

The Secrets of Analytical Leaders: Insights from Information Insiders

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Secrets



Dan Ingle, Kelley Blue Book

1. Incremental development
2. Teamwork
3. One size doesn't fit all



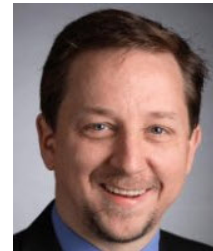
Tim Leonard, USXpress

1. Talk language of business
2. Let business present
3. Deliver quick wins



Amy O'Connor, Nokia

1. Data is a product
2. Create an ecosystem
3. Change management



Kurt Thearling, CapitalOne

1. Curate the data
2. Statisticians are craftsmen
3. Manage model production



Darren Taylor, Blue KC

1. Create the right team
2. Get executive support
3. Deliver a quick win



Ken Rudin, Zynga

1. Questions, not answers
2. Impacts, not insights
3. Evangelists, not oracles

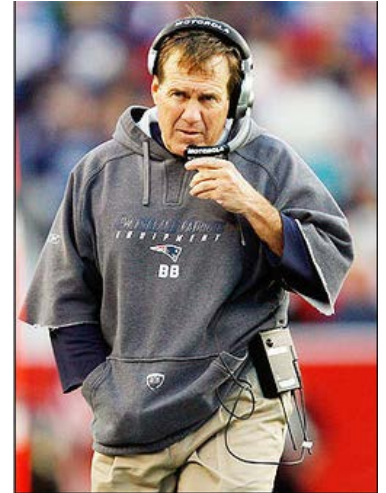


Eric Colson, Netflix

1. Eliminate coordination costs
2. Work fast, cohere later
3. Build with context

Purple People

- Straddle business and technology domains
- Talk the language of business
- Run the analytical group like a business
- Recruit business people to work on their teams
- Manage “front” and “back” offices



What is analytics?

Analytics with a capital “A”

“A”

Analytics with a small “a”

“a”

User Environment

“Drive the business”

Analytics

HDFS

Hive/Pig

“Improve the business”

Performance Management

Cloud

Hadoop

Text analytics

Cloud BI

Predictive analytics

Mobile

Mobile BI

Visual discovery

“Use the data”

Business Intelligence

Web Services

Operational BI

Data integration suites

Packaged analytic applications

Data virtualization

Dashboards and scorecards

Business intelligence suites

Web query/reporting

On-line analytical processing (OLAP)

Desktop query/reporting

Extract, transform, load tools

Data warehouses

“Get the data”

Data Warehousing

Web

Client/Server

Enterprise BI
SAP, SAS, IBM,
Oracle, MSTR, IBI

Departmental BI
QlikTech, Cloud BI,
Tableau, Other

Technology Environment

1990s

2000s

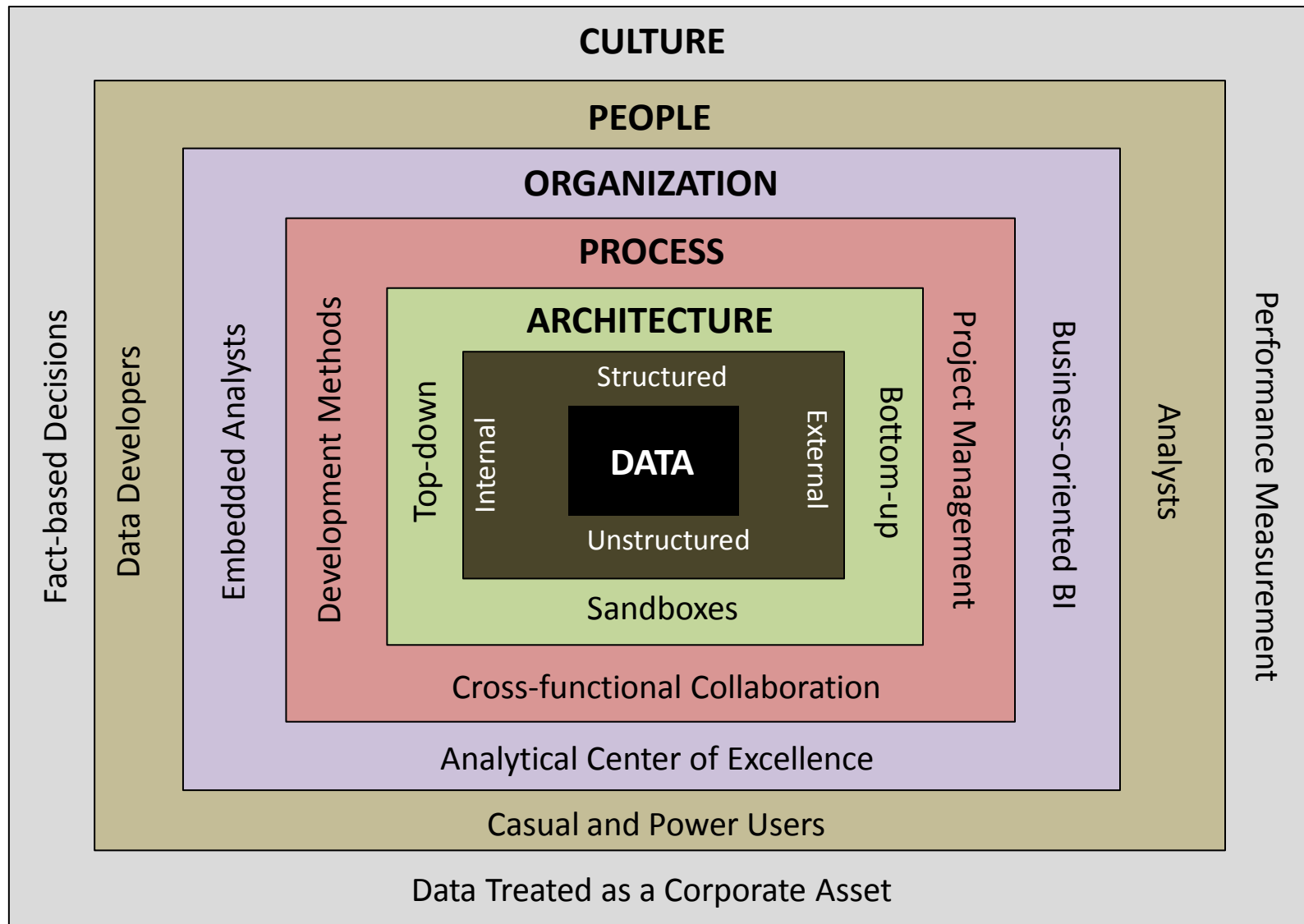
2010

2015



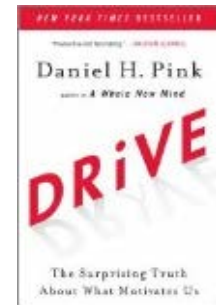
BI LEADERSHIP FORUM

Analytics success framework



Analytical Team

- **Hire** people with business knowledge and emotional IQ
- **Embed** analysts in departments
- **Practice** the principle of proximity
- **Empower** teams (Scrum) or individuals (Spanner) to build complete solutions
- **Foster** teamwork and trust
- **Allow** failure

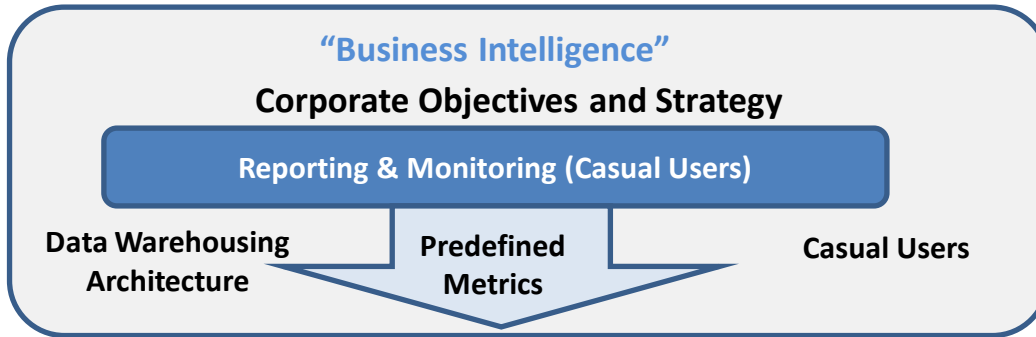


Autonomy, mastery, purpose



Two Types

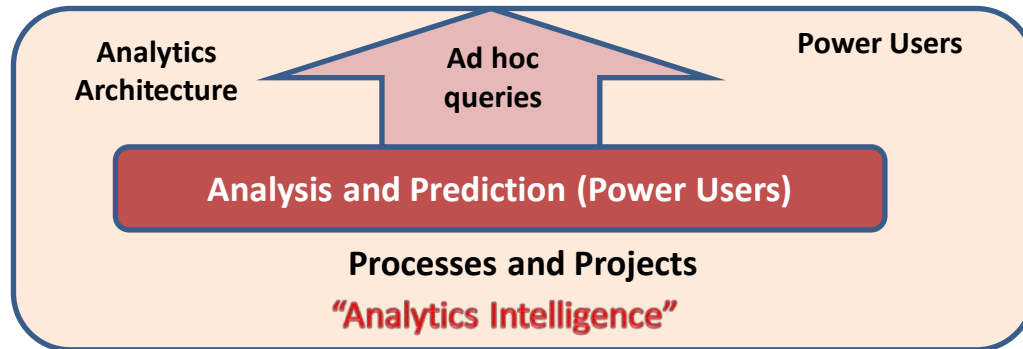
TOP DOWN



Data Developers

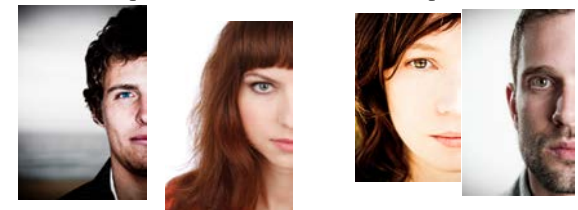


Data architects, ETL developers, report developers, data administrators, DW administrators, technical architects, requirements specialists, trainers, etc.



BOTTOM UP

Analysts (embedded)



Super users, business analysts, statisticians, data scientists, data analysts

Meet Your Analysts

BUSINESS FOCUSED



DATA FOCUSED



HYBRID



Sam
"Super
User"

Beth
"Business
Analyst"

Ann
"Analytical
Modeler"

David
"Data
Scientist"

Dan
"Data
Analyst"

-Answer ad hoc questions
-Build reports/dashboards

-Explore data statistically & visually
-Create & maintain analytical models

-Purchase, document,
and organize data

BI/Analytical Center of Excellence


Sponsors



Steering Committee (Executives)

- Approve roadmap
- Secure funding
- Prioritize projects

Departments



Super Users/
Analysts



Director of BI/Analytics

BOBI Team



Data governance
User support

Business team (“Business-oriented BI” team)

- Evangelize analytics
- Coordinate super users and depts
- Define best practices
- Define and document metrics
- Gather requirements
- Govern reports



Technical team (Data developers)

- Build and maintain the EDW and Hadoop
- Build semantic layer for BI tools
- Create complex reports and dashboards
- Develop model management platform
- Coordinate databases and servers w/ IT

Deliver value fast

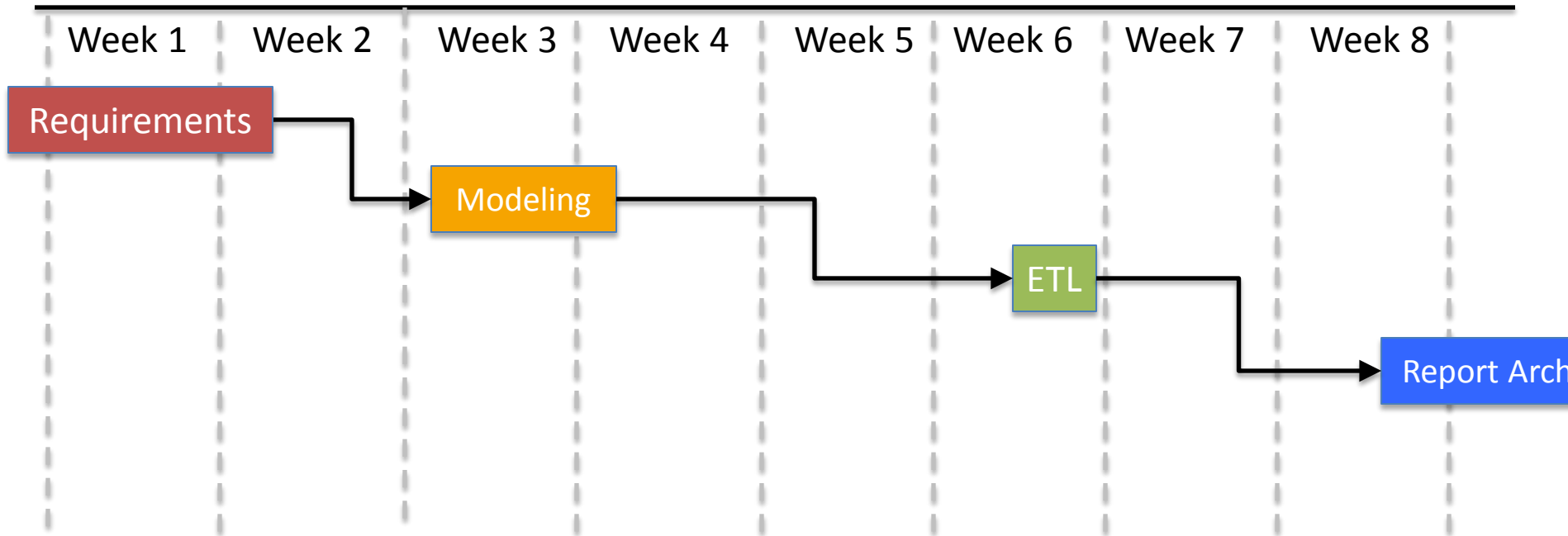
- “Death march”
- Scrum
- Spanner



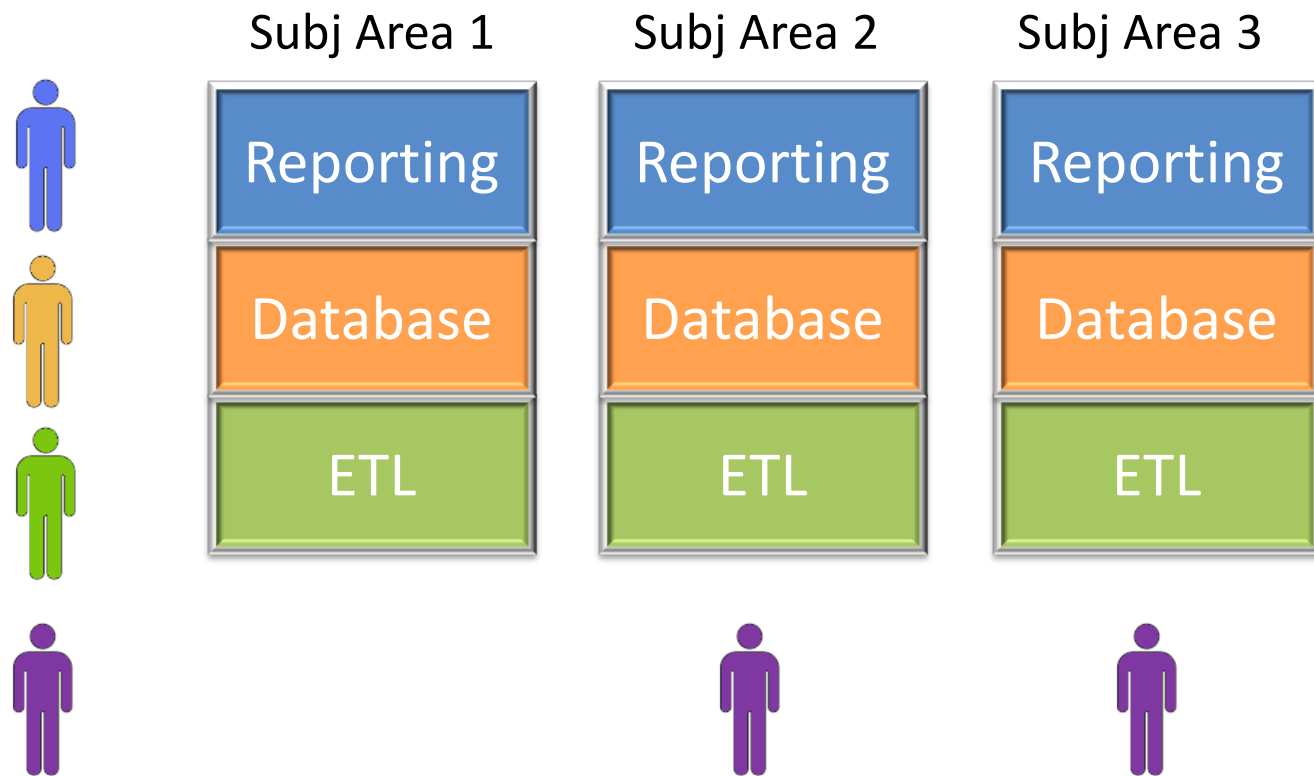
U.S. XPRESS ENTERPRISES



Impact of specialists on development cycles



Business-domain oriented roles



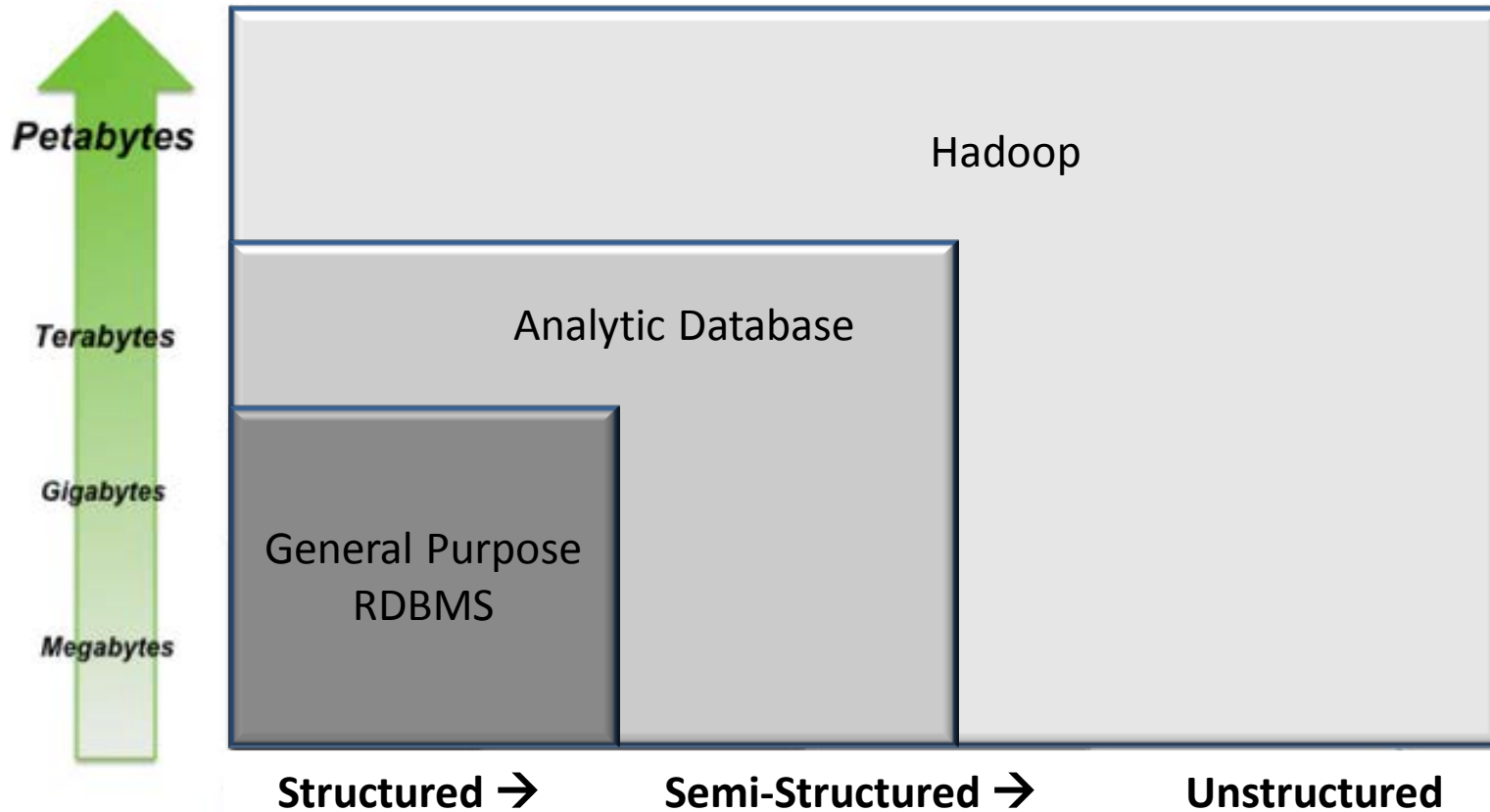
Change Management

- Kelley Blue Book
 - *Intuition-driven* → *data-driven*
- Nokia
 - *Phones* → *data services*
- Zynga
 - *Oracles* → *evangelists*



Which platform do you choose?

Big Data = Transactions + Interactions + Observations



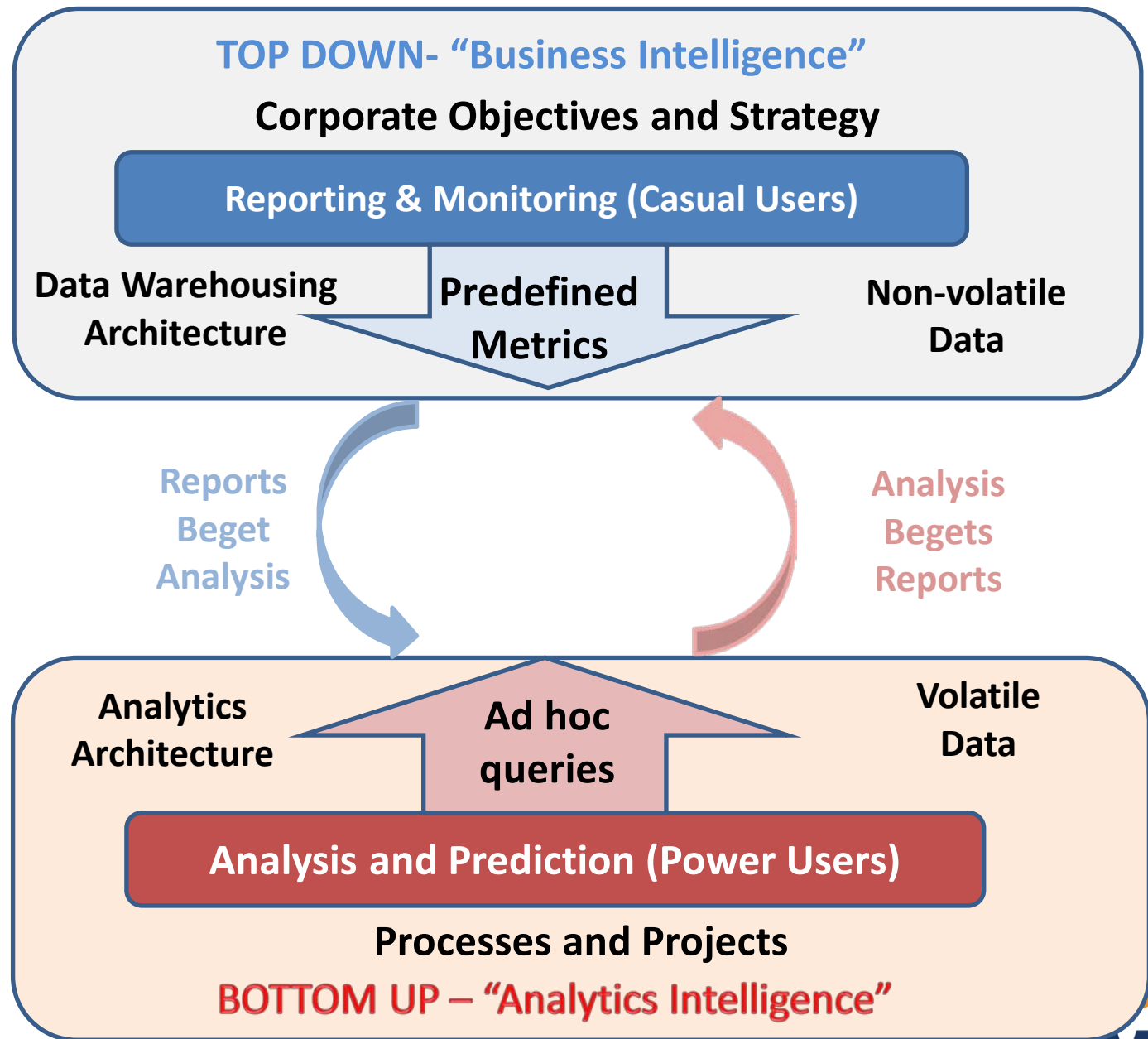
BI Framework

Pros:

- Alignment
- Consistency

Cons:

- Hard to build
- Politically charged
- Hard to change
- Expensive
- "Schema Heavy"



Pros:

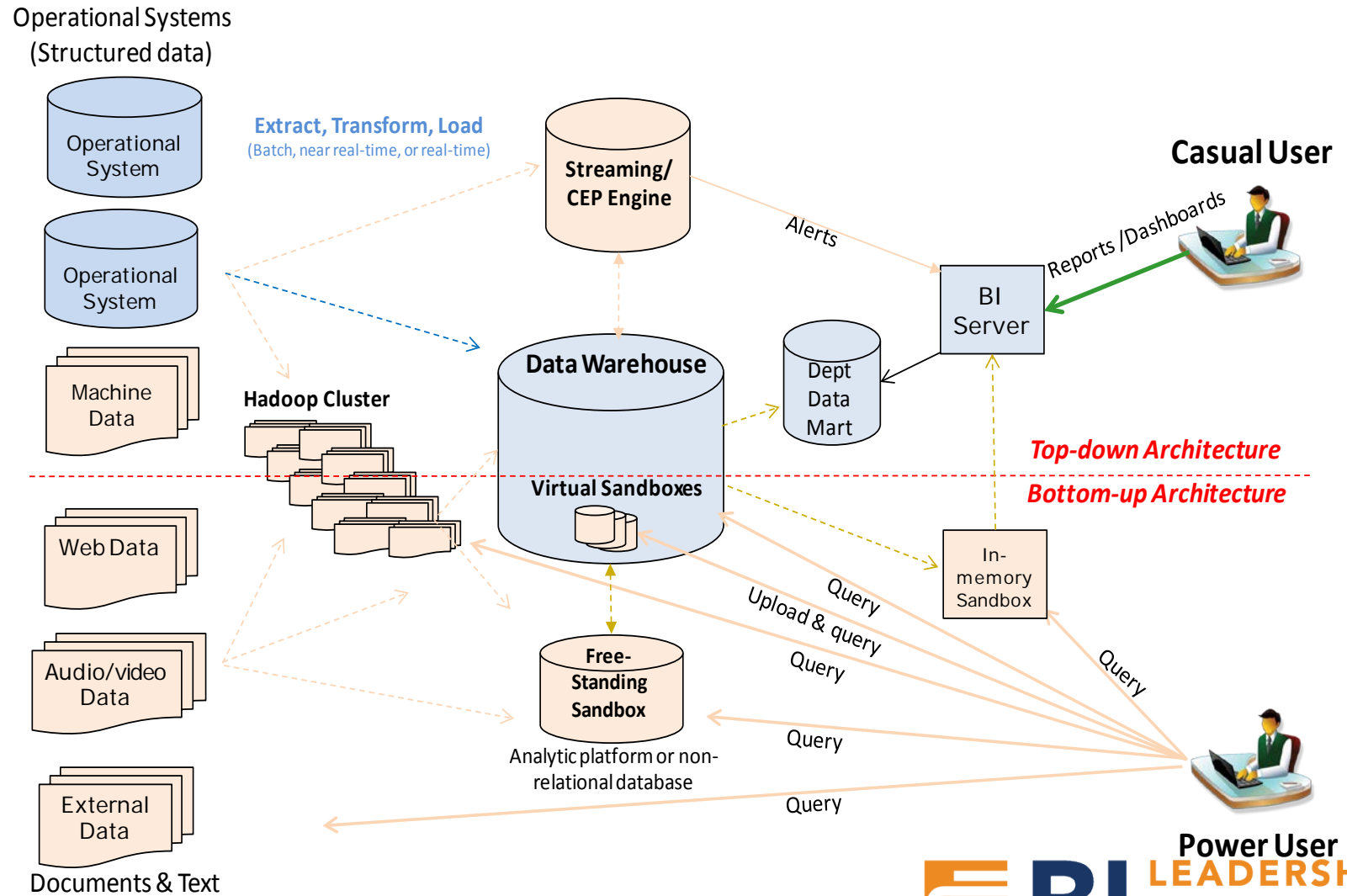
- Quick to build
- Politically uncharged
- Easy to change

- Low cost

Cons:

- Alignment
- Consistency
- "Schema Light"

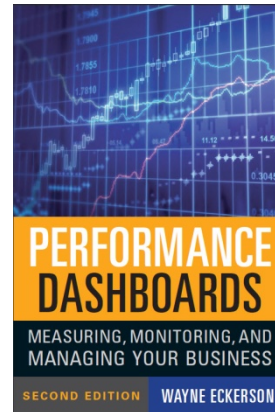
The new analytical ecosystem



Questions?



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- Founder, BI Leadership Forum
- Director of Research, TechTarget
- Former director of research at TDWI
- Author



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