

BioTech
AgriFood

Transport
Mobility

Health,
Ageing

Manufacturing

Energy

Smart
Cities

Earth
Obs, GeO

Telecom

Retail,
Finance

others
...

Structured
Data/
Business
Intelligence

Time
series, IoT

Geo
Spatial
Temporal

Media
Image
Audio

Text,
Language,
Genomics

Web
Graph
Meta

Data Visualisation and User Interaction

Data Analytics
Algorithms Work Flow Engine Transformations
Visualizations Access Services Ingest Services

Data Processing
Processing Layer Interactive Frameworks
Batch Frameworks Streaming Frameworks

Data Protection
Anonimization Frameworks

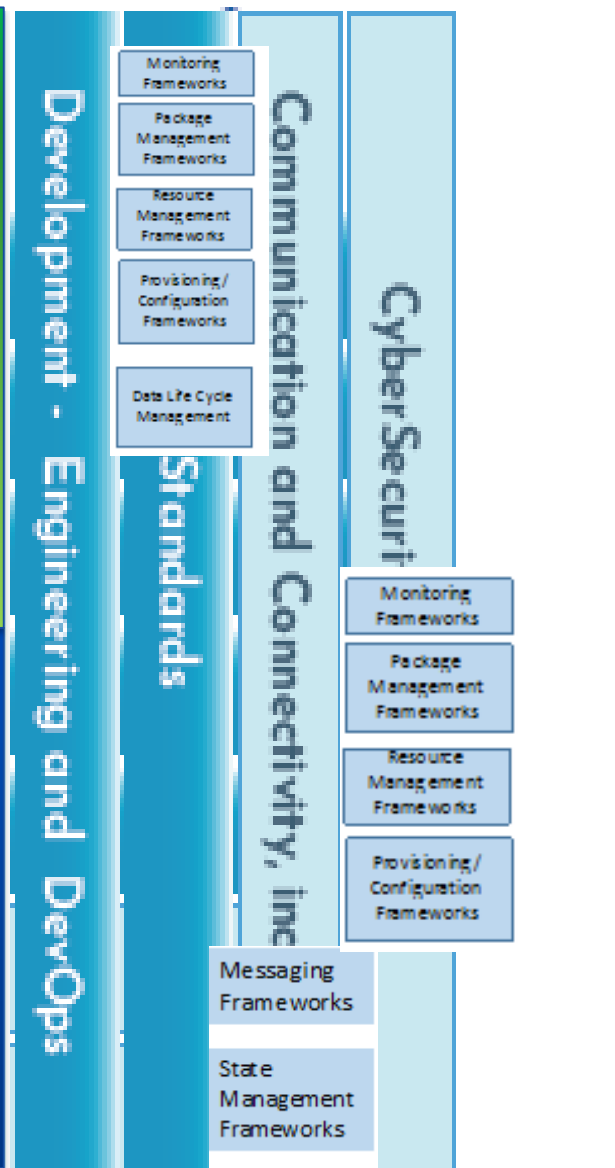
Data Management
Relational Storage Wide-columnar storage
Graph Storage File Systems Key-value storage
Document Storage Column based storage

Cloud and High Performance Computing (HPC)
Resource Abstraction and Control Physical Resources

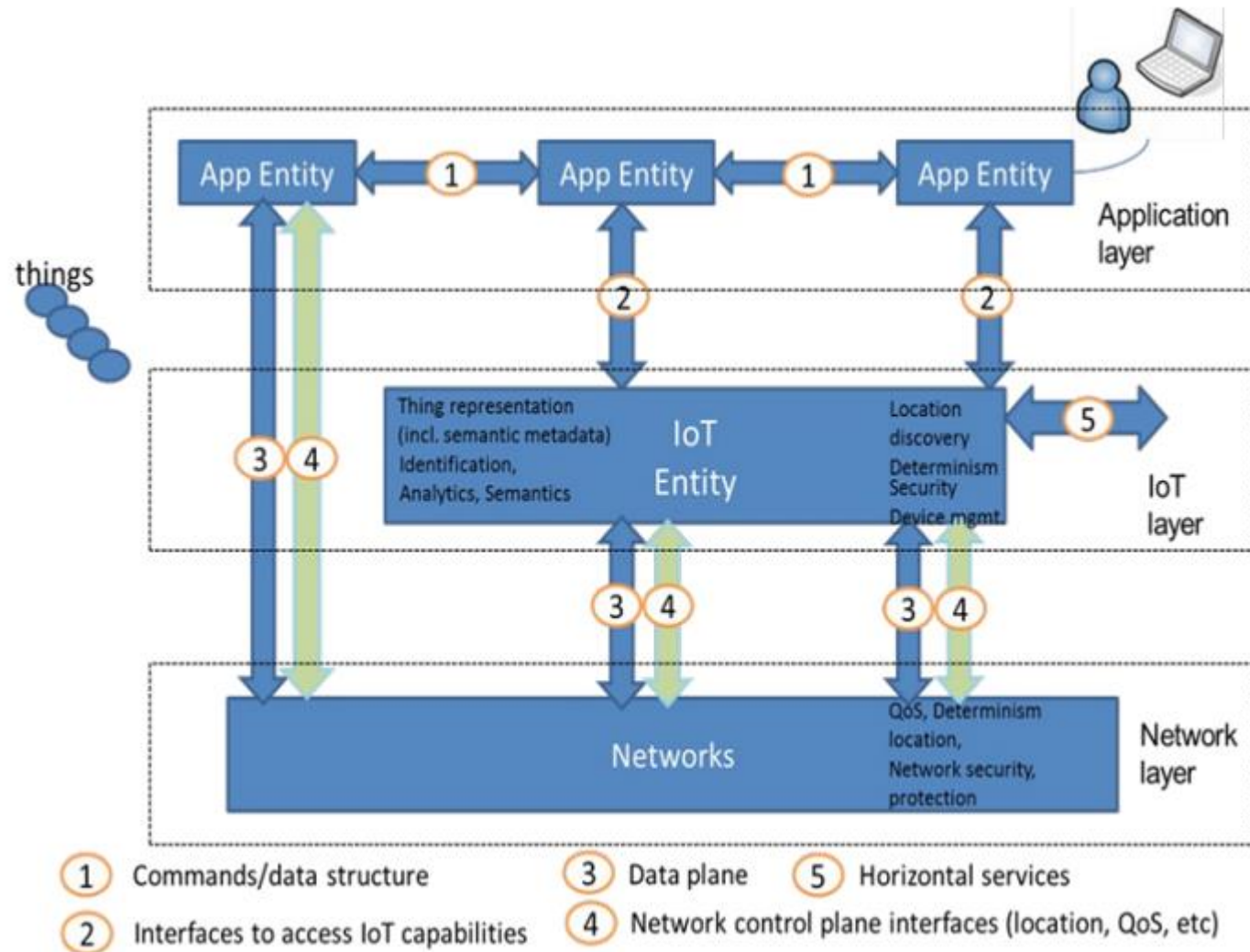
Things/Assets, Sensors and Actuators (Edge, IoT, CPS)

AI,
Cognitive
Computing
&
Analytics
Processing
Platforms

Industrial
& Personal
Data
Sharing
Platforms
+
Research/
Urban
data



AIOTI High Level Architecture (HLA)





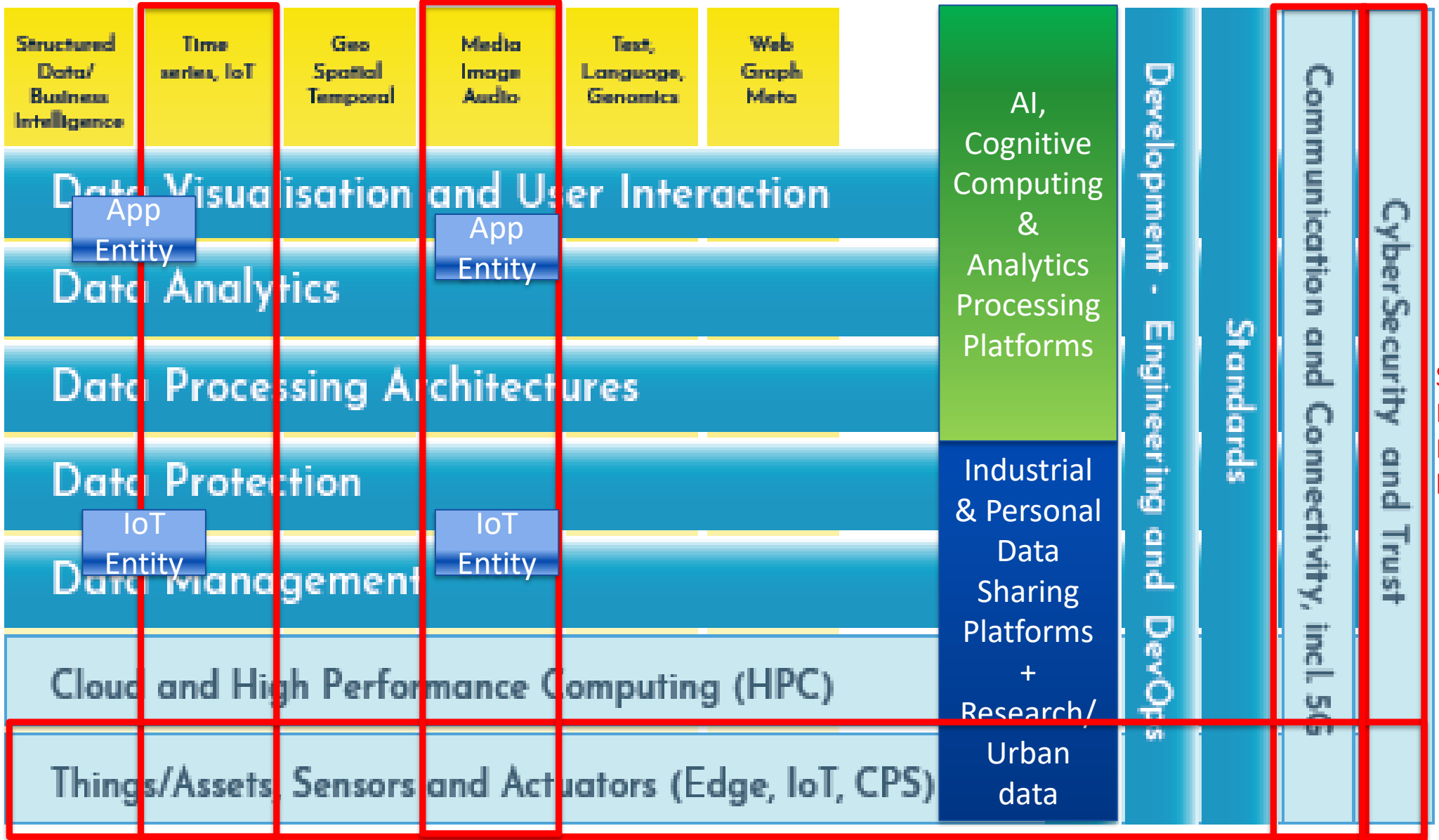
Application layer

Network layer

AIOTI mapped to BDV Reference Model

Security Privacy Protection layer

IoT layer



App Entity

App Entity

IoT Entity

IoT Entity