





# **Big Data – Big Security Risk**

Brian V. Cummings Tata Consultancy Services *"Transform with Certainty"* 

Tuesday, August 13, 2013 Session: 13971

Session Evaluation QR Code



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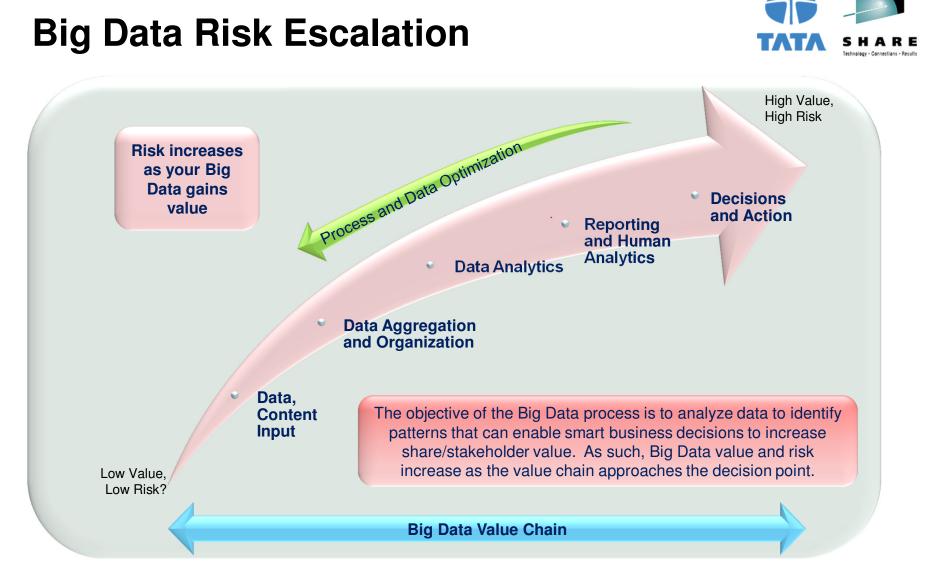
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#### The Year 1998











### **Big Data Risk Elements**





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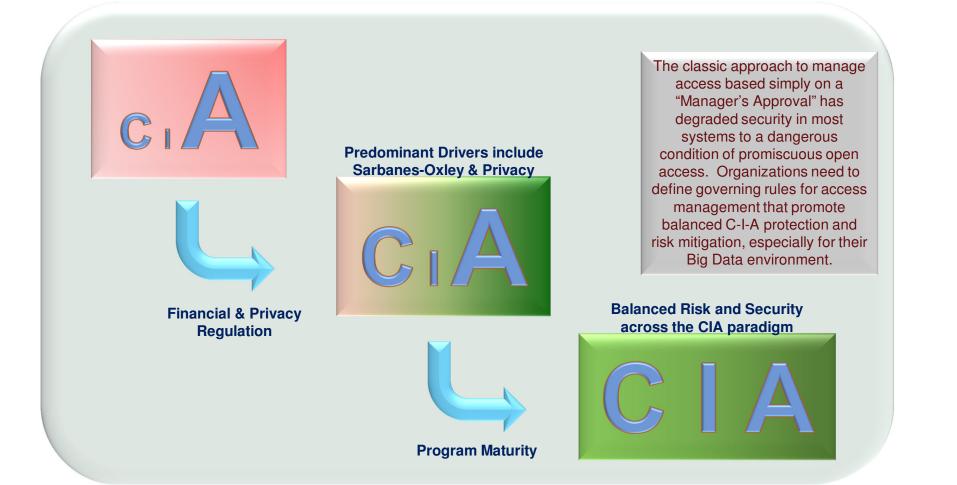
### **Availability Risk**







# Availability Risk 1: Access Management





# **Availability Risk 2: Continuity**



What happens if you lose your Hadoop or its data, or experience some significant data corruption or degradation?

How frequent are your backups? How much input or analytical data do you stand to lose from the timing of the latest backup? Can you even make such a determination? What would it take to recreate the inputs or analytics?

How much time to restore? How much time to recreate lost inputs? How much time to get your data where it should have been when you lost it?

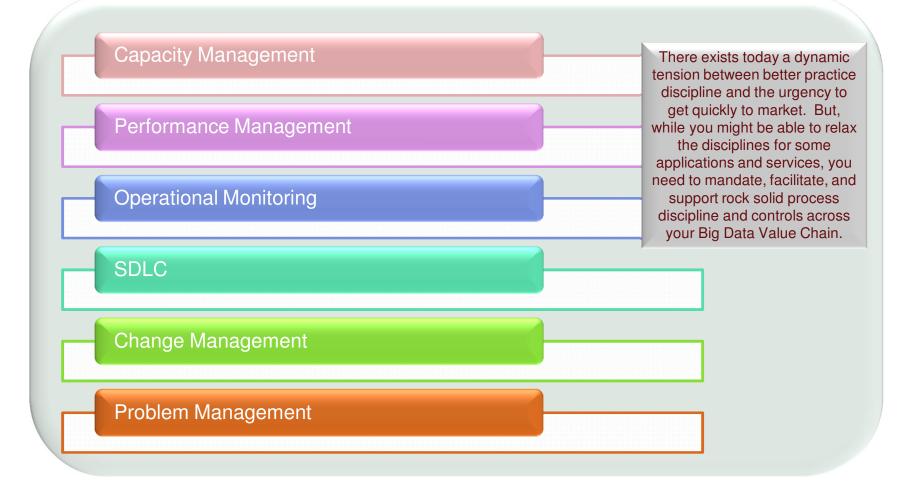
What will/can you do if you experience a service interruption or data loss at a key milestone in a Big Data initiative?

Are system and data recovery responsibilities clear? Recovery capabilities in place and tested?



# **Availability Risk 2: Continuity - Other**

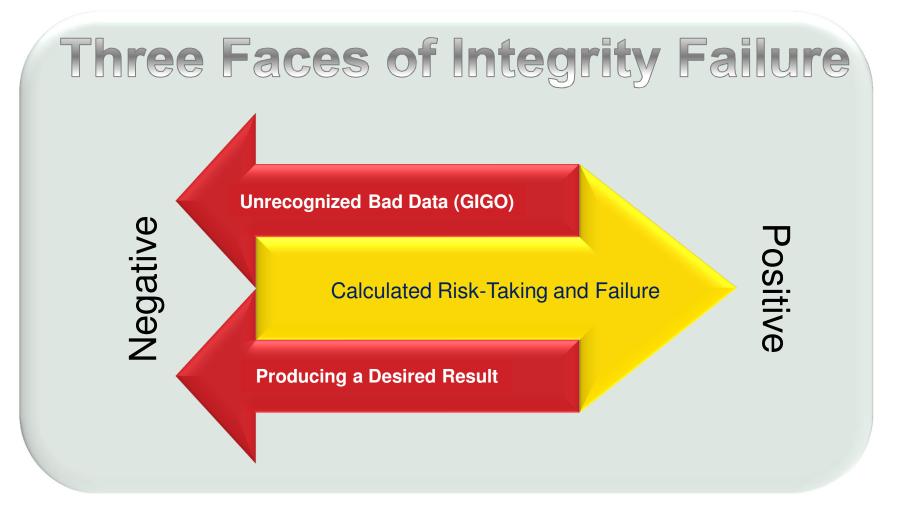






# **Integrity Risk**

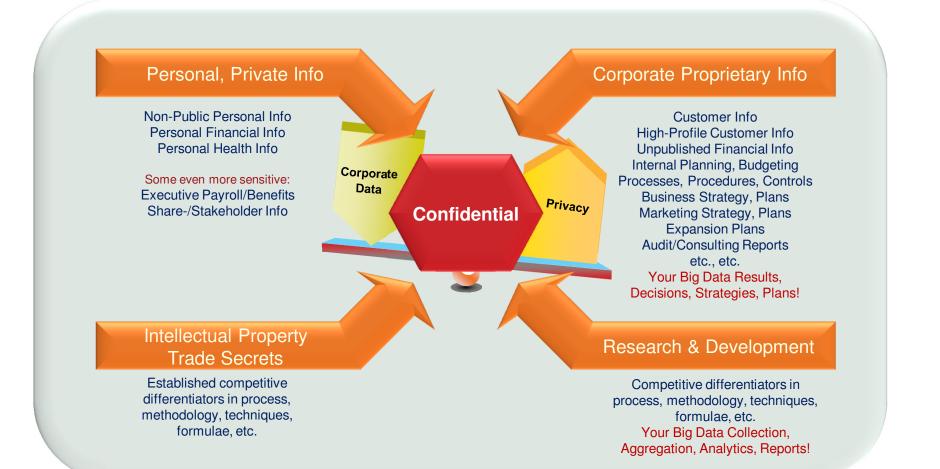




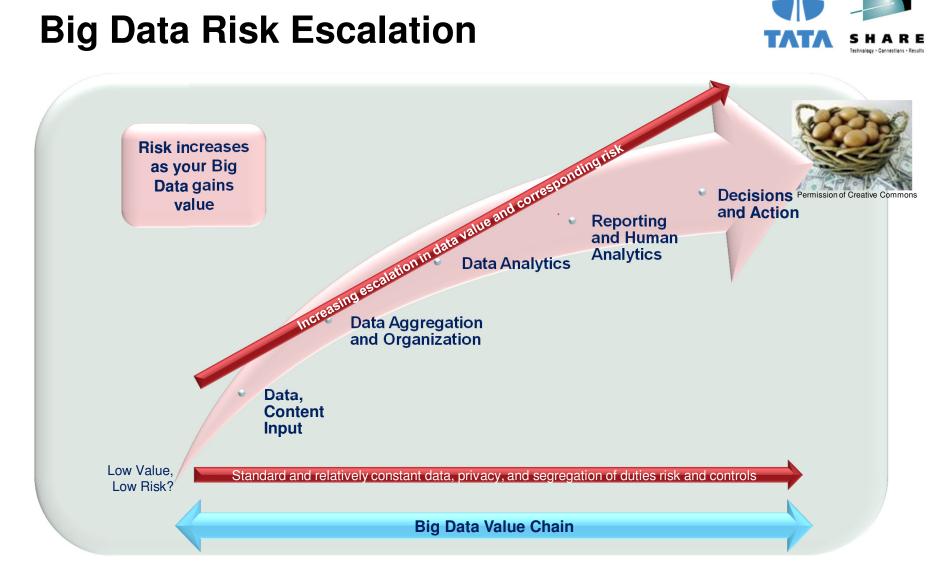


## **Confidentiality Risk**







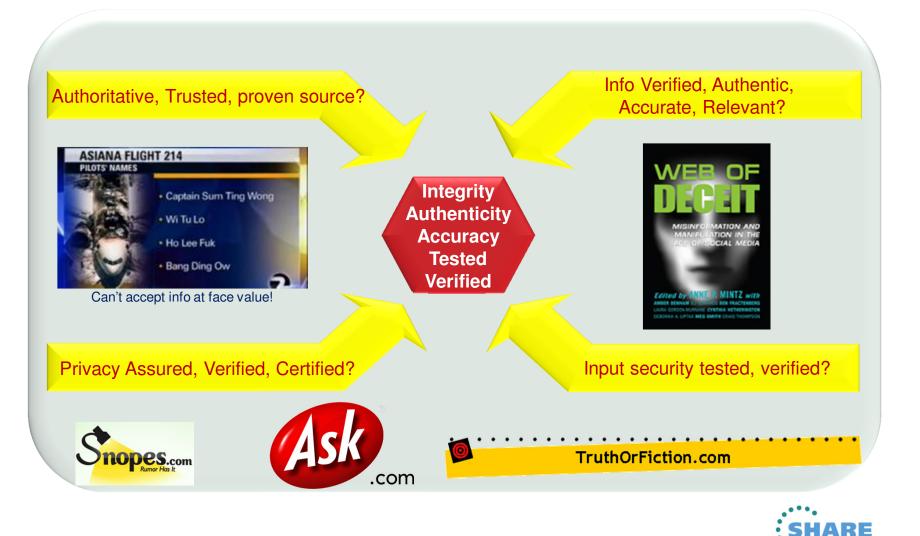




# **Data Content, Input Risk**

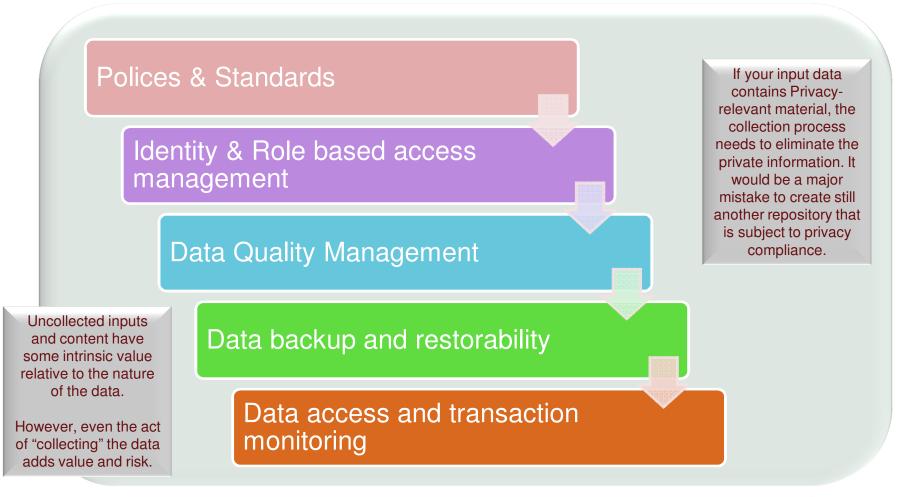


In Boston



#### **Data Input, Content Controls**

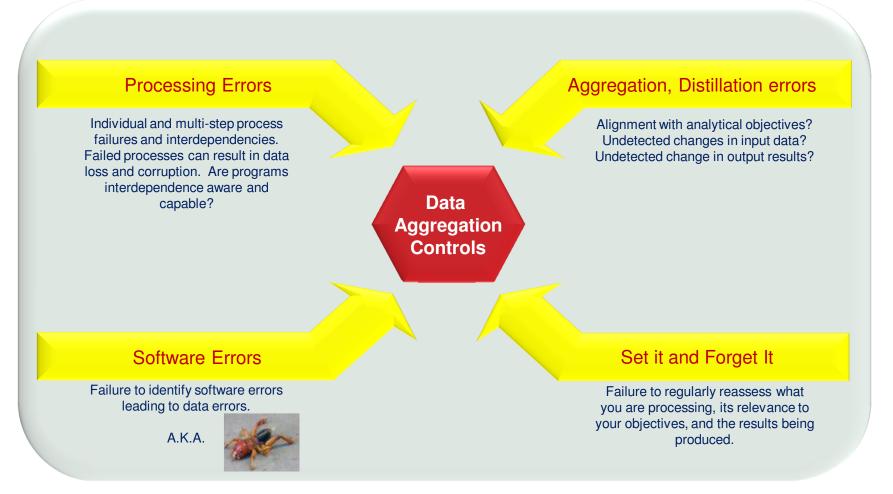






## **Data Aggregation, Organization Risk**







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# Data Aggregation, Organization Controls

Regular Process Testing and Validation

Create, sustain reusable higher data levels

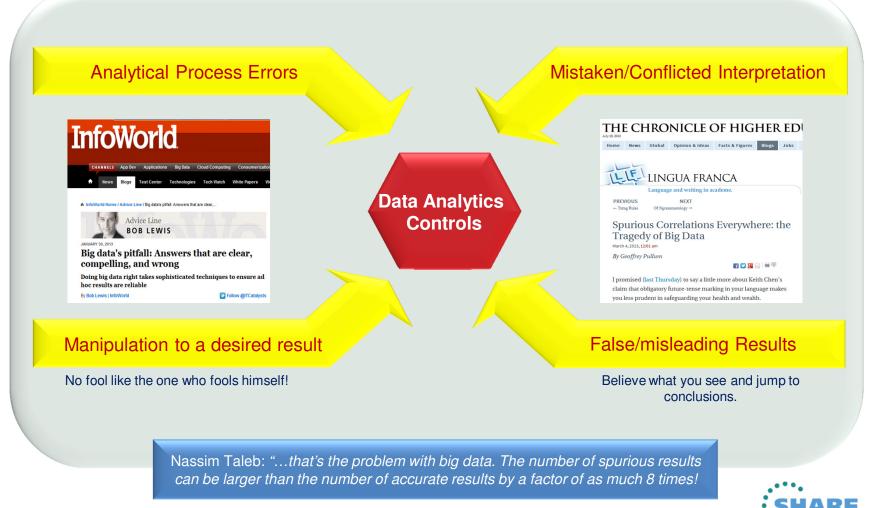
Regular reassessment of data aggregation and organization protocols & processes

Ongoing collaboration among CDC, MetaDM, MasterDM, DQM with shared language and taxonomy



#### **Data Analytics Risk**



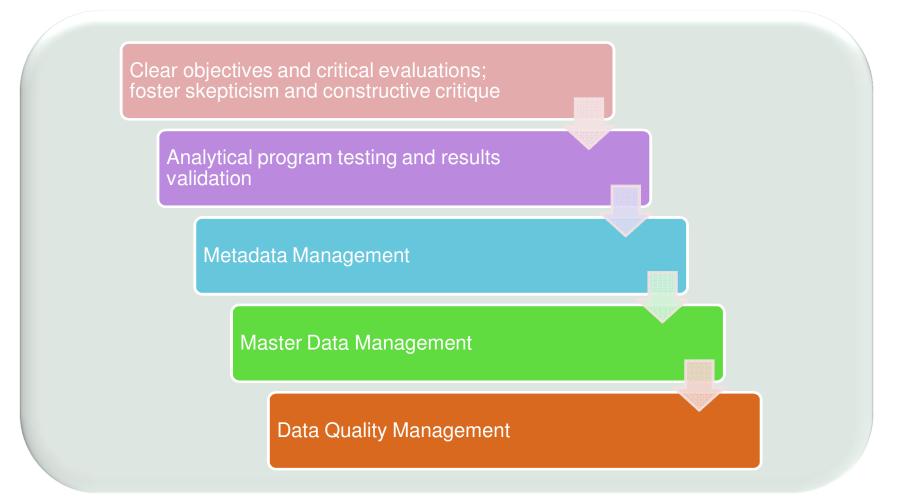


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### **Data Analytics Controls**



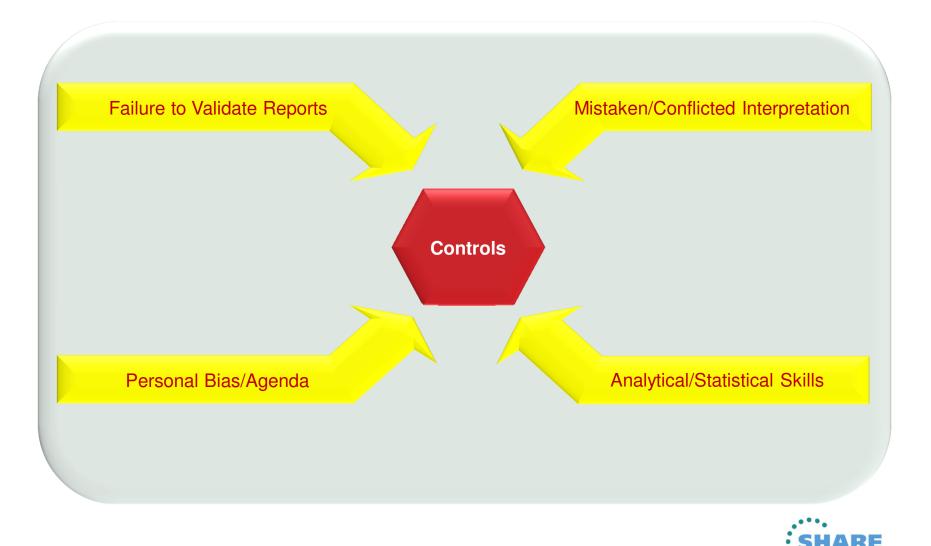




# **Reporting, Human Analytics Risk**

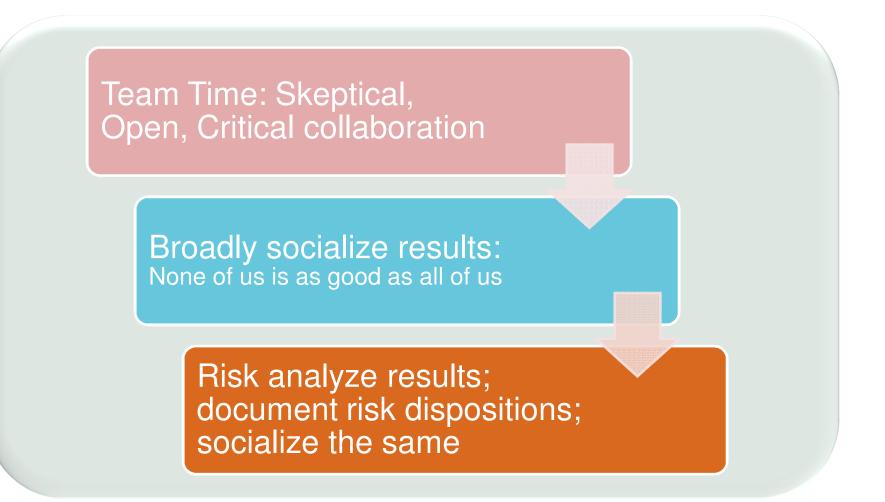


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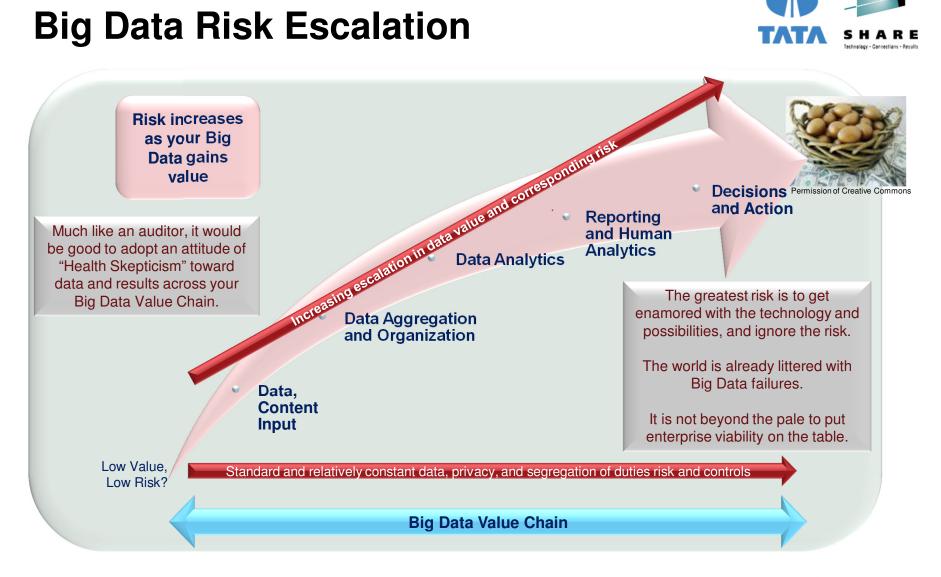
## **Reporting, Human Analytics Controls**







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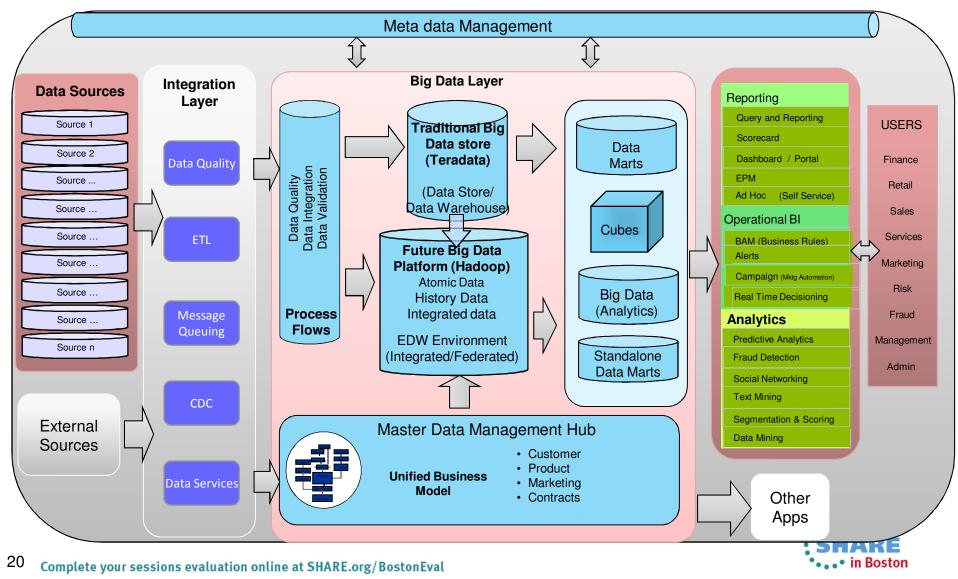




# **Complexity Challenge:**



**Data Governance Framework** 







# "To Safe & Secure Business Success"!

