

Business users

Customers

Business analysts

Administrators



Consumption layer

Business process management

Visualization and discovery

Transaction interceptor

Real time monitoring

Business alerts

Real time data navigation

Operational KPIs

Control rooms

Reporting engine

Self service query, reporting and analysis

Custom dashboards

Analysis layer

Entity identification

Analytics engine

CEP/ESP

Machine learning/NLP

Model execution

Real time scored results

Decision management

Scoring of events (real time/batch)

Recommendation engine

Model management

Predictive models

Statistical models

Model verification

Data messaging and storage layer

Data acquisition

Data digest

Distributed file storage

Big data sources

Structured, semi-structured, and unstructured

Text

Images

Audio

Video

Spatial

Temporal

Documents

Relational data

Domain entities

Aggregated data providers

Sensor vendor application

Data stores

Operational database

Warehouse

DMS

Excel

Word

Smart devices

Smart phones

Smart meters

Smart healthcare devices

Logs

Application log files

Geographical information

Maps

Regional details

Location details

Mining details

Human generated content

Social media

Emails

Blogs

Online information

Sensors

Environment, weather, moisture, humidity, lightning

Electric current, electric potential

Navigation instruments

Ionizing radiation, subatomic particles

Proximity, presence

Position, angle, displacement, distance, speed, acceleration

Acoustic, sound, vibration

Automotive, transportation

Thermal, heat, temperature

Optical, light, imaging, photon

Chemical

Pressure

Flow, fluid, velocity

Force, density level

Enterprise legacy systems

CRM

Billing

Mainframe applications

ERP

Web apps

Integration (protocols, connectors, adapters, native APIs, connectivity (offline/online/on-demand))

Big data governance

Systems management

Qos layer (frequency, availability, size/fetch, security, filters, privacy, exception handling)