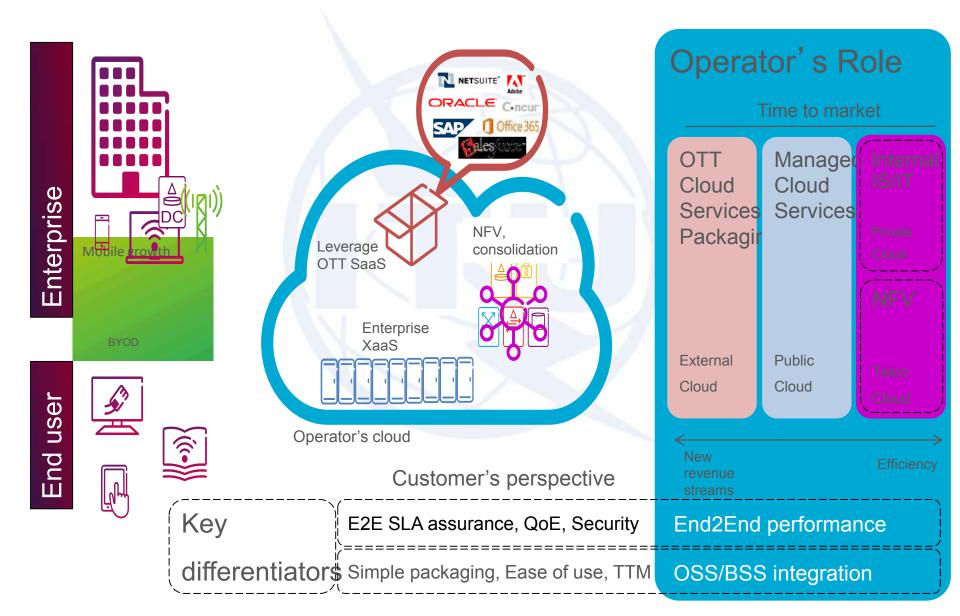


Telco Cloud and Using Big Data to Improve Customer Experience and to Drive new Revenue Streams

Mohamed Aly Eladel – Senior Consultant Ericsson

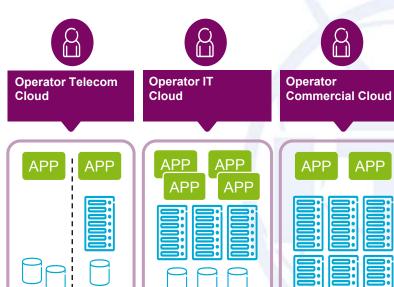
Operator Cloud Opportunities







Enterprise wide Transformation



Highly Specialized

Broad Functionality



Highly Standardized

Operator Telecom

Operator IT Cloud

Operator Commercial Cloud

APIs, Exposable Services & Assets

Cross-Domain Orchestration

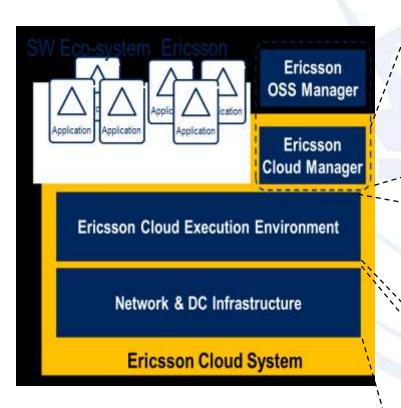
Integrated Network Analytics & Control

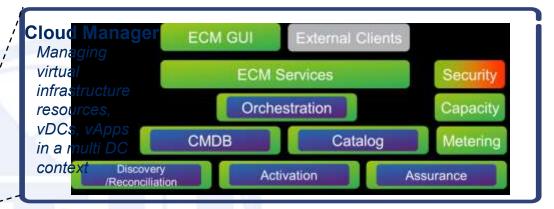
Virtualized Network Functions

Abstraction & Virtualization



The network enabled Cloud Ericsson Cloud System (ECS)









BUILDING TELECOM GRADE PERFORMANCE

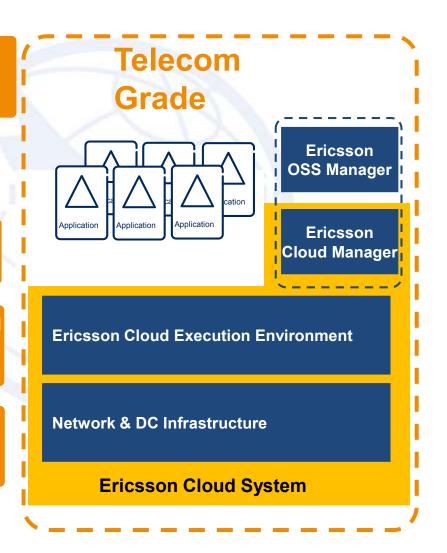
Complete knowledge for building integrating & managing solutions

Integration with existing OSS

Tools and Processes for e2e telecom and IT operations

Security hardened, virtual FW , advanced Load Balancer

Resilience, redundancy, latency, availability, power efficiency





Big Data Analytics



Understanding data

What is data? A Customer's record, Subscriber's telephone # and address, a retail ticket, an insurance claim, an inventory list, a sales order, a flight ticket...etc.

















CHANGING NATURE OF data

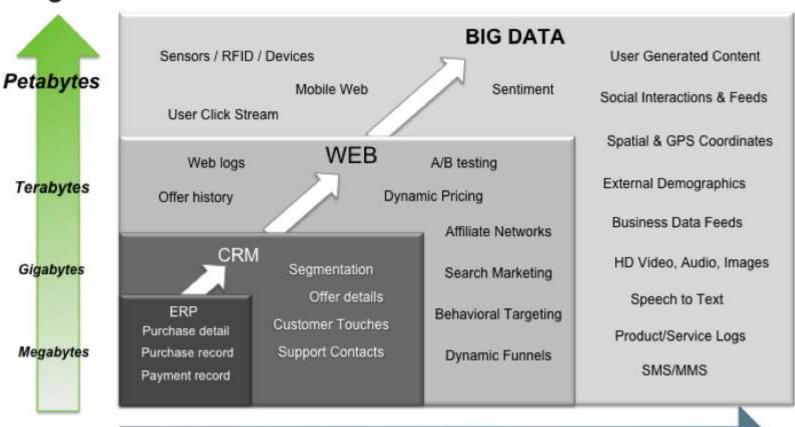
• The manifestation of data has changed dramatically over the last few years. Data today is quite different from what data used to be a few years ago!

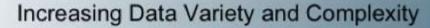


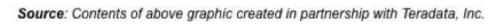


Evolution of big data

Big Data = Transactions + Interactions + Observations

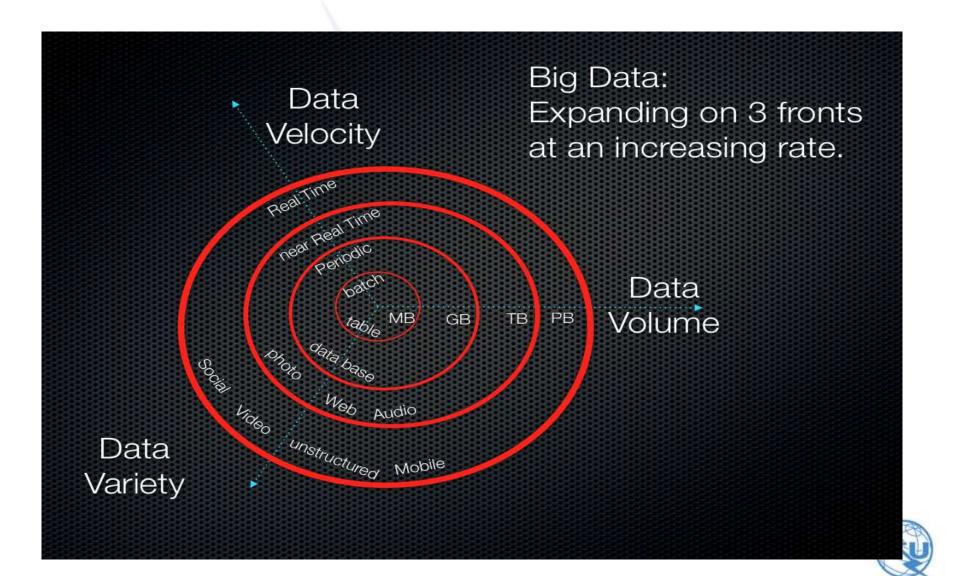








The pillars of bigdata



Traditional BI limitations

- Prohibitively expensive solutions to handle Volume
- Expensive, Complex and Unfeasible in handling of Variety
- Design and Architecture not able to handle high Velocity
- Inefficient and Expensive in handling Complexity

Solution



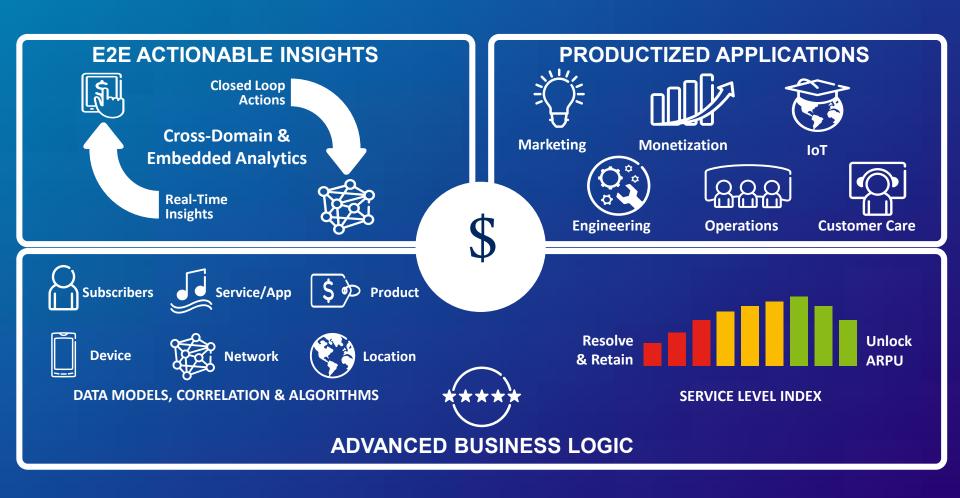


Non SQL DB such as Cassandra or MongoDB or New MPP DB such as GreenPlum

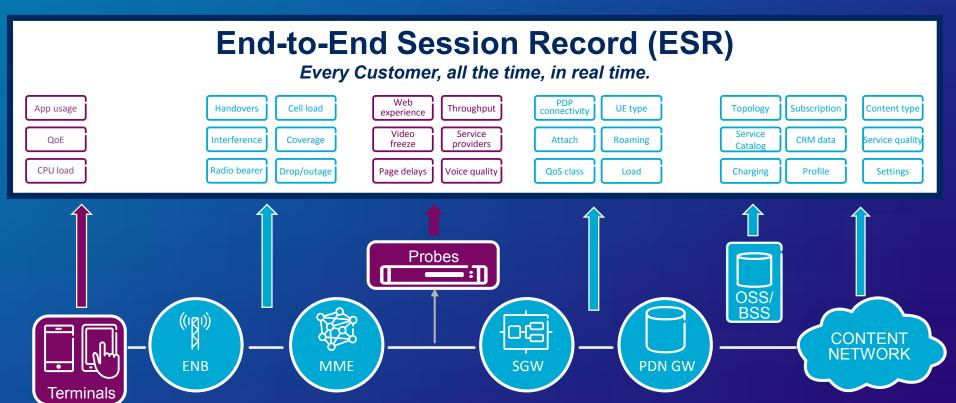
- A reliable and shared storage system.
- Storage provided by HDFS
- Processing provided MapReduce



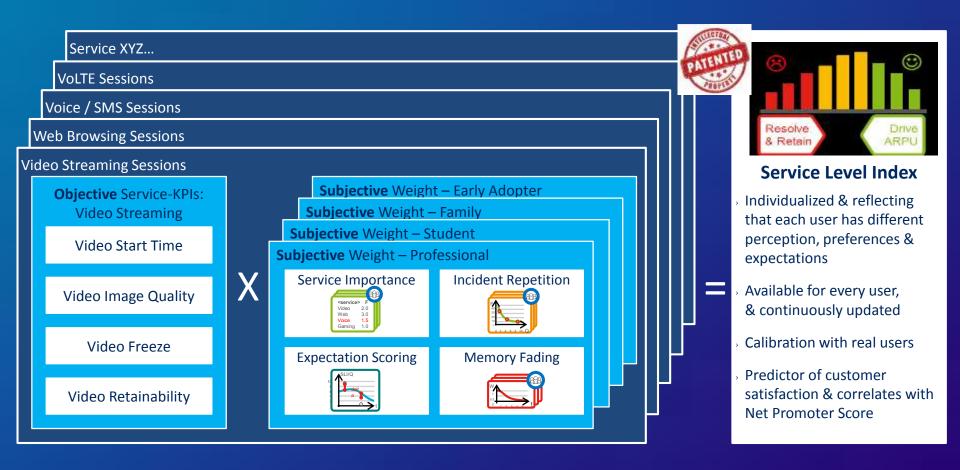
Ericsson Expert Analytics



Correlated, End-to-End, Multi-source View of every customer session



Service Level Index (SLI)



VIP/Enterprise Dynamic experience Management





KEY HIGHLIGHTS:

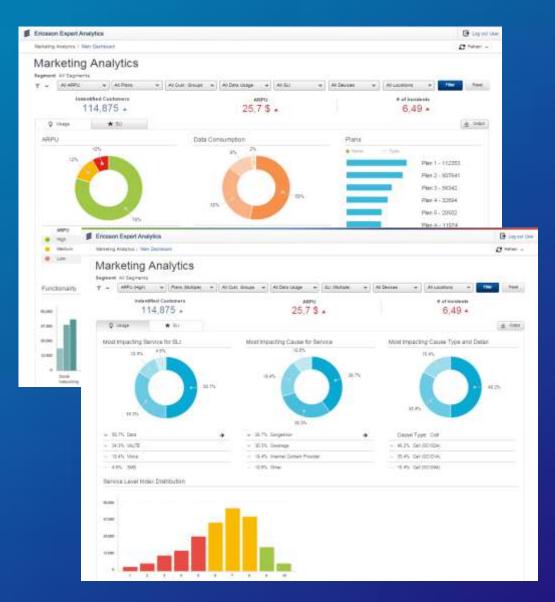
Dynamically resolve customer problems for VIPs

- Track each VIPs Quality of Service
- If Quality is not at objective, issue Alert to Policy Control
- Policy Control takes action to improve customer's service
- When service improves, restore policy to standard

KEY BUSINESS BENEFITS:

- Ensure high quality for most valuable customers
- Respond automatically before customer calls
- Reduce churn, enhance opportunity for upsell

Experienced-Based Marketing



KEY HIGHLIGHTS:

Utilize unique Ericsson Expert Analytics insights about each subscriber to drive revenue and reduce churn

- Powerful micro-segmentation using realtime network insights correlated with traditional customer and BSS insights
- What is the satisfaction of each and every subscriber? (Service Level Index)
- What is their profile and behavior (e.g. Social media fanatic, Heavy Netflix Usage in evening etc.)

KEY BUSINESS BENEFITS:

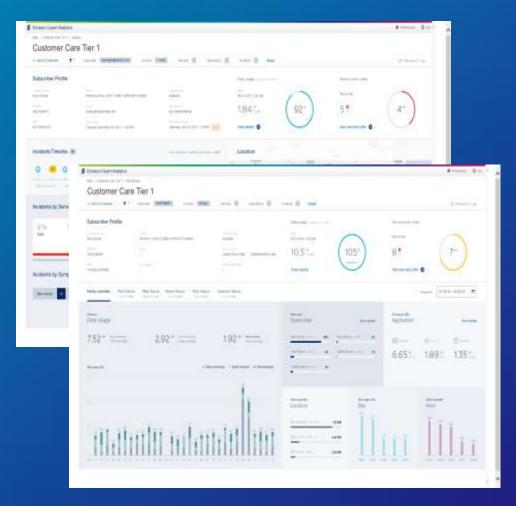
Drive ARPU

- Which customers are most satisfied and most likely to buy additional services and products?
- What Upsell/Cross-sell offers are best fit?

Reduce Churn

- Which customers are most unhappy, and what are the contributors to their dissatisfaction?
- What can be offered to make them stay?

Empowered Customer Care



KEY HIGHLIGHTS:

Proactive handling of customer experience issues in Customer Care

- Predict Reason for Call Why might the customer be calling? How to resolve the call?
- Validate the Complaint Did the customer really have an issue? If so, when and where did it happen?
- Take Action Identify the "Most Probable Cause" and trigger the "Next Best Action"

KEY BUSINESS BENEFITS:

- 48% Reduction of Average Handling Time (AHT)*
- 35% Increase in First Call Resolution Rate*
- Reduced number of trouble tickets created
- Increase Net Promoter Score