

"Defining institutional research: Strategies for bringing data to the decision-making process"

Anaheim, CA

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Thank you AIR Members



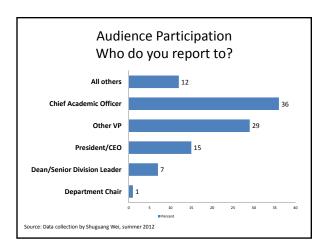


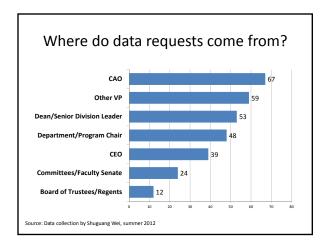
Passionate about Higher Education

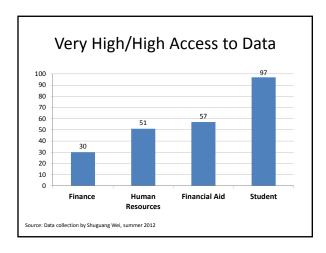
Education changed my life.

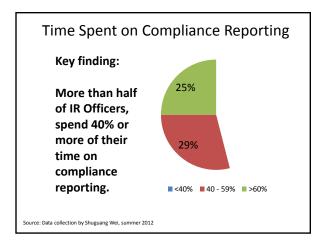
Part 1: Current State of IR

Survey designed by Shuguang Wei
AIR visiting scholar from China
Pilot tested with selected AIR members
Surveyed a random sample of AIR members
~1,000 members with 57% response rate
Results will inform a doctoral dissertation









Part 2: IR and Decision-Making

To what extent do IR Officers
directly participate in the

decision-making process?

IR Credibility & Participation in decision-making

82%

Participation in decision making (beyond just reporting the data) has a strong positive (38%) or positive (44%) impact on IR Credibility

Source: Data collection by Shuguang Wei, summer 2012

Three Decision-Making Roles

- Identify and clarify problems
- Direct involvement in implementation
- Evaluate implemented solutions

How often do you identify and clarify problems?

Very Frequently or Frequently

- ~100% through data requests
- ~100% through data analysis
- ~95% through discussion with decision-makers

Source: Data collection by Shuguang Wei, summer 2012

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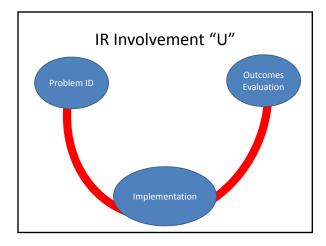
How often are you directly involved in implementation processes?

mplementation processes.				
V	ery Frequently			
Express an opinion about an implementation decision	56%			
Assist with choices between alternative solutions	48%			
Assist with design of implementation strategies	42%			
Promote a chosen solution to stakeholders	34%			
Chair a task force/committee charged with implementation	25%			
Source: Data collection by Shuguang Wei, summer 2012				

How frequently are you involved in implemented decisions?

Analyze Outcomes Data	73%
Provide Benchmarks	72%
Formative Evaluations	70%
Summative Evaluation	67%

Source: Data collection by Shuguang Wei, summer 2012



Part 3: What's the Future of IR?

Change Managers - Choice Architects

- Inform
- Frame Issues
- Provide Context
- Establish frameworks for assessment
- Direct engagement in implementation

Disruptive Innovation (DI) Is not just "Change"

- Disruptive innovators target their service or product at the needs of a new group of customers.
 - Simpler, more affordable product than currently available
 New customers have a different need/purpose

 - Serve a market that was "not worth it" to traditional providers
- Uses enabling technologies
 - Simplifies and routinizes delivery
- · Leads to a new business model (over time)
 - New model of organizing
 - Lower costs and price to consumers
 - "Beat" incumbents who must serve traditional consumers in old business models.

Mark E. Raynor and Clayton M. Christensen, The Innovator's Solution, Harvard Business School Press, 2003.

Disruptive Innovation (DI)

- Early computers were very expensive and used by experts for complicated business/scientific
- Disruptions lead to minicomputers, desktops, laptops, palm-sized devices
- Cheaper
- New users
- New uses
- Simpler

-			

Mainframe computers still exist.

They remain complex, expensive, and serve niche markets.



Mainframe market is larger now then Mainframe market is a tiny portion of the overall computing market.

What are potential Disruptive Innovations in the field of IR?

New Customers

State K-20-WData Systems
Federal Student Unit Record System
Every Employee and Data Analyst
Part-time students
Transfer students



HEY! YOU'RE HAVING A BABY!

Disruptive Innovations Was Target wrong in using analytics to identify pregnant women from changes in their buying behavior? [364 votes total] Yes, Target was wrong - companies should not try to infer sensitive personal data such as pregnancy (61) No, Target had a right to use consumer shopping information, and was doing it effectively (270) Not sure (33) http://www.kdnuggets.com/polls/2012/was-target-wrong-using-analytics-identify-pregnancy.html

What are potential Disruptive Innovations to the field of IR?

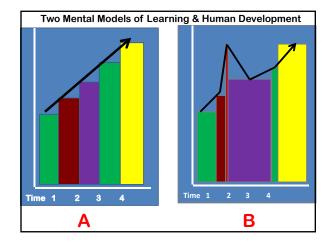
Enabling Technologies

Dashboards
Automated Analytics
Mobile Data Applications
Sensor-based Data Collection
Outsourced Solutions

What are potential Disruptive Innovations to the field of IR?

New Business Models

Lead Campus Model
Student Unit Records
Interpreters Rather than Analyzers
New Models of Teaching and Learning



Student-Based View of Higher Education

- Sample surveys High School and Beyond
- Track Transfer Students (not first-time)
- Track Part-Time Students
- Increase tracking of the For-Profit Sector

My Mother Doesn't Understand What I Do for a Living!

Post-Traditional Institutional Research

Challenge assumptions of

- "uniqueness"
- "local culture"
- "neutral stance"
- reporting lines
- data ownership
- IT and IR relationship
- resource allocations to IR
- Institution-based view of Higher Education

Post-Traditional IR

- Service to "non-consumers"
- Grow the market of data consumers
- Support "jobs to be done" more than job-holders
- Technology assisted data-to-information
 - Decrease manual labor increase technology routines
 - Reduce expertise needed
- Provide new services
 - Matching students with services
 - Targeting services to individual students
- New Business Model for IR
 - Decentralized
 - New partnerships with IT
 - New state- and national- level models

See you in Long Beach!



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