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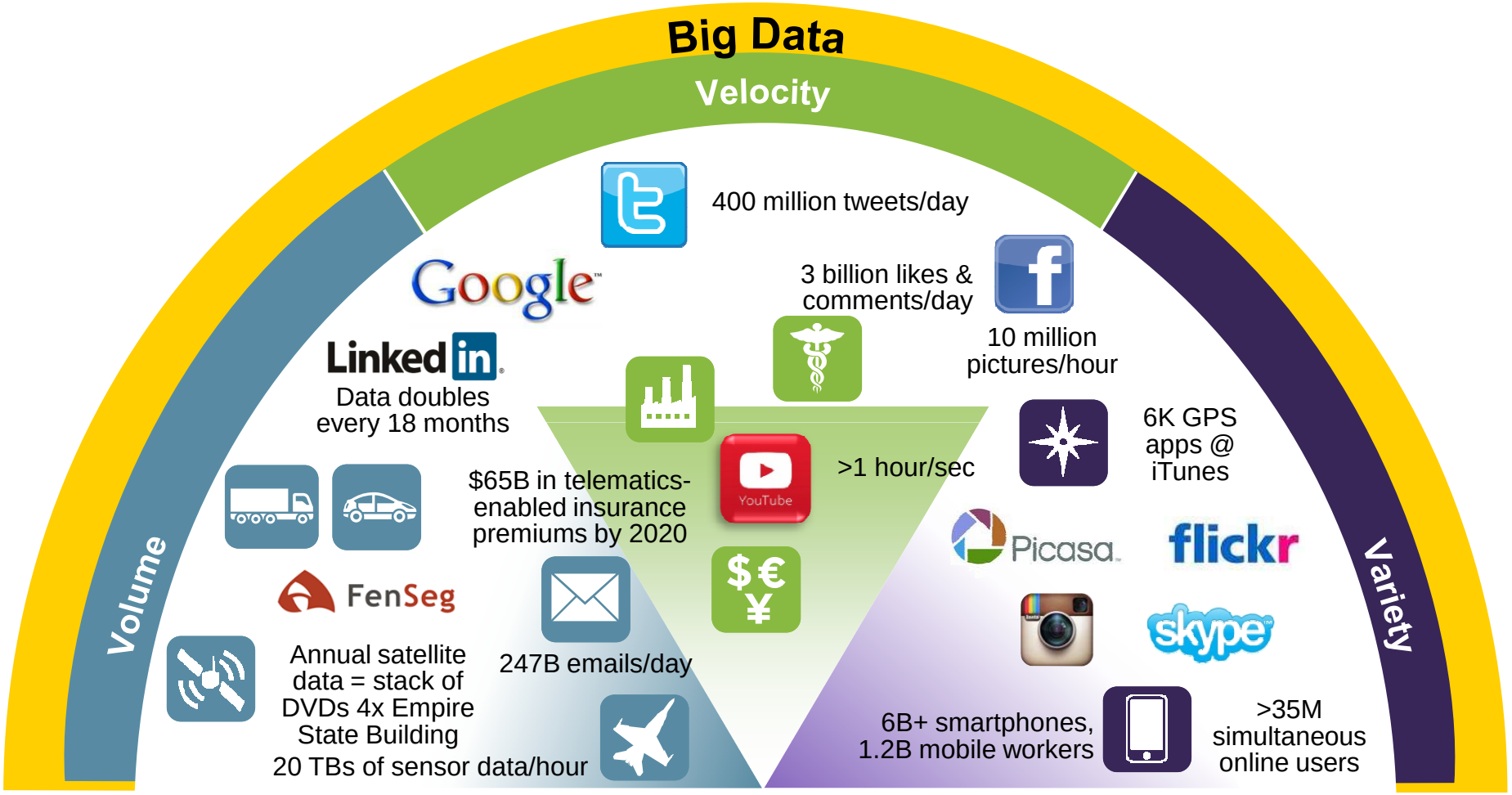
The 3-V-Approach



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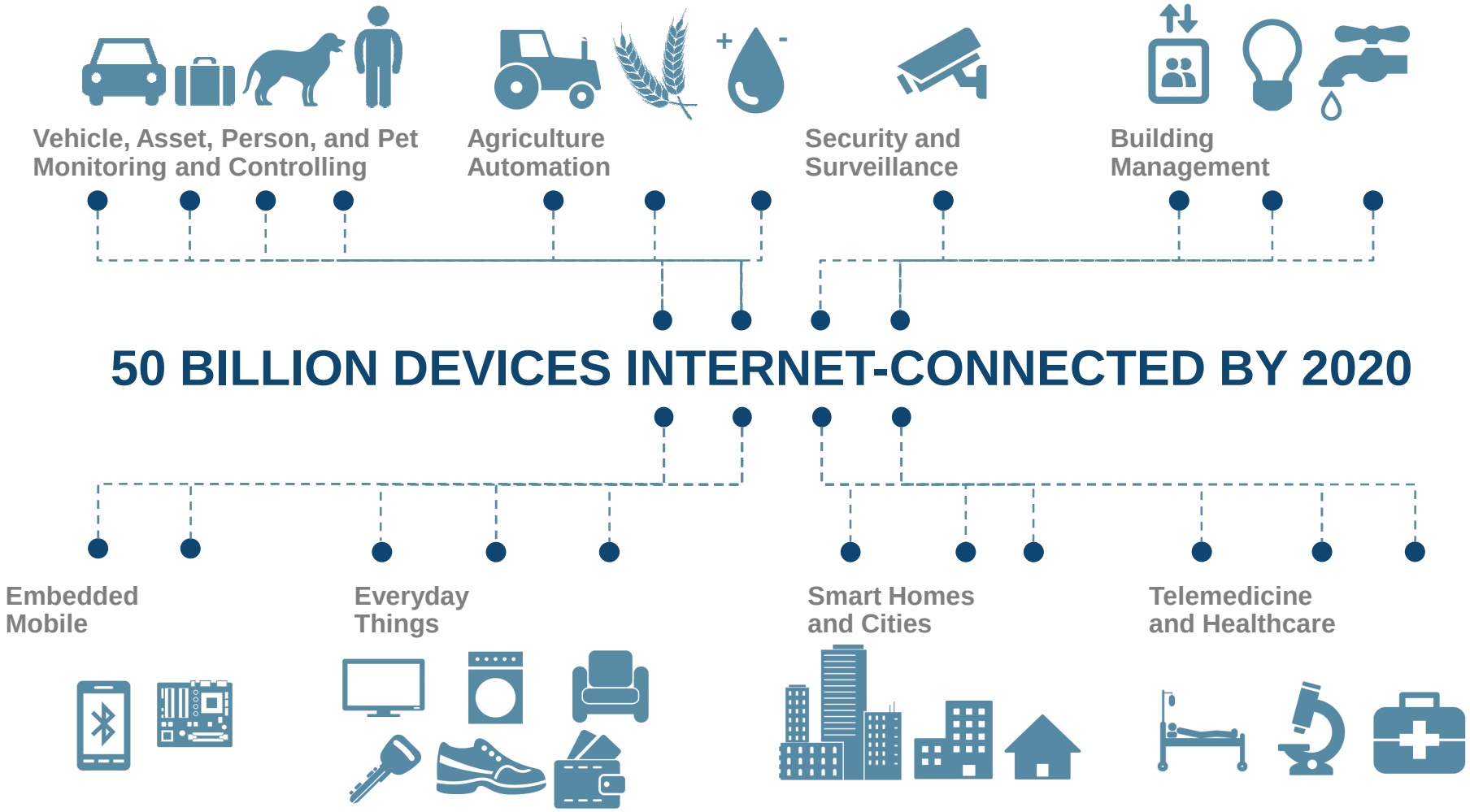
Data coming from everywhere provides the opportunity to excel in this dynamic global environment



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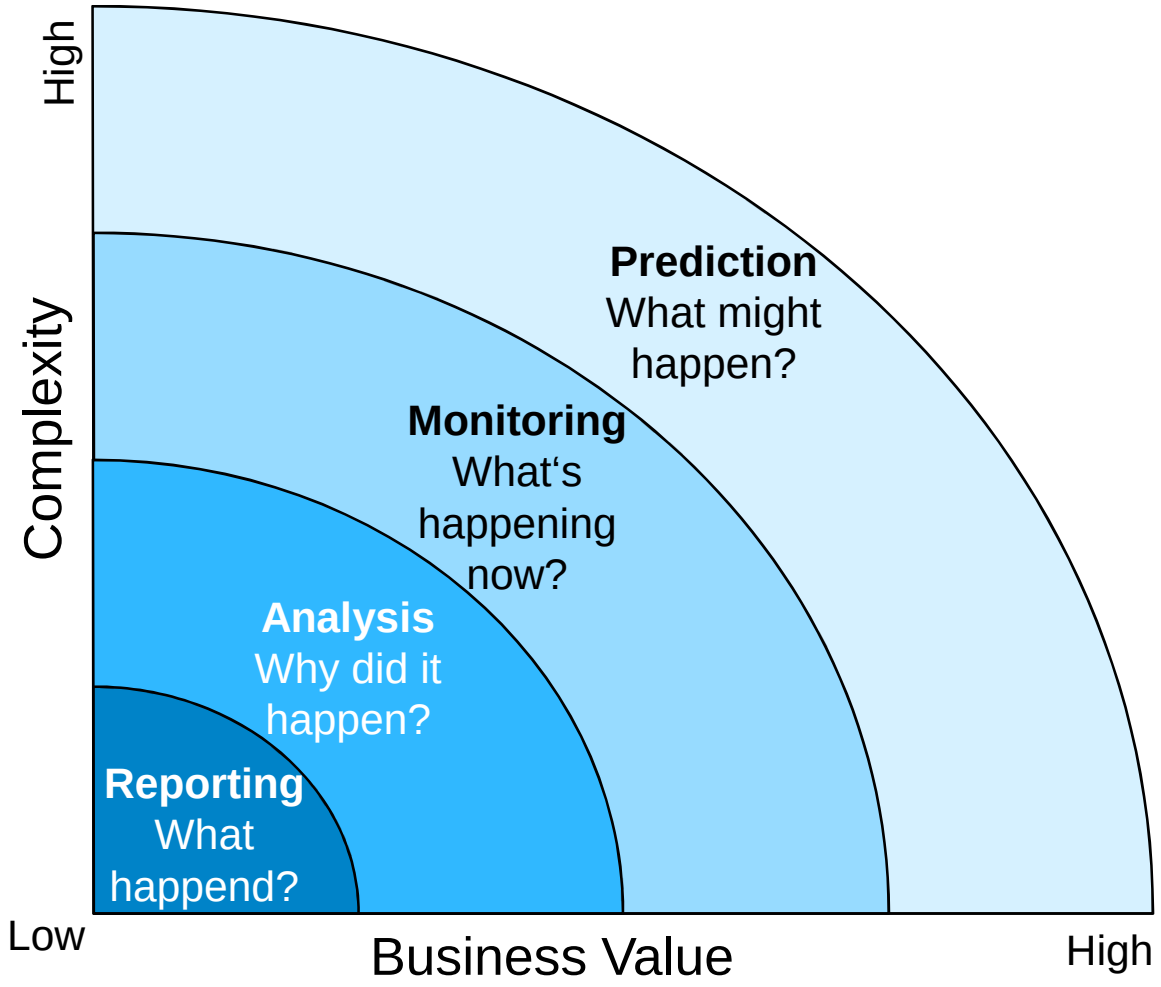
Analysis combined with Big Data

Four types of data analysis



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Big Data in Real-Time: 3 Opportunities

Better early warning

- Detect anomalies and trends
- React before harm is happening
- Protect public safety

➢ Epidemic early warning system

Real-time awareness

- Know what is happening right now
- Know what is needed right now
- Better planning of governmental actions

➢ Manage traffic / public transportation in real time

Real-time feedback

- Is governmental action working
- Are needs changing or not being met
- Rapid and adaptive course correction

➢ Real time feedback for public services

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Transformation in Public Sector

Energy
- Weather impact analysis on power generation
- Transmission monitoring
- Smart grid management

Government
- More transparency = more trust
- Fraud & corruption detection
- E-government

Public Safety
- Epidemic early warning system
- Crime prevention
- Product recalls

Smart Cities

Public Transportation
- Real time route optimization based on traffic and weather
- Maintenance optimization and asset tracking

Law Enforcement
- Real-time multimodal surveillance
- Situational awareness

Building Management
- Maintenance optimization and asset tracking

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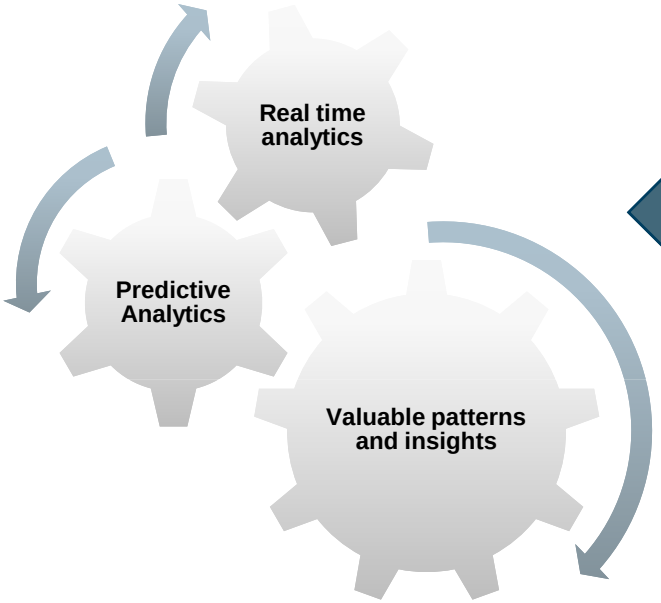
Transformation in Healthcare

NEW

Sensors
Mobile phones
Web
EHR



EXISTING

Claims
Clinical trials
Genomics
EMR

Personalized care

Remote health monitoring

Efficient treatment

Quantified Self

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CSC Delivers Increased Value from Your Data and Faster Time to Value

From public health to transportation to energy policy, shift resources to where they are needed more quickly and accurately

SBB CFF FFS

Transportation

Railway punctuality improved from 92% to a world-leading 96%.

Healthcare

Integrated Data for ~100M people from 40 member companies

Government

Reduced tax evasion and litigation through DW and predictive modeling

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Case Study

Large government institution responsible for tax collection. **CSC helped the Belgium Ministry of Finance streamline collection and prevent and detect fraudulent tax evasion.**

Challenge

- Client launched an ambitious risk management initiative as part of a modernization program
- Emphasis on tax fraud detection and prevention, especially by companies

Solution

- Highly secure corporate data warehouse for fiscal information on Belgian companies
- Seven specialized data marts fwith advanced analytics and complex risk models for fraud prediction and detection

Project Used

- IBM back office (ETL, DB2, CDC, LBAC)
- Microsoft BI front office for easy reporting
- SAS for advanced analytics / data mining

- Won **2012 Best Public Sector BI Project** from BI-Community.org

Results

- More efficient tax collection
- Reduced litigations
- Reduced tax evasion through prediction and detection
- Potential of more than €20B per year of revenue to collect

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