

A few class reminders:

- 1** Please fill out the survey if you have not already done so
<http://www.surveymonkey.com/s/3BPMKHF>
- 2** All lecture material from yesterday has been posted to:
<http://aiti.mit.edu/materials/ghana-summer-2013/>
- 3** How did last nights homework go?
By tomorrow 5pm you will be expected to have submitted 2 ideas to Darwinator.

Please try and be here on time

25/June/2013

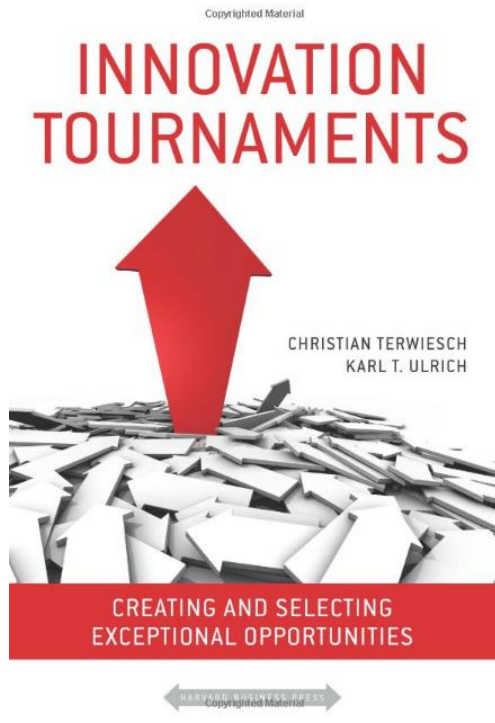
Darwinator – Ideas Tournament

Summer 2013

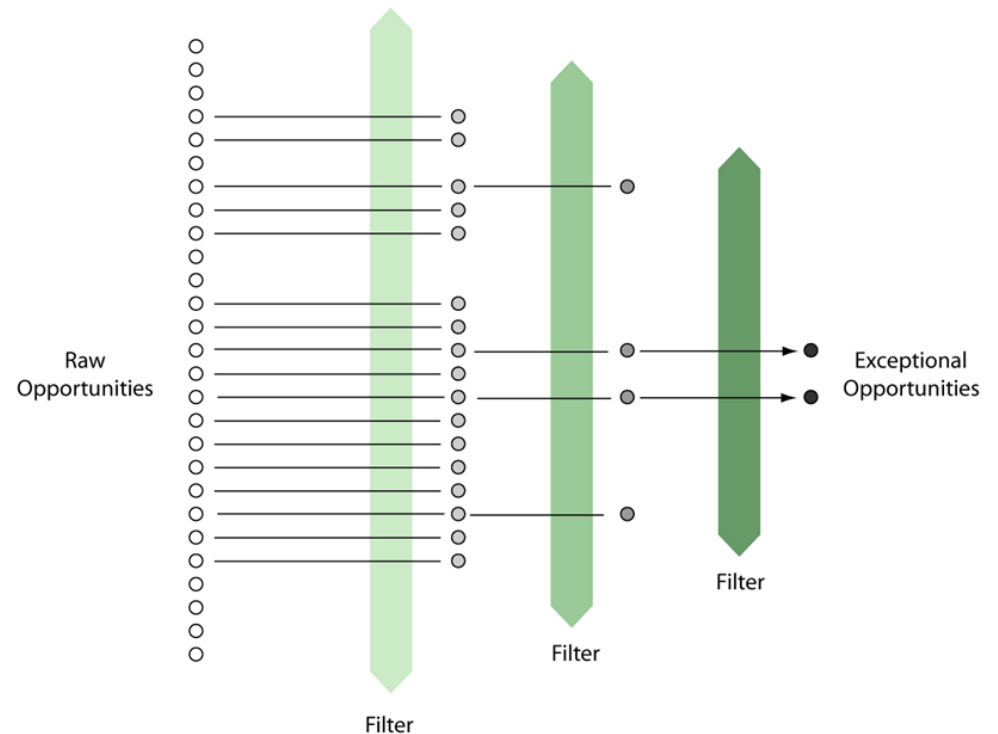
Accelerating Information Technology Innovation



What is an ideas tournament?



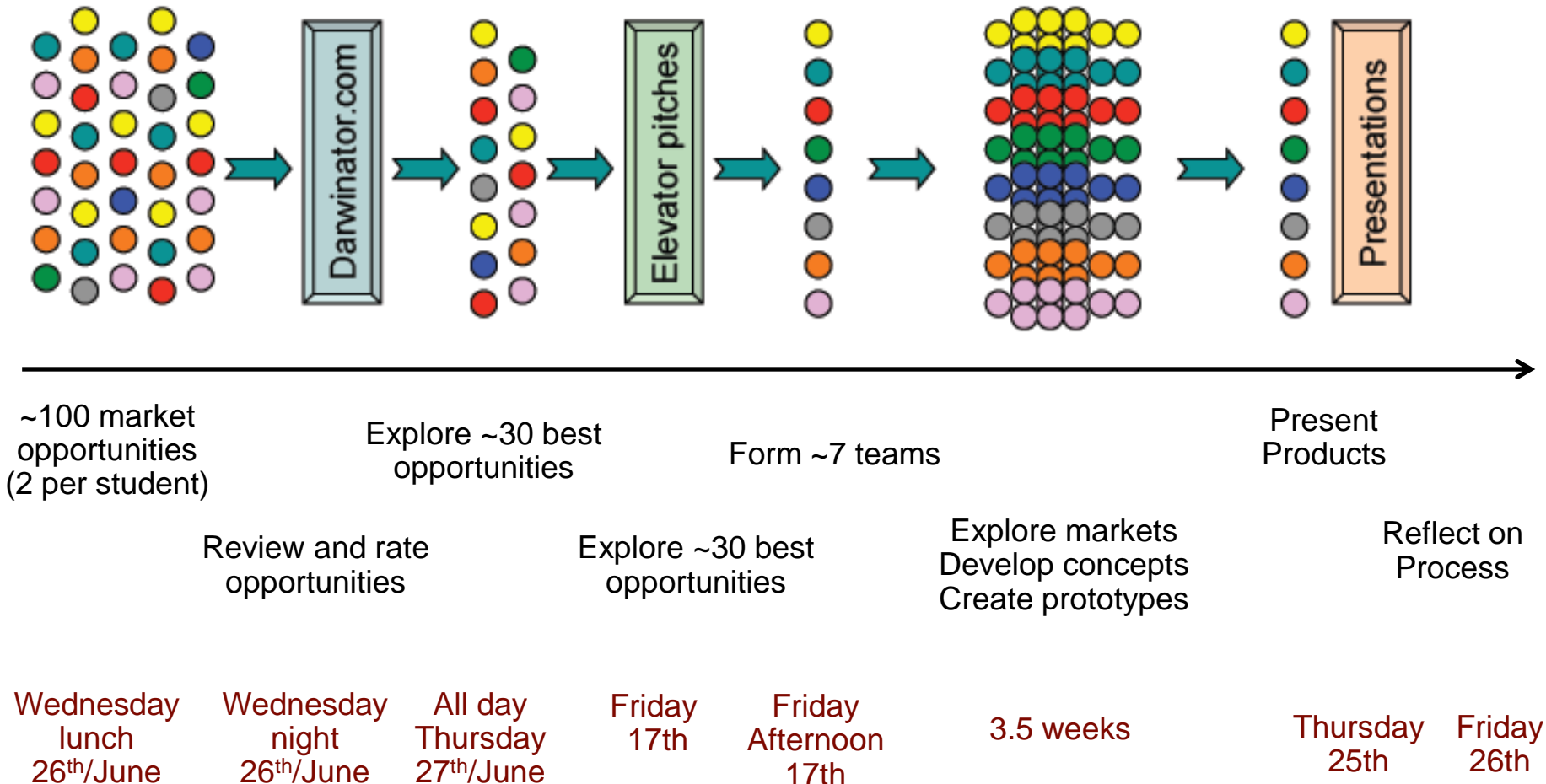
From Opportunities to Innovation
The Innovation Tournament Helps to Find the Exceptional Opportunities



Method for generate new and innovative ideas. Proven to be more effective than standard brainstorming. See text Innovation Tournaments (Harvard Press) by professors at both Wharton School of Business and MIT



1 Our PDD Process: Double Down-select and Develop





By now you should have been emailed a link to Darwinator – please log-in

The screenshot shows an email client window titled "Darwinator tournament access granted - Message (Plain Text)". The email header includes:

- From: admin@darwinator.com
- To: jprzybylko@gmail.com
- Cc: Joshua Przybylko
- Subject: Darwinator tournament access granted

The email body contains the following text:

You have a new Darwinator account at darwinator.com.

Your username is jprzybylko@gmail.com and password is kilofigyvoufity

You have been granted access to Darwinator tournament Ashesi2013 ("ASHESI GHANA 2013 - OPPORTUNITY TOURNAMENT 2013")

To participate in this tournament, please login at <http://darwinator.com/> and then click on the tournament name.

Dear AITI Ghana 2013 Entrepreneurs at Ashesi,

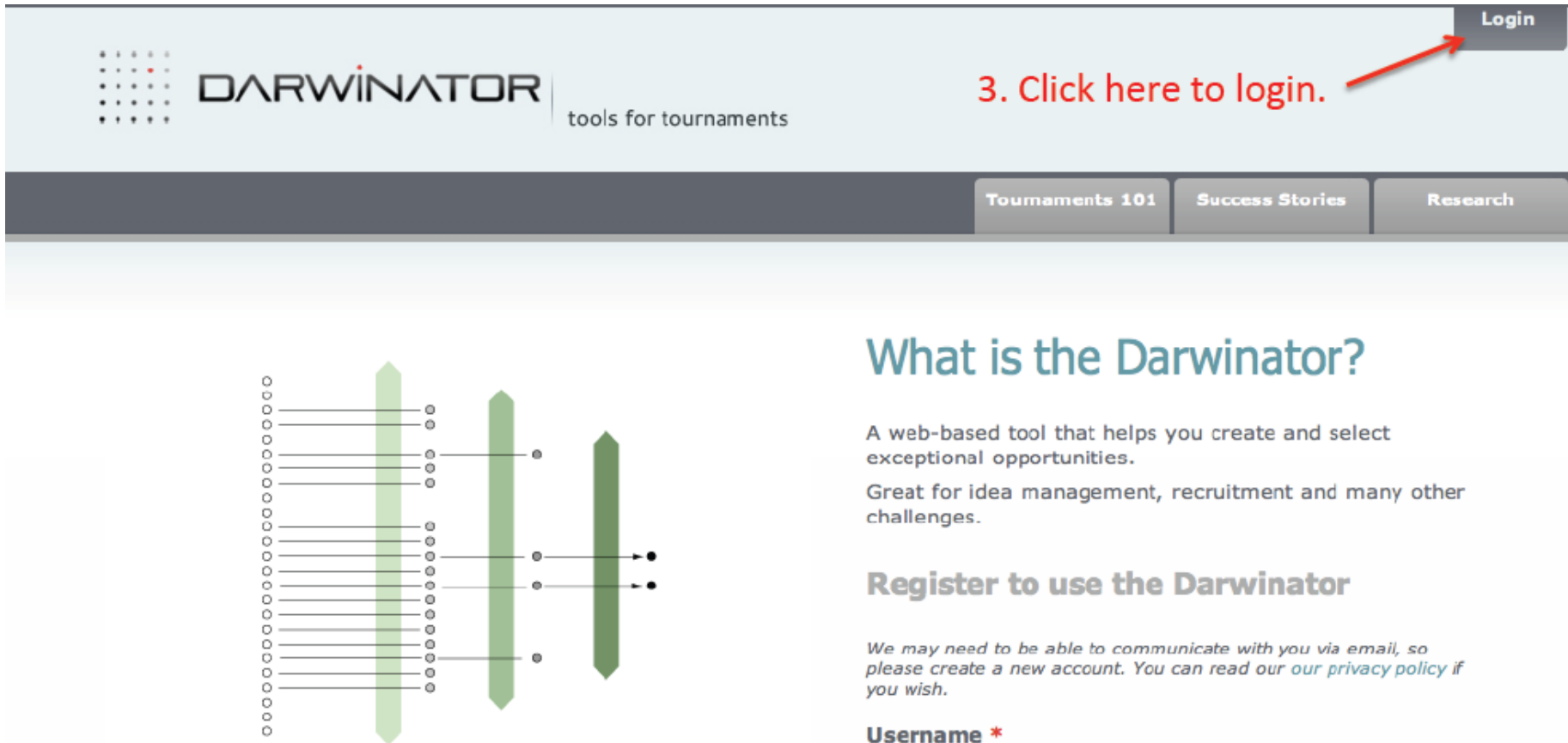
We are delighted to invite you to our the Darwinator ideas tournament.

Your assignment should you accept is:

Annotations on the screenshot:

- Red arrow pointing to "admin@darwinator.com" with label "1. Log-in name"
- Red arrow pointing to "kilofigyvoufity" with label "2. Password"
- Red arrow pointing to "<http://darwinator.com/>" with label "Click here"

Go to the website and click Login in the top right hand corner



The screenshot shows the top navigation bar of the Darwinator website. On the left is the Darwinator logo with the tagline "tools for tournaments". On the right is a "Login" button. A red arrow points to the "Login" button with the text "3. Click here to login." Below the navigation bar is a dark grey menu with three items: "Tournaments 101", "Success Stories", and "Research". Below the menu is a large graphic consisting of three vertical green bars of decreasing height, with horizontal lines and dots extending from them, representing a tournament structure.

What is the Darwinator?

A web-based tool that helps you create and select exceptional opportunities.

Great for idea management, recruitment and many other challenges.

Register to use the Darwinator

We may need to be able to communicate with you via email, so please create a new account. You can read our [privacy policy](#) if you wish.

Username *

E-mail address *



Login



Username *

erick.g.corona@hotmail.com

Password *

.....

- [Create new account](#)
- [Request new password](#)

Log in



4. Fill out your info and click here.



5. Click on the Tournament

Your Tournaments



ASHESI GHANA 2013 - OPPORTUNITY TOURNAMENT 2013

Submit and evaluate new product opportunities. Top ideas will be explored in class.

Current phase: *Submission*

This is your tournament, so you can [Edit](#) or [Delete](#) it.



6. Use this tab to submit opportunities.



MyDarwin Intro **Submit** Discuss Evaluate Report

Tournament: Ashesi2013



ASHESI GHANA 2013 - OPPORTUNITY TOURNAMENT 2013

Tournament Summary

Submit and evaluate new product opportunities. Top ideas will be explored in class.

Tournament Description

Submit two project opportunities for new products -- consisting of a brief, descriptive project title (2-4 words) and a short description of the market opportunity by 5pm on Wednesday 26-Jun. Your description should include the following: description of the market need, shortcomings of existing competitive products, and definition of the target market and perhaps its size. Starting on Thursday, you should then review and rate a minimum of 30 of the project opportunities posted by your peers, by 9am on Thursday 27-Jun. Top opportunities will be explored by small groups during the day on Thursday. Groups will present their research on Friday. The most promising opportunities will be selected for AITI project teams to develop.

Intellectual Property policy

Note: All project ideas and discussions are to be considered open opportunities for the class. We have no non-disclosure agreements in

Participation Parameters

Current Status

Submitting

Submissions:

- min 2, max unlimited

Discussion:

- View discussions one-by-one

Evaluation:

- min 30, max unlimited
- View evaluations one-by-one

The main page has some general information about the ideas tournament



7. Click create a new submission

MyDarwin Intro **Submit** Discuss Evaluate Report

Tournament: **ASHESI GHANA 2013 - OPPORTUNITY TOURNAMENT 2013** (Code: Ashesi2013)

Create a new submission

Your Existing Submissions

You have no existing submissions for this tournament.



New Submission

8. Type in the info describing your idea.

Title *

Home water monitoring

Description *

While many companies are rushing to develop devices to monitor home energy consumption, there is still not a convenient way for people to monitor and understand the amount of water they use. It is estimated that most people use between 80 and 100 gallons of water per day, with much of that wasted during tooth brushing and showering.

Currently, the only way to know your water consumption is to use your main house water meter, which shows only aggregate usage (and is often located in an inconvenient location) and provides no information to people in apartment complexes with shared water mains. The target market for a home water monitor that is similar to home energy monitor would be all U.S. households with an income of over \$75,000 (about 30,000,000 households).

Adding Attachments

Use the following buttons to create new attachments for this submission.

Add an image



9. If you want to provide an image to help explain your thoughts click here.

Add another submission after this one

Add this submission

Ideas are anonyms. Whilst everyone will be able to see all the ideas – no one (including me) will not be able to tell who wrote each idea. Silly ideas are welcome!



MyDarwin Intro **Submit** Discuss Evaluate Report

New image
Choose File no file selected Upload

Description

Display on the submission page?

Save

10. Click here and select the image file (jpeg will work).

11. Then click here.

MyDarwin Intro **Submit** Discuss Evaluate Report

New image
PROP5_1.jpg Remove

Description

Display on the submission page?

Save

12. Put in a description for the image.

13. Click so that image is displayed.

14. SAVE IT!!!



Title *

Home water monitoring

Description *

with much of that wasted during tooth brushing and showering.
Currently, the only way to know your water consumption is to use your main house water meter, which shows only aggregate usage (and is often located in an inconvenient location) and provides no information to people in apartment complexes with shared water mains. The target market for a home water monitor that is similar to home energy monitor would be all U.S. households with an income of over \$75,000 (about 30,000,000 households).

Logo

Choose file | no file selected

Upload

← 15. Disregard (not required).

Adding Attachments

Use the following buttons to create new attachments for this submission.

Add an Image

Image 1

Image Title/Description

Water Meter

PROPS.jpg Remove



Display on the overview page for this submission

Image 2

Image Title/Description

Water Tracking Integration

PROPS_1.jpg Remove



Display on the overview page for this submission

16. When all good you can now save your submission.

Save this submission



MyDarwin Intro **Submit** Discuss Evaluate Report

Tournament: AITI/ASHESI GHANA 2013 - OPPORTUNITY TOURNAMENT 2013

You have already contributed the maximum allowed submissions for this tournament

Your Existing Submissions

Name	Submitted		
Window AC Improvement	2013-01-29 21:33:37	edit	delete
Home water monitoring	2013-01-29 13:45:07	edit	delete

17. Once you have completed the assignment you should have 2 ideas. You have until 11 AM on Wed to revise your work.



Virtual Baby&Kid Sitter

Illustrative
Example

Date submitted: 2013-01-29 00:39:20

Author: ecorona

Description

In the busy world we live it is hard to keep an eye on your children all the time. Wouldn't it be great if a device could tell me if they are coming close to an area I know is a NO-NO? Think about the Rumba virtual walls but for kids; if a kid goes near them the person(s) in charge receive an alert informing them that their kid's curiosity might be too much to handle. And the system doesn't have to be limited to small children. What about teenagers!!! What if a parent could have a means of being alerted if their kids are approaching an area, leaving school when they are not supposed to, and potentially up to no good. According to a quick search online, preventable injuries are the number one killer of children ages 14 and under in the U.S. Each year one out of every four children is hurt seriously enough to require medical attention. These injuries cost society \$175 billion annually. Ninety percent of these injuries could be prevented if families took the simple steps necessary to protect their children. One last thought: couldn't a similar system be utilized to keep sex offenders away from children and teenagers? If such devices had cross-talk capability wouldn't it possible for the device to issue an alarm if a close encounter were to happen?

ROOMBAs+CHILD_CONTROL+LOCATION INFO



+



+





Hand-Free Toothbrush

Illustrative Example

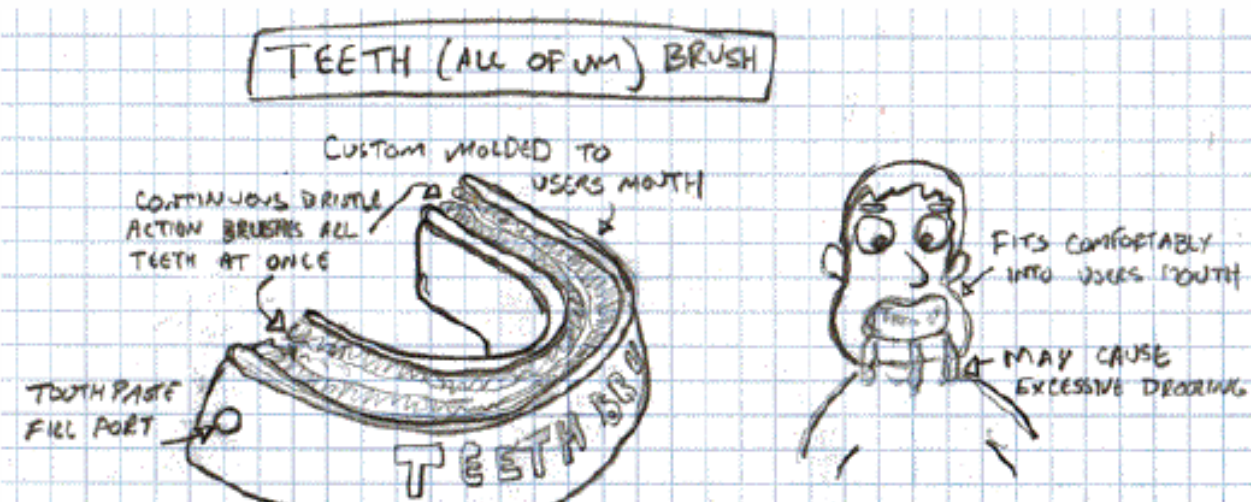
Date submitted: 2013-01-29 13:18:55

Author: You

Description

How about taking battery powered toothbrushes to the next level? Market size is significant as everybody "should" brush their teeth 3 times a day. If anything, battery powered brushes - some worth upwards of \$120 - have proven that there is an appetite for such products.

Cool Toothbrush



Later this week we will evaluate projects

While many companies are rushing to develop devices to monitor home energy consumption, there is still not a convenient way for people to monitor and understand the amount of water they use. It is estimated that most people use between 80 and 100 gallons of water per day, with much of that wasted during tooth brushing and showering. Currently, the only way to know your water consumption is to use your main house water meter, which shows only aggregate usage (and is often located in an inconvenient location) and provides no information to people in apartment complexes with shared water mains. The target market for a home water monitor that is similar to home energy monitor would be all U.S. households with an income of over \$75,000 (about 30,000,000 households).

Date submitted: 2013-01-29 13:45:07

Water Meter



Magnetic Field

Water Tracking Integration



20. Evaluate Idea

How would you rate this proposal?

terrible idea
 1
 2
 3
 4
 5
 6
 7
 8
 9
 great idea

Add extra comments here

Save this evaluation

21. Save your evaluation.

25/June/2013

Class 3 – Systematic Methods in Design Thinking

Summer 2013

Accelerating Information Technology Innovation

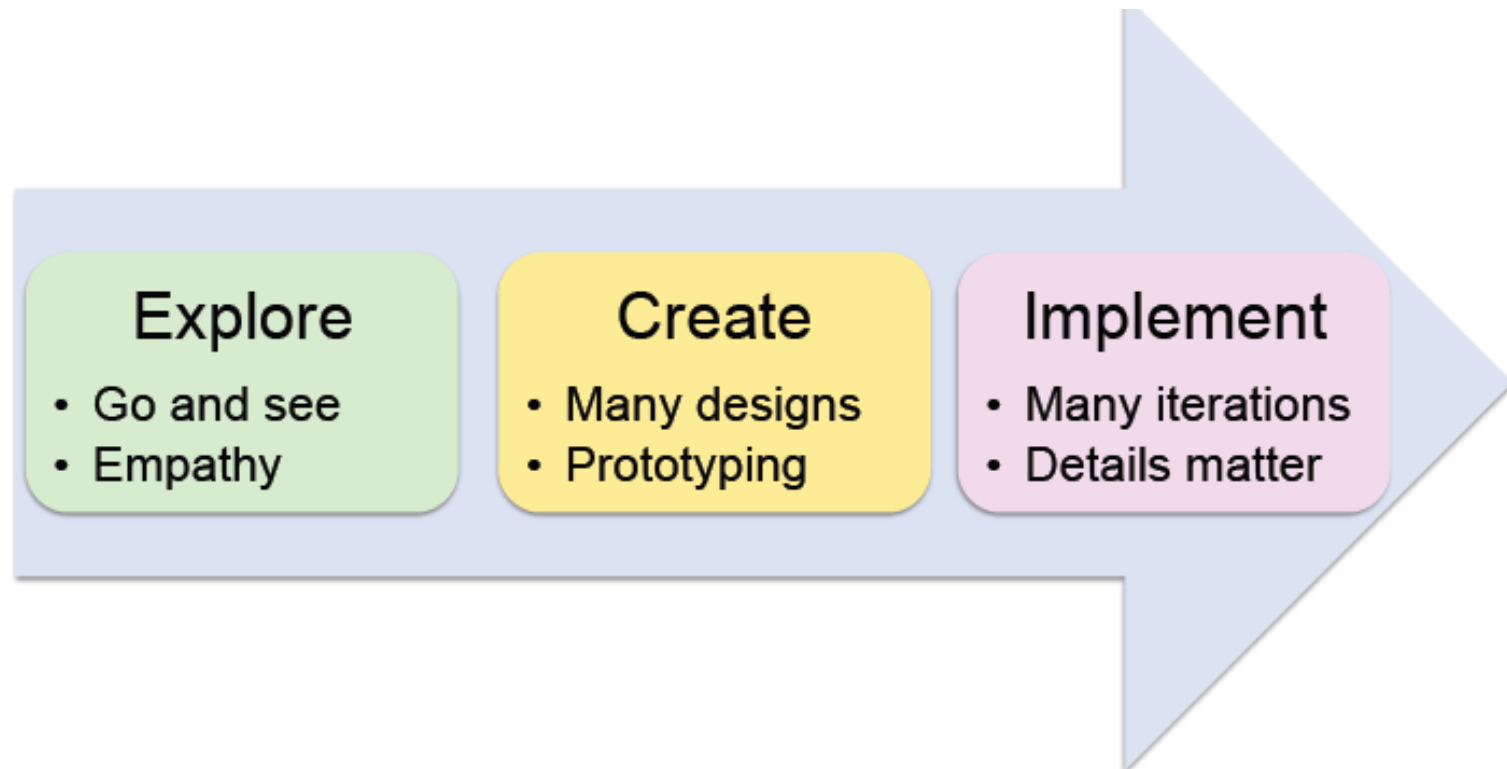


Today's Agenda

- **Define *Design Thinking* skills**
- **Video: *The Deep Dive***
- **Discussion: Systematic innovation at IDEO**
- **Darwinator evaluation assignment**

- **Idea Inspiration Session**

Critical Skills of Design Thinking



Reference: Tim Brown, "Design Thinking",
Harvard Business Review, June 2008.

About IDEO

WHAT WE DO

- IDEO is an award-winning global design firm that takes a human-centered, design-based approach to helping organizations in the public and private sectors innovate and grow.
- We identify new ways to serve and support people by uncovering latent needs, behaviors, and desires.
- We envision new companies and brands, and we design the products, services, spaces, and interactive experiences that bring them to life.
- We help organizations build creative culture and the internal systems required to sustain innovation and launch new ventures.



David Kelley, Founder

OUR APPROACH: DESIGN THINKING

- Design thinking is a human-centered approach to innovation that draws from the designer's toolkit to integrate the needs of people, the possibilities of technology, and the requirements for business success.



Tim Brown, CEO

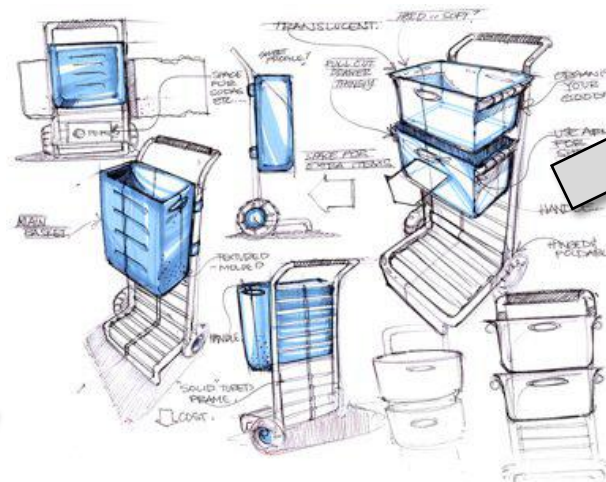
“The Deep Dive” video by *ABC Nightline*

IDEO’s Challenge

- Redesign a grocery shopping cart
- One week demonstration project

Your Challenge

- Process?
- Organization?
- Culture?





Play IDEO shopping cart design thinking Video

ABC Nightline - IDEO Shopping Cart

<http://youtu.be/M66ZU2PClcM>

How does IDEO explore and create?

Process	Organization	Culture
Explore		
Create		

IDEO's System of Innovation

■ Process

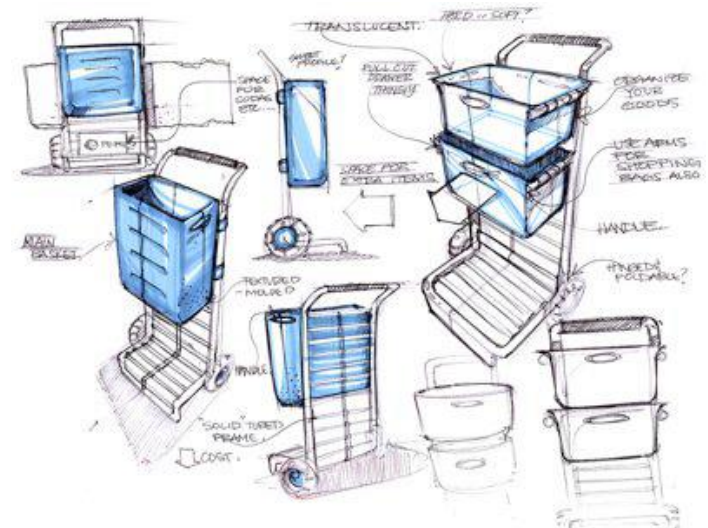
- Research → Explore → Refine
- Connect with customers and products
- Explore many possible (?) solutions
 - » *7 rules of brainstorming*
- Build many focused models
 - » *rough, rapid, and right*
- Time to explore *versus* time to focus

■ Organization

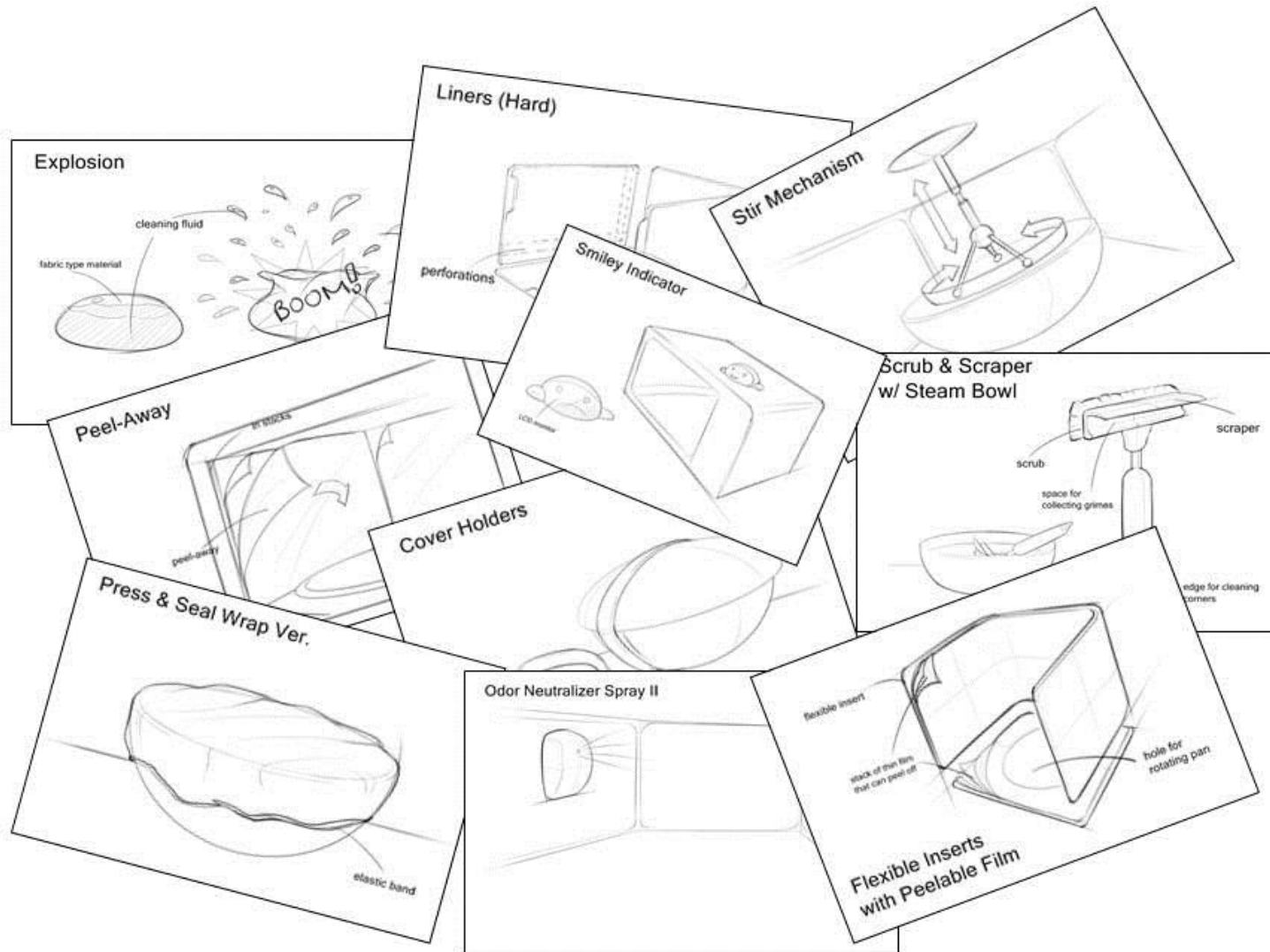
- Small studios (40-50 people)
- Multi-functional range of skills
- Team leaders guide the process

■ Culture

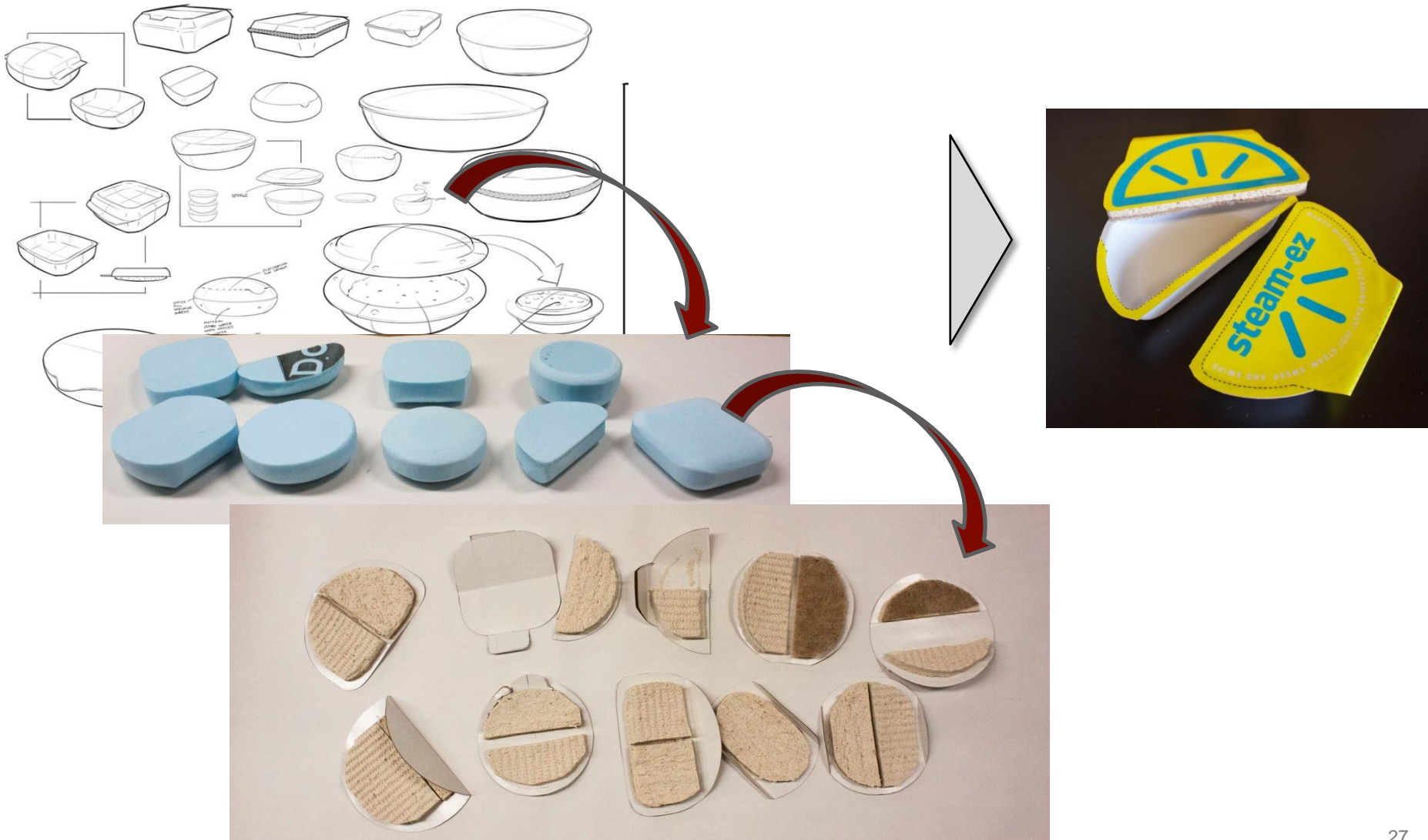
- Playful, open, creative
 - » *We are different!*



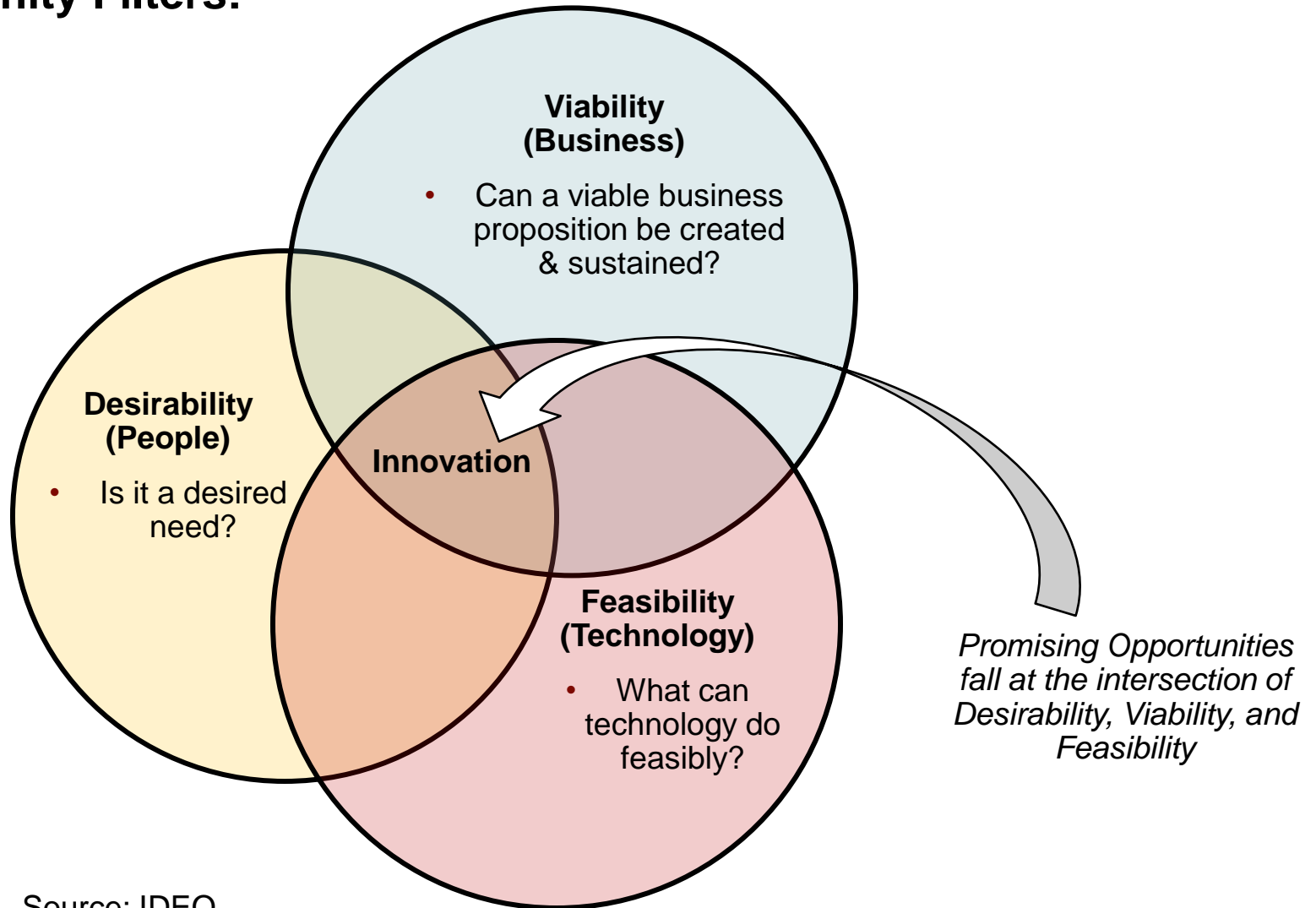
Example: Many Initial Concepts



Example: Many Design Iterations

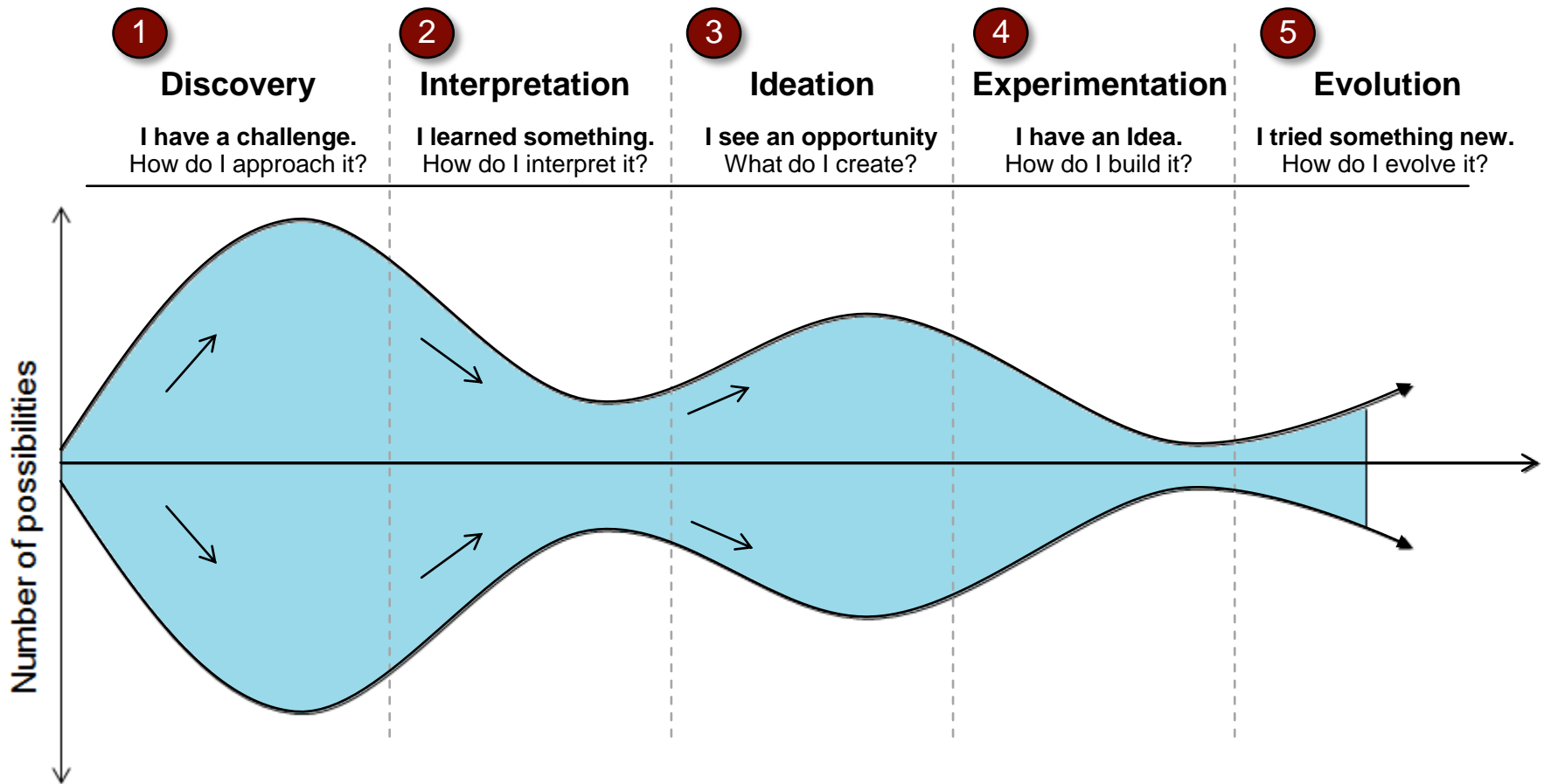


Design Thinking Opportunity Filters:



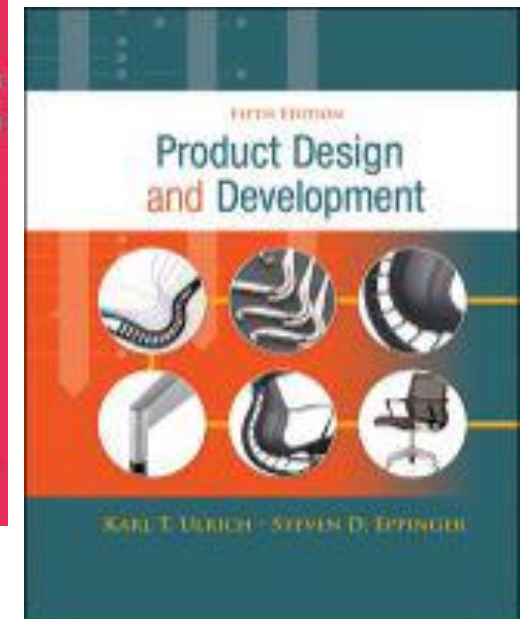
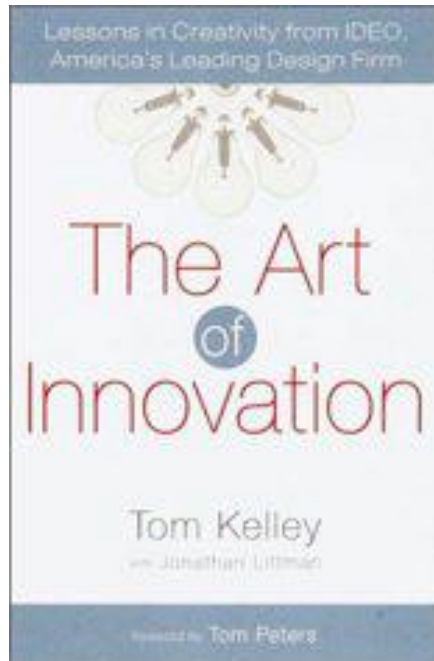
Source: IDEO

IDEO Design Thinking Process



Source: IDEO

More References



25/June/2013

Opportunity Inspiration

Summer 2013

Accelerating Information Technology Innovation





Characteristics of an Opportunity

- Timely
- Solvable
- Important
- Profitable
- In context

Some areas to investigate:

Healthcare

Travel

Banking/Finance
/Trading

Information/
Directory

Education &
Language

Social
(Messaging/Phot
osharing)

Entertainment
(Music/Video)

Fitness

eCommerce

Sports

Games

Program
Management

Job Placement/
Freelance

Ticket Sales

Agriculture

Storage/Cloud



Some times just looking at random images can inspire new ideas for new products/apps

Play the next following slides as a slide show

5 seconds per picture

































