



Which statement best approximates the state of your institution's data governance?







CHAT

Which division/unit is responsible for data governance at your institution?





LEARNING OUTCOME

After participating...

you will be able to build more inclusive data governance processes at your institution.

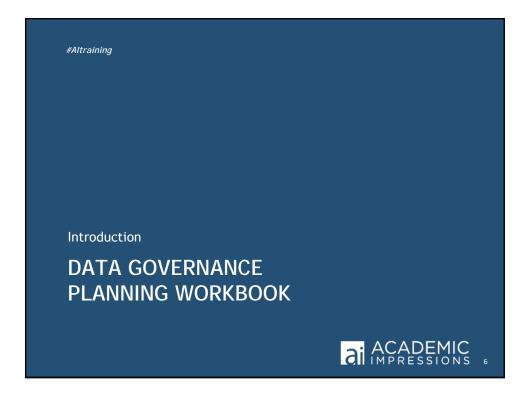




AGENDA

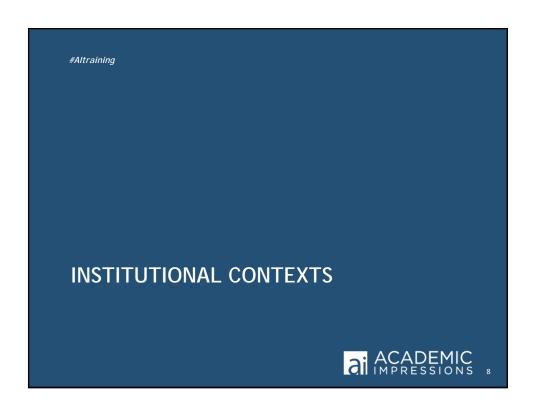
- Institutional Contexts
- Establishing a Data Governance Foothold at Your Institution
- Sustaining Data Governance Efforts
- · Demonstrated Successes and "Quick Wins"



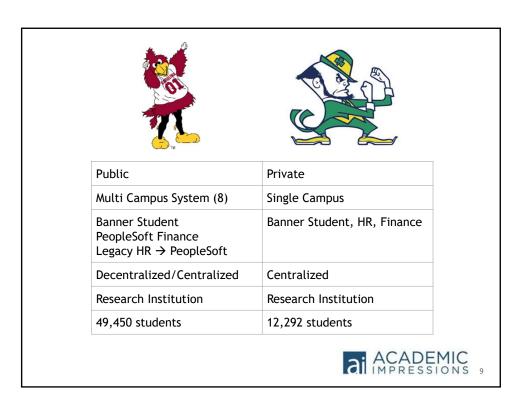








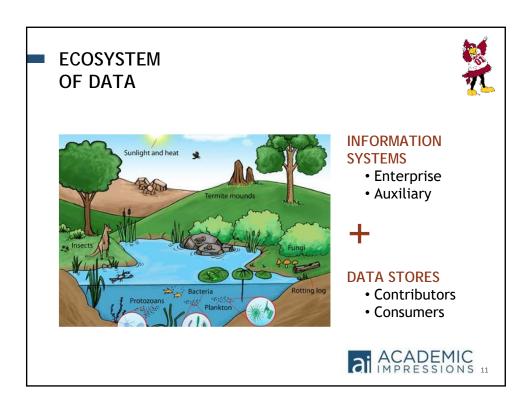


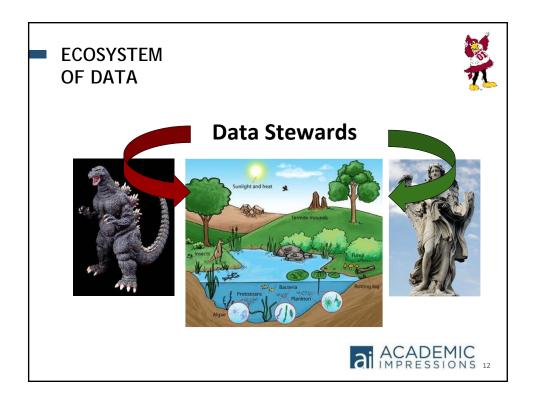


ESTABLISHING A DATA GOVERNANCE FOOTHOLD AT YOUR INSTITUTION

ACADEMIC IMPRESSIONS 10









REALITIES OF INFORMATION SYSTEMS



- One system doesn't 'do it all'
- · Share data elements
- Data exchanges require records/identity matching
- Must confront reality that institutional data is both an "asset" and a "liability"



SHARED DATA ELEMENTS



ANY EXCHANGE OF DATA ELEMENTS BETWEEN INFORMATION SYSTEMS DEMANDS...

- Planning / coordination / change control
- Agreement on nomenclature & meaning
- Identity management
- · Data sharing agreements that address -
 - Privacy
 - Security
 - Integration logistics





STRATEGIC VS. TACTICAL INITIATIVES



Is there a difference?



- · Both may require enterprise & auxiliary data
- · Both are concerned with data quality

but . . .

- Strategic initiatives should <u>drive</u> data governance
- Tactical initiatives should <u>benefit from</u> data governance



STRATEGIC INITIATIVES . . .



SHOULD <u>DRIVE</u> DATA GOVERNANCE BY ASKING

- What data is required to inform decision making?
- Do we collect the right data already?
- · Do we organize & structure it for use?
- Is it readily understood?
- What do we need to change or improve?
- What strategic goals can we track with data?





TACTICAL INITIATIVES . . .



SHOULD BENEFIT FROM DATA GOVERNANCE

- Because DG processes streamline
 - Knowing what's already available
 - Knowing who to go to
 - Knowing what to ask for
 - Making sense of the data/information you access



KNOWING THE DIFFERENCE



Strategic Initiatives

ENROLLMENT REPORTING:

How many students do we enroll/need to enroll?

- Headcount vs. FTE
- Which campus claims them?
- How are they distributed by level?
- Are we ahead of last year?

Tactical Initiatives

GRANT PROPOSAL:

Need specific institutional info on transfer students

- What are our main transfer feeder schools?
- How many transfers in STEM majors?
- How many transfers are 'new majority'?





QUESTIONS ARE TEACHERS



RESPONDING TO QUESTIONS WILL TEACH YOU

- · What you don't know
- · What you don't agree on
- What you never thought about collecting
- · What you never imagined being asked
- · To interrogate the requester



EVOLUTION OF DATA STEWARDSHIP





RECOGNIZING REALITY

- · Operations generate data
- Somebody needs to be responsible

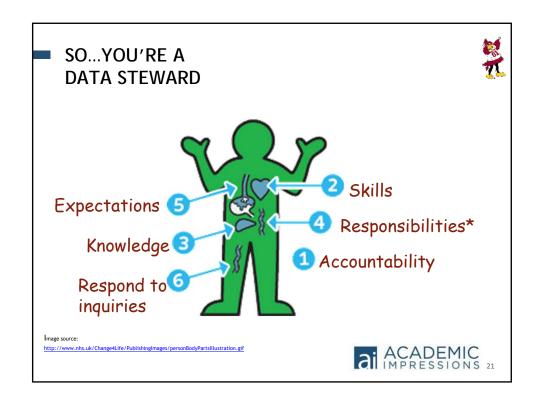
IDENTIFYING & DESIGNATING

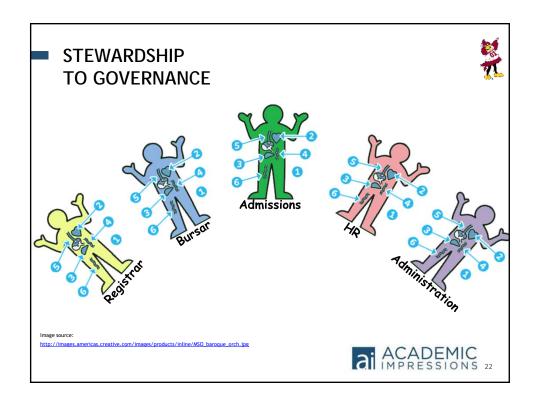
• Do you manage a functional area?

COMMUNICATING WIDELY











ESTABLISHING A FOOTHOLD



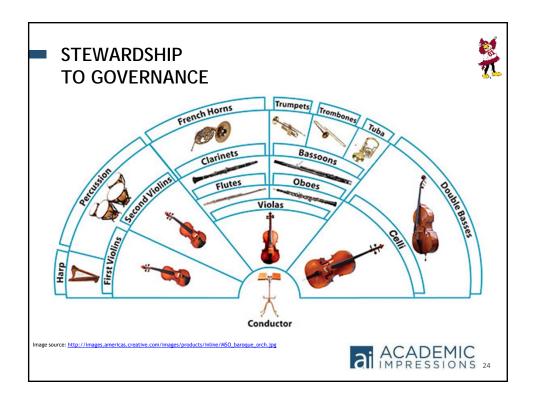
MOTIVATION TO GET GOING

✓ Strategic need or lack of capability or anticipated change

FIRST STEPS

- 1. Build on what you already have data stewards.
- 2. Go for a quick win.
- 3. Identify who is knowledgeable and responsible.
- 4. Clarify their responsibilities and decision rights.
- 5. Articulate how to work together and communicate.







MATURING INTO DATA GOVERNANCE



FRAGMENTED ACTIVITIES → FORMAL & AGREED UPON:

- Objectives
- Policies + Procedures + Standards + Guidelines
- Business processes
- · Data definitions
- · Identification of resource needs
- · Commitments of resources
- · Arrangement or framework



MATURING INTO DATA GOVERNANCE



CULTURAL TRANSFORMATION

- Embracing & promoting tighter coordination
- IR becomes driver for
 - data quality & integrity
 - data standards
- IR/Analytics, privacy, security become drivers for
 - identity management
 - access & permissions







TAKEAWAYS



- · Transition takes time
- · Need leadership & coordination
- Acknowledge complicated relationships
- Share knowledge
- Communicate
- Need for trust is profound
- · Need for management tools



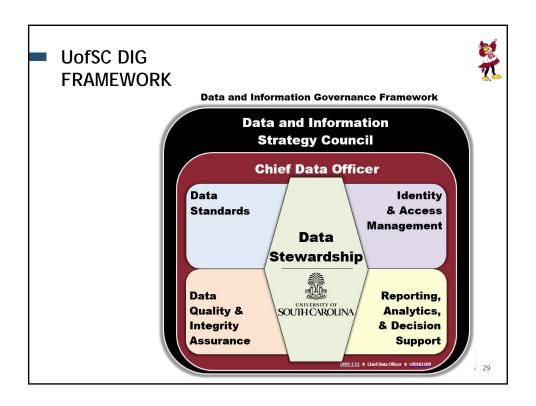




- Recognize concept Data Steward early 2000s
- Designation in Policy & specifying responsibilities - 2008
- SME leads for ERP transitions 2008-present
- Loose federation 2008-present
- CDO created 2013
- Working Group on Data & Information Governance Policy and Framework - 2014-2015
- Data & Information Strategy Council + Data Stewardship Council - 2016 ff

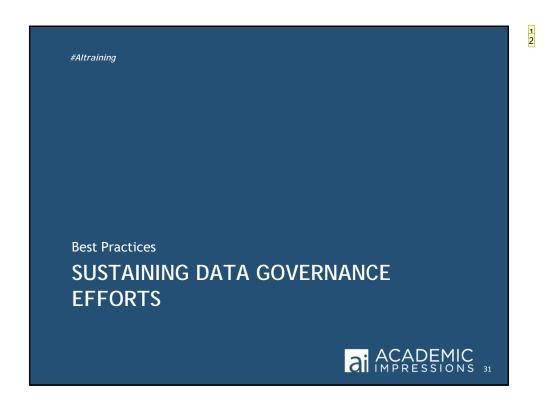


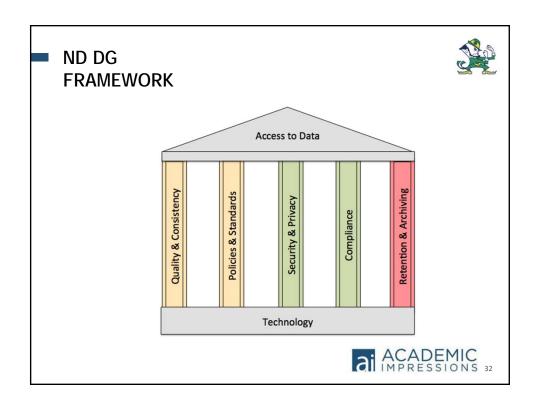














Slide 31

- 1 Is this where we would put tools? Should this be a follow up presentation. This is already pretty long. Christopher Frederick, 10/28/2016
- If it is tools, then likely you'd want a data cookbook school in here Christopher Frederick, 10/28/2016

ND TIMELINE



- Recognize concept Data Steward for ERP transitions early 2000s
- Highly Sensitive Data Handling Policy around 2005
- Banner ERP go-live 2005
- First Attempt at Enterprise Data Warehouse Failed 2012
- Executive Sponsorship for Data Governance granted 2012
- Campus Data Steward Appointed 2013
- · Begain work on core data definitions 2013
- Second Attempt at Enterprise Data Warehouse successful starting 2013
- Data Governance foothold firmly established 2014
- Data Governance now involved in CRM go-live, system integrations 2015
- Broad Data Access, Handling, and Information Sharing Policy - Early 2016



ESTABLISHING A FOOTHOLD



START WITH EXECUTIVE SPONSORSHIP

✓ Data governance requires institutional fortitude. You will need executive sponsorship to overcome departmental skirmishes and help usher change.

FIRST STEPS

- Identify critical data pain points caused by the lack of agreement between offices on core data definitions.
- 2. Use real examples for the appointment of a Campus Data Steward.

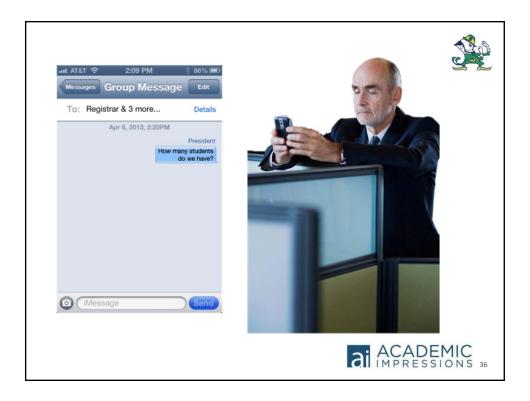






One day our president was wondering...













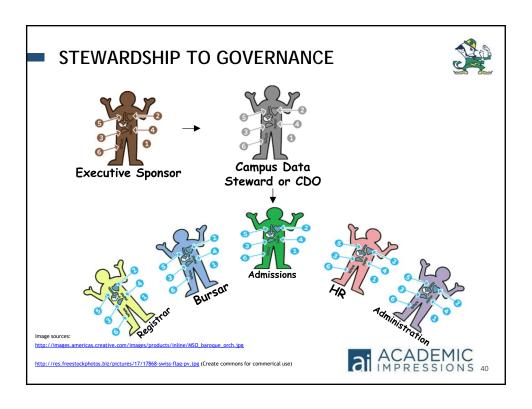
CHANGING CULTURE



HIRE A CAMPUS DATA STEWARD WITH CLOUT

✓ Find a trusted leader that can help mediate differences between stakeholders.







ESTABLISHING A FOOTHOLD



IDENTIFY AND INVOLVE STAKEHOLDERS

✓ Use a RACI matrix to minimize meeting fatigue

FIRST STEPS

- 1. Identify definitive list of stakeholders for every subject area.
- 2. Carve out a reasonable set of related data definitions that will be used to solve a real problem.
- 3. Poll all stakeholders to determine their desired level of involvement.



ESTABLISHING DATA DEFINITIONS

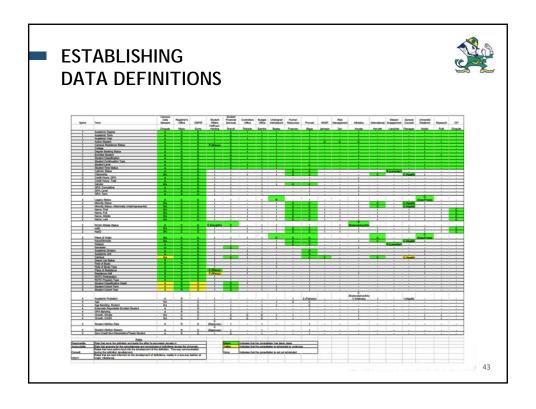


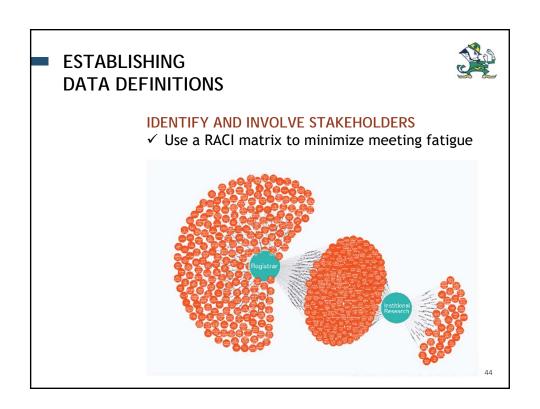
IDENTIFY AND INVOLVE STAKEHOLDERS

✓ Use a RACI matrix to minimize meeting fatigue

Sprint	Term	Campus Data Steward	Registrar's Office	OSPIR	Student Affairs	St Fin Se
		Chapple	Micou	Gunty	Hoffman- Harding	В
1	Academic Degree	A	R	С	1	
1	Academic Term	A	R	С	1	
1	Academic Year	A	R	С	1	
1	Active Student	A	R	С	- 1	
1	Campus Residence Status	A	С	С	R (Shoup)	
1	College	A	С	С	1	
1	Degree Seeking Status	A	R	С	1	
1	Enrolled Student	A	R	С	1	
1	Student Classification	A	R	С	1	
1	Student Continuation Type	A	R	С	1	
1	Student Level	A	R	С	- 1	
1	Student Time Status	A	R	С	1	
2	Catholic Status	A	С	С	- 1	
2	Citizenship	RA	С	С	1	
2	Credit Hours, GPA	A	R	С	1	
2	Credit Hours, Total	A	R	С	1	
2	Gender	RA	С	С	I	
2	GPA, Cumulative	A	R	С	1	
2	GPA, Level	A	R	С	I.	
2	GPA, Term	A	R	С	1	









ESTABLISHING A FOOTHOLD



PUT SOURCE SYSTEM JARGON IN ITS PLACE

✓ Use simple language that can be easily understood by those without in-depth knowledge of your ERP.

FIRST STEPS

- 1. Don't define data definitions using source system terms.
- 2. Avoid language such as, "A person is anyone found in SPAIDEN".
- 3. Keep source system jargon in its place technical metadata.



ESTABLISHING DATA DEFINITIONS

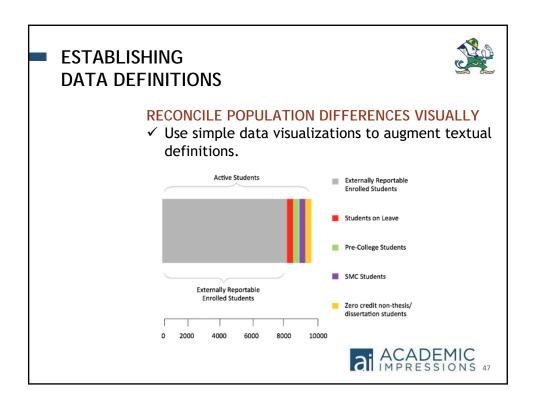


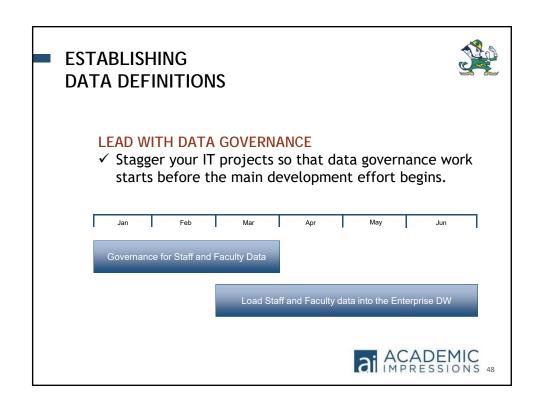
RECONCILE POPULATION DIFFERENCES VISUALLY

✓ Use simple data visualizations to augment textual definitions.











CHANGING CULTURE



CREATE SIMPLE GUIDING PRINCIPLES TO GOVERN SENSTIVE TOPICS LIKE SECURITY & ACCESS...

Drama ≠ Damage



CHANGING CULTURE



WHEN THINKING ABOUT DATA ACCESS...

- Don't ask: "Do you have a business need to access this data?"
- That an internal user does not have specific business need for access to information should not be the governing question.
- ✓ Do ask: "What harm could come from accessing this data?"
- Should any internal user access this information, would that
 access be expected to have a serious adverse effect on the
 operations, assets or reputation of the University or
 compromise the University's obligations concerning
 information privacy?

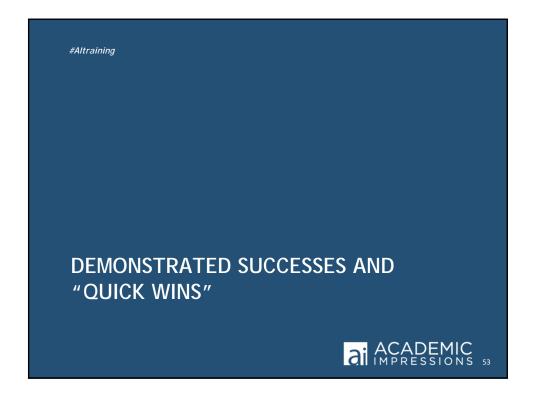
















DATA DICTIONARY

· Shared knowledge & understanding

ENHANCED ENROLLMENT REPORTING CLARIFIES

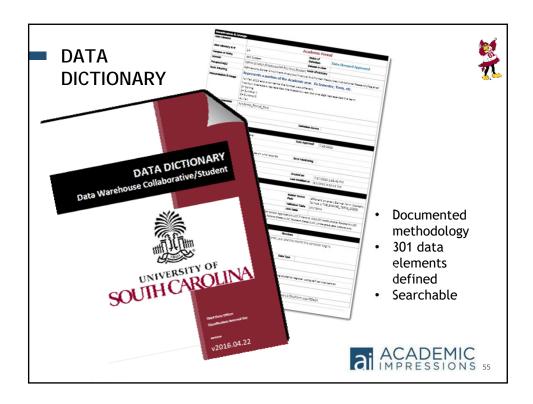
- · What an enrolled student is &
- · How many we have
- · Headcount and FTE

WHICH CAMPUS THEY BELONG TO

- Consequences for revenue
- Campus-claiming business rules
- · Different rules for HC vs. FTE













"dataND allows us to spend less time on finding and extracting data and more time on analyzing and understanding its implications."

--John Affleck-Graves, Executive Vice President



- University approved source of data for campus
- Find everything from one search bar
- Provide consistent answers to common questions
- Make data definitions available (851 terms)





EXPANDING ON SUCCESS





- · Address additional info needs
- Details we need to know about enrolled students
 - Bio/dem attributes
 - Tracking success: retention & graduation
- Timely info... ie. analytics & BI
- Support decisions: how many students we will need



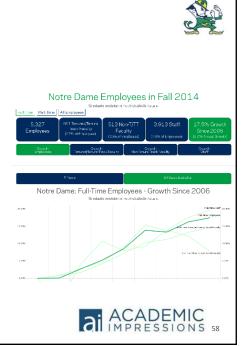
SUCCESS: A STRATEGIC NEED

IMPROVED EMPLOYEE ANALYTICS

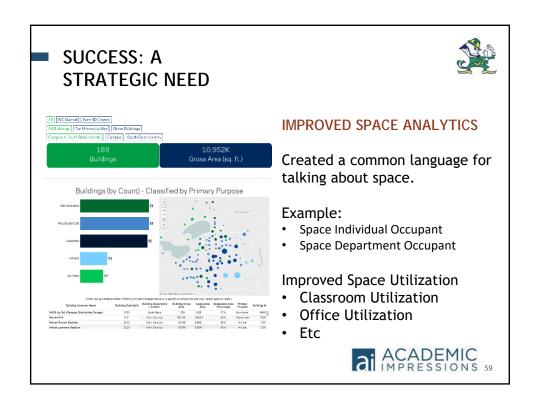
Created a common language for talking about staff and faculty.

Example:

- Staff Growth
- Faculty Growth
- Talent Review
- · Turnover Analysis
- Diversity

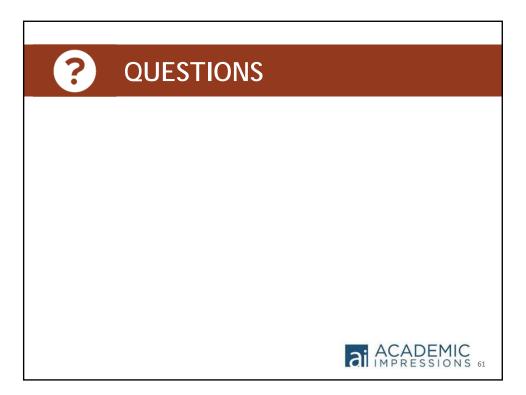














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