

# Big Data Adoption Framework

Dr. Mardhani Riasetiawan

Cloud & Grid Technology Working Group

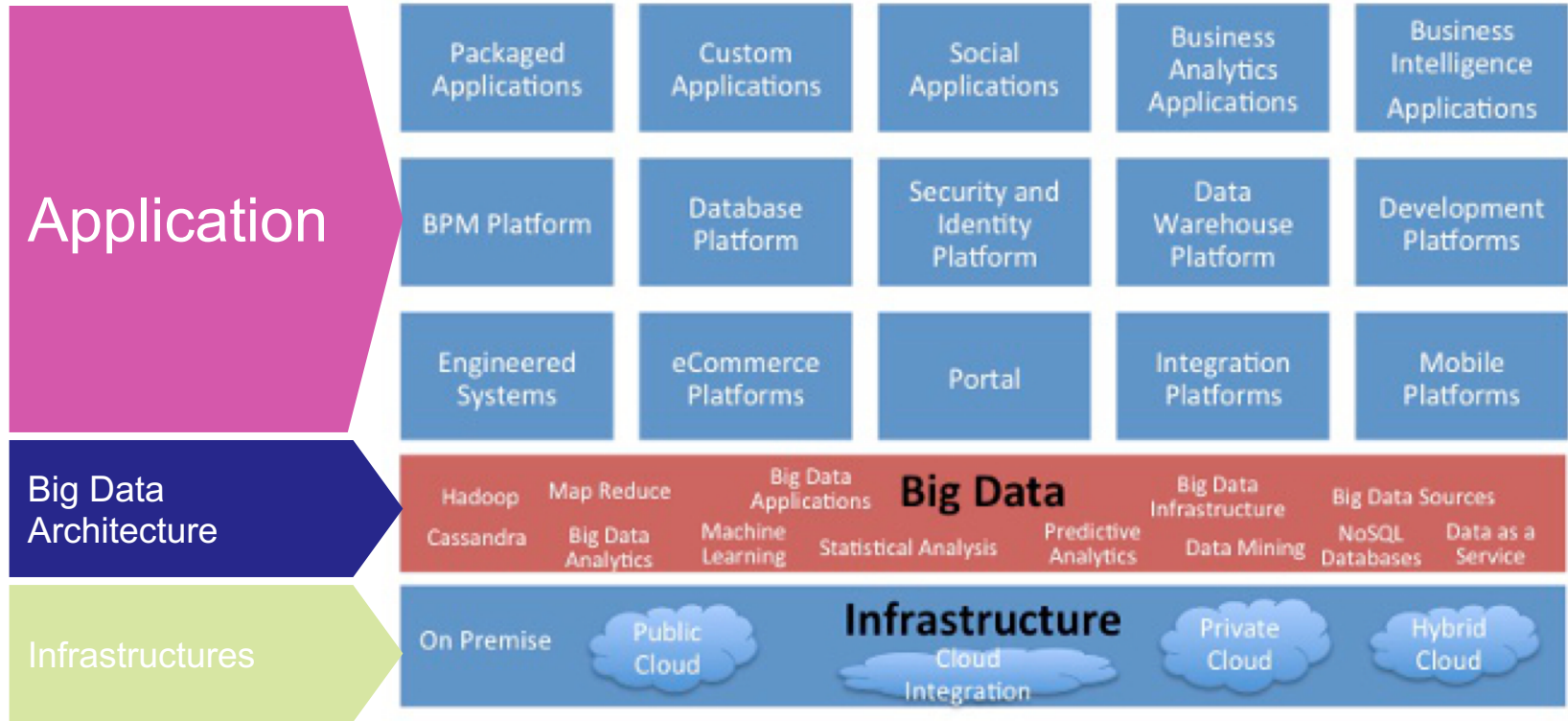
Lab Sistem Komputer dan Jaringan

Departemen Ilmu Komputer dan Elektronika

FMIPA – UGM

<http://cloud.wg.ugm.ac.id> | [mardhani@ugm.ac.id](mailto:mardhani@ugm.ac.id)

# Technical Layer



# Big Data Process

All Data Sources:  
application, share  
folder, DB, projects

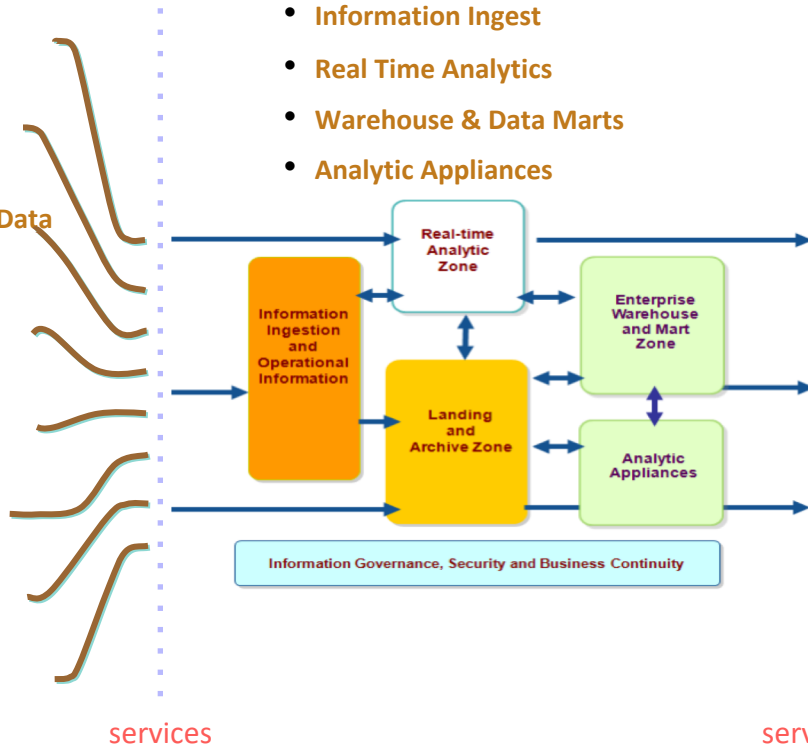
Big Data Platform  
Capabilities

Advanced  
Analytics /  
New Insights





New / Enhanced  
Applications

-  Streaming Data
-  Text Data
-  Applications Data
-  Time Series
-  Geo Spatial
-  Video & Image
-  Relational
-  Social Network

- Information Ingest
- Real Time Analytics
- Warehouse & Data Marts
- Analytic Appliances



- Cognitive**  
*Learn Dynamically?*
- Prescriptive**  
*Best Outcomes?*
- Predictive**  
*What Could Happen?*
- Descriptive**  
*What Has Happened?*
- Exploration and Discovery**  
*What Do You Have?*

- Watson 
- Alerts 
- Automated Process 
- Case Management 
- Analytic Applications 
- Cloud Services 
- ISV Solutions 

services

services

services

# Big Computation Environment

