From Information to Impact

Unlocking the Power of Data Through Effective Visualization, Reporting, and Communication

Matt Plaska and Patrick Needham 2016 CQI Conference October 18, 2016

Objectives

- Learn key practices for effective data visualization
- Learn techniques for compiling and creating reports
- Become familiar with available resources for data visualization techniques
- Share ideas for facilitating discussions that use data

- Mercy Home for Boys and Girls
 - Residential
 - AfterCare
 - Mentoring
 - Supportive Housing

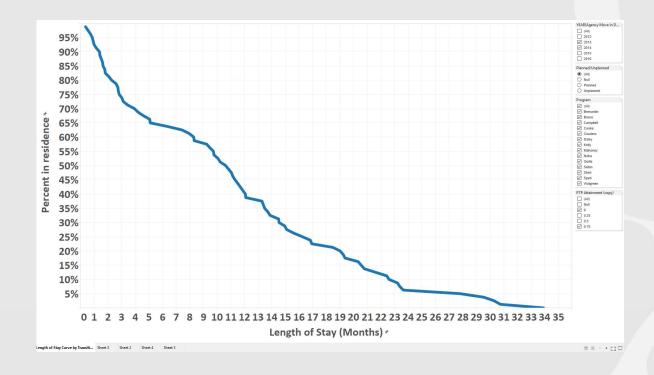
- Old
 - Spreadsheets and Tables

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Bosco							
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- New
 - More visuals and designed handouts



- Future?
 - Tableau
 - R



Gather

• Identify where your data comes from, where it's stored, and what format it's in

Prepare

• Visualize data, develop reports

Share

• Engage with stakeholders data, revise reports, facilitate exploration and use in decision-making

Gather

- What information do I have?
 - What is the quality of data entry?
 - How did we decide what data to collect?
 - Is data collected based on some sort of framework?
 - What's the (big) question?

		Youth Short-Term Outcomes (During Length of Stoy)	Yauth Intersedicts Outcomes (At Discharge)	Youth Long-Term Outcomes (2 years post-program)	Indicated by	Tools	
	Attachment	Youth depart to routine Youth feels safe Youth an identify appoint intervals. Youth an describe a healthy relationship	Youth has personal rootine. Youth engages apport networks. Youth demonstrates elements of healthy relationships. Youth demonstrates healthy passed on a rootine consideration with one or make consideration with one or make	Youth coatricins healthy relationships with - Barnetti partner - Paers - Authority figures - Community groups	* Adverbodh (militina) (YES/CSC). Adverbes Competence Socies, Social Competence Socies, Social Publishes Sydners Socies, ASS/ASCI. Priseds Socies, Social Spokes/Farther Socies, Fomily Social	• Arberboth	
Socio-Emotional Wellness	Touth on skettly entries in self. Touth on skettly entries is size. Touth on skettly entries in size. Touth of skettly have body, self-on skettly size. Touth on skettly size is size. Touth on skettly size is size. Touth on skettly size is size. Touth one skettly size is size. Touth one skettly size.		Youth effectively expresses exections to others. Youth recognition triplant of redemand or interned finitions on executional dates. Youth case describe his or her window of talkerson. Youth saids healthy opining and medification exchilection exchilection exchilection.	Youth denoutrone self- registros Youth experience decrease in repropriese of psychological distress	* Advantació results. 1758/CACA. Syndiamo Sozies. 1750/CACA. PTOD Index results. 1750/CACA. PTOD Index results. 1750/CACA. PTOD Index results. 1750/CACA. PTOD Index results. 1750/CACA. Alexandry 1750/CACA. Alexandry 1750/CACA. 17	* Adverball * (DUCA PTIO Index) * (DAGA PTIO Index)	
Se	Compelency	Youth identifies attempts Youth feels customery to make decisions. Youth can identify raidsple establishs to a problem. Youth one occurs impulses and delay reactions. Youth identifies elements of an identity.	Youth oppies shength in life. Youth demonstrates decision- making slids. Youth expresses own silentity. Youth describes self in fidure.	Youth denical area age appropriate developmental aids	* Adverback results 1732/GSQ. Compressors Scales, Feditive Qualities Scales, ASE/ASC. Personal Strengts Scales * (BSST results)	* Admitsods * (Belantur Buttag Swestucy Saecutive Punction)	
	-	Youth engages in troums processing experiences	Youth deconstruites assignance of the experiences	Youth possesses comprehensive understanding of self	- [UCLA PTSD Index results] - [CANS results [troutes section only]]	* (UCLA PTED INSH)	
Success	Educational Success	Youth feels sense of belonging in school Youth engages in school Youth builds accelerate self- efficiery	Youth inproves adical perfurmance. Youth has higher educational expectations.	Youth continues to matriculate secondally	School behavior School artendance Grades Florework completion Adverbant routin (YSE/CSCL Anademic	Behaviar records Afterdance records Report cords and transcript	
Vouch is earn or the special s		Youth loovs requirements to earn indential Youth loovs part second any options and requirements for ettry. Youth loover financial aid options.	Youth applies for past- secondary agetion. Youth applies for floancial and	Youth ears high school and what I all the control of the control post-secondary and earthal	Performance Scole; ASR/ASCL behaviors Scole; CLS results [Work and Shally Life, Coreer and Education Passeng) - WJ IV results Credential or diplasma - Past-secondary enrollment	Advertisch Cossy Life Skills WIJ IV Observation	
	Independent Living	Youth an identity tradependent bring skills. Youth an identity floranced therapy skills. Youth an identity floranced therapy skills.	Youth demonstrates independent living skills Youth demonstrates francial theracy skills Youth engages consustry resources	Youth possesses age oppropriate independent being slatts	CLS results (Permonency, Doby Unity, Self-Core) Sworth results Account bolishore Street's license citistroper	• Cover Life Skills • Swedi	
Self-Sufficiency	Vocational	Youth one identify jub search state. Youth one identify jub and work place state. Youth one identify patential employment	Youth denonstrates job search skills. Youth denonstrates job and work place with Youth obtains employment	Youth is summittely employed	CLS results (Historing and Money Monogenett, Work and Study Life, Clarer and Study Life, Clarer and Studenton Pierreing) Advantum Pierreing) Advantum Pierreing Ad	Covey Life Skills Adverbash CRA Chaeryotion	
	Housing	Youth an describe safe, stable housing Youth understands renting and leasing principles	Youth identifies post- placement housing	Youth his safe, stuble housing	CLS results (Novaing and Management) Mosaing attributed	Cosey Life Skills Chaervorton	

Gather

- What format is it in? Where is it stored?
 - We have data in:
 - SQL
 - Access
 - Excel
 - Web portals
 - Testing software
 - Paper

Gather

- A quick note on terminology
 - Data = pieces of information
 - Evidence = data + analysis

Wulczyn, Alpert, Orlebeke, & Haight (2014)

• What's the (specific) question?

- Who is the audience?
 - Internal/external
 - Front-line staff/executives
 - Departmental/inter-disciplinary
 - Funders
 - Clients

• What chart or visual element should I use?

How we perceive quantitative information visually

Element	Charts this might be found in
1. Position	Scatter plot, dot plot
2. Length	Bar/column, line
3. Slope	Line, slope
4. Area	Pie, stacked line, stacked bar
5. Size	Bubble
6. Angle	Pie
7. Color	
8. Shape	

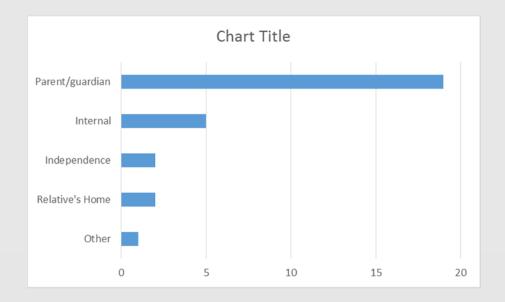
^{**} Color and Shape can be very effective with nominal data Mackinlay & Winslow (2016). Tableau.

- What tools should I use?
 - Excel
 - Word
 - PDF creator/editor
 - Powerpoint
 - Tableau

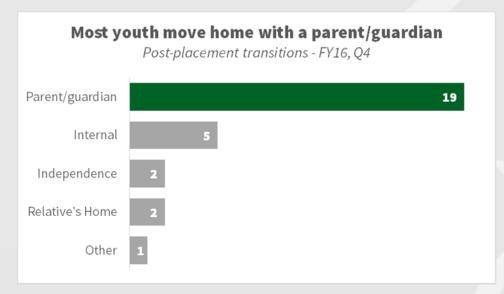
- Chart design principles
 - Excel defaults = bad
 - BUT! You can make great charts in Excel

- Chart components to consider
 - Title
 - Axes
 - Axes titles
 - Gridlines
 - Labels
 - Size/whitespace
 - Colors
 - Font

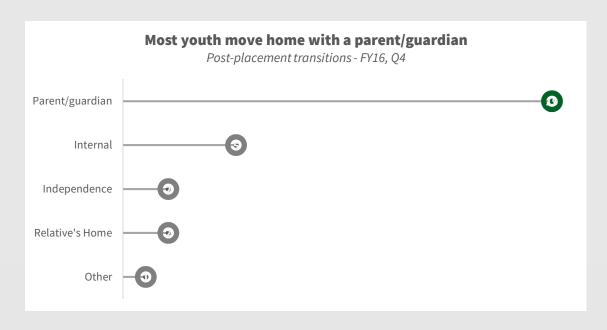
Before



After

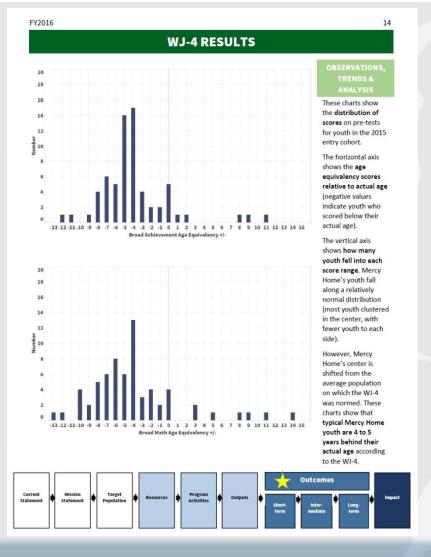


...or as a dot plot



- Create a template and use consistent formatting
 - Color scheme
 - Font
 - Branding
 - White space/clutter
 - Re-usability
 - Printing considerations

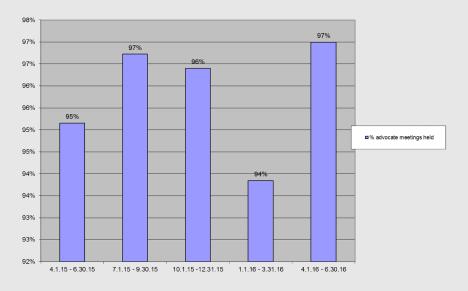
FY2016 10 **YOUTH EMPLOYMENT** This page contains employment data about youth in the 2015 move-in cohort (all youth who moved-in between 1/1/15 – 12/31/15). The purpose of using a move-in cohort is to track a group of youth longitudinally about a topic (in this case employment). As such, this page contains information about length of time until employment and number of jobs held over time. This cohort includes 82 youth. It has not been stratified by age. Time until job attainment 100% 90% 80% 70% 60% 51% 51% 45% 50% 40% 29% 29% 24% 24% 30% 20% 10% 11 Months Any Job Off-campus Job Youth by number of jobs held Youth by number of jobs held Off-campus jobs; 2015 Move-in cohort Any job; 2015 Move-in cohort Target



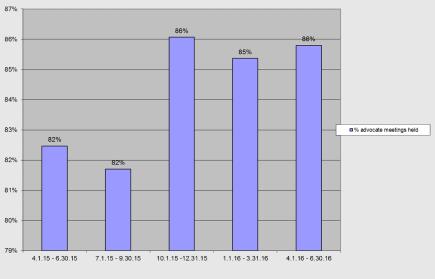
- Technical tips
 - Using Excel and Word to create reports
 - Using a PDF program to manage and create reports at different levels

- What feedback do I have? What are staff asking for?
 - Use staff feedback to refine visualizations over time
 - Be comfortable with an iterative approach
 - Users are experts
 - "Communication is the responsibility of the sender"
- Examples
 - Attendance rates
 - "The data are not meaningful"
 - "The data are inaccurate"

Girl's Campus Advocate Meetings Held

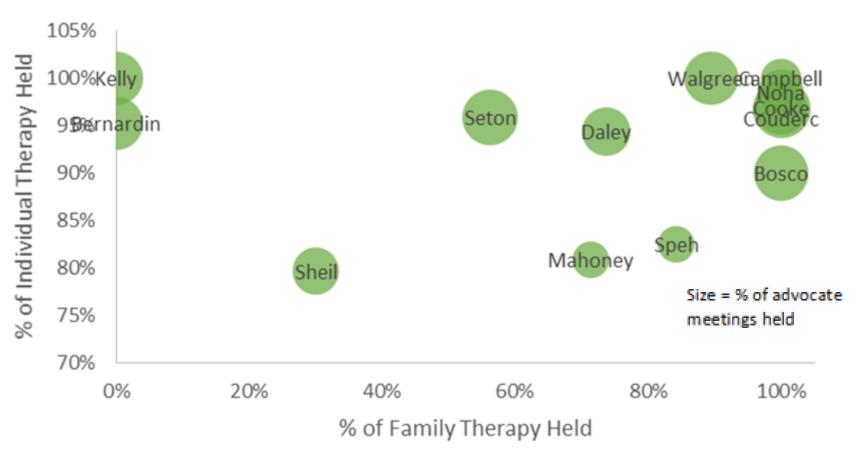


Hay Campus Advocate Meetings Held

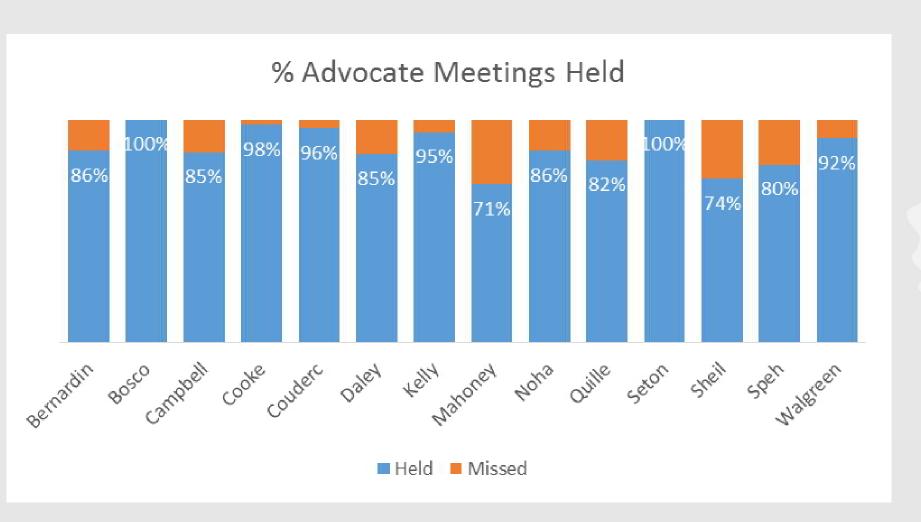


Old Version





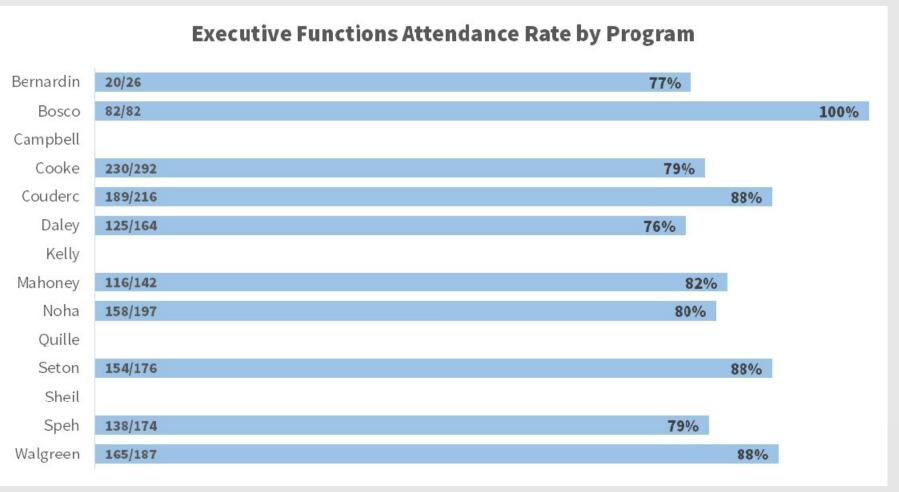
First Try



Second try

Advocate Meetings							
Bernardin	100%	78/78					
Bosco	96%	74/77					
Campbell	94%	73/78					
Cooke	89%	123/138					
Couderc	99%	137/138					
Daley	89%	95/107					
Kelly	92%	93/101					
Mahoney	75%	83/111					
Noha	82%	80/97					
Quille	93%	94/101					
Seton	100%	92/92					
Sheil	69%	78/113					
Speh	85%	95/112					
Walgreen	90%	113/125					

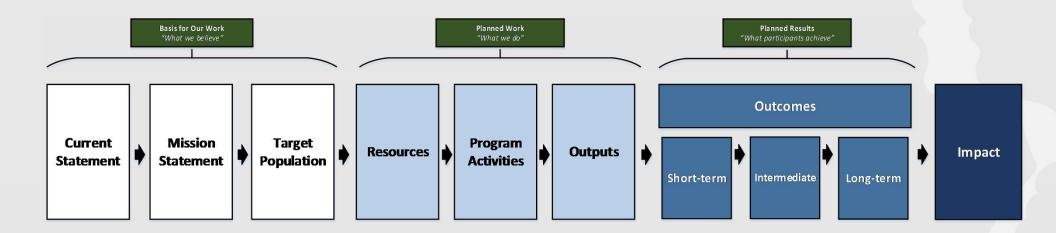
Third try

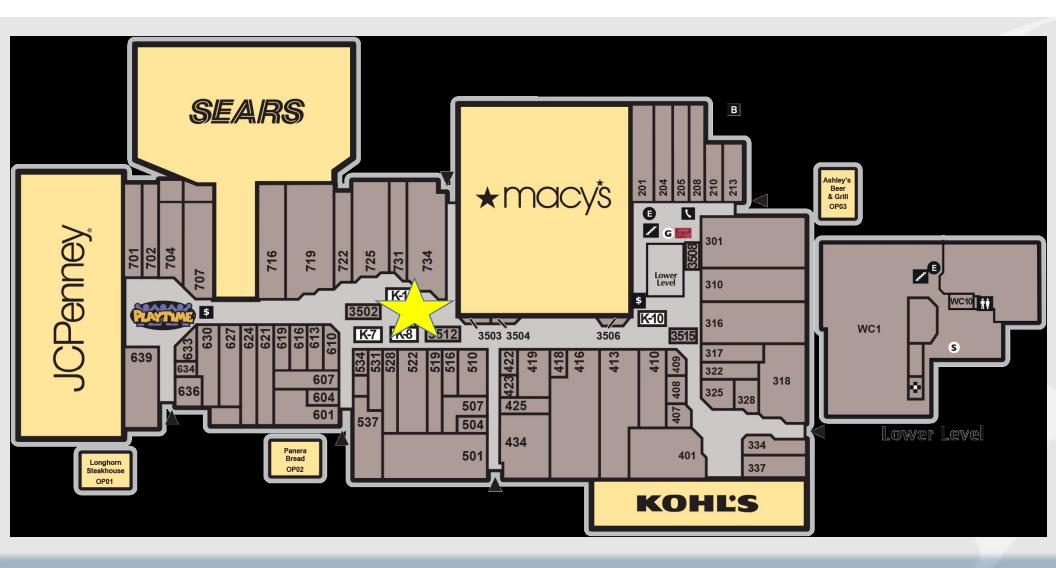


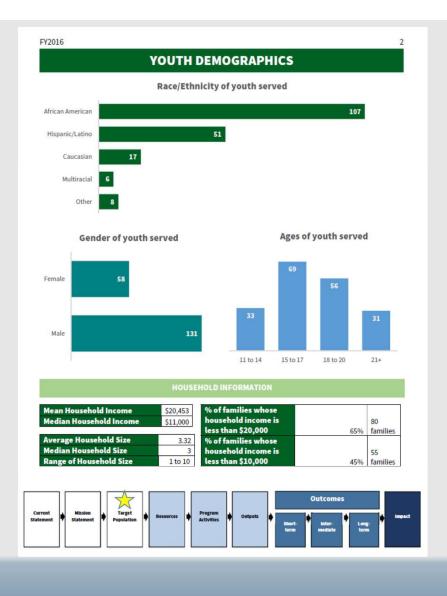
Fourth Try (Current)

• How do we give this meaning? How do we make decisions?

- Logic Model
 - Helps us understand the design of our program and how things fit together







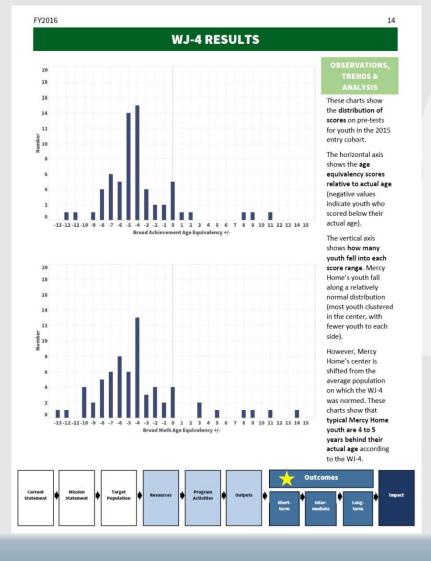
ARC Implementation FY2016, Q1

ARC IMPLEMENTATION (PART 1)

Question	(Scale 0 to 3)	January 2015	October 2015	Trend
Working to engage parents or other	How much do you address this?	2.07	2.19	0.12
caregivers in the treatment process	How comfortable are you addressing this?	2.33	2.43	Ø 0.10
Helping parents or other caregivers	How much do you address this?	1.63	1.85	0.22
manage their own emotions	How comfortable are you addressing this?	2.09	2.17	0.08
Building parent/caregiver	How much do you address this?	1.87	2.06	0.19
understanding of their child's behaviors	How comfortable are you addressing this?	2.26	2.40	O.14
Building parent/caregiver	How much do you address this?	1.53	1.75	0.22
understanding of trauma and its impact	How comfortable are you addressing this?	2.07	2.18	0.11
	How much do you address this?	1.48	1.79	1 0.31
Building in-session routines	How comfortable are you addressing this?	1.93	2.30	₾ 0.37
Incorporating modulation strategies	How much do you address this?	1.33	1.94	1 0.61
into treatment sessions	How comfortable are you addressing this?	1.70	2.26	₫ 0.56
Helping youth identify and understand emotions	How much do you address this?	2.48	2.58	Ø.10
	How comfortable are you addressing this?	2.64	2.73	0.09
Building youth understanding of	How much do you address this?	1.98	2.14	0.16
trauma and its impact	How comfortable are you addressing this?	2.28	2.37	0.09
Supporting youth in sharing internal	How much do you address this?	2.23	2.36	0.13
experience with others	How comfortable are you addressing this?	2.46	2.50	♦ 0.04
Building and problem calcing the	How much do you address this?	2.55	2.61	0.06
Building youth problem solving skills	How comfortable are you addressing this?	2.73	2.77	♦ 0.04
Helping youth build an understanding	How much do you address this?	2.43	2.44	0.01
of self and identity	How comfortable are you addressing this?	2.63	2.64	♦ 0.01
Using standardized assessment to	How much do you address this?	1.49	1.62	0.13
measure baseline functioning and/or gauge treatment progress	How comfortable are you addressing this?	1.94	1.90	-0.04
Overall clinical skills to assess, treat, and achieve positive outcomes for	How much do you address this?	1.80	2.05	0.25
youth who have experienced trauma and their families	How comfortable are you addressing this?	1.94	2.18	0.24



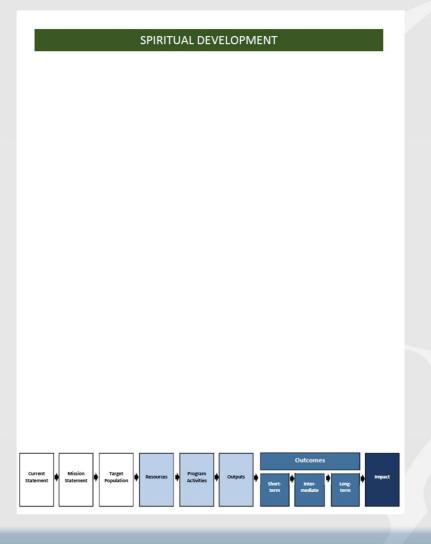




 Involve staff in selecting meaning ful data points and designing reports

Current Statement	Mission Statement	Target Pop.	Resources	Activities	Outputs	Outcomes	Impact
			Physical space (MHBG)	Match outings	# of matches	YMOS	N/A for now
			Outings/tickets/event opp.	Group outings	# of hours that matches meet	Goal accomplishment	
			Diverse group of volunteer	s Site-based sessions	# of outings	Satisfaction surveys	
			Staff	Mentor supervision	gender: mentors and mentees	Match quality	
			Trainings (staff and mentor)	diversity: mentors/mentees		
			Referral sources (partners)	(in and out)	Paperwork/wingspan		
			Activity update		Screening mentors		
			Assessment tools		matching mentors		
			Existing research		Referrals		
			Internal resources (Emily, e	etc)	Intake meeting		
			MSR Toolbook		Match intro		
			Wingspan/Blueprint		Ratifications		
			Caseload		File reviews		
					Ad hoc troubleshooting		
					Length of matches		
					Length on waitlist		
					Length of matching process		
					Recruitment activities		
					Early-ending matches		
					Reasons for early ending match	nes	
					# of people on waitlist		
					# of people turned away		
					Mentor attrition		
					Info session attendance		
					Flowchart data		
					% of matches that re-up		
					Mentor recruitment trends (tin	ne of year)	
					Referral source tracking		
					# of assessment conducted		
					Report writing (timeliness, qua	llity)	
					Weekly phone calls (medium)		
					% of supervisions		

• Blank sheet brainstorm



- "What, if you knew now, would change your behavior?"
- "What information do you need to better do your job for clients?"²

- In other words, what is the core of the program? What do you need to know before you can do anything else?
- 1. Means & Breslin (2016)
- 2. Natenshon (2016)



- Other arenas for data sharing and application
 - Program development
 - Improvement projects
 - Strategic planning
 - Evidence-based decision-making

- evidence types
 - 1. Internal data and evaluation
 - 2. Research and industry knowledge
 - 3. Strong anecdotal evidence
 - 4. Practice wisdom, institutional knowledge

Evidence-based decision making worksheet								
Clearly state the decision needed:								
	Idea A:	Rank []	Idea B:	Rank []	Idea C:	Rank []	Idea D:	Rank []
Evidence Type 1 Internal data and evaluation								
Evidence Type 2 Research and industry best practice								
Evidence Type 3 Strong qualitative or anecdotal evidence								
Evidence Type 4 Practice wisdom, institutional knowledge, and good faith								

What's next

- Dashboards and BI thoughts
 - Tableau
 - Pros: Intuitive, fast, explorative, knowledge base
 - Cons: Cost, implementation, user base, not for formal reporting
 - Other options
 - Qlik
 - PowerBI
 - Automated reports

What's next

- Learn to code
 - R
 - Python
- More data
 - Organizational
 - Team
 - Staff

Resources

- Stephanie Evergreen
 - stephanieevergreen.com
- Ann K Emery
 - annkemery.com
- Tableau
 - community.tableau.com
- www.google.com

Let's Practice!