

#### INNOVATION@AIRPORTS

January 15 - 16, 2019 San Diego, CA



People say Design Thinking is...

# STRATEGIC





People say Design Thinking is...

# IMPORTANI





People say Design Thinking is a...

# COMPETITIVE ADVANTAGE





People say Design Thinking...

# WORKS!





People say Design Thinking is...

# CONFUSING





People say Design Thinking is...

# MISUSED





People say Design Thinking is a...

# BUZZ WORD





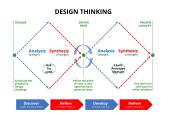
# AGREE.





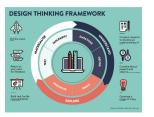


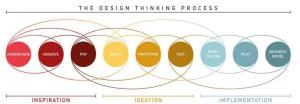


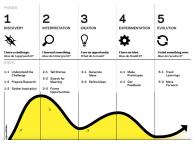




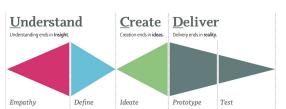




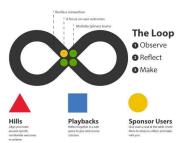










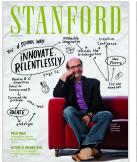




































# 89 ARTICLES, BLOG POSTS, CASE STUDIES





So, WTF is...

# DESIGN THINKING?



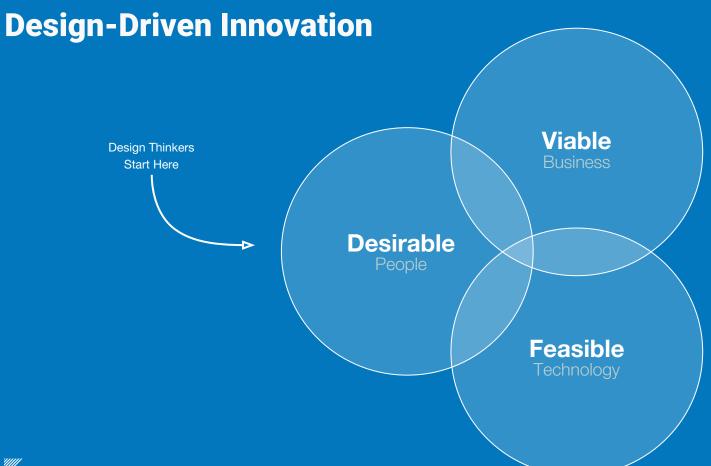


Design Thinking is...

a human-centered innovation approach that emphasizes observation, collaboration, fast learning, visualization of ideas, rapid concept prototyping and business analysis.











Design Thinking is...

# CREATIVE SOLVING



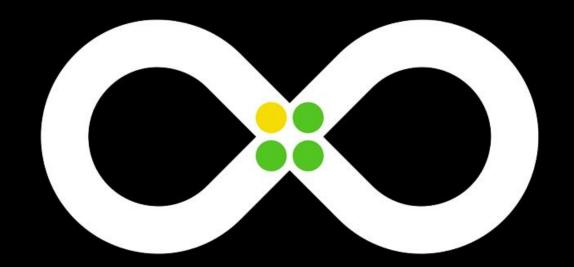


Design Thinking is...

- 1. a mindset (people-centered approach)
- 2. a collection of tools & methods
- 3. a process (flexible, repeatable)







#### **IBM Design Thinking**

Human-centered outcomes at speed and scale





# Let's think together.



Smarter teams, better ideas, and happier users.

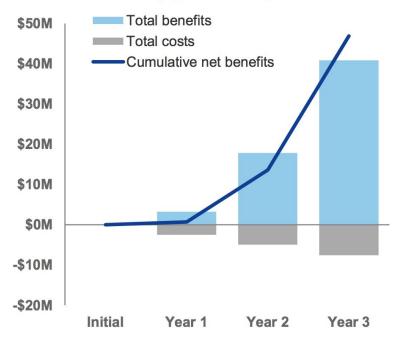




#### IBM Design Thinking...



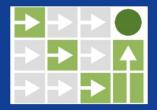
#### Financial Summary (Three-Year)







#### IBM Design Thinking...



IBM's Design Thinking practice cuts costs by accelerating projects:

\$20.6 million



IBM's Design Thinking practice reduces risk and increases portfolio profitability:

\$18.6 million



**2x** Faster time-to-market

**75%**Reduced design time

**33%**Reduced development time





An innovation process must deliver three things:

- 1) Superior solutions
- 2) Lower risks & costs of change
- 3) Employee buy-in





The Design Thinking...

### PROCESS



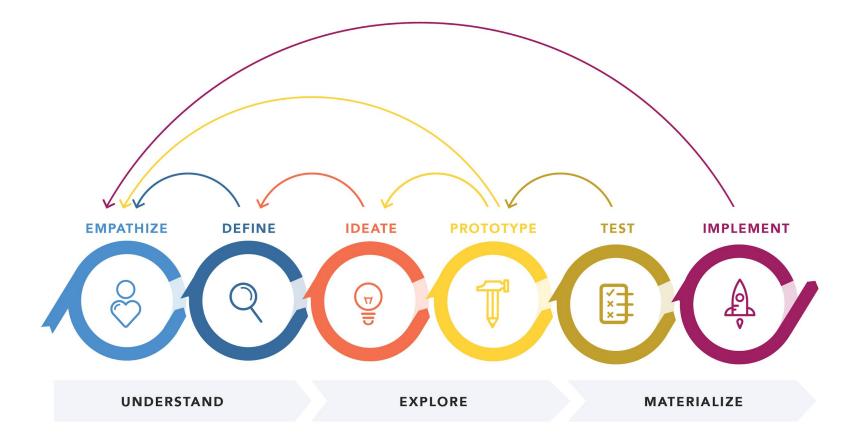


"If I had an hour to solve a problem I'd spend 55 minutes thinking about the problem and 5 minutes thinking about solutions."

- Albert Einstein













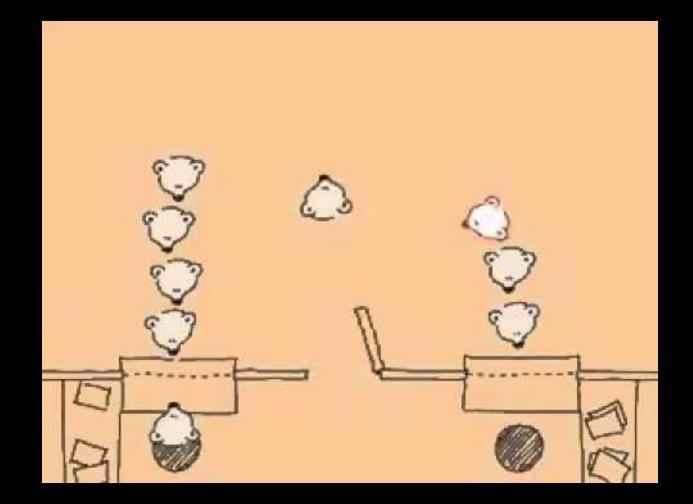
**Understand** + Explore + Materialize

# EMPATHIZE

Conduct research to develop an understanding of your users.









### **EMPATHY** is defined as feeling with someone.























Spotify...

#### BY THE NUMBERS

Established: 2006 (Launched 2008)

Employees: 4,000+ (18 locations)

Users: 200 million (87 million paying)

**Revenue:** \$4.6 billion (FY 2017)







**Understand** + Explore + Materialize

## DEFINE

Compile all your research to observe where the problems are.







- Don Norman

Government Agencies

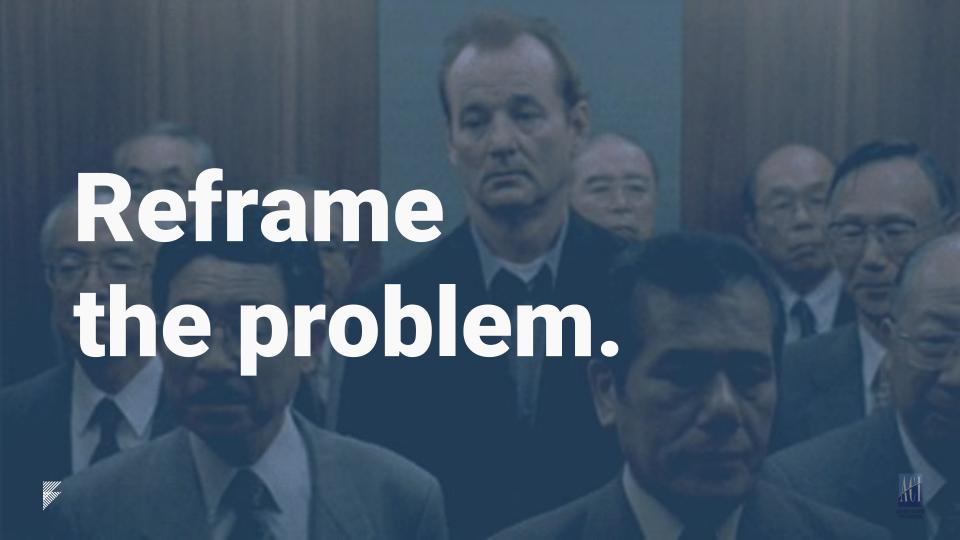
> Ground Handling Service Providers

Ground Transportation















# PROBLEM FRAMING

"The elevator is too slow."





# **PROBLEM FRAMING**

"The elevator is too slow."

**SOLUTION FINDING** 

# **SOLUTION SPACE**

"Make the elevator faster."

Install a new lift
Upgrade the motor
Improve the algorithm

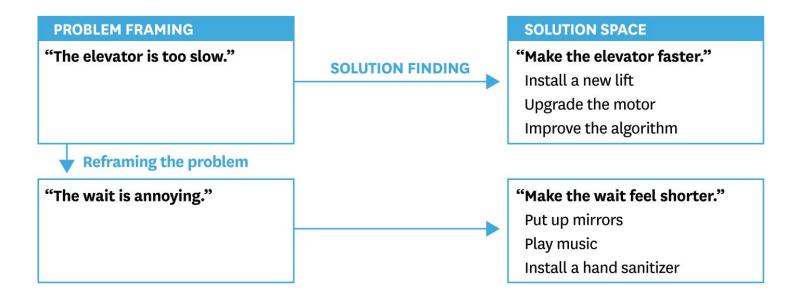




# "The elevator is too slow." SOLUTION FINDING SOLUTION SPACE "Make the elevator faster." Install a new lift Upgrade the motor Improve the algorithm "The wait is annoying."













# QUICK EXPERIMENT



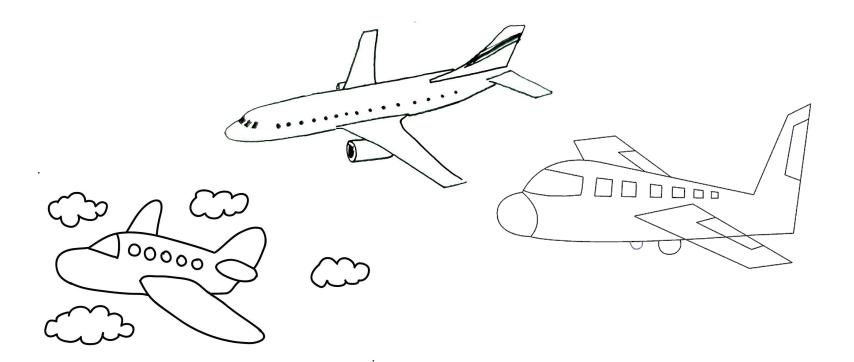


30 Seconds...

# Draw an airplane.











How might we...

# reimagine a better way for people to experience air travel?







Understand + **Explore** + Materialize

# DEATE

Generate a range of crazy, creative ideas.











- 1. Defer judgement
- 2. Encourage wild ideas
- 3. Build on the ideas of others
- 4. Stay focused on the topic
- 5. One conversation at a time
- 6. Be visual
- 7. Go for quantity









Understand + **Explore** + Materialize

# PROTOTYPE

Build real, tactile representations for a range of your ideas.

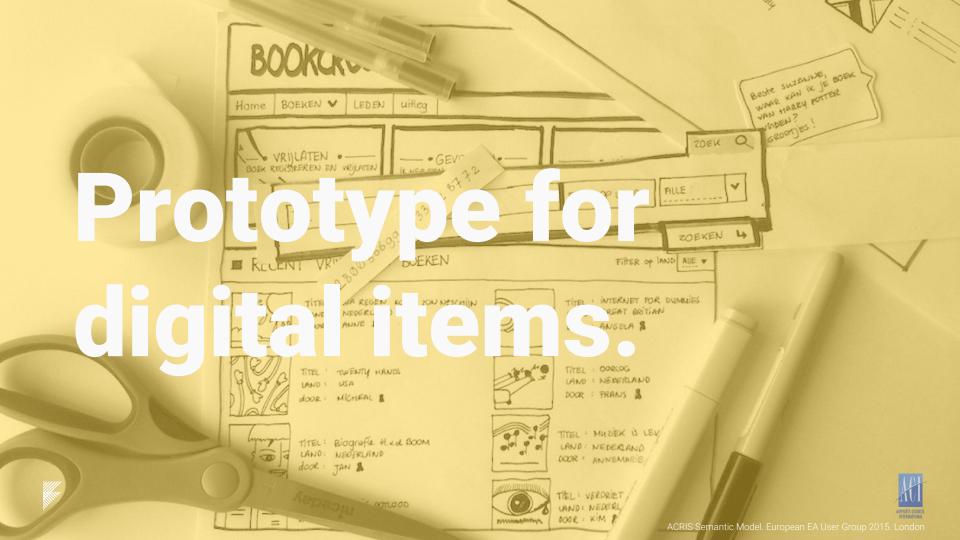


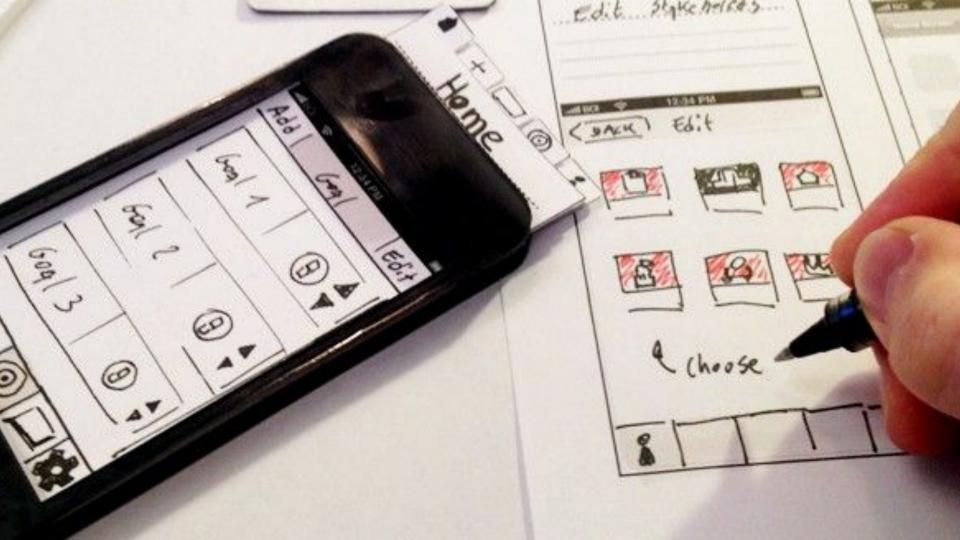




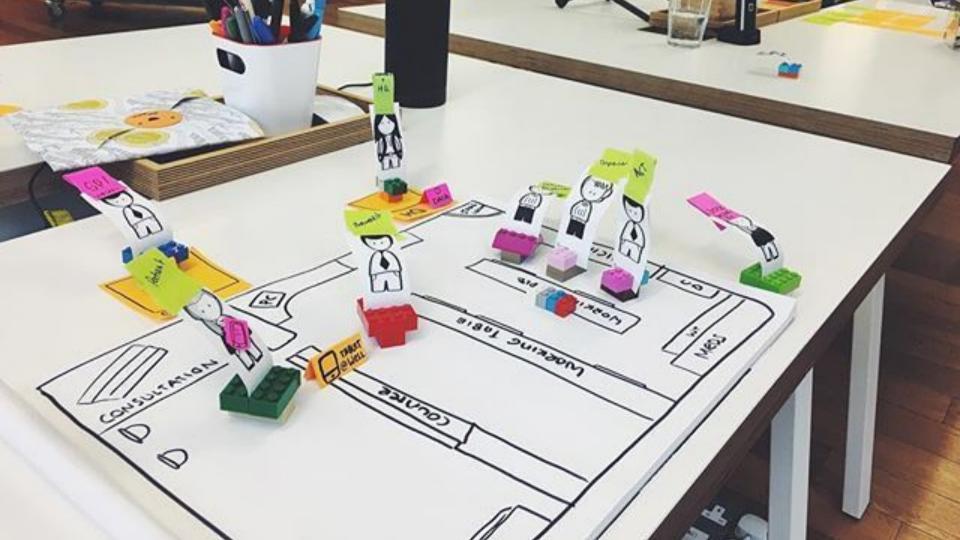


















# TEST

Return to your users for feedback.







# No idea is a bad idea.



Understand + Explore + Materialize

# IMPLEMENT

Put the vision into effect.







# (Re)designing Baggage Claim



Lisa arrives at her destination. As she waits for the plane to taxi, she gets a text message letting her know where and when her

avelers around her calmly step up to the carousel only when



gets a text saying that her bag is about to come out.

sily when she is at Baggage Claim



# **FEATURES & OPPORTUNITIES**

# Trackable RFID bag tags are printed with colorful

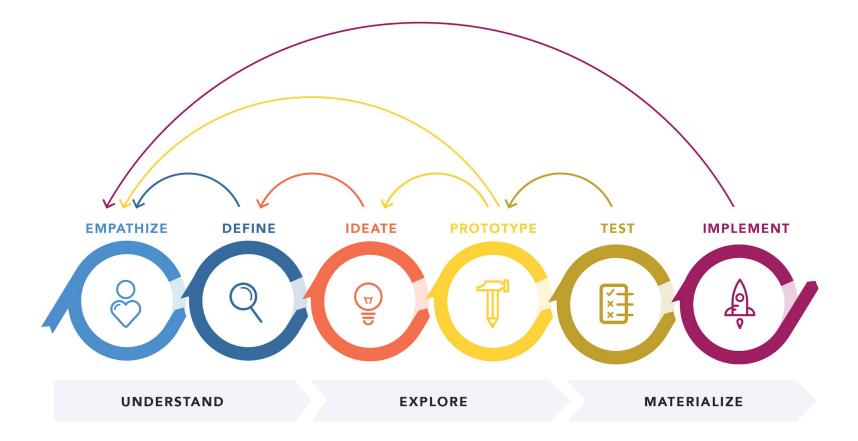
# update:////ut bag location

# "Bag Cam" gives a peek of baggage journey



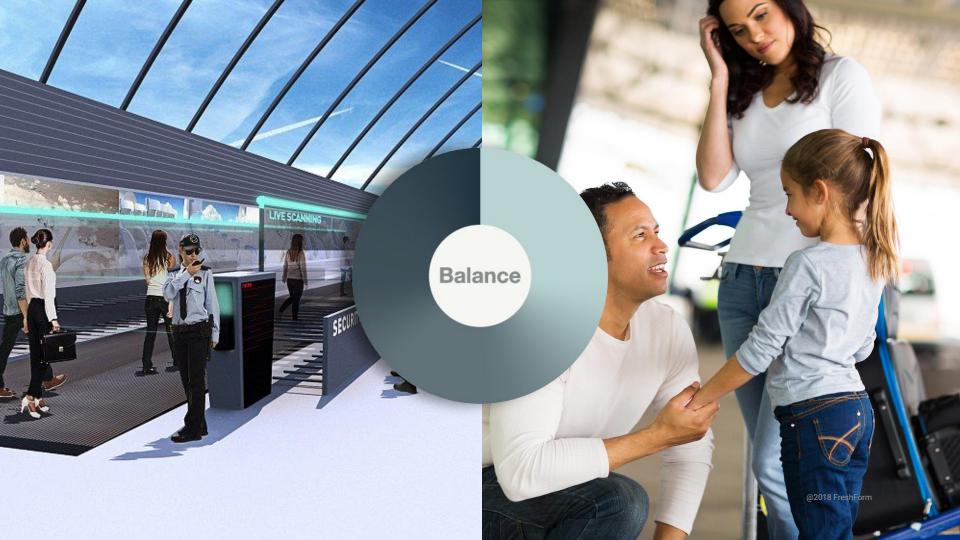


















Design Thinking is...

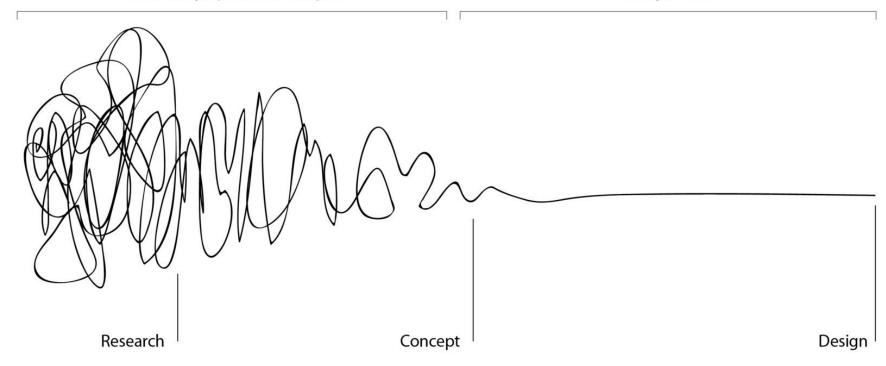
- 1. a mindset (people-centered approach)
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### Uncertainty / patterns / insights

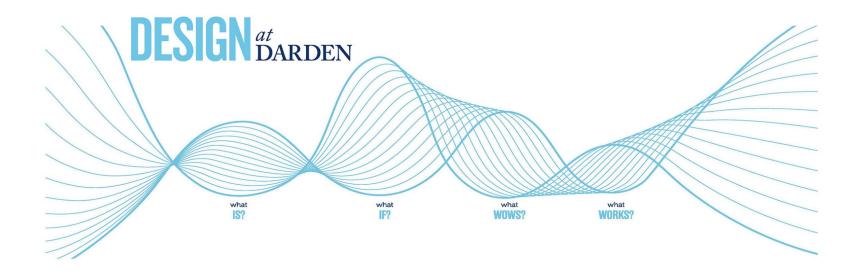
### Clarity / Focus







# **EXPLORING THE IMPACT OF DESIGN THINKING IN ACTION**







Design Thinking provides an Impact on Innovation Outcomes by...

- 1. Produces higher quality solutions.
- 2. Reduces the risk/visibility of failure.
- 3. Improves likelihood of implementation.
- 4. Improves adaptability.
- 5. Creates local capability sets.

















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# FreshForm.

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