Stakeholder Engagement in Clinical Translational Science Award (CTSAs) Programs: Theory to Practice



Using design thinking to facilitate data collection and use among stakeholders

- Chithra Adams, John Nash, and Beth Rous

Considering organizational communication in program evaluation to improve process and outcomes

- Victoria Sherif and John Nash

Visionary evaluation: Designing an experience

Use



Use

Experience





The emotional content of a design brings it a human meaning. It is the basis upon which people experience a design as being truly meaningful in their lives.

- Boland & Collopy, 2004

"Emotions are, in essence, impulses to act" - Norman Donald, 2004

Context:

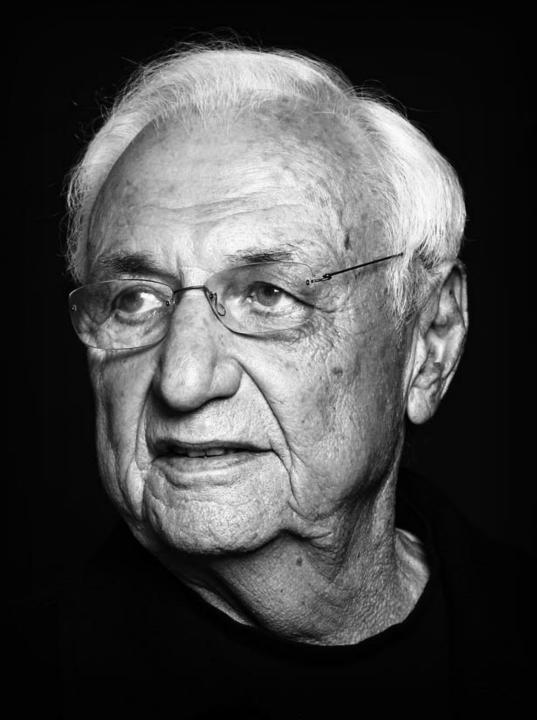
Center for Clinical and Translational Science

Approaches:

Design Thinking
Organizational Communication



Design



Designer Frank Gehry

Thinking Like a Designer





So how does design thinking fit in evaluation?

Start from the basics: What does evaluation offer?

Tangible

Interim Evaluation Report

EVALUATION OF THE UNIVERSITY OF KY CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCES

Tracking Evaluation Core
August, 2014

Intangible





Intangible

Tangible

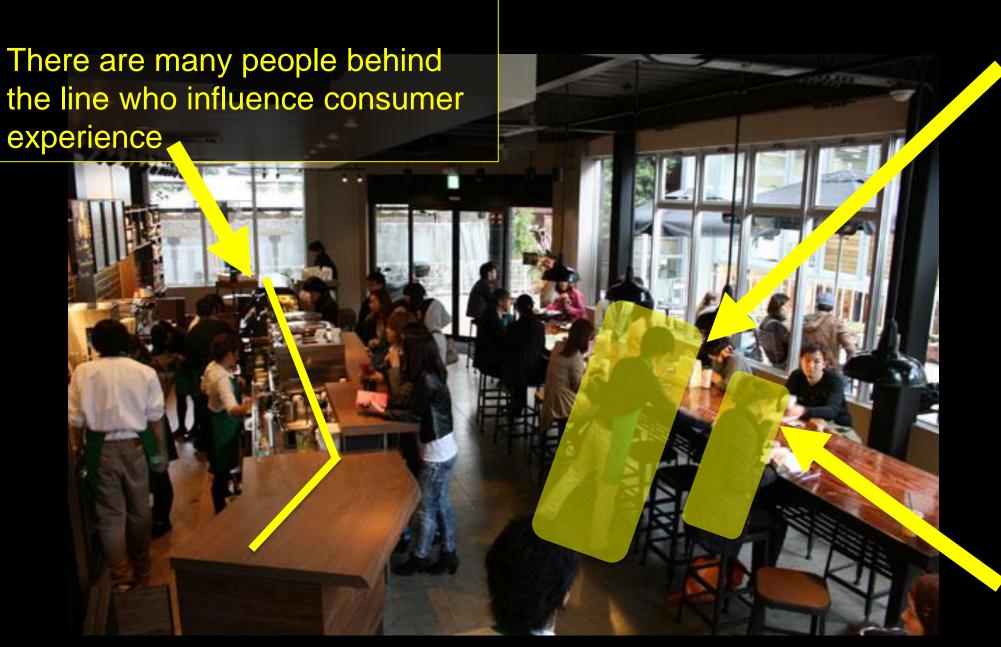


Barista

Consumer

Not that simple, really!

Line of Interaction



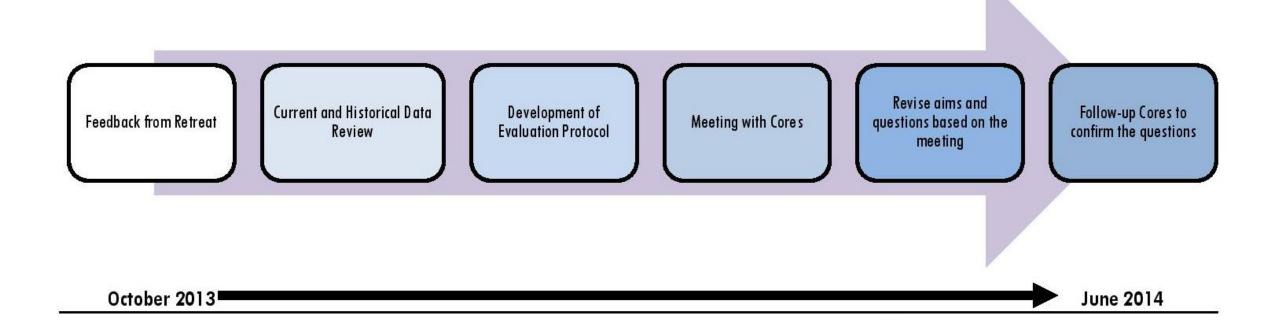
Barista

Consumer

Designing an evaluation service

Service journey map: helps identify opportunities to enhance experience and visualize the kind of experience at each level of interaction

Phase I. Development and alignment of individual cores' evaluation and tracking plans with their aims and activities



Evaluation plans: Excitement and Interest!

Intangible

Tangible

Meeting with evaluators

Meeting with evaluators and learning about evaluation

Meeting to develop a plan that aligns metrics

Document
that shows the
metrics in relation
to evaluation

Line of Interaction

Activities to engage and learn about stakeholders' goals

Historical review of the data

Development of broad protocol

Identify stakeholders for developing evaluation plans

Paying attention to life between meetings

Behind the scenes

Intangible

Meeting with evaluators and learning about

Meeting to develop a plan that aligns metrics

Tangible

that shows the metrics in relation to evaluation

Line of Interaction

Activities to engage and learn about stakeholders' goals

Meeting with

Plan the touch points

Historical review of the data

Development of broad protocol

Identify actors and users

Identify stakeholders for developing evaluation plans

Empathize and define

Paying attention to life between meetings

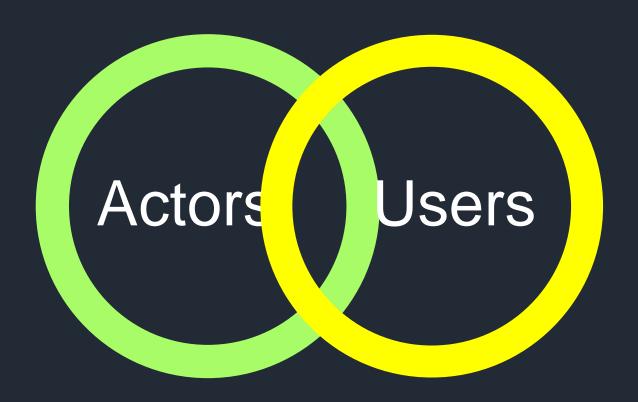
Ideate and prototype

Actor User

Actors are program staff who help in the evaluation and therefore influence the evaluation experience

Users are program staff who will use evaluation for program improvement

It is a fine line!



It is a fine line!



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Need finding and not need assessment!

Discover

Immerse

Connect

Detach

--Kouprie and Visser (2009)

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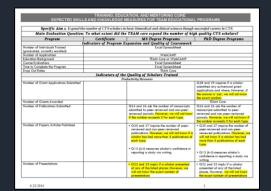
Ideating & Prototyping: testing and learning from failures

Be selective! Stakeholders are investing time and effort

Data tr	acked?	Metrics collected	Source	Tracked by
Yes	No			
Х		# PhD students in Clinical and Translational Science	REDCap/Behavioral Science web server	TEAM Core
Х		PhD Annual Student Evaluations	Behavioral Science	Behavioral Science DGS
Х		# MS students in Clinical and Translational Science	REDCap/Behavioral Science web server	TEAM Core
Х		# Certificate students in Clinical and Translational Science	REDCap/Behavioral Science web server	TEAM Core
Х		# Certificate students in Clinical Research Skills	REDCap/Behavioral Science web server	TEAM Core
Х		Certificate Course Evaluations	Behavioral Science	TEAM Core
Х		# students in Intro to Clinical Research		TEAM Core
Х		# KL2 applications/# awards	REDCap	TEAM Core
Х		# TL1 applications/# awards	REDCap	TEAM Core
Х		# PSMRF students	Excel	TEAM Core
Х		# Career Development participants (KClub)	Sign-in sheets (Word doc)	
Х		# workshops & seminars/# attendees	Excel	TEAM Core
	Х	Mentor satisfaction measures	Qualtrics Mentor Survey	Tracking and Evaluation C
Х		Mentor awards	Nomination process	TEAM Core
	Х	Mentee satisfaction measures	Qualtrics Scholar/Trainee Survey	Tracking and Evaluation C
	Х	# publications		
	Х	# grants		
Х		PSMRF satisfaction measures	PSMSF Survey/REDCap	TEAM Core
Х		Satisfaction with accessibility	Qualtrics Needs Assessment Survey results	Tracking and Evaluation C
Х		Satisfaction with quality	Qualtrics Needs Assessment Survey results	Tracking and Evaluation C
Х		Satisfaction with cost	Qualtrics Needs Assessment Survey results	Tracking and Evaluation C

	Training, Education, and Mentoring (TEAM) C	ore—Notes
	generations of CTS investigators so that they can provide ac and bring CTS research competencies to professional practic	
sation? How do you measur	ional mentering network. No one has a good handle on pro- re transformation? "What constitutes good evidence?	doctivity beyond papers and grants. How do you quantify
	Evaluation Operations	Notes
Alm I. Expand the number of CTS scholars in busic biomedical and clinical sciences shough successful careers in CTS Goal I is to expand UK's capacity to propure CTS scholars in basic biomedical and clinical sciences for successful careers in CTS via engine but	How did the TEAM core activates expand the number of subdistri from diverse harkprounds trained in CES? —likes many KL2, T.L. and FRME were trained: What were their endoustion last, legalities and the 2 confidence from many MS and PLD Studens were trained: Programs? —What is the civiliance of successful training? How many KL2 solution have recorded CES pixel grant-processed at cost /published; MF and MF and PSME? suddess pre-cented at their many KL2 and PSME? suddess pre-cented at	Ki.2.5 is and 3 graduate. And they might here 2-4 memors. TLI lawer how. Here opportunities for training and montering to setting up the methods to establishing mechanism to expand the another of programs. Ki.2. clinicity and placed the certificate programs Ki.2. clinicity state in already faculty position, buy out 55 of their time, the observable produces the programs of the control of their time, the observable produces and the remarked -conducting researching, publishing, getting creatment facingle; as stated to the control of the
c-15 via enriched research educational programs and mentored research training.	controversymbology	TLIt only for graduate students, working on graduate degrees, mix of Phds and MD Phils)—conducting researching, publishing. Select the best and brightest and expedite the process PSMRF (\$3000 memor executs) program while they are muriculating in the graduate program). We have formal courses Certificate in clinical & translational science

TRAINING, EDI EXPECTED SXILLS AND XNOWLEDGE			-1
Specific Aim 1. Expand the number of CTS scholars I	a basic biomedical and directal	sciences though soccessful careers in I	75.
Main Evaluation Question: To what extent did t	the TEAM core expand the	number of high quality CTS schol	lors?
Program	Certificate	MS Degree Programs	PhD Degree Programs
	Expansion and Quality of	Coursework	
# Individuals Trained (graduated, currently enrolled)	1	1	1
# Applications	1	1	1
Education Background	1	1	,
Course Evaluations	1	1	1
Time to complete the program	1	1	1
Drop Out Rates	1	1	- 1
	he Quality of Scholars Tra	ined	
	reductivity Measures.		
# Grant Applications Submitted			1
# Gronts Awarded			1
# Publications Submitted		1	1
# Papers/orticles Published		1	1
# Presentations		1	1
# Awards Received (travel awards, poster awards)		1	1
Return-on-Investment Analysis			
Invited Talks (Internal/External Institutions)	o 800000		
lesse .	rch Skills- Self Assessment		
Advanced Knowledge and Understanding of CTR	1	1	1
Knowledge and Skills in Research Study Design	1	1	1
Collaborated and Being Key Personnel in a Research Study	-	1	1
Independently Plan and Conduct a Research Study		1	1
Grant Writing			1
Knowledge of Research Ethics and Research Subject Protections	1	1	1
Other Co	titical Skills-Self-Assessment		
Participate in Transdisciplinary Research Teams	1	1	1
Lead Transdisciplinary Research Teams			1
Research Leadership Position	1	1	1
Corear Promotion	1 1	1	- 1



professional students and junior locally to support the development of	ocided basic, translational, dinical, Lieteral sciplinary research program	achieving regional	né seterní recel	ero.	
Main Evaluation Question: To what extent did TEAM activities expand canduct high quality transdiscipl	the university's capacity to pro linery clinical and translational	para professional research?	students and j	unior foculty to	
Program		812		7,1	
Indicators		increa .	-	Searce	
Program Injuries	er and clearing of Coursework				
# Individuals Trained (graduated, currently enrolled)		East Spreadchest From TEAM spre		Sear Spreadover from 15,464 core	
II Applications		RL2 Apps REDCup		HICH	
Education Bediground	Please other	QLBL2 Please refer all of the degrees that you have attained to data		Qt 62 Please select of of the degrees that you have attained to date	
Course Evaluations					
Time of Degree Completion		Excel Spreadcheet from 15A64 core		Excel Spreachbest Years (EAN) core	
Drop Out Rates		Can be calculated from the Good Sproadulent data from TUAM core		Social Spreadurest Yours MARK core	
Indicators of the Quality of Scholars Trained					
Productivity Mag	SAFRES				
M Cover Application S.A. Arthur	,	KL2 CS and 20 contain data whether the fil3 wheter colonities a grant within the last is mareful and the type of grant submitted.	j		
F Grant Avaided	1		4		
-		QLS and 54 will provide if they have submitted a manuscript the last of earths. And if they have submitted upto 5 manuscripts. We will not if they have submitted man then 3 manuscripts.	,	929	
E Papers, oricles Published	1	HIT GAS WITH AN INDEX F PART CONTROLLS	1	977	

Training, Education and Mentoring (TEAM) Core

All of the TEAM care's aims feed into the abuse main overall CCTS Education Aim.

Alms Evaluation Questions

Aim 1. Expand the montes - Big Question: How did TEAM core activities expand the university's capacity to prepare scholars (from diverse backgrounds). to be

Hierarchy which over trained:

** I deplicate the standard independent of the standard promoted of the standard of the

What is the evidence of successful training and a softmenters' Other data on presentations and mentership? a publications' publications (includes

UK CCTS Tracking and Evaluation Core

Evaluation Protocol

University of Kentucky CCTS

- -

SKELETON EVALUATION PLAN

TRAINING, EDUCATION & MENTORSHIP

AIM

The first aim of this core is to expand the number of CTS scholars in basic biomedical and clinical sciences though successful careers in CTS. (UK CCTS AIM: Education)

AIM 1 ACTIVITIES

To achieve this aim, TEAM team members:

- ACTIVITY 1: Provide indicators of program expansion and quality of coursework for the certificates, masters and PhD programs
- ACTIVITY 2: Provide indicators of the quality of scholars trained for the certificates, masters and PhD programs

THE QUESTION

Therefore, TEAM asks of itself, to what extent did the TEAM core expand the number of high quality CTS scholars?

THE PATH TO THE ANSWER

To answer this question, TEAM team members do the following:

ACTIVITY 1: Provide indicators of program expansion and quality of

(Instrument or source, if applicable: Excel spreadsheet)

- Number of individuals trained (graduated, currently enrolled)
- Number of applications
- Educational background
- Course evaluations
- · Time to program completion
- Drop-out rates

ACTIVITY 2: Provide indicators of the quality of scholars trained

(Instrument or source, if applicable: "Annual Self-Assessment Survey" results where applicable)

Productivity Measures

- Number of grant applications submitted
- Number of grants awarded
- Number of publications submitted
- Number of papers/articles published

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METRICS, PEOPLE & SOURCES

METRICS, PEOPLE & SOURCES

SKELETON EVALUATION PLAN

PILOT CORE DR. CURRY

AIM 1

The first aim of this core is to fund new ideas to support high quality collaborative team science and new methodologies, across the spectrum of new and established investigators, to address the health care needs in Appalechia.

AIM 1 ACTIVITIES

To achieve this aim, Pliot team mambers

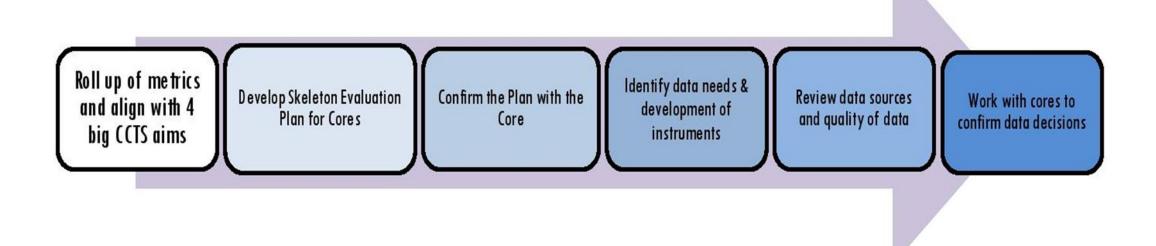
- ACTIVITY 1: Administer pitot awards and CCTS small grants
- : ACTIVITY? Stratege per scientific partnerships inchiding the
- To account the part part internal and CCTS are grants and CCTS are grants

AIM 1 ACTIVITIES

AJOCHERA

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Phase II. Examination of how individual core's metrics and measures inform the CCTS impacts on clinical and translational science



June 2014

September 2014

Instrument Development: Exploration and curiosity

Lesson Learned: Different early adopters

