

Business Intelligence at UW- Madison

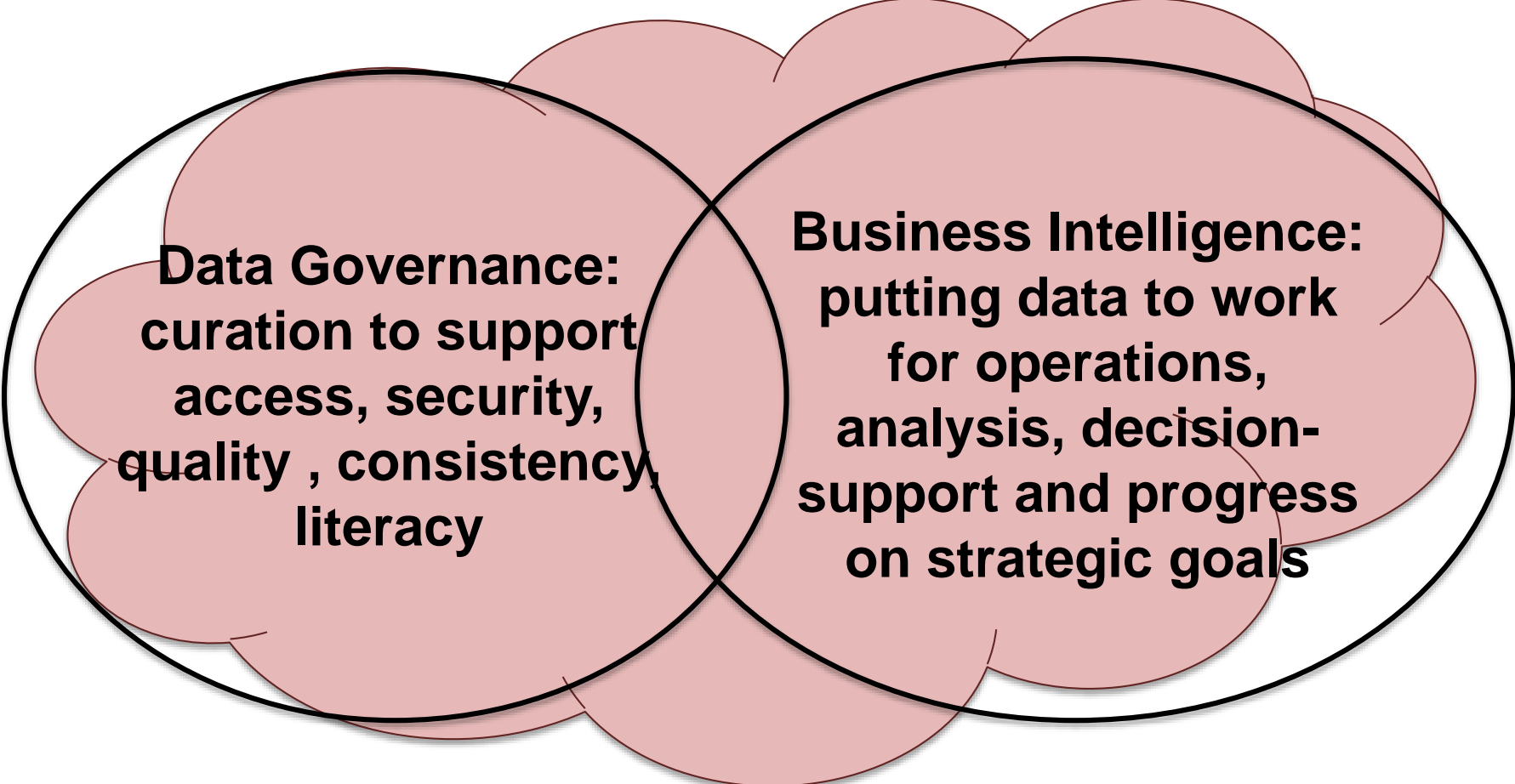
“Data-for-Everyone”

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Jocelyn Milner, Associate Provost, Academic Planning and Institutional Research
Jason Fishbain, Chief Data Officer

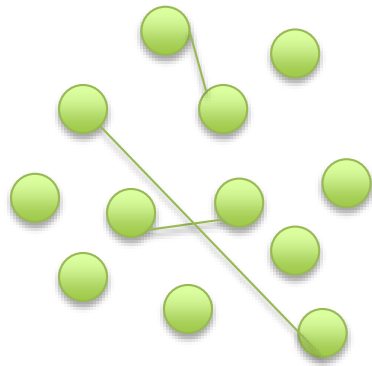
Business Intelligence

Institutional Data – an Institutional Asset

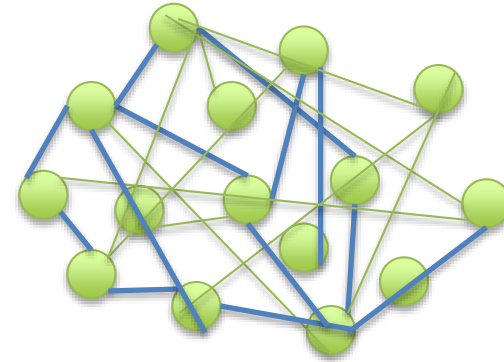


Data Governance:
curation to support
access, security,
quality , consistency,
literacy

Business Intelligence:
putting data to work
for operations,
analysis, decision-
support and progress
on strategic goals



Data On Your Own



Data for Everyone

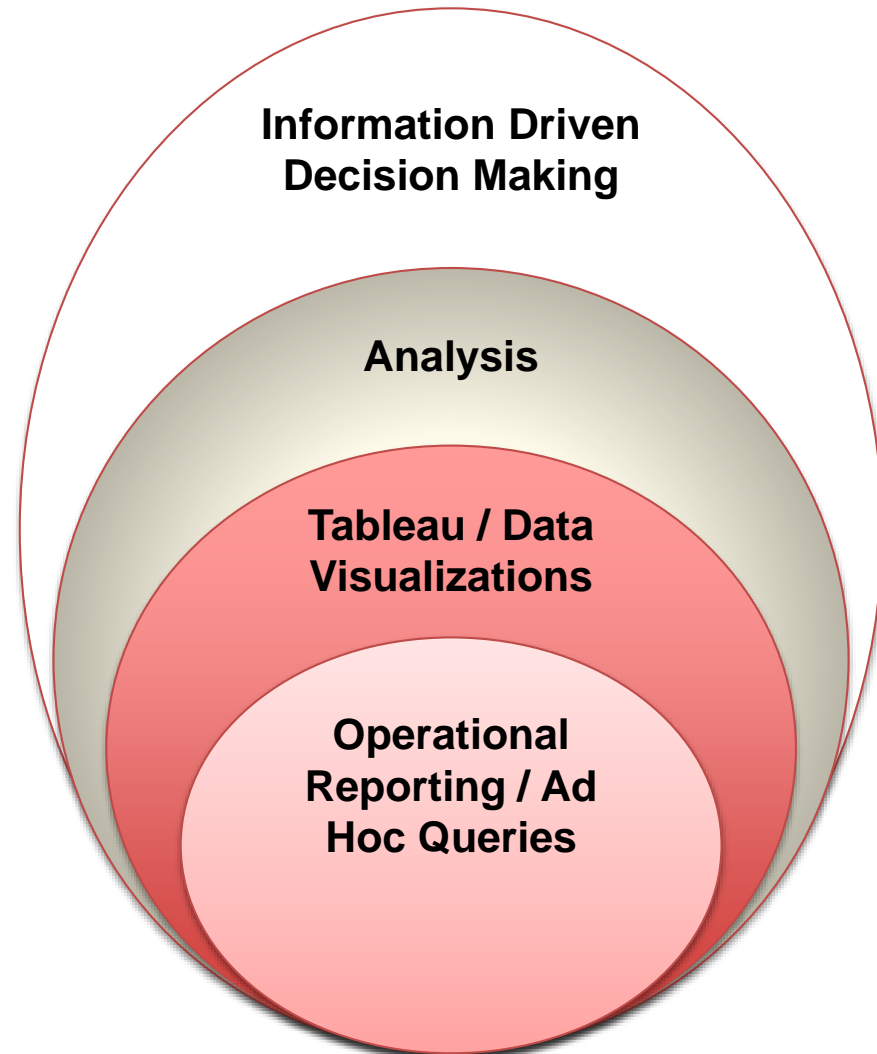
- Robust institutional data creation systems
- Centers of skill in reporting, analysis
- Connectivity and coordination in pockets
- Good access for *cognoscenti*
- Weakness in connectivity, planning
- Weakness in data literacy, training, documentation
- Uneven access to useful reports, analysis

- Robust institutional data creation systems
- Robust data warehouse structures
- Centers of skill in reporting, analysis
- Connectivity and coordination
- Systematic decisions and processes for report delivery
- Stronger planning for reporting needs, data to support operations
- Coordinated training, documentation



Different Forms of BI

Business Intelligence:
putting data to work for operations, analysis, decision-support and progress on strategic goals



Why now?

- Changing demands for data, analysis, information to stay competitive
- Expectation, demand to make better use of our institutional investment in data collection infrastructure
- Demands for using data for smarter decision-making
- Integrated otherwise silo-ed BI projects
 - Oracle (Interactive Reporting Replacement Project)
 - Tableau / Data Visualizations
 - Advisor Gateway
 - Uncoordinated and duplicative approaches to local reporting needs
- Opportunity to link data governance program (data access data literacy, data quality, data security) to the BI approaches (data-use-for-doing-a-better-job, data-for-everyone)

Why Now?

Consistent Approaches

- Prioritization of content to deliver, format for delivery
- Access roles – identity, work roles, lists
- Training
- Documentation
- Security
- What else?

One Part of BI Program – Implementation of Oracle

- Creation of institutional semantic layers
- Analysis of existing reports to understand, prioritize and determine how to develop necessary content and how best to deliver information to those who need to know
- Education program for users on the use of the new tool; for report users on where to find information in the post-Hyperion (data-for-everyone) environment
- Resources to make it all happen

A Semantic Layer ...

- Is a Business representation of transaction data where users
 - Are insulated from technical details, e.g., creating data models
 - Are able to ask questions using familiar terms
 - See data **not** as a collection of tables (needing joins) but rather an organized list of business fields from multiple sources
- Provide exposure of data definitions
- Promotes data literacy
- Supports 'data-for-everyone'
- Supports common definitions & consistent sourcing of data

Another Part of BI Program -- Tableau Software/Server

- A specialized data visualization software tool; Tableau Server allows for data security
- UW-Madison Phase 1 in progress; Phase 2 broadened access expected Spring 2016
- See <https://dataviz.wisc.edu>
- Sponsored by Educational Innovation; Project leadership in APIR, RO, and CIO/DoIT

Information and updates at: <http://apir.wisc.edu/tableau.htm>

Comprehensive planning for a BI environment will provide:

- Repository detailing what reports and/or content are available
- Mechanism for identifying and prioritizing broad data needs; Prioritization for reporting & analytical requests
- Pooling resources to implement strategic BI initiatives
- Processes to share data definitions across multiple BI tools
- Reduced redundancy
- Wider data literacy, data-for-everyone, so that data, reports, analytics can be used to make decisions, advance priorities

UW-Madison Data Governance / BI Program Structure

Institutional Leadership

Data Stewardship Council

Data / Metric Definitions Team

- Officially convened by Data Stewardship Council
- Define & document officially sanctioned definitions

BI Program Leadership Team

BI Community of Experts

- Project Core Team
- Membership from APIR, RO/DEM, GS, OHR, a/c/depts, operational units, InfoAccess

UW-Madison BI Program Structure

Institutional Leadership: Sarah Mangelsdorf, Provost; Darrell Bazzell, VCFA

BI (OBIEE) Executive Leads: Bruce Maas, CIO; Jocelyn Milner, AP/APIR

BI Project Leads: Jason Fishbain, CDO; Jocelyn Milner, AP/APIR

BI (OBIEE) Project Coordinator: Jeff Shokler
BI (OBIEE) Project Manager: Patrick Hare

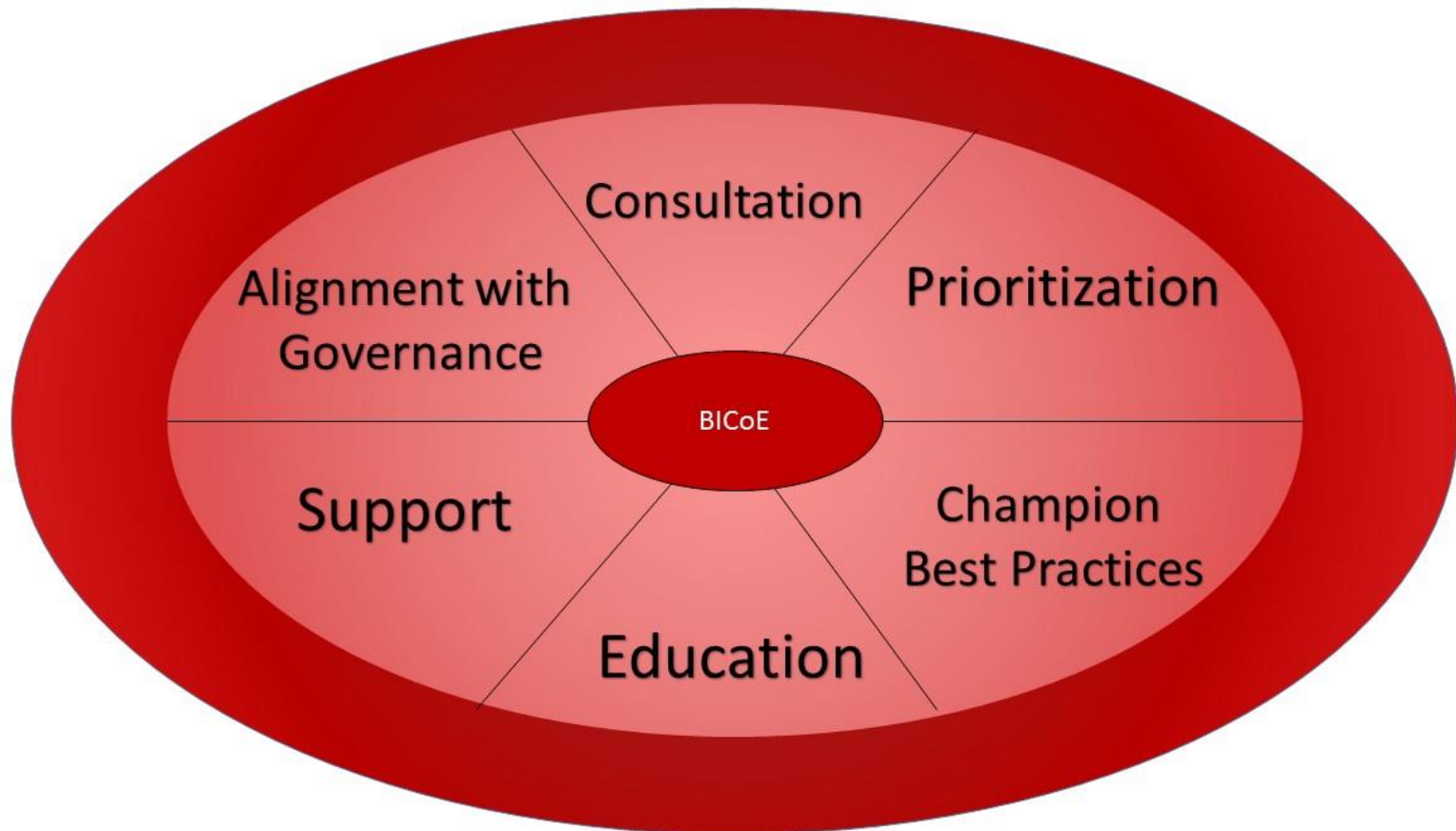
BI Program Leadership Team

- Leadership from major operations units/sites of internal data creation
- InfoAccess leadership
- Substantial overlap with Data Governance advisory group

BI Community of Experts

Expert analysts and data practitioners from operational units, APIR, InfoAccess, S/C/Depts

Business Intelligence Community of Experts (BICoE)



NEXT STEPS?

Plan for BI program is emerging...

What feedback do you have?

We plan to convene the BICoE in January 2016 – any feedback?