



# DESIGN THINKING

5 Ways to Transform Your World

July 28, 2017

## An Introduction to Design Thinking

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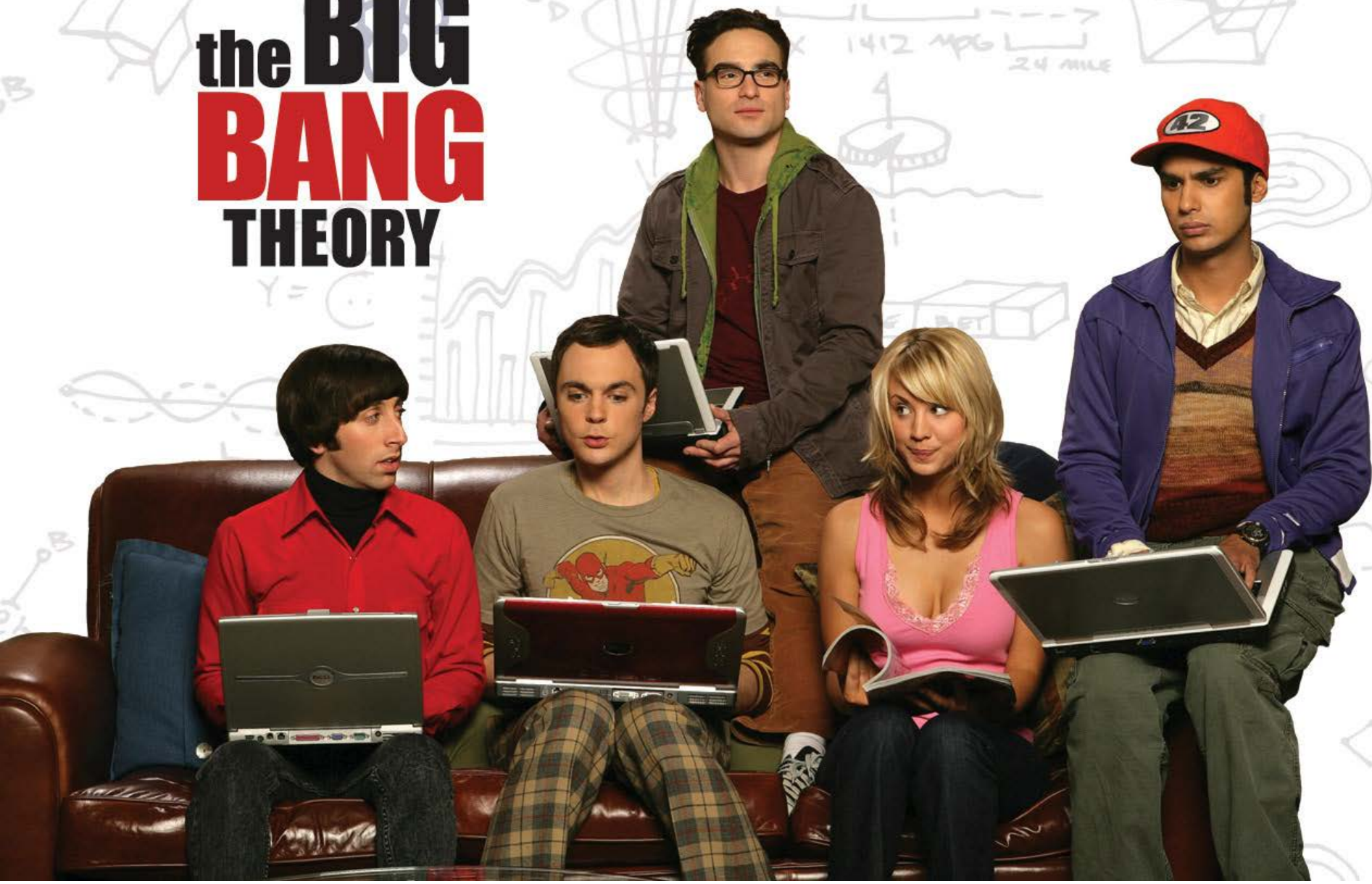
# 5 Ways to Transform Your World

using Design Thinking

Who's Oceanit?

# the **BiG** **BANG** THEORY

THE COMPLETE FIRST SEASON  
COMING TO DVD SEPTEMBER 2<sup>ND</sup>









**Innovation** (in one word)

**Delivering Breakthroughs** (in two)

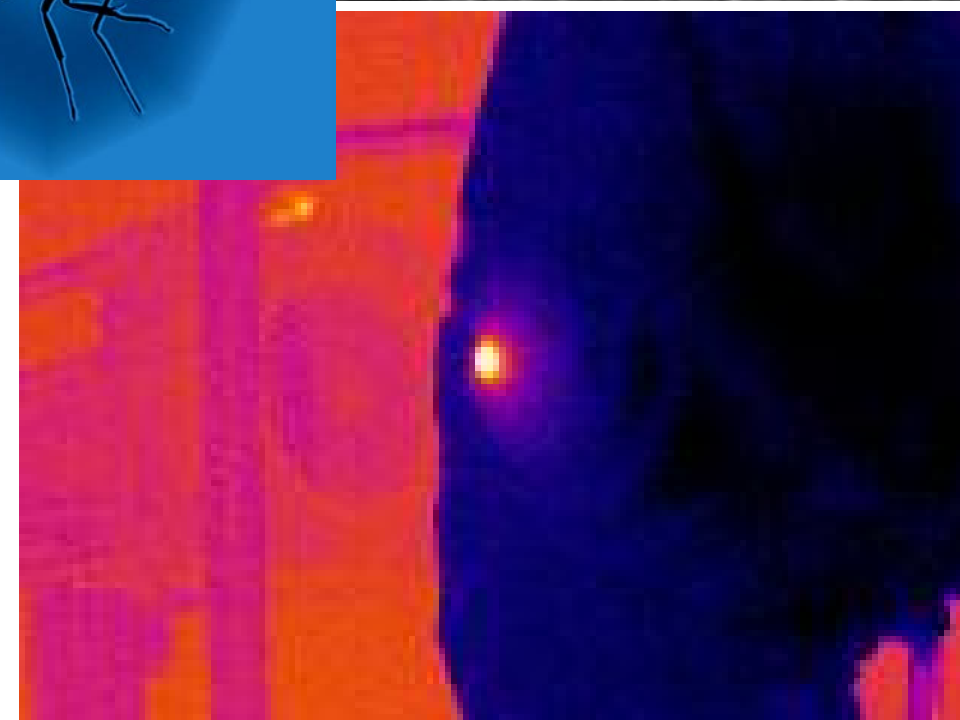
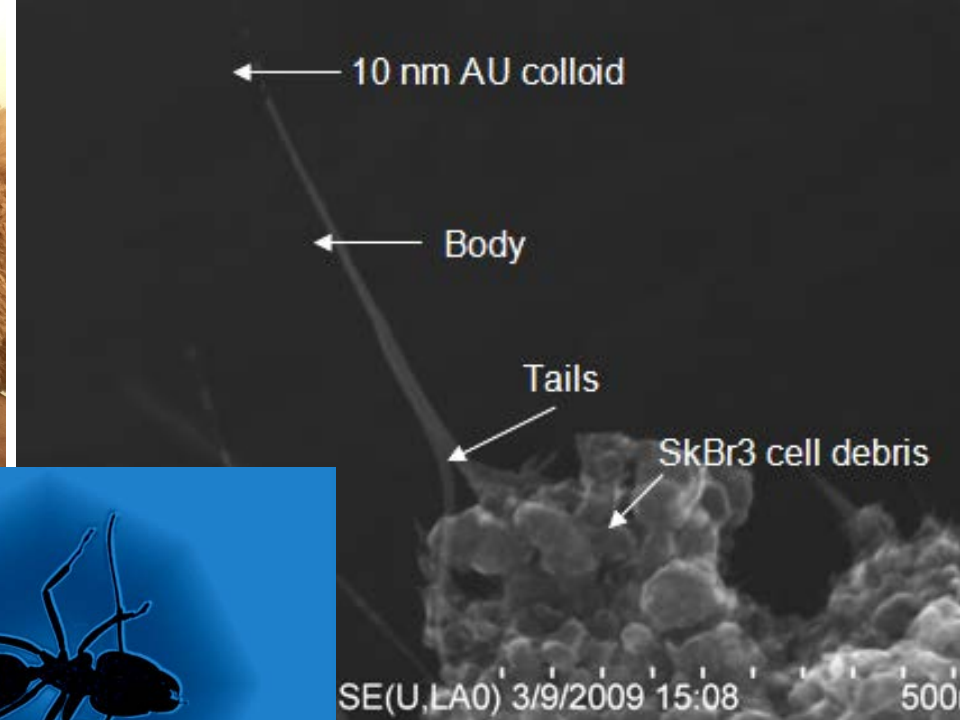
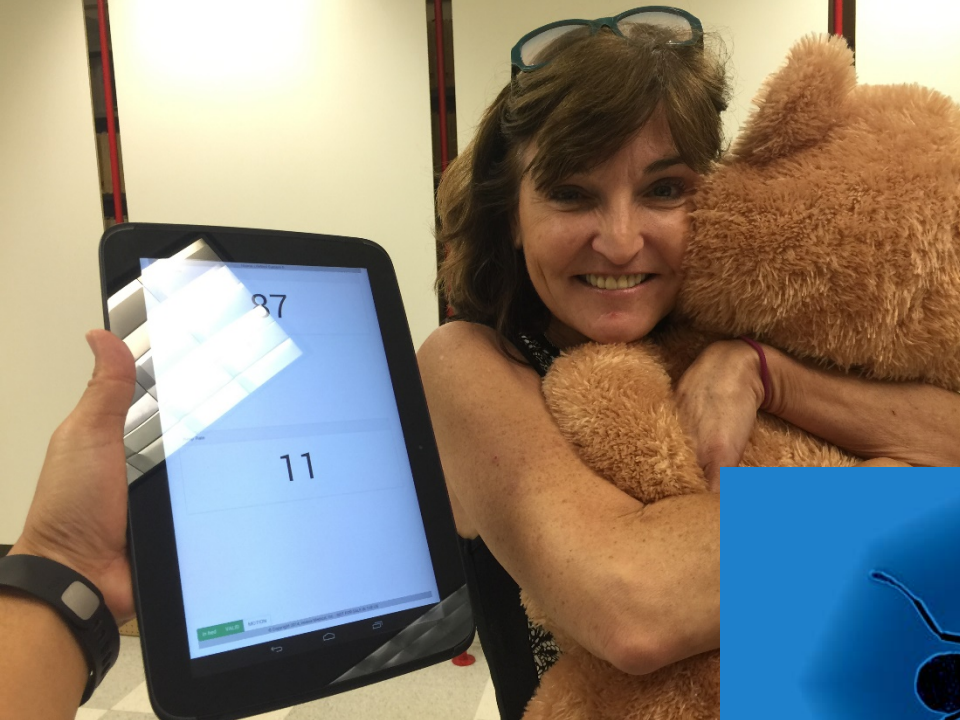
Founded in 1985

Dr. Patrick Sullivan

~160 employees / 25% PhDs / Diversified

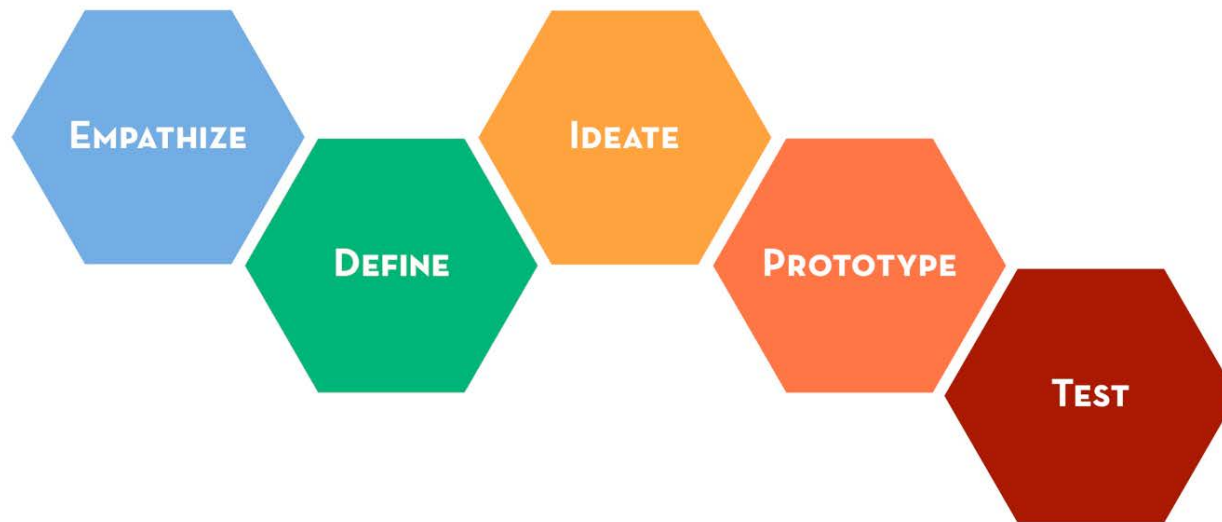
Hawaii, California, Texas, DC

[www.oceanit.com](http://www.oceanit.com)



What's Design Thinking?





**Problem finding**  
doing the right thing

**Problem solving**  
doing the thing right

Value creation

+

Value capture

Design is the one business  
discipline whose primary concern is  
innovation

Outsourcing, TQM, Six Sigma, Lean  
Manufacturing, Diversification,  
Licensing, Spin off, etc



# EMPATHY

*You ask a lot of  
questions.*

CITY  
OF  
GODS

ASKFORFLAMING



# DEFINE







# POWER SCRUBBING LIKE A BOS



TEST



# What's the big deal about DT?

- **Common Process** – enables collaborations across all groups, i.e., TEAMWORK
- **Common Language** – reduces miscommunications (think Pidgin)
- **Human Centered** – understand the human need before developing solutions. Can be applied to many situations
- **Cultural Catalyst** - leads to mindset change, that leads to cultural change. Failing = Learning

**MAKE  
PEOPLE  
WANT  
THINGS**

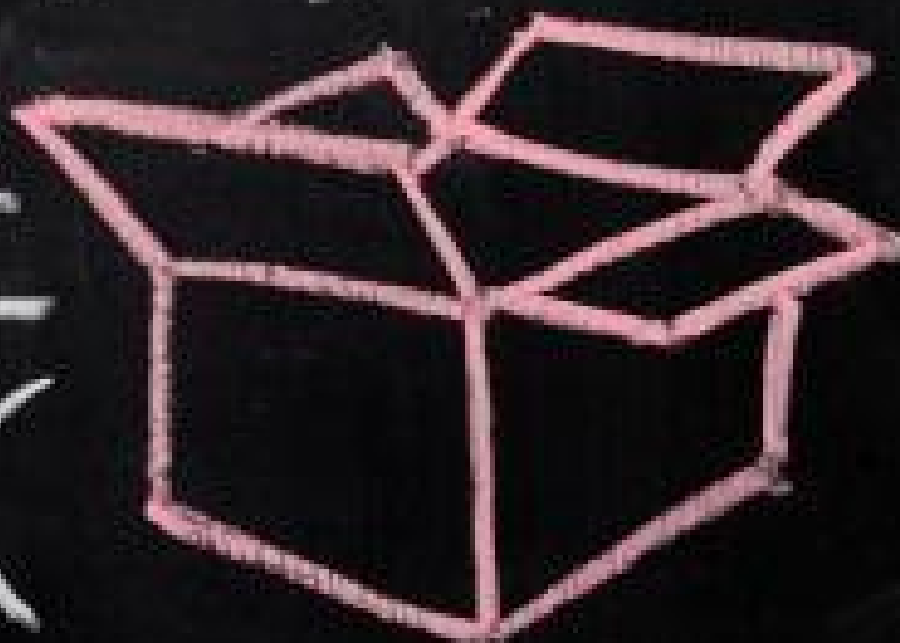


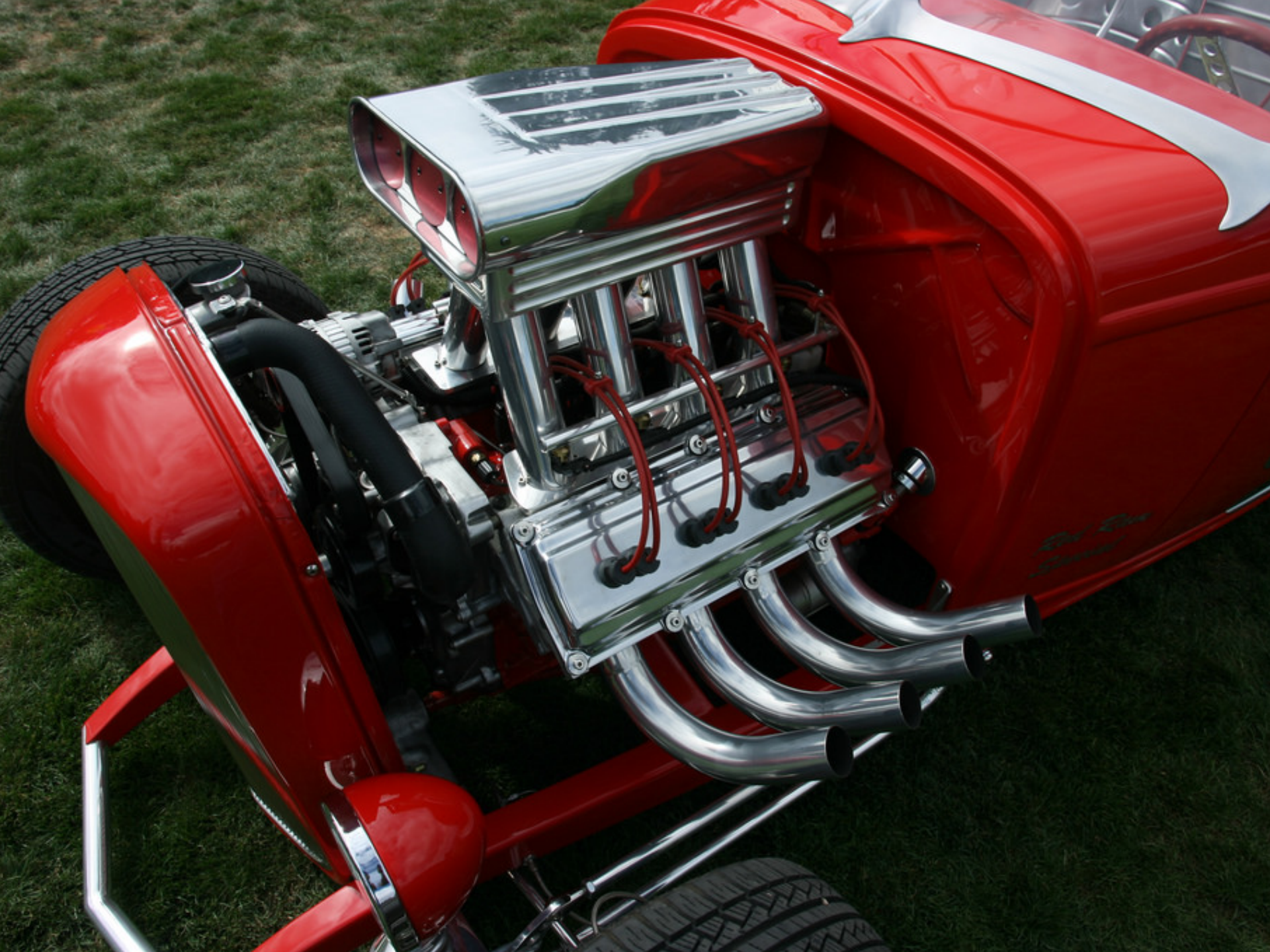
**MAKE  
THINGS  
PEOPLE  
WANT**

Traditional	Design Thinking
Design for	Design with
Right answers	Right questions
Telling	Showing
Thinking and planning	Bias towards action
Analytical, rational formal and convergent	Divergent, Convergent, Analysis and Synthesis
make choices...	create choices - make choices
Facts and Data	Stories, Feelings and Experiences



THINK  
OUTSIDE  
THE  
BOX



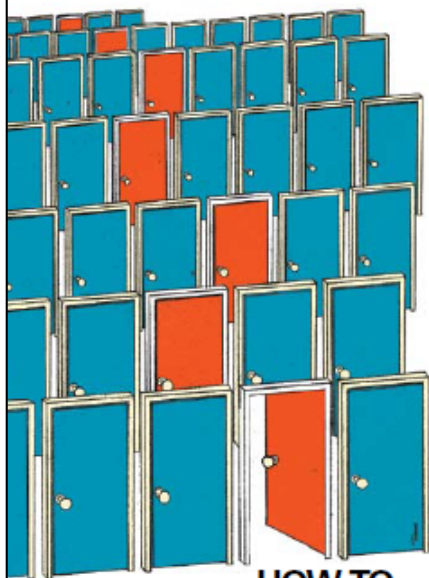


# Harvard Business Review

www.hbr.org



June 2008



**HOW TO  
DELIVER  
ON A GREAT  
PLAN**

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**9 out of 10** startups fail  
**42%** of startups fail for this  
single reason

**They make stuff no one wants**

SOURCE: CBI Insights: <https://www.cbinsights.com/blog/startup-failure-post-mortem/>

For those that survive, many  
shutdown because of this  
reason

**They don't create enough value for  
the effort that goes in. i.e., low ROI**



Everyone / Industry are  
Vulnerable to Disruption

That's your opportunity...

Failure is expected. It's part of the learning process

Failure is not tolerated. It's now about implementation

Value Creation

Search

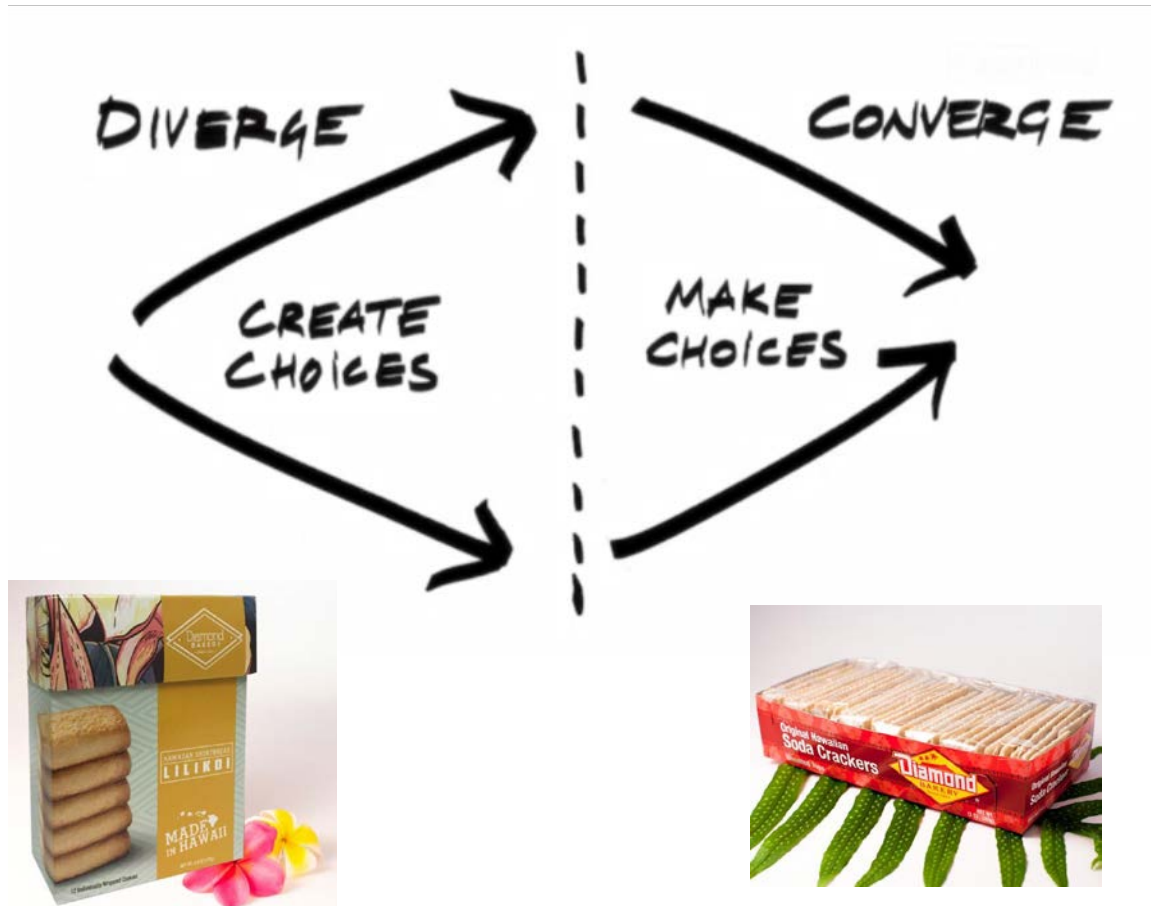
Experimentation

Problem Finding

Discovery

Startups

New Products



Value Capture

Execution

Exploitation

Problem Solving

Validation

Mature Organization

More of the same

Kodak

SALE • SALE • SALE

CONTAINS 36 EXPOSURES / CONTIENE 36 ESPOSURE / CONTIENE 36 ESPOSURE

24  
200

Kodak

24 EXP.  
200

ColorPlus

FILM • FILME  
PELÍCULA PARA FOTOS A COLOR  
ฟิล์มสี Kodak ColorPlus









est. **\$10B rev. 2015**

launched 2010

40K new drivers per month

Uber doesn't own any cars!

Google



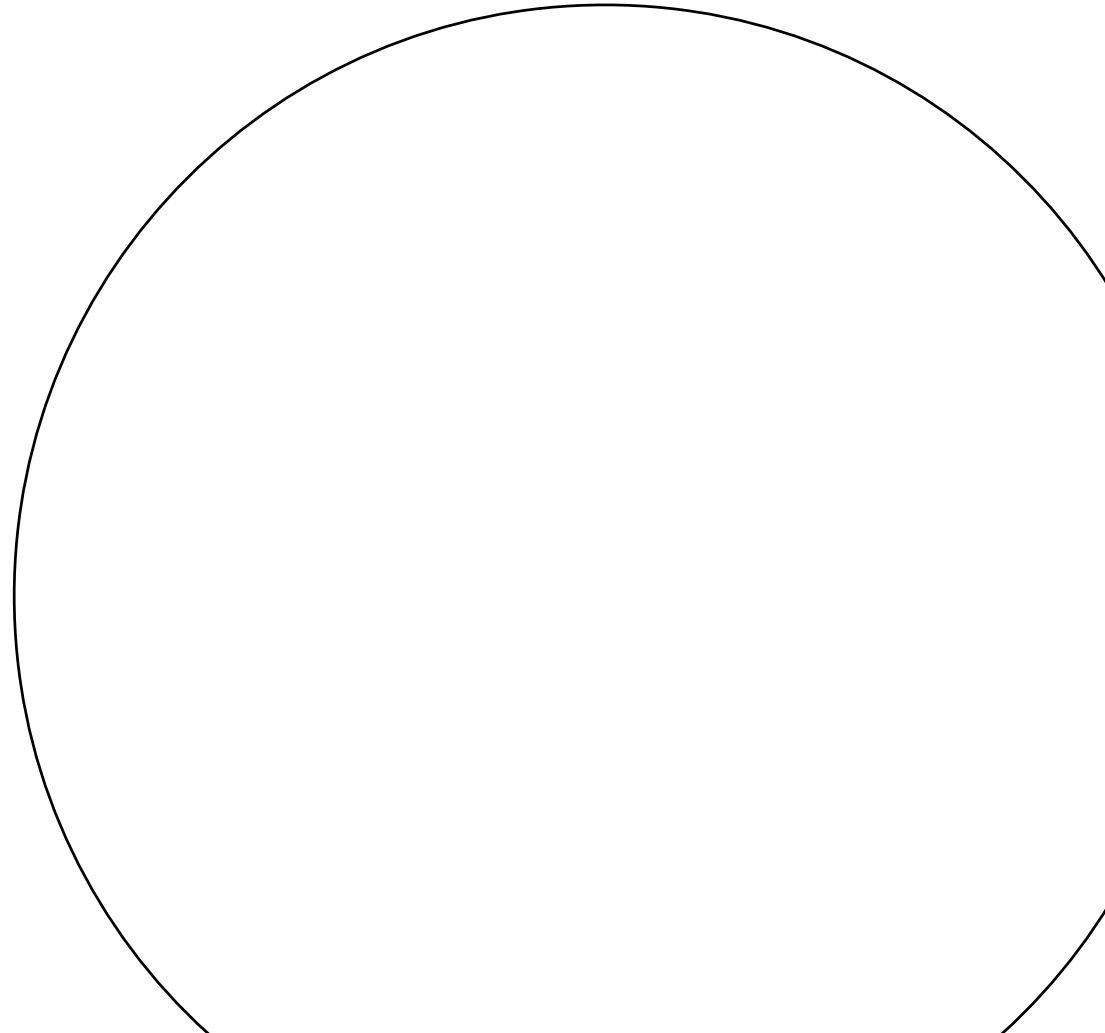
# 5 Ways to Transform Your World

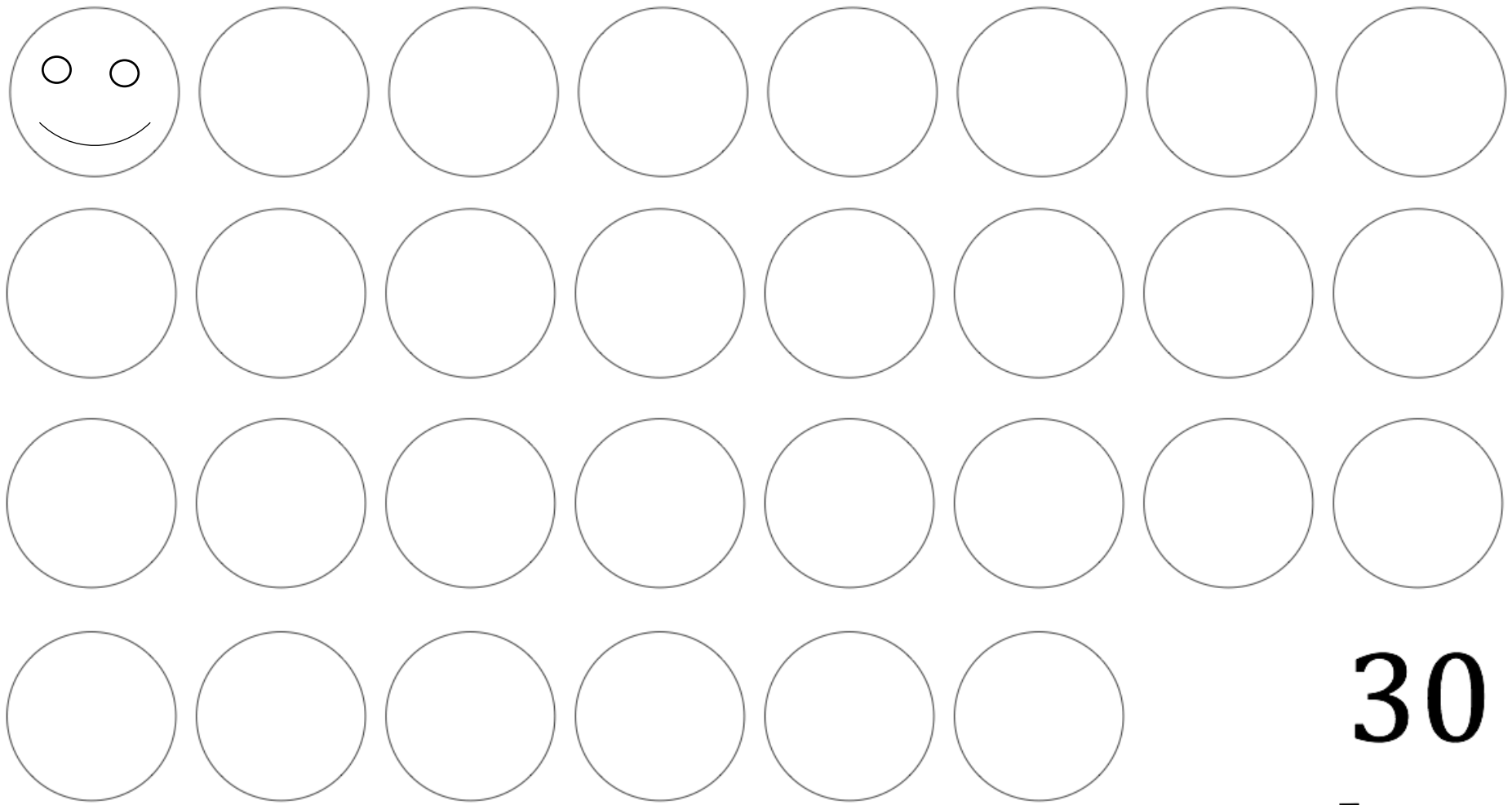
using Design Thinking

# 5 Ways to Transform Your World

1. Be aware of your mindset...how to think OTB
2. Change your questions to be human-centered
3. Ladder up to the higher need
4. Stay focused on user needs (value you create) vs. technology (how you delivery that value)
5. Learn from your extreme users...they amplify hidden needs

30 Circles





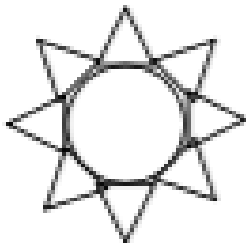
**30**

**Circles**

I'm going to give you minute, and I want you to adapt as many of those circles as you can into recognizable objects of some form

# 30 Circles

Category #1 - outside



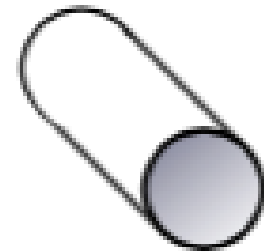
Category #2 - two circles



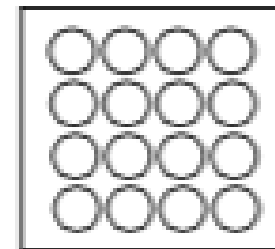
Category #3 - multiple circles



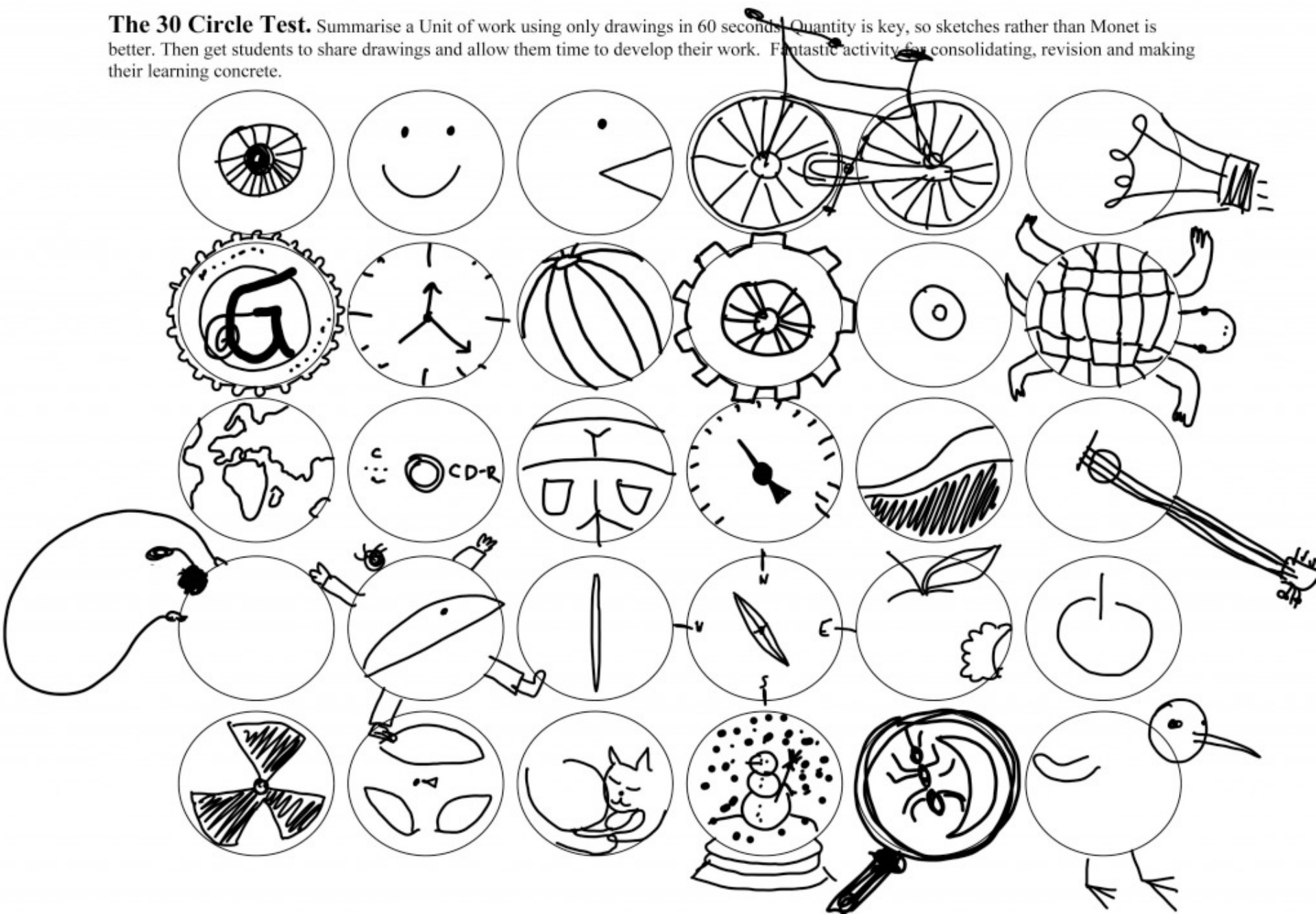
Category #4 - solid objects



Category #5 - the circle as a texture



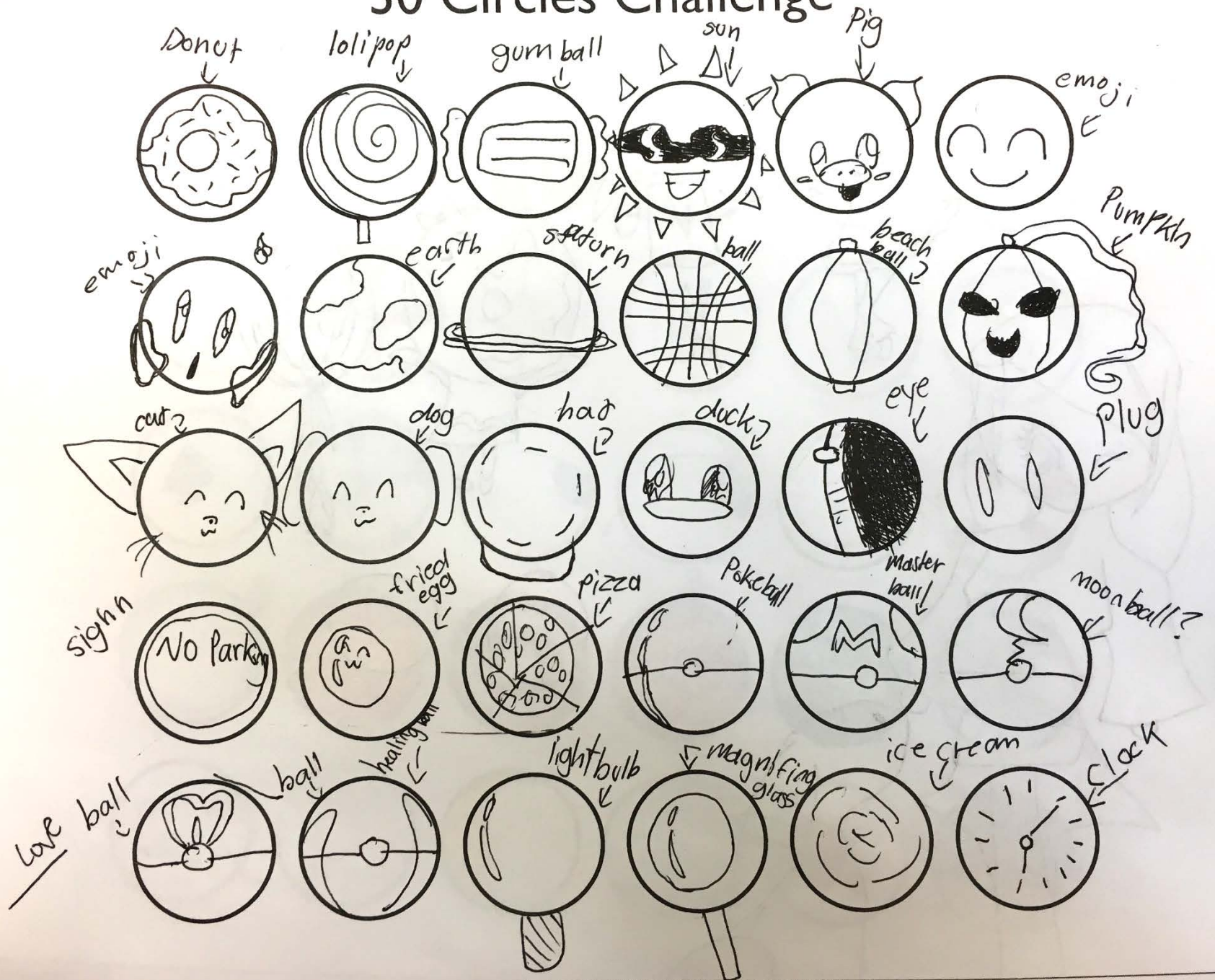
**The 30 Circle Test.** Summarise a Unit of work using only drawings in 60 seconds. Quantity is key, so sketches rather than Monet is better. Then get students to share drawings and allow them time to develop their work. Fantastic activity for consolidating, revision and making their learning concrete.





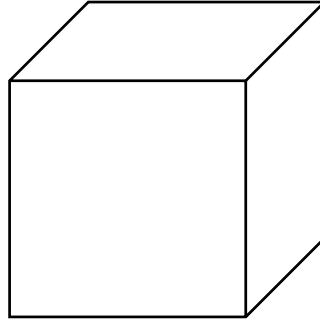
Stacey

# 30 Circles Challenge



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1. Be aware of your mindset



“If I had asked my customers what they wanted, they would have told me a faster horse.” - Henry Ford





Google

self-driving car

California  
6UEJ089

?

2. Change your questions to be human-centered



# Redesign the Motorcycle Helmet





SHARK



Redesign  
based on  
user needs

She's  
wearing a  
helmet



# Redefining the Helmet



# Redesign the Motorcycle Helmet





3. Ladder up to the higher  
need





4. Stay focused on user needs vs. technologies



# What's the real need? Why did they fail?

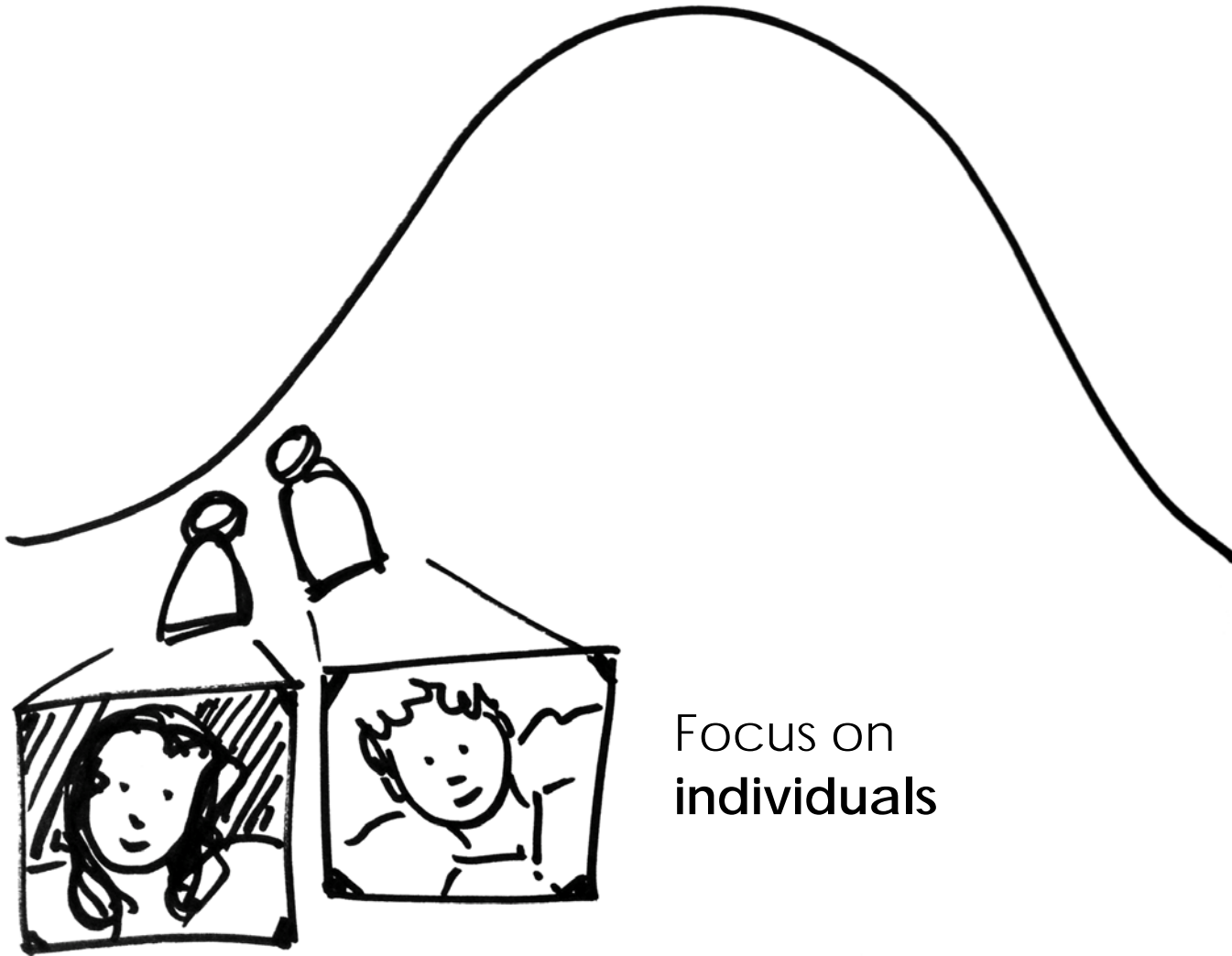


CUTTING ICE AT MOUNDSVILLE, WEST VIRGINIA, CIRCA 1900. - SOURCE: CHURCH OF GOD ARCHIVES, ANDERSON UNIVERSITY, ANDERSON, INDIANA.





5. Learn from your extreme users...they amplify hidden needs



especially **extreme users**











OXO Good Grips

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***Thank you !***

For more information

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