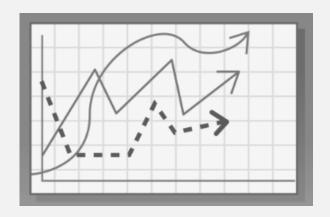


Data Dashboard Design & Build on a Budget

Veronica Smith, Principal AEA Coffee Break Webinar February 23, 2012

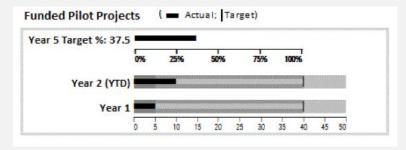
Data Dashboard Definition

Visual display of the most important information needed to achieve one or more objectives consolidated on a single screen (or page) so it can be monitored and understood at a glance.



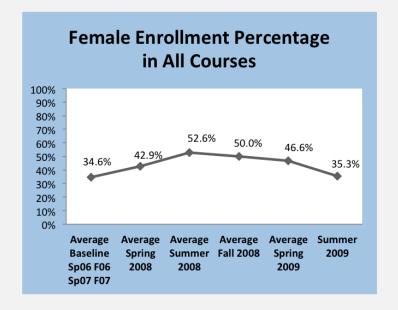
Common Visualizations

Bar graphs

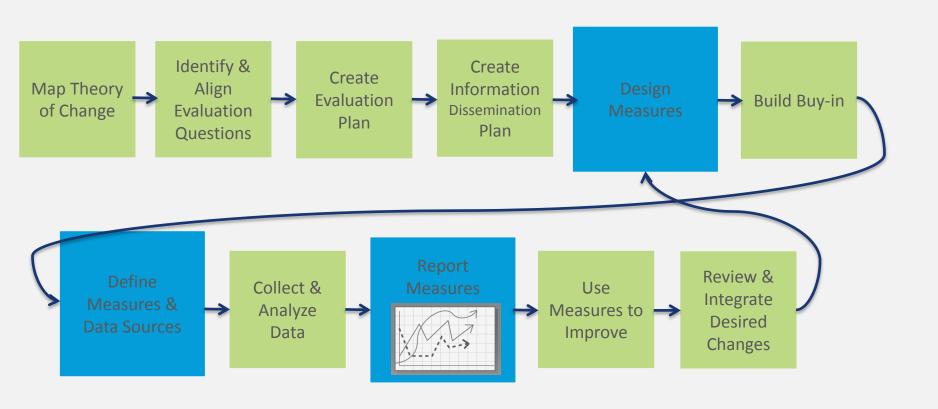




Line graphs



Evaluation & Monitoring Process



Design Measures

measure design

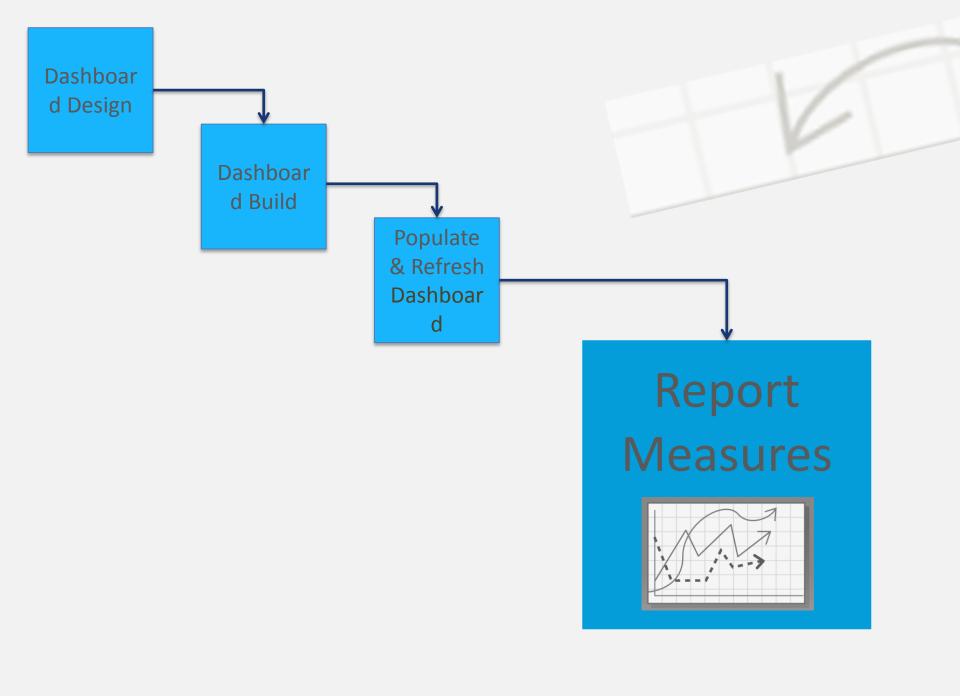
begin with the end in mind	Increase DADS clients' parenting skills and child development knowledge							
be sensory	Client is using the skills taught in the parenting course							
specific	Children, mentors, spouses and partners observe client usin	g parentii	ng skills					
	Client demonstrate higher level of child development knowledge on pre-test post-test taken at parenting course							
	Client demonstrates sustained level of child development kn months and a year after taking the parenting course	owledge	at 6					
	Client creates and implements parenting plan							
find	potential measures	Strength	Feasible					
potential measures	Change in child development knowledge test performance after completion of parenting skills course	Н	Н					
	Reports of client using key parenting skills at 3, 6 and 12 months after attending course	Н	L?					
	Child development knowledge test at 6 and 12 months after attending course	Н	М					
	Parenting skills client survey at 6 and 12 months after attending course	М	М					
	5. Parenting plan completion record	М	Н					
	6. Parenting plan implementation review at 6 and 12 months	Н	М					
	7.							
check the	If clients feel like they are being judged, they may avoid com	ing to DA	DS to					
bigger picture	avoid taking the follow up test and survey. We will want to emphasize that this information is being gathered to help clients AND DADS to learn and grow.							
	We will need to look into how we can get observations from children, spouses.							

Define Measures & Data Sources

measure definition

	name	Fa	Family Participation Rate				
	description	le	Percentage of program participants in learning intervention programs who had at least one family member participating in Family Literacy Nights, Motheread Activities and Home Literacy Programs To measure engagement by our students' families. This is a family/community Engagement measure.				
	intent						
	calculation	prog		-	students whose family member participated in given literacy amming event / # of students in program(s) served by		
		frequency: monthly					
	scope:	event relates to Family Literacy Programs			ly Literacy Nights, Moth	ated in literacy programming neread Activities and Home relates to program enrolment	
1 – 1		data itawa wa w		do o originations			
		Num_family _participate		Number of PS participatns who had family member participate in literacy programs	Manual query from event(s) participant sign up sheet/survey		
		nts_serv	Number of students served by given event(s)	Manual query from program enrolment data			

presentation	comparison type:	Trend over time			
	presentation method:	Dashboard			
	frequency:	Quarterly			
response	Establish acceptable range of Parent/Guardian Attendance Rate If performance falls below acceptable range, identify causes and initiate an improvement project				
owner(s)	performance o	wner(s)			
notes	For aggregation per time period calculate the total number of students serve across all programs and the total number of students who had a family mem attending all those programs to get percentage rate. (Don't average participarate across programs).				

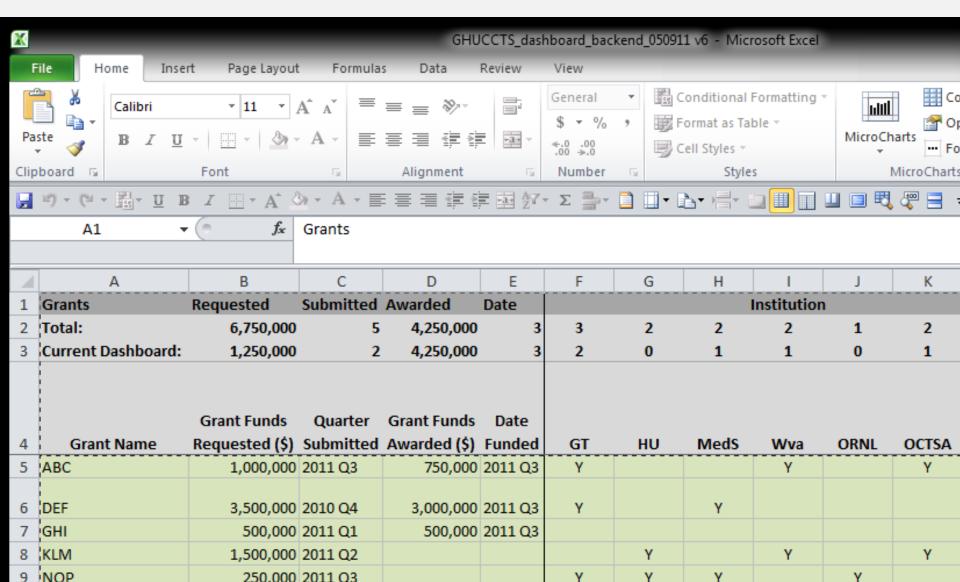


Design GRAMS Grant 2 ET HU Meds ANCE DASHBORRO (data as of Maran) METRICS CYEAR I) al Grants Gusmitted Manufa Hal Grants Funded 8 10 12 Manuscrybs Gulsmitted 6 presentations Patente Pendina

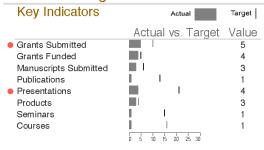
Build

Courses				Career Stage	
		Quarter			
Name	Inc?	Delivered		# Investigator # Trainee	
Total:	1		1	3	
Current Dashboard:	1		1	3	
The Best Workshop Eve	Υ	2010 Fall		3	

Populate & Refresh



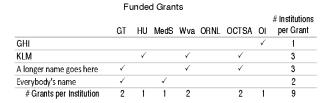
GHUCCTS Organization & Governance Indicators for 2011 Q3



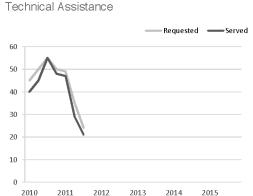
Education & Training



Millions



Grant Collaboration





		Degree I	⊃rograms	Actual	⊤arget
Students Enrolled		Value	Students Completed		Value
Investigator		12	Investigator		11
Trainee		10	Trainee		9
Scholar		8	Scholar		7
Other	II 1	2	Other		1
	0 10 20 30 40			0 10 20 30 40	
		Certificate	Programs		
Students Enrolled		Value	Students Completed		Value
Investigator		4	Investigator		4

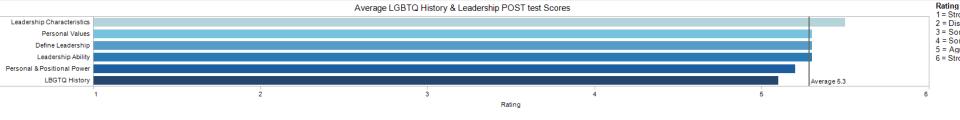
Certificate Programs							
Students Enrolled		Value	Students Completed		Value		
Investigator		4	Investigator		4		
Trainee	I	4	Trainee		4		
Scholar		1	Scholar		1		
Other	1.1	1	Other		1		
	0 10 20 30 40			0 10 20 30 40			

Outreach

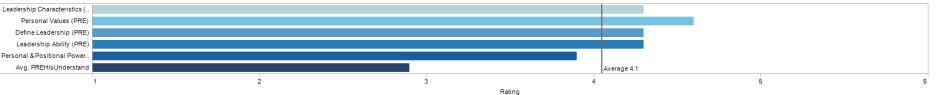
Website Traffic

		HITS
Home Page	History Since Y1 Q1	to Date
GHUCCTS		425
BI		231
CER		246
PCIR		223
PCSP		142
REKS		84
RETCD		134
NTM		265
TTR		282
TE		89
CRU		123
SEPCOM		83

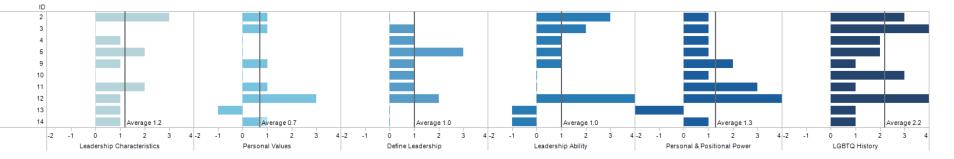
Notes/Comments:





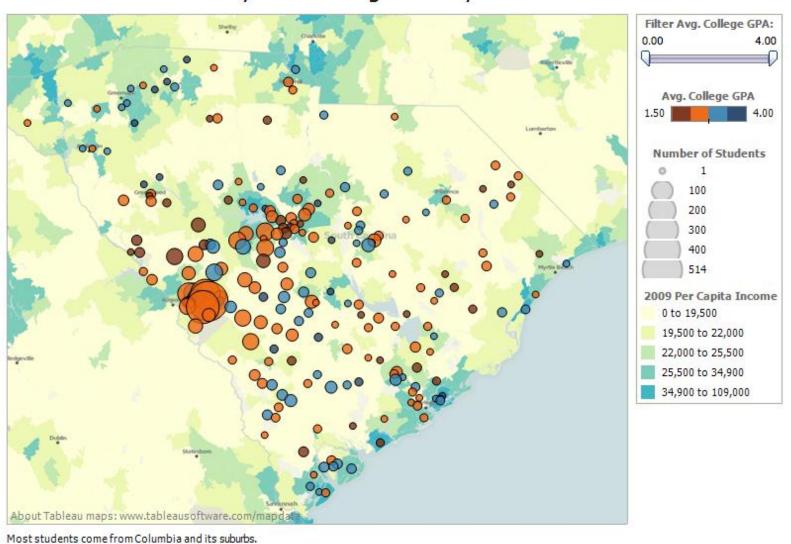


Pre-post Change in LGBTQ History & Leadership Skill and Knowledge



Exploring Student Data

Analysis of College GPA by Hometown



Dashboard Review

- Can you evaluate what is going on?
- Is it easy to spot the areas that need attention?
- Does it provide context?
- Does the organization of the data make sense?
- How does the dashboard support better monitoring and decision making?

1: Dashboards cost money



Design-build-populate cost range: \$5-\$50K

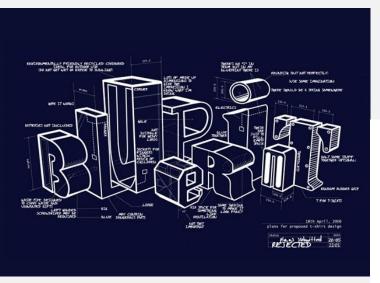
Example 1

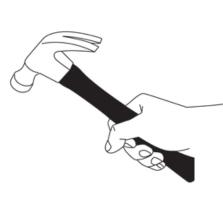
Excel/tableau dashboard design-build-populate + refresh protocol + half-day training = \$8-\$10K (includes 10 hrs measure design & definition consult)

Example 2

Dashboard design-build + database backend = \$30-\$50K (consider IBM Cognos)

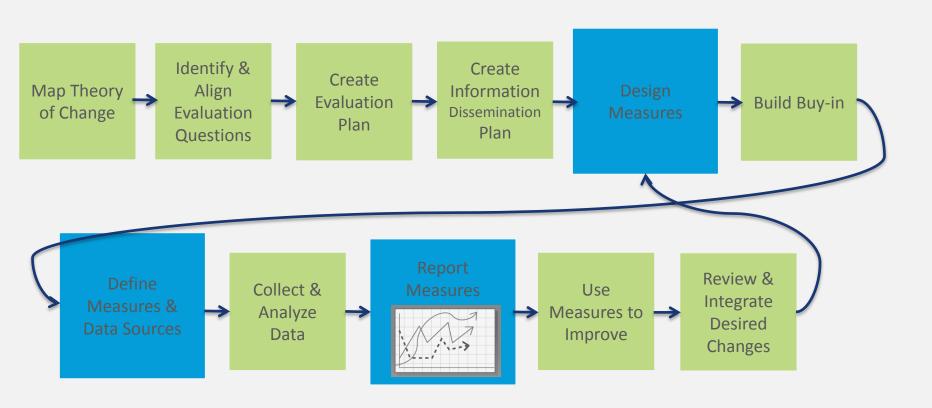
2: Dashboards require design, build & populate phases







3: Dashboards are part of a multiplephase continuous improvement process



4: Dashboards can be a valuable tool in your evaluation & monitoring kit



Thank you

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data2insight

<u>LinkedIn</u>

data2insight on twitter

Valuable Links

- perceptual edge
- excel user
- chandoo.org
- complex diagrams
- tableau software gallery
- Bonavista Systems
- Freakalytics
- IBM cognos
- stacey barr, performance measure specialist