

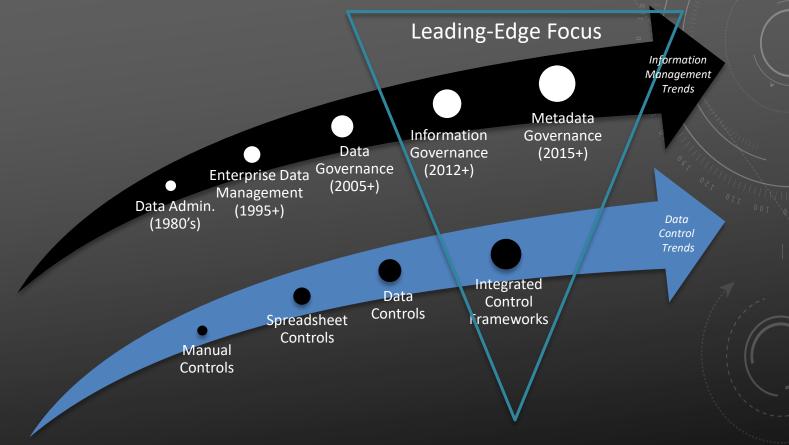
WHO AM I?

- Tami Flowers
- Director, Governance Solutions at MetaGovernance
- PMI-PMP, PMI-ACP, and Certified Scrum Master
- Agile Coach
- Business Process Modeling -> strategic and tactical



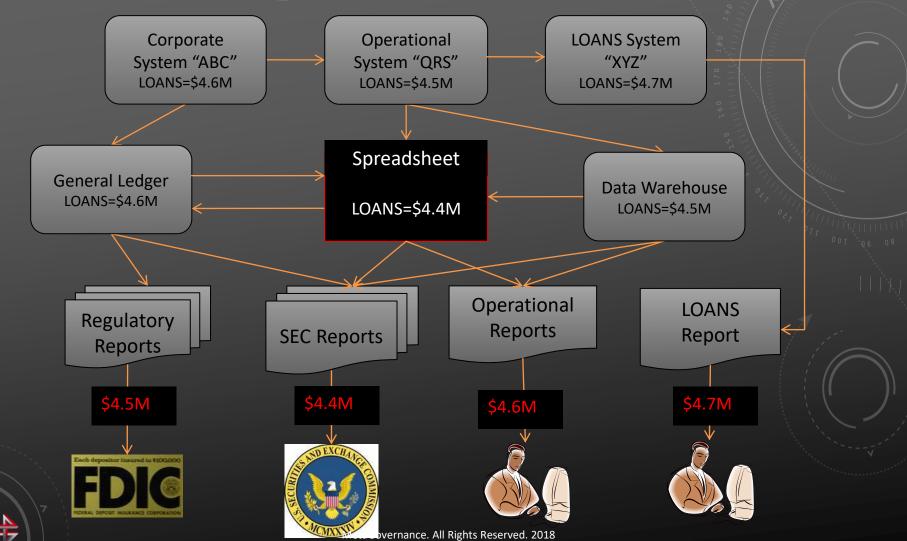


RIDING THE WAVES OF CHANGE





THE PROBLEM - MANY VERSIONS. WHICH IS CORRECT?



METAGOVERNANCE

Organizations are optimizing process but forgetting about the information. We help organizations understand and optimize information flow and processes.

We provide a unique governance framework that crosses the entire organization focusing on data, business process, controls and technology.

Enterprise Architecture Domain

Business Architecture

Information Architecture

Data Architecture

Application Architecture

Technical Architecture Business Process Metadata Tools

Data Dictionary/ Modeling Tools

Governance

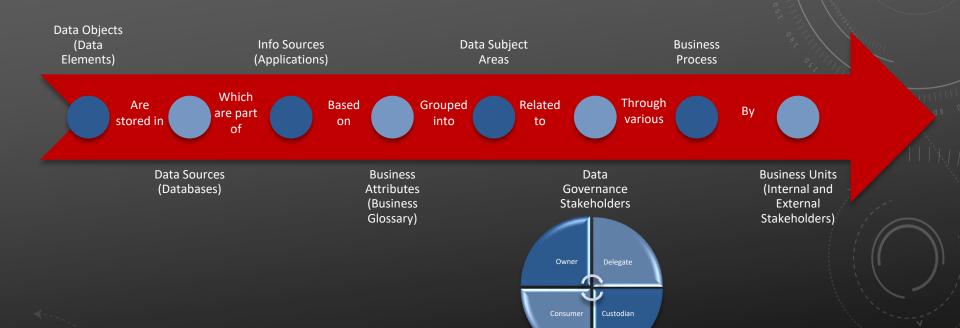
Architecture

Metadata Domain

Application Metadata Tools



GLUING IT ALL TOGETHER TO ENABLE AWARENESS





ID

001











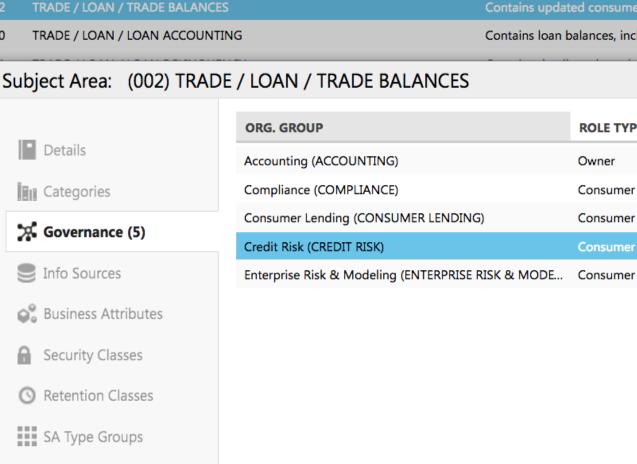
TRADE / LOAN / TRADE BALANCES 010 TRADE / LOAN / LOAN ACCOUNTING Details Categories Governance (5) Info Sources **Business Attributes** Security Classes

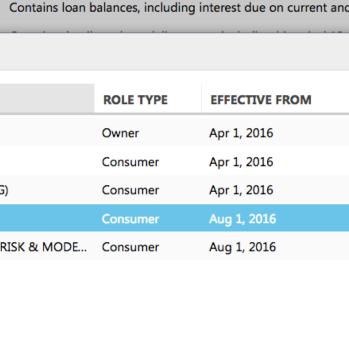
Retention Classes

SA Type Groups

SUBJECT AREA

TRADE / LOAN / INITIAL ISSUANCE





Details related to the initial issuance of a consumer loan.

Contains updated consumer loan balance details.

DESCRIPTION

Governance Roles and Information Sources by Subject Area

Subject Code:	002*	Subject Area:	ADVANCE/TRADE BALANCES

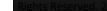
Official System of Record: LOAN ORIGINATION Security Classification: Sensitive SYSTEM

Org. Group	Governance <u>Role</u>	Org. Group Information Source	Org. Group System of Record	Effective From	Effective Thru	
Accounting	Delegate	LOAN ORIGINATION SYSTEM	Yes	07/13/2017	Still Effective	
Accounting	Delegate	UDA100*	Yes	07/13/2017	Still Effective	
Compliance	Consumer	LOAN ORIGINATION SYSTEM	Yes	04/01/2016	Still Effective	
Consumer Lending	Consumer	LOAN ORIGINATION SYSTEM	Yes	04/01/2016	Still Effective	
Correspondent Banking	Delegate	LOAN ORIGINATION SYSTEM	No	07/13/2017	Still Effective	
Credit Risk	Owner	LOAN ORIGINATION SYSTEM	No	07/13/2017	Still Effective	
Enterprise Risk & Modeling	Consumer	UDA100*	No	07/13/2017	Still Effective	
Market Risk	Consumer	UDA100*	No	08/01/2016	Still Effective	

Subject Area (SA) Name	Business Attribute (BA)	BA Description	Data Object (DO)
		Accrued Interest amount on the Bank's	
ADVANCE/TRADE BALANCES	ACCRUED INTEREST	book for a security.	Trade > ACCRINT > demoTrade
		Accrued Interest amount on the Bank's	
ADVANCE/TRADE BALANCES	ACCRUED INTEREST	book for a security.	GL > ACCOUNT BALANCE > demoGL
		Accrued Interest amount on the Bank's	
ADVANCE/TRADE BALANCES	ACCRUED INTEREST	book for a security.	TradeSum > ACCR_INT > demoEDW
		Accrued Interest amount on the Bank's	
ADVANCE/TRADE BALANCES	ACCRUED INTEREST	book for a security.	demo_acctxls > ACCRUED INTEREST > ACCTXLS
		The current principal amount of the loan	
ADVANCE/TRADE BALANCES	CURRENT PRINCIPAL	or mortgage.	
		Estimated Maturity Date of the security as	
ADVANCE/TRADE BALANCES	ESTIMATED MATURITY DATE	forecasted from model.	
ADVANCE/TRADE BALANCES	ADVANCE ID	Primary identifier for a loan or mortgage.	Trade > LOANID > demoTrade
ADVANCE/TRADE BALANCES	ADVANCE ID	Primary identifier for a loan or mortgage.	TradeSum > LOAN_ID > demoEDW
ADVANCE/TRADE BALANCES	LEGAL ENTITY ID	Unique Identifier for a business partner.	Trade > MEMBERRID > demoTrade
ADVANCE/TRADE DALANCES	LEGAL ENTITY ID		T- 1.6 14514959 ID- 1- 5044
ADVANCE/TRADE BALANCES	LEGAL ENTITY ID	Unique Identifier for a business partner.	TradeSum > MEMBER_ID > demoEDW
		The name of the business partner. This	
1			
ADVANCE/TRADE BALANCES	LEGAL ENTITY NAME	name may or may not be the fully legal name of the business partner.	Trade > MEMBERNAME > demoTrade
ADVANCE/ I RADE BALANCES	LEGAL ENTITY NAME	name of the business partner.	Trade > IVIEIVIDERIVAIVIE > demoTrade
		The name of the business partner. This	
ADVANCE/TRADE BALANCES	LEGAL ENTITY NAME		TradeSum > MEMBER_NAME > demoEDW
ADVANCE/TRADE BALANCES	LEGAL ENTITY NAME	The name of the business partner. This name may or may not be the fully legal name of the business partner.	TradeSum > MEMBER_NAME > demoEDW

Retention: 7Y 7 years from last business event

Organization Group: Accounting								
Governance <u>Role</u>	Subject Area Code	Subject Area	Information Source	System Of Record				
Delegate	002*	ADVANCE / TRADE BALANCES	LOAN ORIGINATIO N SYSTEM	Yes				
Delegate	002*	ADVANCE / TRADE BALANCES	UDA100*	Yes				
Owner	010	TRAN / MPF / LOAN ACCOUNTING	INTEREST ADJUSTMEN T SPREADSHE ET	Yes				
Owner	010	TRAN / MPF / LOAN ACCOUNTING	LOAN ORIGINATIO N SYSTEM	Yes				
Consumer	011	TRAN / MPF / LOAN DELINQUENCY	GENERAL LEDGER	No				
Owner	013	TRAN / MPF / TRADE BALANCES	LOAN ORIGINATIO N SYSTEM	Yes				

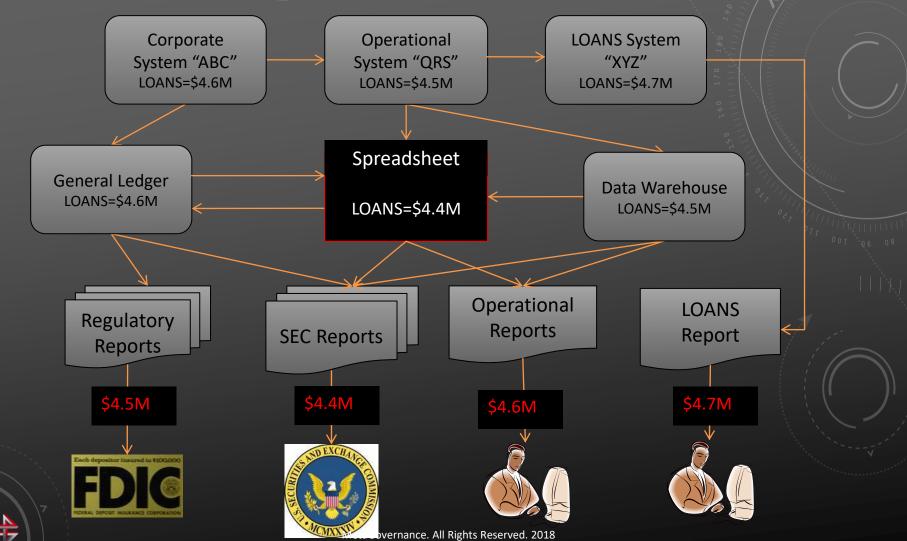


TODAY

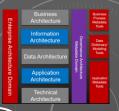
- Data Governance Framework
- Agile
- How to use them together



THE PROBLEM - MANY VERSIONS. WHICH IS CORRECT?



IDEALIZED END STATE



Data Governance Framework

Business Process Integration

Data Enhancement

Reconciliation and Control Framework

Liaison to Corporate Governance

Charter, Policy and Procedures

Governance Metadata

System of Record/ Known Copies

Business Glossary

Security/ Record Retention

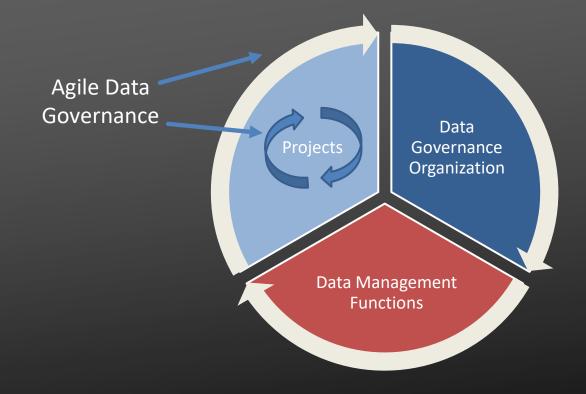
Stakeholders

Data Owner/Steward

Data Consumers

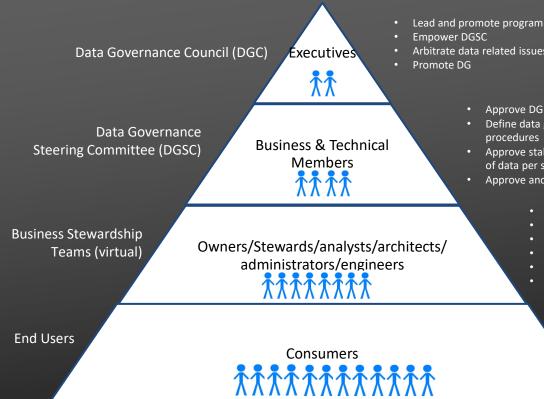


AGILE DATA GOVERNANCE





DATA GOVERNANCE FRAMEWORK



- Arbitrate data related issues, as needed
 - Approve DG roadmap
 - Define data governance charter, policies, and procedures
 - Approve stakeholders, and sources and use of data per subject area
 - Approve and oversee corrective actions
 - **Technical and Business Members**
 - Execute DG roadmap
 - Understand and execute business processes
 - Create/update business glossary
 - Responsible for security and record retention
 - Identify corrective actions / data issues

Business Members

- Identify and communicate data issues
- Use business glossary

BUSINESS STEWARDSHIP MODEL

- Accountable for Data Quality
- Subject Matter Experts (SME)
- Follows process workflow
- Data Owners are normally tasked with data entry / collection unless there is an overriding reason

Owner (Accountable) Responsible but not solely accountable

• Data maintenance on behalf of another Business Unit (Delegates)

 Often driven by separation of duties issues

Consumer

(Dependent)

Custodian (Responsible)

Steward

(Responsible)

• Responsible for safeguard of physical data assets

• Custodians are IT or external vendor

• Custodian may be a business unit in the case of End-User Computing

- Vested stakeholders of data
- "Missing puzzle piece" to most Data Governance efforts
- Business Units and external entities that use or receive data are Data Consumers
- Registered consumers of data



MAINTAINING AWARENESS OF SOURCE AND USE OF DATA

Data Subject Area ID	Major Subject Group	1 st Sub Grouping	2 nd Sub Grouping	Accounting Operations	Collateral	Credit Risk	Market Risk	Member Services	Sales	Compliance	Information Technology
1	Trade	Loan	Adjustable-Rate Loan								/
5	Trade	Loan	Letters of Credit								/
6	Trade	Loan	Prepayment Fee								
11	Financial	Accounting	Accrued Interest								
12	Financial	Accounting	Outstanding Principle								/
LEGEND											
CONSUME	ER										
OWNER											
STEWARD											
CUSTODIA	ΔN										



THE AGILE MANIFESTO

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over Processes and tools

Working software over Comprehensive documentation

Customer collaboration over Contract negotiation

Responding to change over Following a plan

That is, while there is value in the items on the right, we value the items on the left more.



In February 2001, 17 software developers met at the Snowbird resort in Utah to discuss lightweight development methods. They published the Manifesto for Agile Software Development.

AGILE PRINCIPLES

- Our highest priority is to satisfy the customer through early and continuous delivery of valuable software governance and governance processes.
- Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- Deliver working software governance frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- Business people and developers must work together daily throughout the project.
- Build projects governance around motivated individuals. Give them the environment and support they need, and trust them to get the job done.

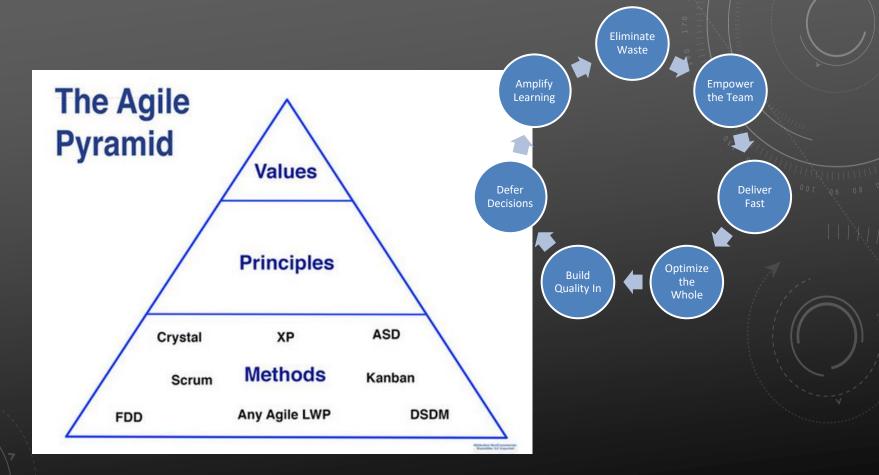


AGILE PRINCIPLES

- The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
- Working software (and sustainable) governance is the primary measure of progress.
- Agile processes promote sustainable development.
 The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- Continuous attention to technical excellence and good design enhances agility.
- Simplicity--the art of maximizing the amount of work not done--is essential.
- The best architectures, requirements, and designs emerge from self-organizing teams.
- At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.



THE MANY FLAVORS OF LEAN/AGILE





COMMONALITIES OF ALL AGILE/LEAN FLAVORS



- Capture the work
- Make it visible
- Minimally Viable Product (MVP)
- Engage the owner/customer/ stakeholders
- Have owner prioritize the work
- Work on the highest priority work first
- Iterate
- Continually retrospect and improve



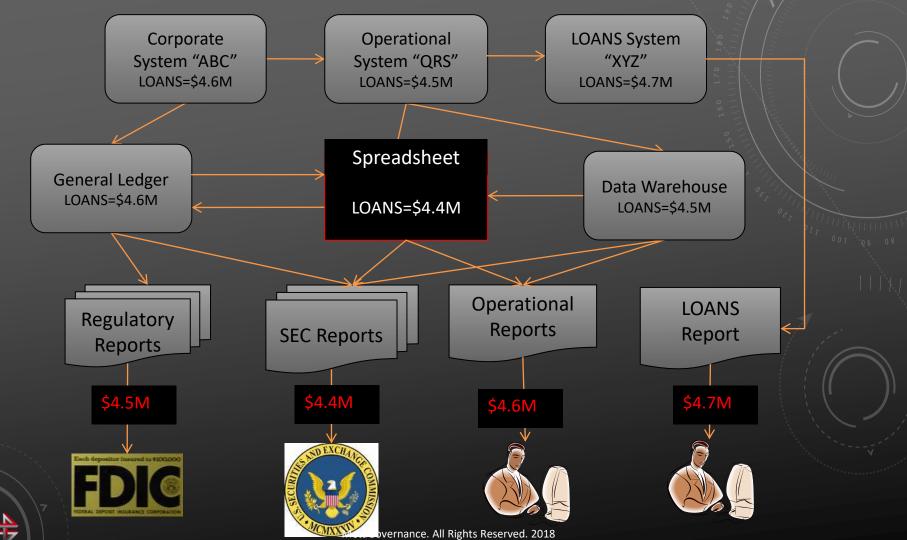
BREAKING DOWN GOVERNANCE WITHIN A PROJECT

- Stories
 - As a <role> I want <what> so that <business value>
- If not a story, include data governance as acceptance criteria in stories
 - As an accountant, I want current balances for loans, so that I can complete daily reporting
 - The system of record for loan data is defined. Known copies are identified.
 - All data elements are defined in the business dictionary.
 - An automated control is added so the current balance is automatically reconciled between the G/L and Loan System. Known stakeholders receive daily notification of success or failure of the control.

As a chief data steward I want to define governance roles for loan data so I know all governance stakeholders As a consumer of loan data, I want to know if the loan data in the datawarehouse reconciles with the General Ledger so I do not produce incorrect reports As a collateral analyst, I want the address associated with home loans to be valid and accurate so that when doing property value updates and verification the right information is available

As the Chief Security Officer, I want PII data related to loans protected and secure so that unauthorized users cannot access it

EXPERIENCE: ADDING GOVERNANCE TO A PROJECT



MAINTAINING AWARENESS OF SOURCE AND USE OF DATA

Data Subject Area ID	Major Subject Group	1 st Sub Grouping	2 nd Sub Grouping	Accounting Operations	Collateral	Credit Risk	Market Risk	Member Services	Sales	Compliance	Information Technology
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LEGEND											
CONSUME	ER										
OWNER											
STEWARD											
CUSTODIA	ΔN										



WHAT DATA GOVERNANCE STORIES ARE NEEDED IF A NEW DATA SOURCE IS BROUGHT INTO WAREHOUSE?

- Identify data owners, steward(s), custodians, consumers
- Understand usage and source of data
- Create/update business glossary
- Profile data; get approval
- Align data with policies, security, sensitive data
- Cleansing, mapping of data so it can go into warehouse
- ALL ^^ BEFORE YOU WOULD START WRITING CODE!
- Define fields to adhere to enterprise glossary
- Update conceptual architectural and data lineage
- Get approval (separate this as a separate story as to not impede progress)
- Define metadata connections to the above
- Create Data Quality rules
- Score data based on Data Quality rules created, determine fit for purpose
- Munge data to clear out punctuation, etc.

CEREMONIES

Ceremonies	Traditional Agile/Lean Project	Establishing Data Governance Framework	Actionable Data Governance within a Project
Planning Meetings	Start of every sprint/iteration	DGSC or subgroup meetings	Start of every sprint/iteration
Scrums/Stand Ups	Daily, 15 minutes	1-3 times a week	Daily, 15 minutes
Review meetings	End of every scrum/iteration	DGSC or subgroup meetings	End of every sprint/iteration
Retrospectives	End of every sprint/iteration	End of every sprint/iteration	End of every sprint/ iteration
Backlog Grooming	In the week between sprints/iterations	In between sprints/ iterations	In the week between sprints/iterations

ARTIFACTS

Artifacts	Traditional Agile/Lean	Establish Data Governance Framework	Actionable Data Governance within a Project
Product Backlog	Created from conversations with stakeholders	Created from Data Governance Roadmap	Created from DG policies and procedures
Sprint/Iteration Backlog	Prioritized by product owner during planning meeting	Prioritized by DGSC chairperson during planning meeting	Prioritized by product owner during planning meeting
Stories	Created from conversations with stakeholders	Created from Data Governance Roadmap	Created from DG policies and procedures



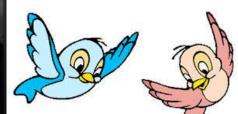
REALITY CHECK

- Agile won't magically fix everything
 - New, unexpected challenges will occur
 - Teamwork
 - Soft skills
 - Growing pains
 - Will surface ineffective processes
 - Will surface under-performing team members











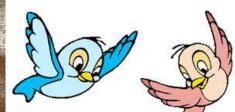
REALITY CHECK

- Data Governance won't magically fix everything or be easy to quickly implement
 - Must include the business
 - Must be added to existing processes to be successful
 - Lots of training and education is needed
 - Executive support is critical
 - Data governance framework must be in place
 - Will uncover data issues that some don't want uncovered











WAYS AGILE CAN HELP

- Increased communication and visibility
- Increased teamwork
- More frequent delivery of business value
- Implement governance on high priority items first, show success, move on...continuous improvement



CONTINUOUS IMPROVEMENT

- Use retrospectives to make your process better
- It's ok to add just 1 or 2 new things at a time
- Get help if you need it, lots of resources and experts are out there
- Mentoring and coaching will be critical



LESSONS LEARNED

- There isn't one definition of Agile; all companies tend to do it differently. That's ok. Make it what
 works best for your organization.
- If you are setting up governance for the first time, get the Data Governance Framework in place first.
 Then determine low hanging fruit, such as data quality issues, and implement governance starting there.
- Data Governance MUST involve the business; it can't just be an IT focus.
- A lot of training and education is needed for governance.
- Data Governance must be added to existing processes and procedures in order to give it teeth.
 - Look at existing areas such as SDLC / Project Process, Architecture reviews, etc.



GOOD RESOURCES FOR AGILE AND TEAM BUILDING

- Mike Cohn MountainGoatSoftware.com
- PMI-ACP Exam Prep Mike Griffiths
- Johanna Rothman books: http://www.jrothman.com/books/
- The Human Side of Agile, Gil Broza
- Agile Retrospectives: Making Good Teams Great, Esther Derby and Diana Larsen
- Crucial Conversations, Kerry Patterson
- Crucial Confrontations, Kerry Patterson
- Influencer
- The Deadline: A Novel about Project Management, Tom DeMarco
- Teamwork is an Individual Skill, Christopher Avery
- Behind Closed Doors: Secrets of Great Management, Johanna Rothman and Esther Derby



EXPERIENCE

Temperature Reading

- Appreciations
- Puzzles
- Complaints with Recommendations
- Hopes and Wishes
- New Information



THANK YOU!

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AGILE DATA GOVERNANCE



