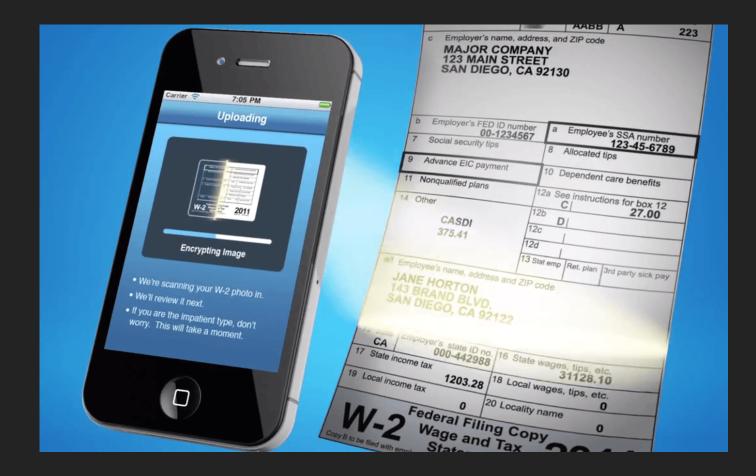


The Innovation Agenda: Design, Validate, Iterate

September, 2016

Roy Rosin Chief Innovation Officer, Penn Medicine



1 in 4 pregnancies. 1 million times each year. \$1,000 savings per case...dramatically better experience





8 pilots in 90 days

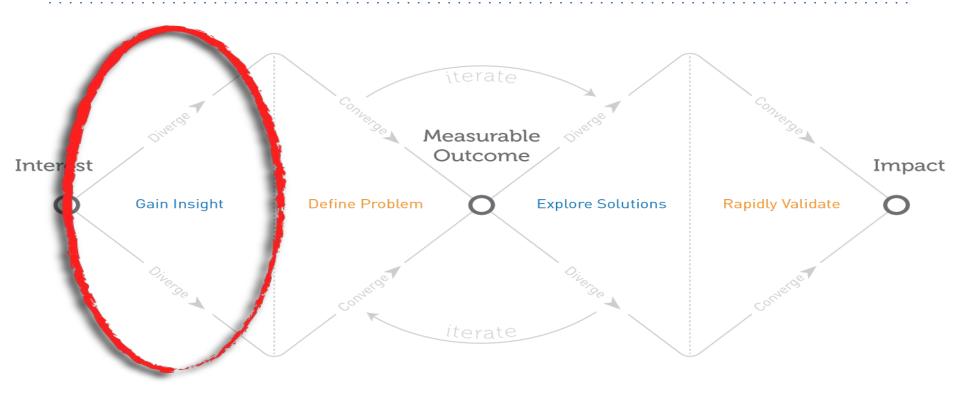
Kept 100% who needed the ED in the ED

Can avoid misutilization and poor experience

8,000 women per year in the region

Framework









See what others have missed





Focus on what people DO, not say





...and get immersed in new settings



Mrs. Hart was readmitted for CHF, not knowing her cough was a red flag. When to call 911 or Doctor Medication compliance

Changing your diet

Useful labels for medications



Eliminating 13,000 hours of work per NICU

\mathbf{D}	Pumping Log	3 🕀
HIS WEE	ĸ	
45 min	AY 06/14/16 - 10:47 AM	2 BOTTLES
1 hr 35	AY 06/13/16 min - 12:35 PM	4 BOTTLES
AST WE	EK	
SATURI 25 min 9:00 AM -		1 BOTTLES
FRIDAY 30 min 1:02 pM		1 BOTTLES
1 hr 20	SDAY 06/08/16 min - 10:22 AM	3 BOTTLES
PUMPD		() IFICATIONS



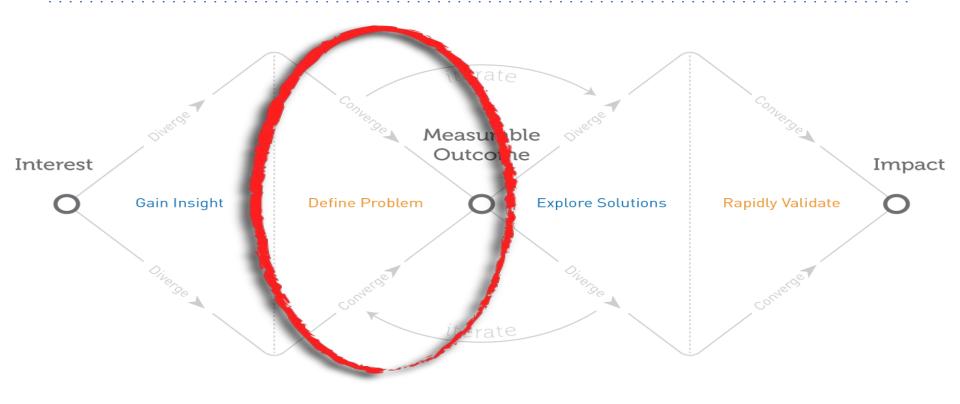




"The RFID tags won't work...and we need it to be hands-free!"- Keriton founder



Framework – part 2



The 5 'So What?'s





Problem framing can limit or enable







Time of discharge?

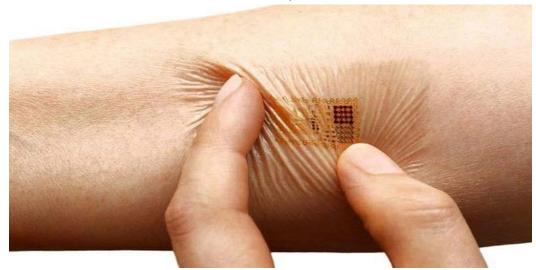


The solution set changes with proper problem framing



Watch the solution set change

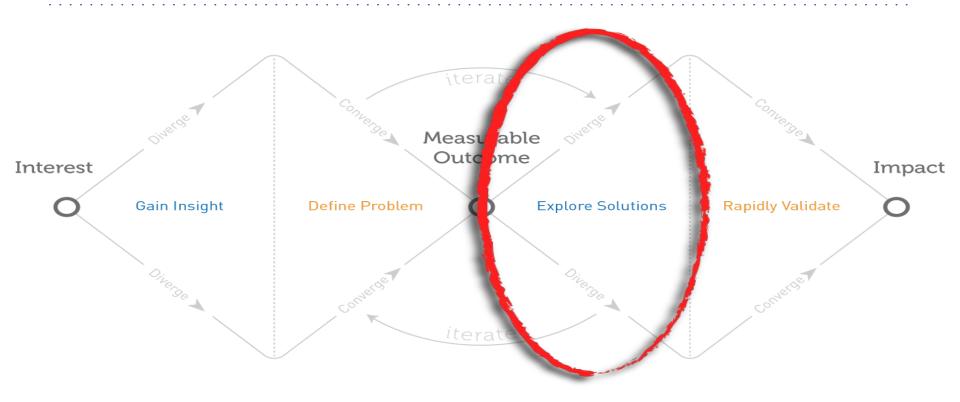
Admission Lab work



Moving to 'Time to Treatment' changed our perspective

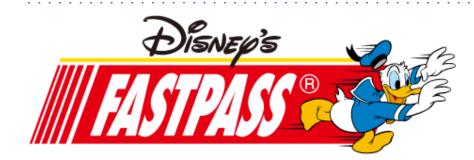


Framework – part 3



Analogies can reveal opportunity







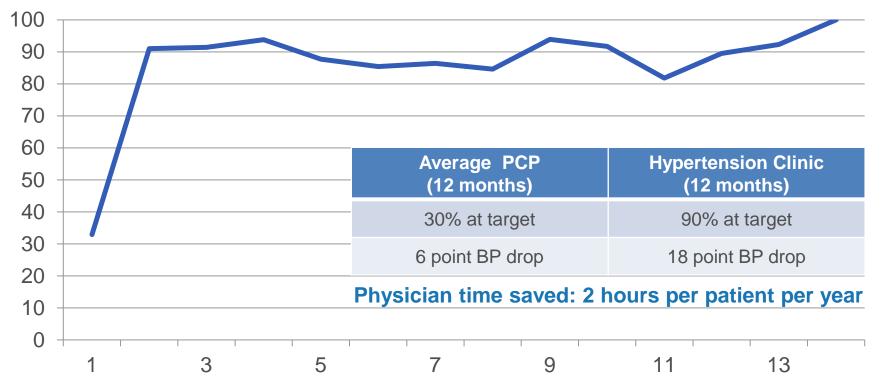




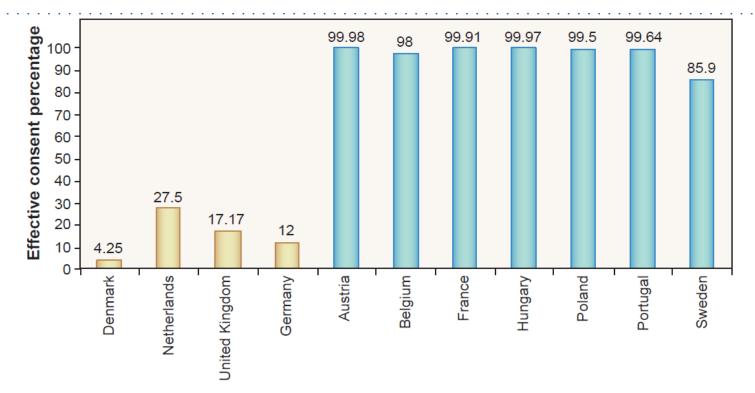
Didn't expect to be using this analogy...



% Patients at Target BP by Month from Enrollment



Heath care's complexity

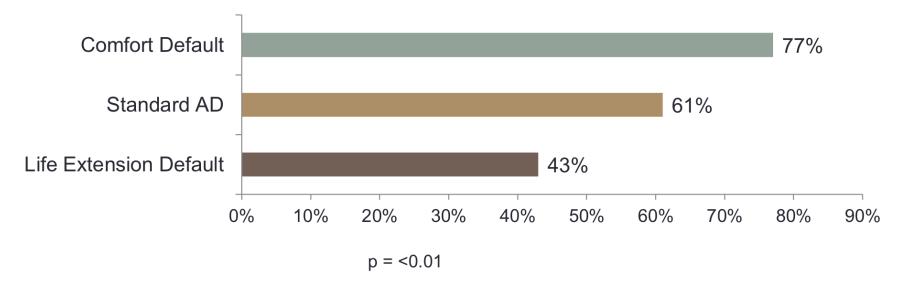


Human behavior and decision making





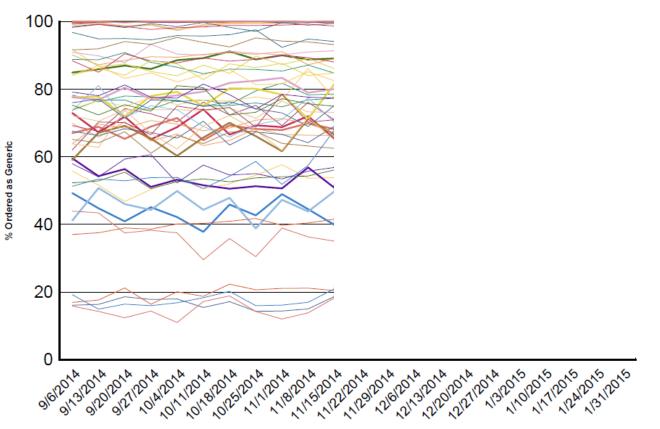
Percent of patients choosing a comfort-oriented goal of care



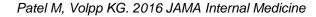
Halpern SD, Loewenstein G, Volpp KG, et al. How ingrained are seriously ill patients' preferences for end-of-life care? *Health Affairs* 2013



Prescribing generics



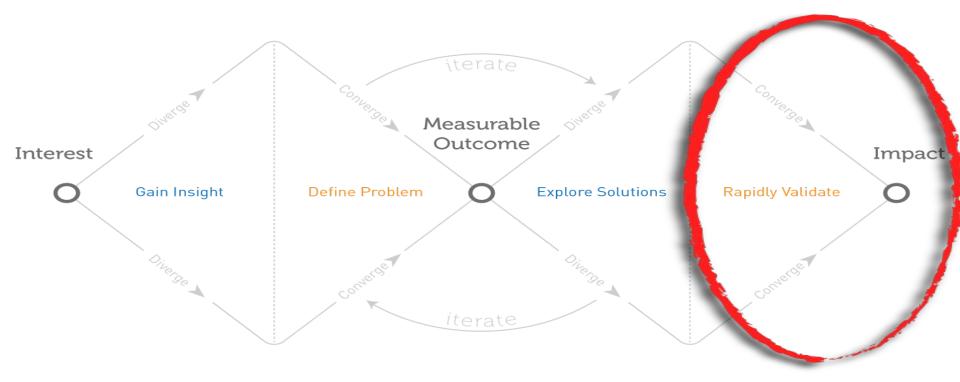
Week Ending







Framework – part 4



Command & control is doomed



"93% of all innovations that ultimately became successful started off in the wrong direction; the probability that you'll get it right the first time out of the gate is very low"



"From design, build, sell...to sell, design, build"

TECHNIQUES ," "Don't build #@% nobody wants"



))

"From design, build, sell...to sell, design, build"

VAPOR TESTING



Pay with Mint

Thanks for checking out Mint payments! It's a private beta for now, but you can sign up to get invited when we add more users.

Enter your email address

Request invite

8:41 AM - 30 Mar 12 · Embed this Tweet

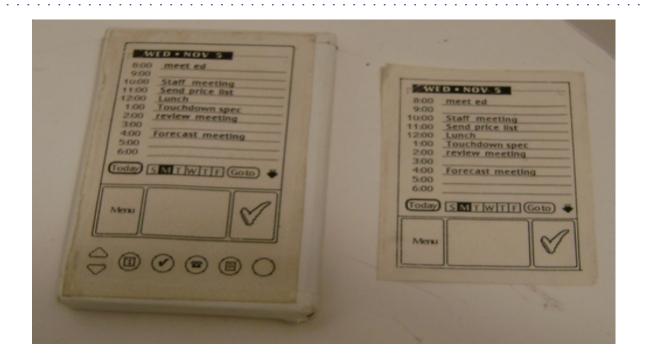


"From design, build, sell...to sell, design, build"

THE FAKE FRONT-END wants "Don't build #@%% nobody wants



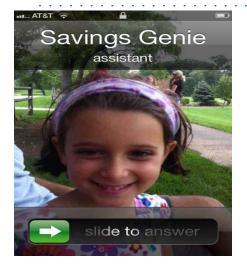
V1 of the first successful mobile device



When do you wish it were real...and why?

Combatting impulse purchases











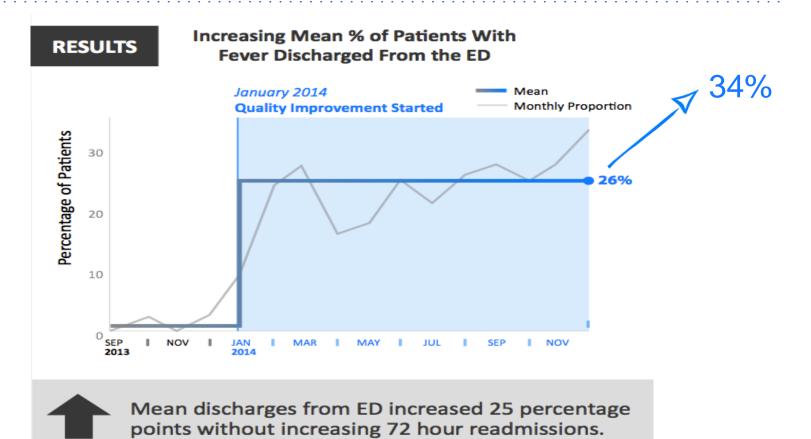
Get call telling you to launch the app

See your card is 'off' Choose who can 'sign off' Request to turn card back on

When you get near a store where you have control issues...



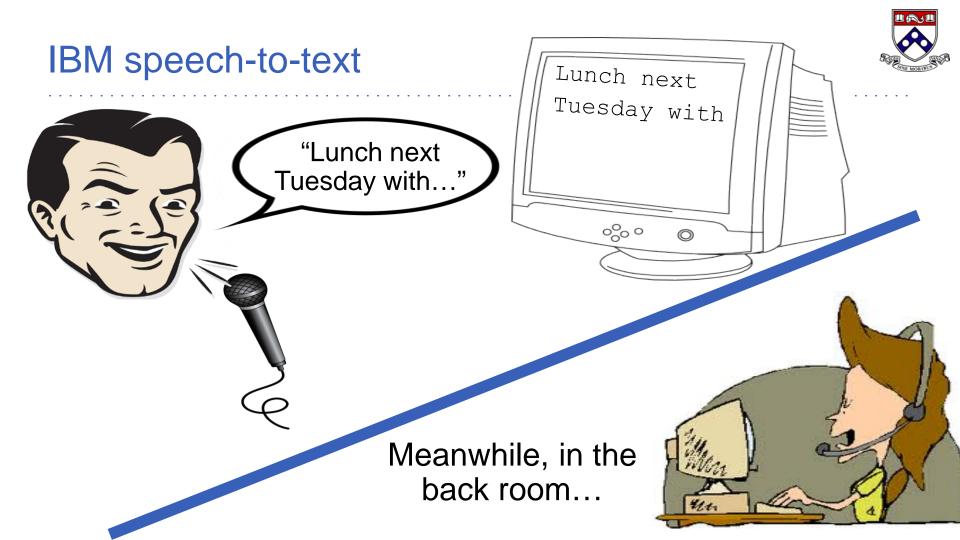
Breaking through dogma





"From design, build, sell...to sell, design, build"

"Don't build #@%%\$ nobody wants





#1 driver of maternal morbidity, readmissions







))

"From design, build, sell...to sell, design, build"

THE PRE-PILOT "Don't build #@%\$ nobody wants



Ortho at Penn: Same Day Scheduling



Conversion rate, commercial mix, new patients