

# Climbing the Usability Pyramid

Dr. Tobias Samo

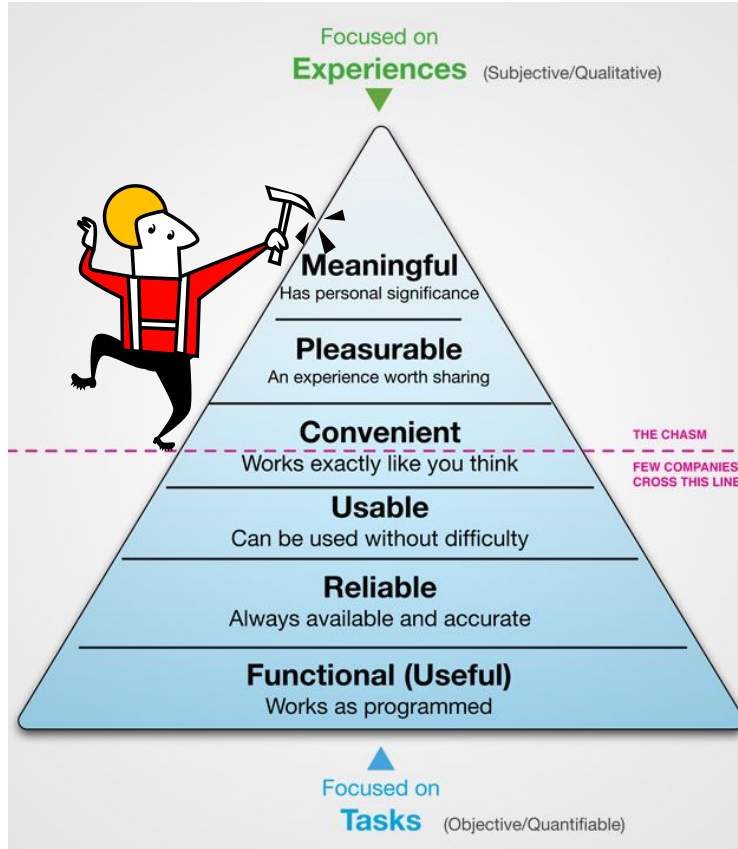
March 2014

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# Climbing the Usability Pyramid

## A Vendor's Perspective

# Where have we been?



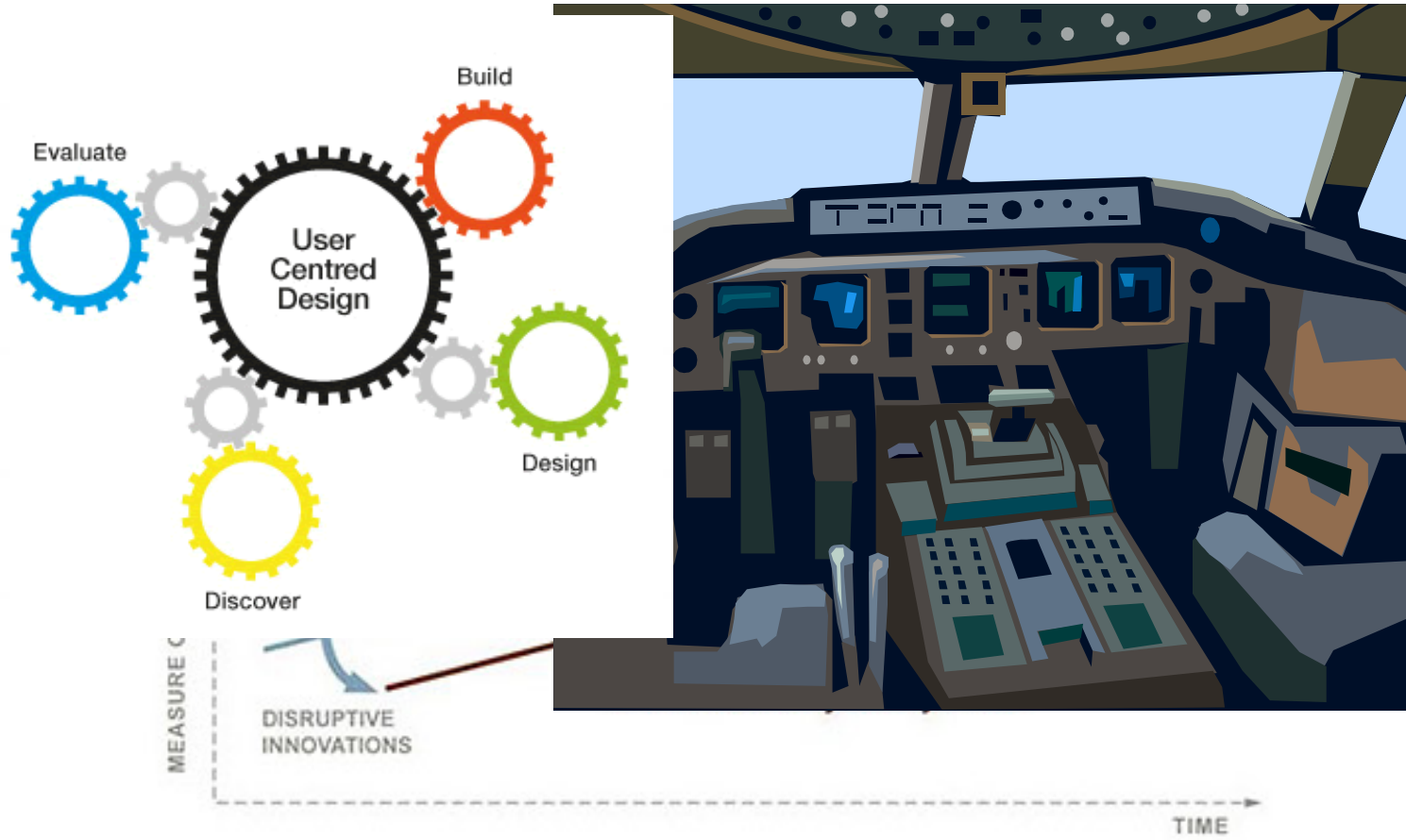
## Anderson Pyramid

# Good Intentions

Connecting America for Better Health  
The Office of the National Coordinator for Health Information Technology



# Innovation and Usability



## Disruptive Technology

# Visualization



### Blood Work Cardiology Result

BALTA MEDICAL CENTRE | ORDERED BY: Dr. Francis Pulaski

**Patient**  
 NAME: Jerome Morrow  
 GENDER: M | AGE: 49 | DOB: 01/10/1961

BALTA Medical Centre  
 20000 Highway 101, Suite 100  
 San Diego, CA 92128  
 COLLECTED: 11/02/2010, 10:40 a.m.  
 RECEIVED: 11/02/2010, 1:03 p.m.

- About this test**  
 This report evaluates your potential risk of heart disease, heart attack, and stroke.
- Your results**

**CRP level test**  
 Your level of C-reactive protein in the blood. High levels are linked to inflammation of the blood vessels, which has been associated with an increased risk of heart disease.

3.3

Low risk | Average risk | High risk of cardiovascular disease

**Total cholesterol level**  
 265

Desirable | Borderline | High

**LDL ("bad" cholesterol)**  
 130

Optimal | Near optimal | Borderline high | High | Very high

**HDL ("good" cholesterol)**  
 32

Low | Borderline | Optimal
- Your risk** You show an elevated risk of cardiovascular disease.
 

If you're a smoker with blood pressure of 130 mm/Hg but a Family History of heart attack before age 60 (in one or both parents), your risk over the next 10 years is: **15%**

**Your risk would be lowered to:**  
**12%** if your blood pressure were 120 mm/Hg.  
**10%** if you quit smoking.  
**8%** if you reduced your cholesterol to 160 mg/dL.

Use your CRP results and cholesterol level to calculate your 10-year risk of a cardiovascular event at [www.reynoldsriskscore.org](http://www.reynoldsriskscore.org)
- What now?**
  - Diet and exercise** can improve your cholesterol levels.
  - Avoid drinking alcohol**, except in moderation: one to two drinks per day.
  - Ask your doctor** about statins or other medications that can lower cholesterol.
  - Consider retesting** in one to two weeks, in case your CRP level was caused by infection.

Wired Magazine Dec 2010

# Where are we going?



# Post EMR Ecosystem

## ***NETWORK BASED OPERATIONS***

***RECOGNIZED  
MARITIME PICTURE***

***SHARED TACTICAL  
INFORMATION***

***NATO INTEROPERABILITY  
LINK 11/22 AND LINK 16***

***LINK T  
AND OTHER LINKS***

