Agile BI Methodologies with MS BI tools (PowerPivot, PowerBI)

SQ: Saturday #394

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GNet Group

Agenda

- Introduction

- BI Concepts

- Agile BI Methodologies with MS BI tools

- Q & A

About GNet Group

- We help solve business problems and foster a data driven culture
- US HQ in Minneapolis, with offices in Dallas, Des Moines.
- Fully-owned subsidiary of Nihilent Technologies, global consulting and solutions integrator.
- 1500+ employees across USA, South Africa, UK and offshore in India.
- Several awards, including Microsoft worldwide BI partner runner up
- We are project-based, focused on business outcomes
- We bring a rich combination of business and technology expertise to every solution we provide
- Our consulting expertise, agile approach to delivery and record of success make us a go-to partner for Microsoft

Microsoft Partner
Gold Business Intelligence
Gold Collaboration and Content

Practice Areas

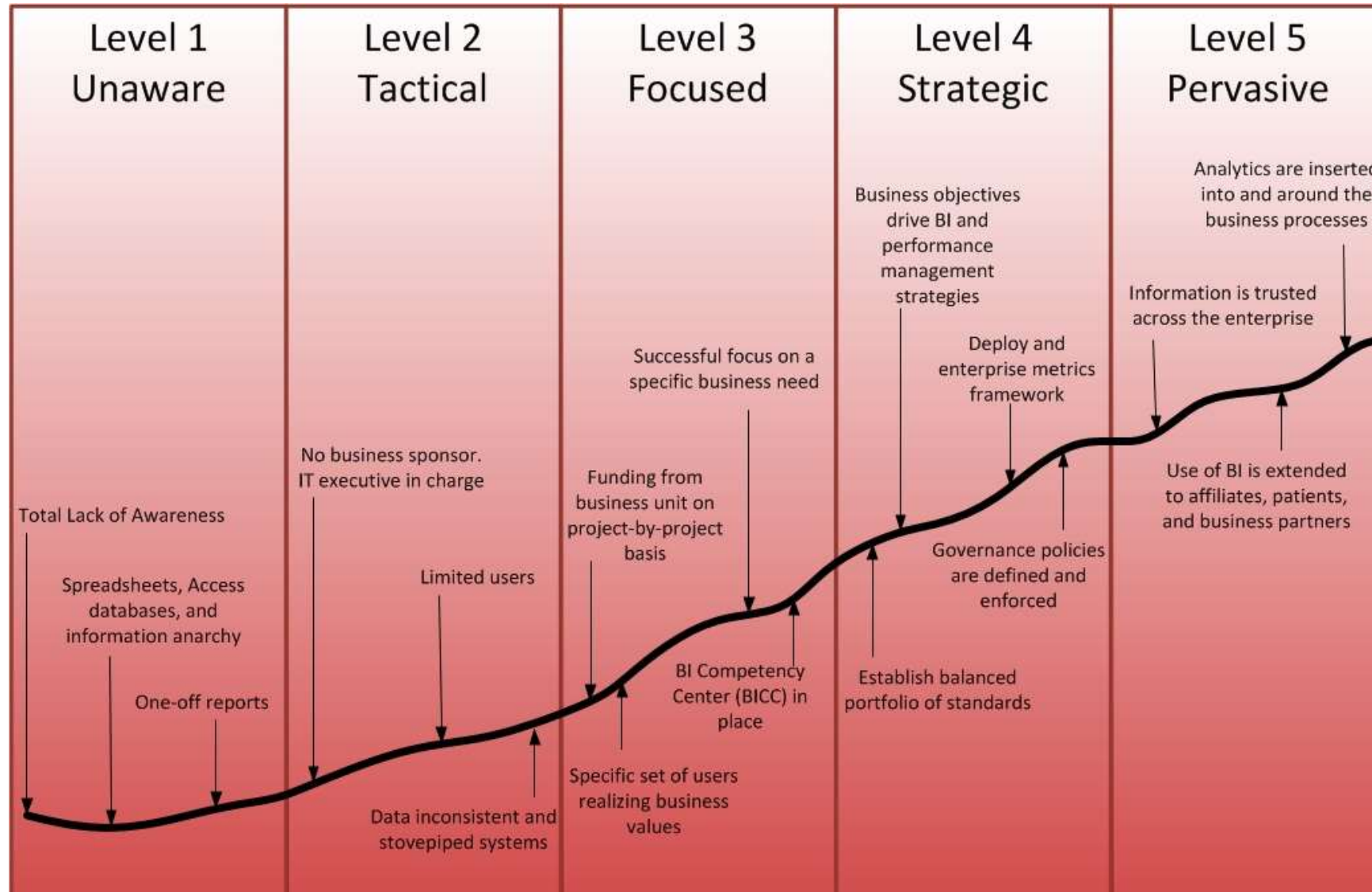| Portals & Collaboration - SharePoint	Business Intelligence	CRM
Frameworks	Cloud O365 & Azure	Data Science

Audience Poll

Business Intelligence Concepts

What is Business Intelligence?

"Business Intelligence" refers to Processes, Technologies, Applications, Skills and Practices to deliver accurate and timely information to appropriate decision makers within an organization to support better decision-making.

The term 'Business Intelligence' (BI) gained popularity in the late 1990's but the concept (previously referred to as 'Decision Support Systems') has existed long before this formal definition.

BI Maturity Model

Level 1 Unaware	Level 2 Tactical	Level 3 Focused	Level 4 Strategic	Level 5 Pervasive
Total Lack of Awareness	No business sponsor. IT executive in charge	Successful focus on a specific business need	Business objectives drive BI and performance management strategies	Analytics are inserted into and around the business processes
Spreadsheets, Access databases, and information anarchy	Limited users	Funding from business unit on project-by-project basis	Deploy and enterprise metrics framework	Information is trusted across the enterprise
One-off reports	Data inconsistent and stovepiped systems	BI Competency Center (BICC) in place	Governance policies are defined and enforced	Use of BI is extended to affiliates, patients, and business partners
		Specific set of users realizing business values	Establish balanced portfolio of standards	

Source: Gartner 2008

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BI Battle

Business

- Long, slow and expensive
- Hard time prioritizing
- Data quality is not acceptable
- Cannot define all requirements upfront
- Need all the data
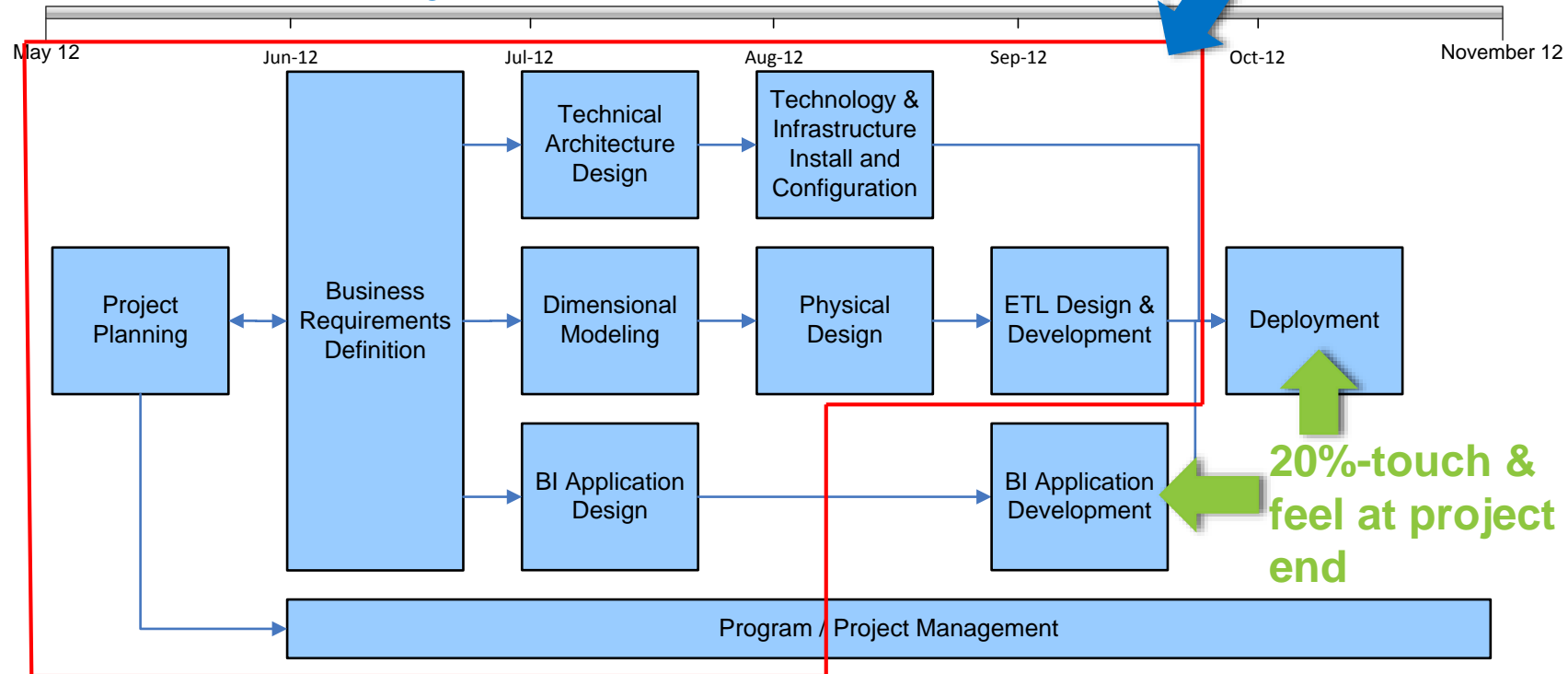- Need freedom to change rapidly
- Cannot wait in IT queue

IT

- Have limited capacity
- How many formats can we produce
- Cannot own data quality
- Scope Creep all the time!
- Need more time & money
- Hard time to determine feasibility
- Constant change is hard

Traditional BI Methodology

✓ **Ent Data Integration & Architecture**

X **Time**

80%-backend work takes too long

20%-touch & feel at project end

May 12 | Jun-12 | Jul-12 | Aug-12 | Sep-12 | Oct-12 | November 12

- Project Planning
- Business Requirements Definition
- Technical Architecture Design
- Technology & Infrastructure Install and Configuration
- Dimensional Modeling
- Physical Design
- ETL Design & Development
- Deployment
- BI Application Design
- BI Application Development
- Program / Project Management

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Agile BI Strategy

Business Vision & Strategy

Assessment & Roadmap

Data, Report Request

Define Business Questions & Outcomes

Plan, Estimate, Scope

Prototype (requirement validation)

Enterprise Architecture

Production Power Pivot, Tabular

Feedback

ODS, EDW, Cube
Design
Develop
Test
Deploy

✓Enterprise Data Architecture

✓Time
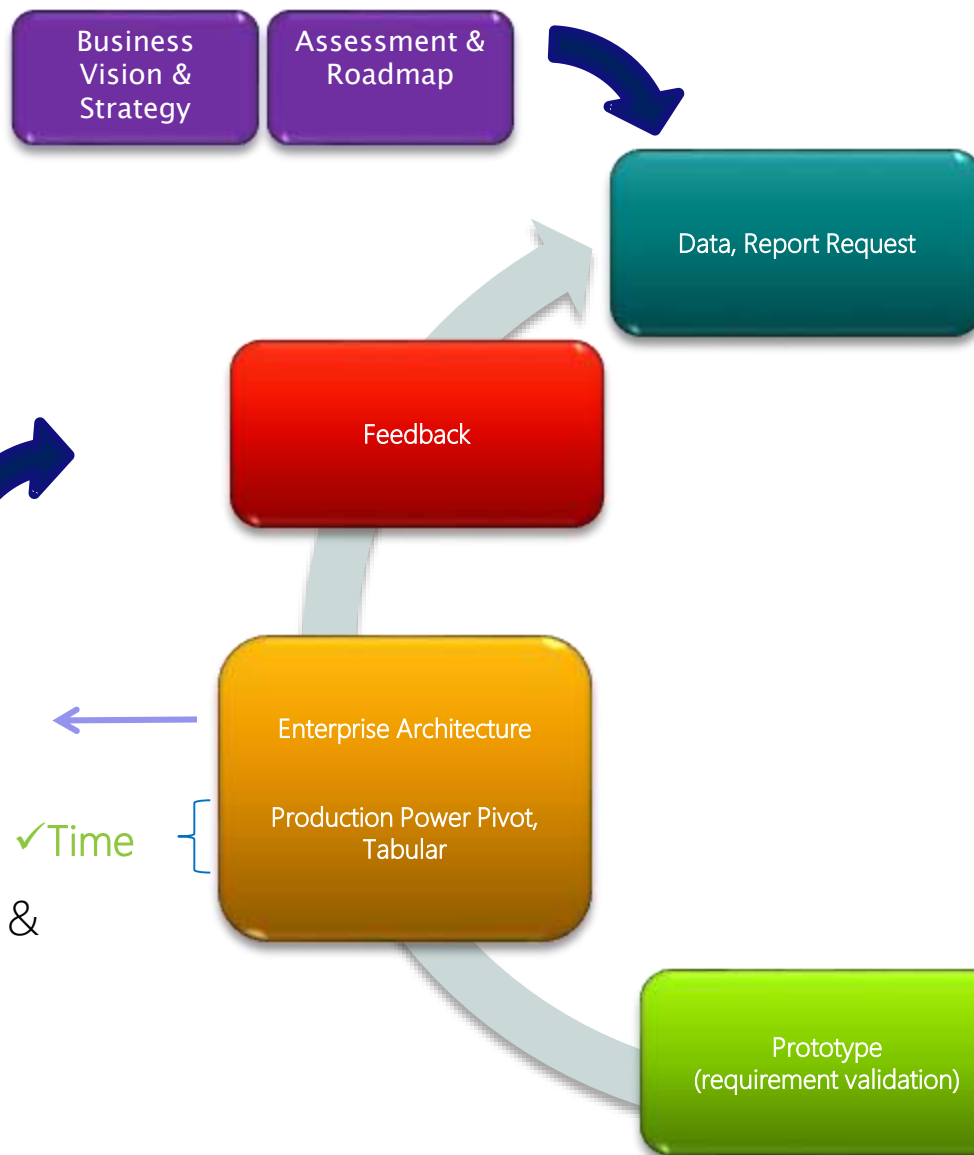
1. Iterative delivery of reports and dashboards
2. Weeks instead of months using Microsoft BI &
3. Explore data and understand
4. Evaluate needs by sharing and learning
5. Evolve to build robust architecture for the enterprise
6. Repeat process

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Blend the Two?
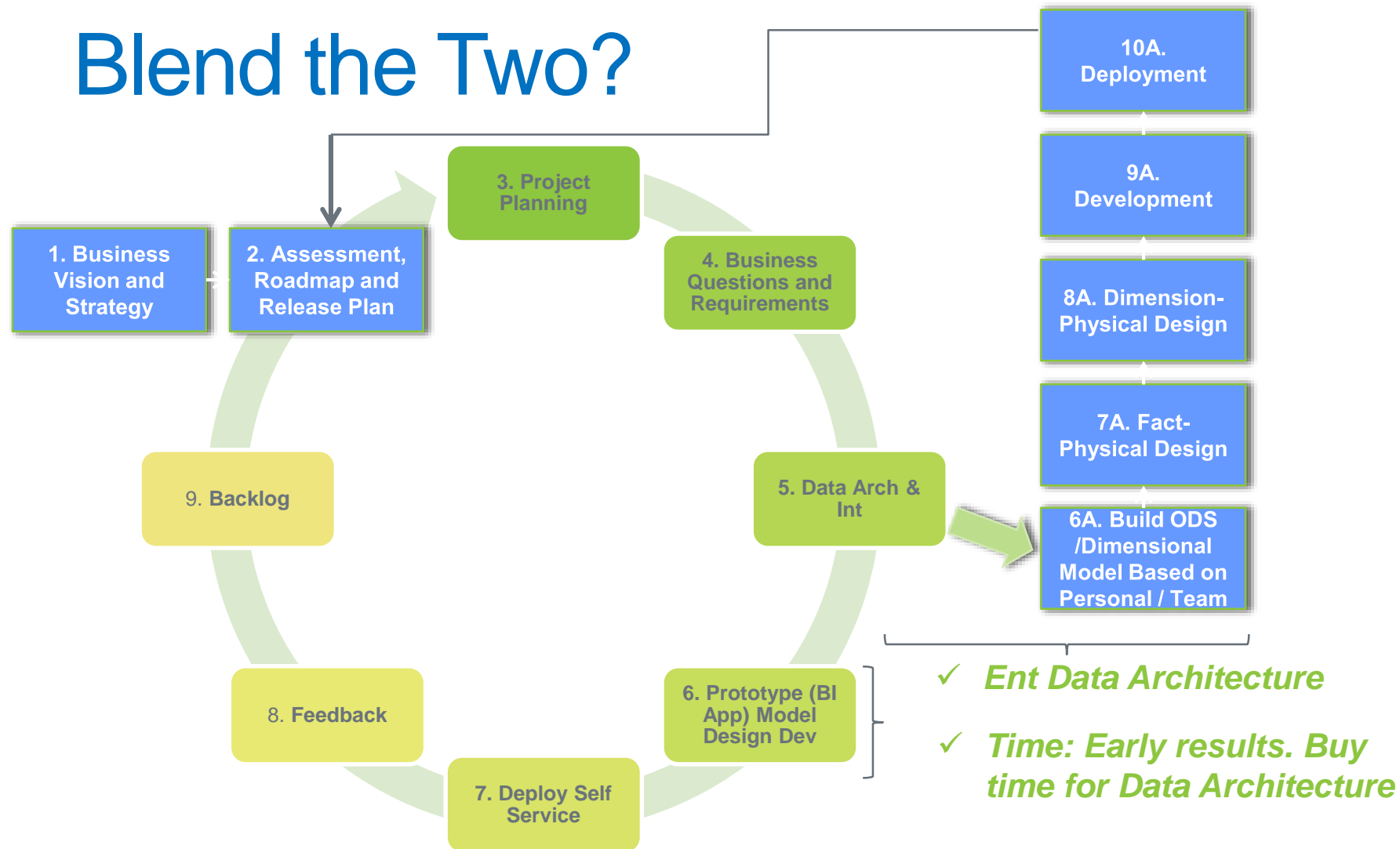
- End Goal is a comprehensive BI solution (ETL, EDW and Presentation)
- Agile BI Solutions in the interim while Data Architecture is built
- Ent. Data Architecture: ODS, EDW based on Exploration, Evaluation and Evolution.
- Accelerate robust EDW build based on solid requirements and feedback

Personal > Team > Enterprise

Personal BI — PowerPivot for Excel

Team BI — PowerPivot for SharePoint

Corporate BI — Analysis Services

Scenario 1: First DW (end goal is EDW)

Personal BI

Power Pivot for Excel

Team BI

Power Pivot for SharePoint
XLS
Promote to IT Managed Environment – Process & Security

Organizational BI

Power Pivot

Performance Point

Excel and Excel Services

SSRS

BI Semantic Model

ODS

EDW

Analysis Services

CRM

ERP

POS

Other

SOURCE DBs

CRM

ERP

POS

Other

Agility and long term data architecture!
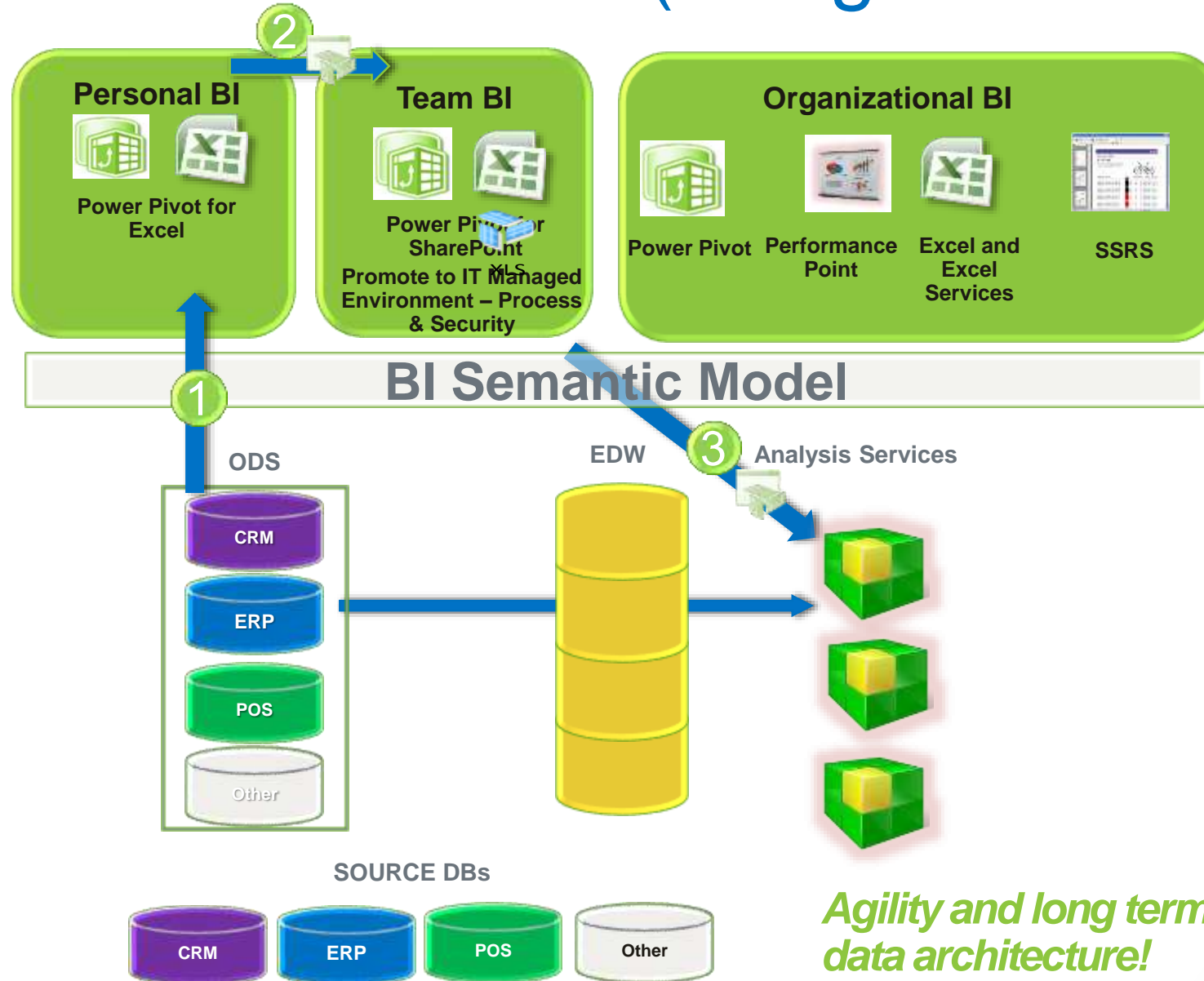
Scenario 2: Enhancing to existing DW

Personal BI

Power Pivot for Excel

Team BI

Power Pivot for SharePoint

Promote to IT Managed Environment – Process & Security

Organizational BI

Power Pivot

Performance Point

Excel and Excel Services

SSRS

BI Semantic Model

ODS

EDW

Analysis Services

CRM

ERP

POS

Other

SOURCE DBs

CRM

ERP

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Other

Agility and long term data architecture!
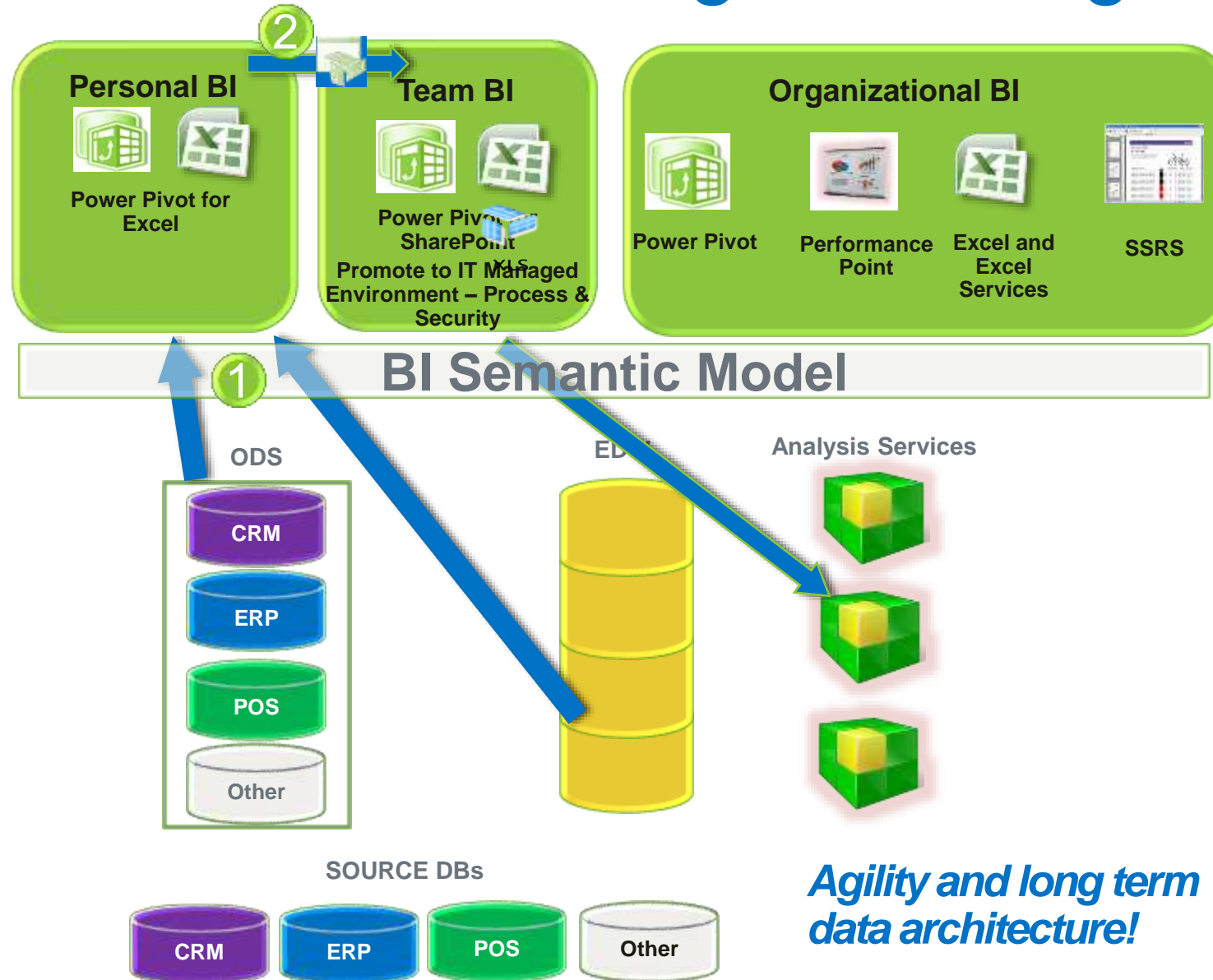
Benefits

Blended approach addresses both Data Architecture and the Need for Speed.

1. Prototyping addresses the Time challenge

    - Visualizing, touching, feeling the data – facilitates discovery and exploration

    - Enables data profiling, validate requirements

    - Keeps customers engaged and involved in the process

    - Focus is on business discussion vs. technical specifications

    - Facilitates ownership and adoption

2. Classic approach to build robust Data Architecture based on EEE.

    - Accelerates Data Architecture (EDW) build in parallel based on solid requirement

    - Perception of speed, they see activity, no big gaps in time, "pressure relief valve"

    - Removes the unknown which results in uncertainty and a sense of risk

    - Reduces cost of Data Architecture build

Business can see the value in action

Microsoft BI Toolset (PowerPivot, PowerBI)

A powerful new way to work with data

Self-service business intelligence with familiar Excel and the power of the cloud

Analyze in Excel
1 Billion Office Users

+

Collaborate in Power BI for Office 365
1 in 4 enterprise customers on Office 365

Discover	Analyze	Visualize

Share	Question	Mobility

Q&A

Scalable | Manageable | Trusted

Analyzing data with Excel

Discover

Easily discover and access public and corporate data with **Power Query**

Model

Model & analyze 100's of millions of rows lightning fast with **Power Pivot**

Visualize

Explore and visualize data in new ways with **Power View** and **Power Map**

A powerful new way to work with data
Self-service business intelligence with familiar Excel and the power of the cloud

Analyze in Excel
1 Billion Office Users

Discover | Analyze | Visualize

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Share | Question | Mobility

Q&A

+

Scalable | Manageable | Trusted

Share & Collaborate with Power BI for Office 365

BI Sites

Build & Share Queries

Data Refresh

Data Search

Mobile Access

Natural Language Questions

Quickly create collaborative BI sites
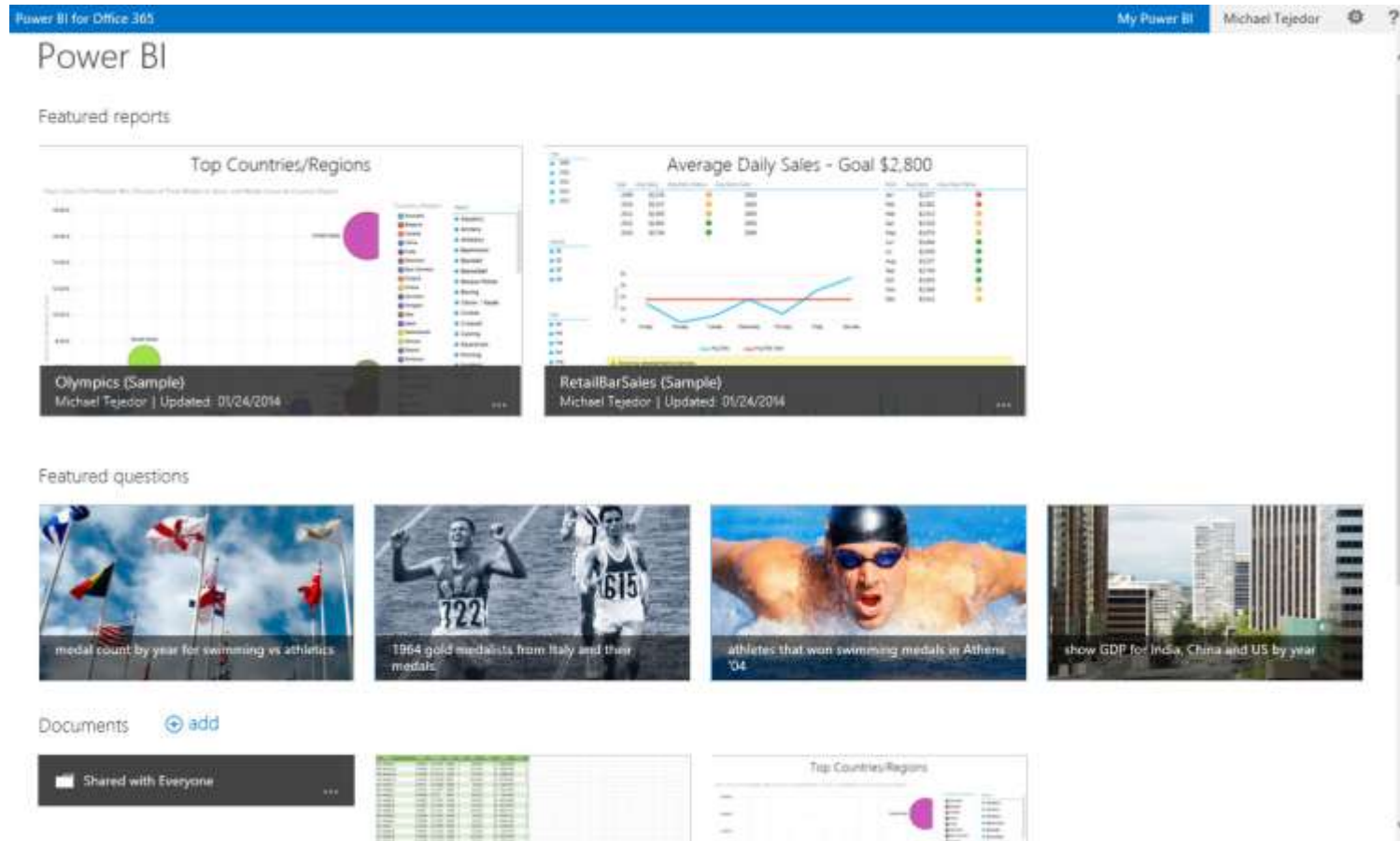
Share & Collaborate with Power BI for Office 365

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Natural Language Questions

Build and Share queries
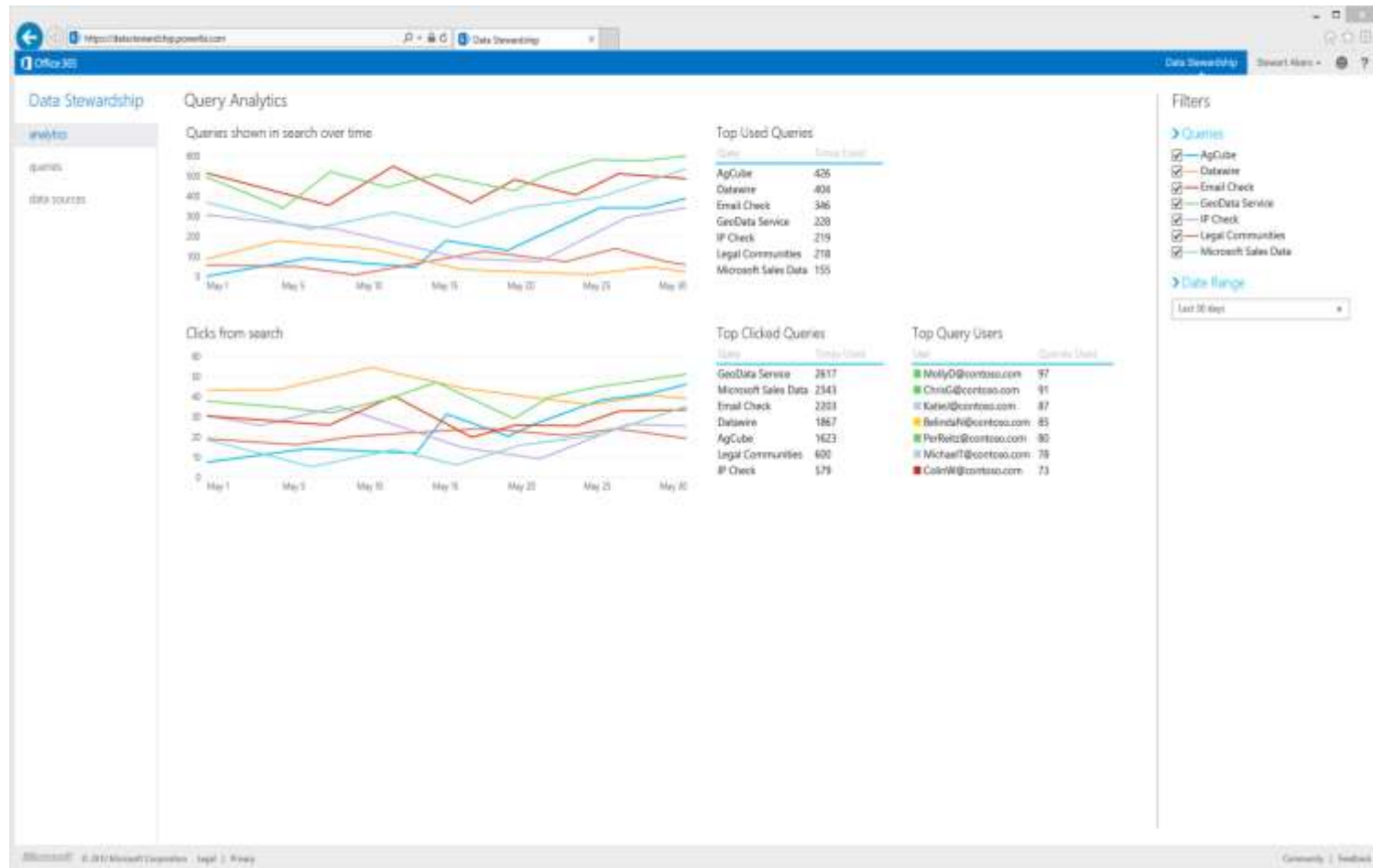
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Keep reports up to date with scheduled data refresh
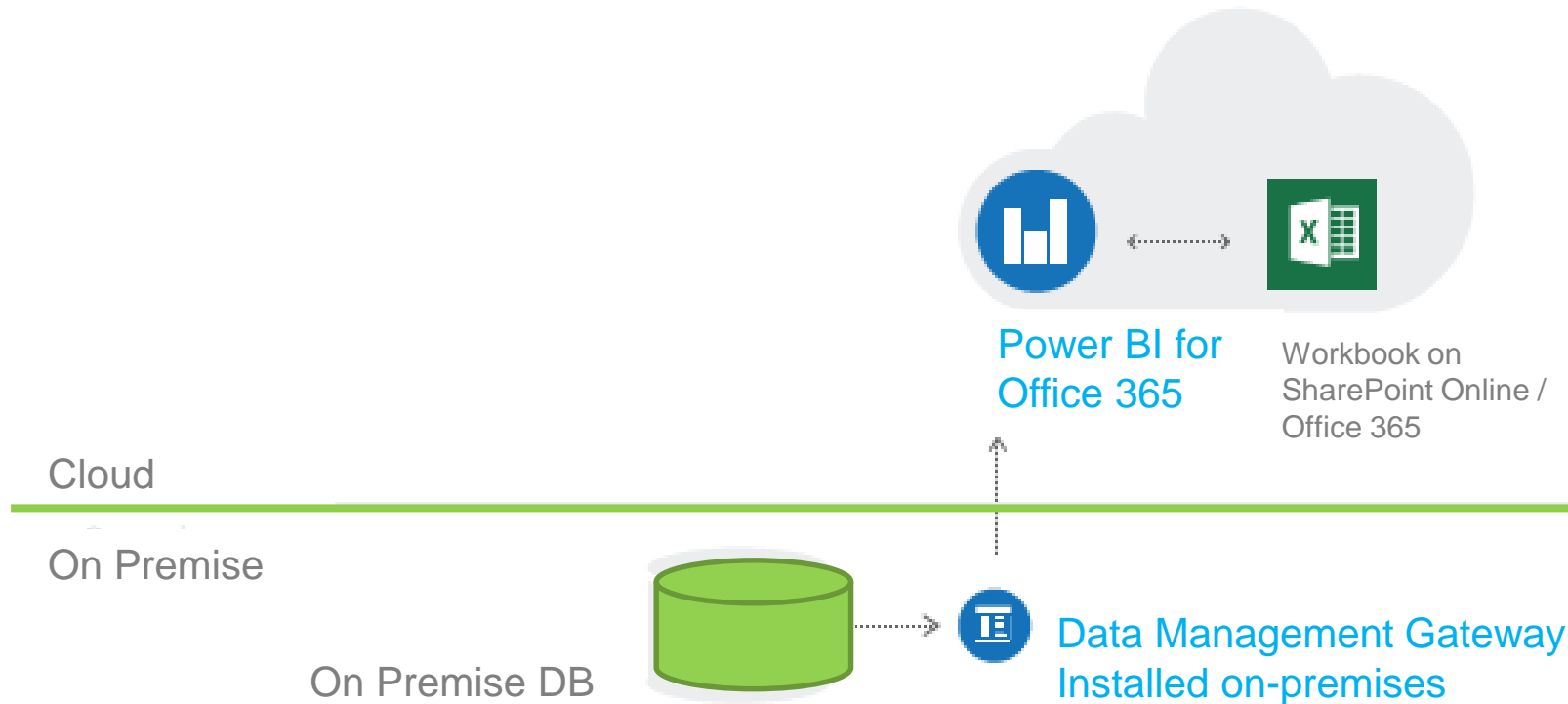
Power BI for Office 365

Workbook on SharePoint Online / Office 365

Cloud

On Premise

On Premise DB

Data Management Gateway Installed on-premises

Share & Collaborate with Power BI for Office 365

BI Sites

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Natural Language Questions

Maintain a Data Catalog of searchable data

Search for:

Public Data
Corporate Data
Shared Queries

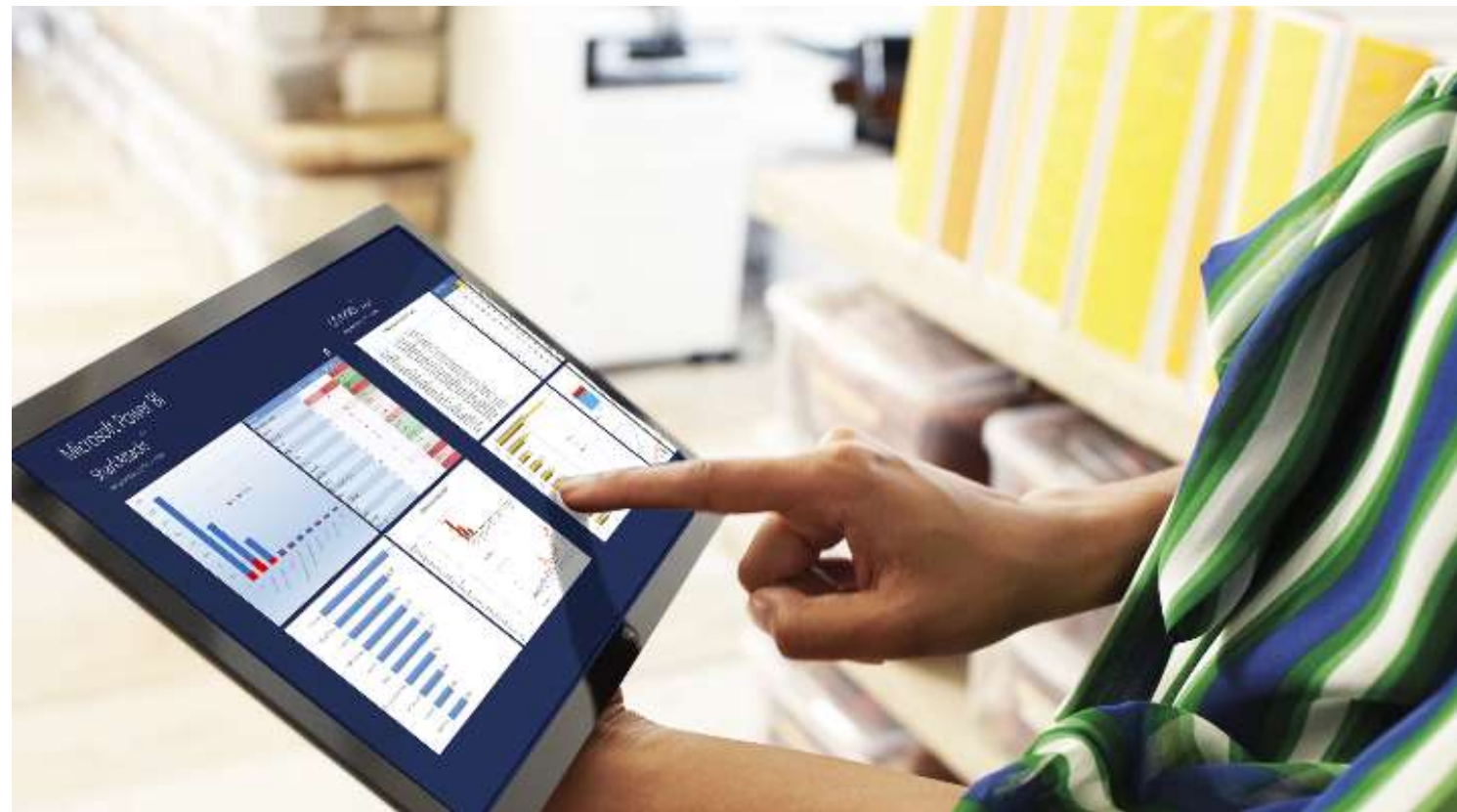# Share & Collaborate with Power BI for Office 365

BI Sites

Build & Share Queries

Data Refresh

Data Search

Mobile Access

Natural Language Questions

Stay connected with mobile access to your reports

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Share & Collaborate with Power BI for Office 365

BI Sites

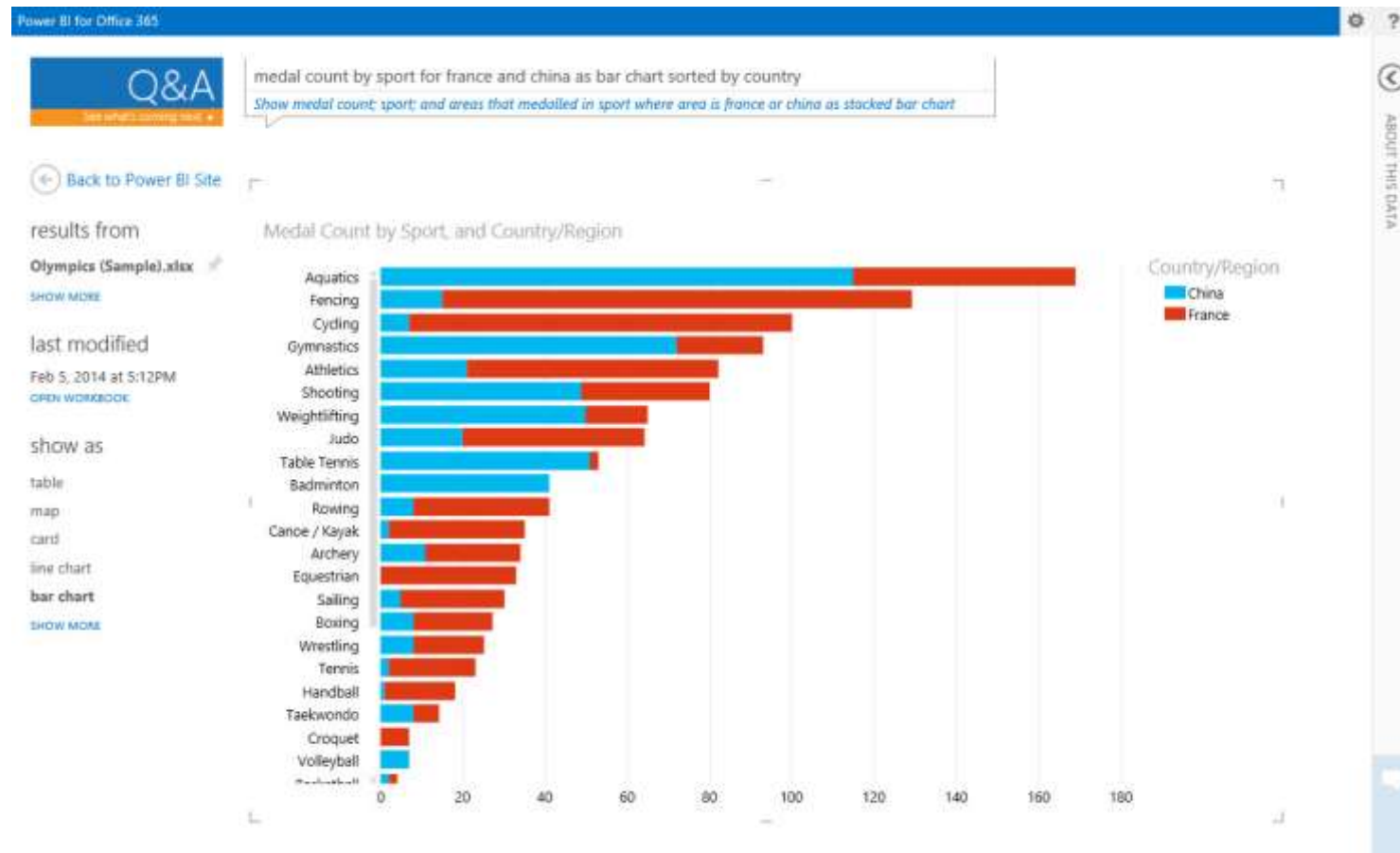**Build & Share Queries**

Data Refresh

Data Search

Mobile Access

Natural Language Questions

Ask questions of your data in natural language

Demo

Q&A

Questions?

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