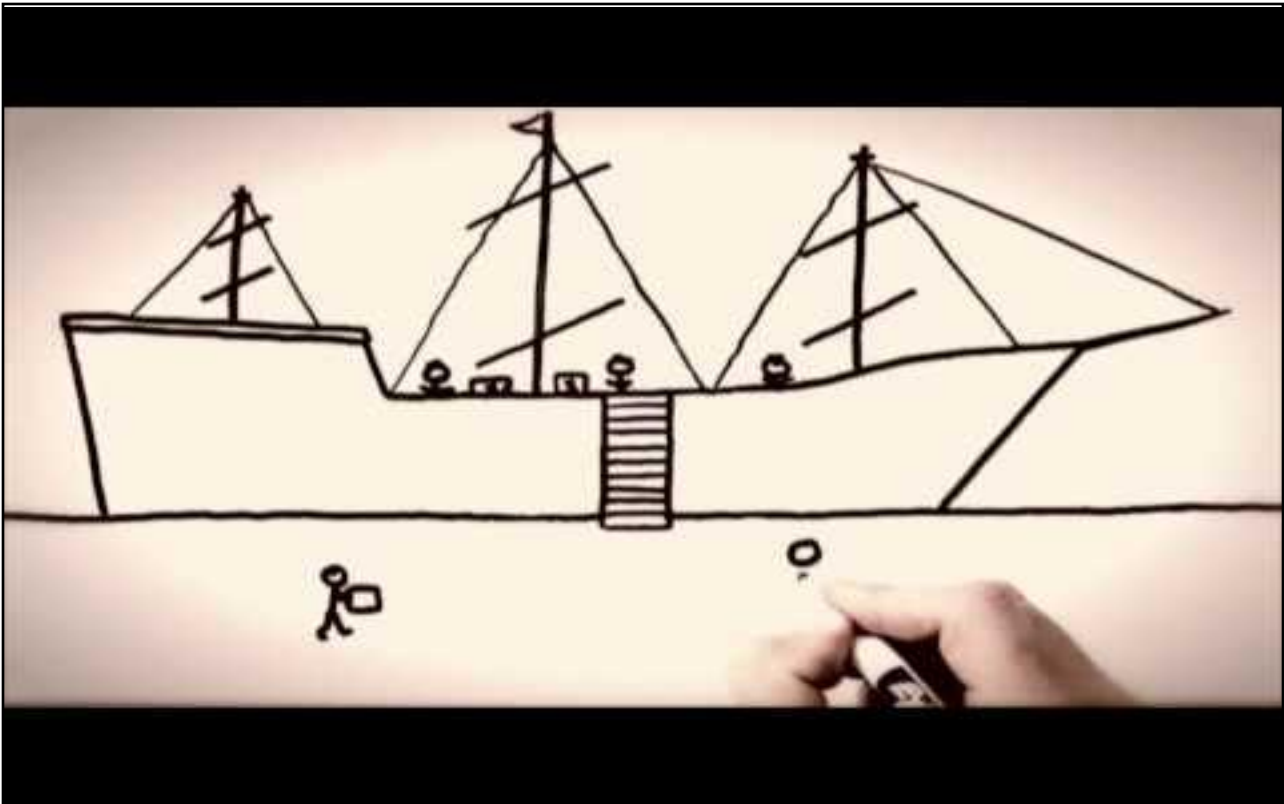


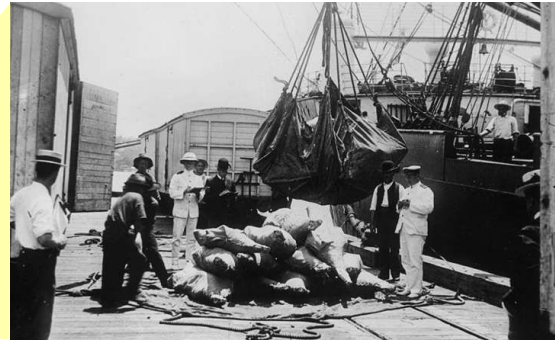


# Design for Innovation In the Maritime industry

Klaipeda - Lithuania 26th - 27th September

Day one

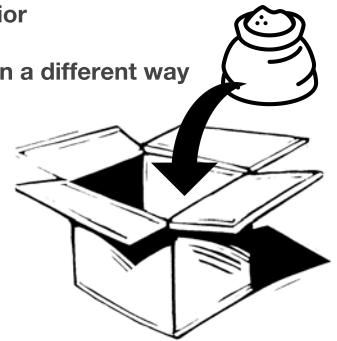




Putting himself in the situation of the end-user

Observed user behavior

Framed the problem in a different way



**We have codified this way of thinking  
and we are going to share it with you  
today.**

**It is called Design Thinking**

FULL DESIGN INNOVATION CYCLE



## Day 1

Introductions  
What is Design Design thinking?  
Identifying a stakeholder and challenge to focus on  
User research  
Problem definition  
Brainstorming  
Idea Proposal

## Day 2

Wrapping idea in a business model  
Expanding the innovation opportunity  
Identifying the assumptions  
Validating through experiments



**Trevor Vaughn**

Faculty Maynooth University / Strategic designer



Programme Director MSc Design  
Innovation

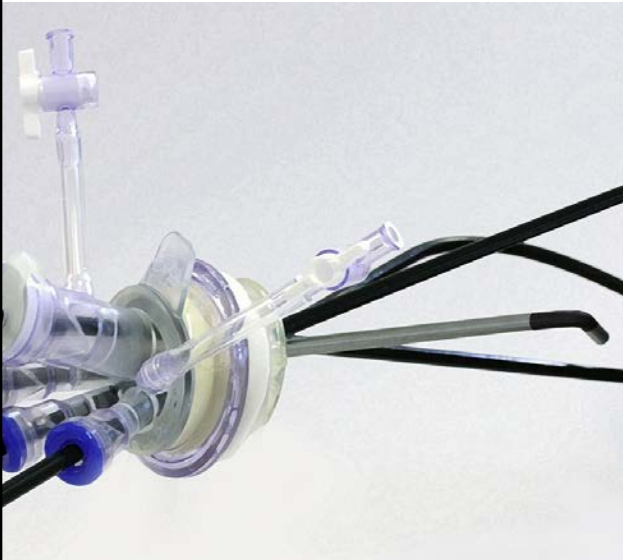


12 years medical device innovation  
50 granted and pending patents  
4 radical, 2 disruptive products on the market  
Cleveland clinic's top 10 innovations 2009



Partner at Actionable Innovation  
**Clients:** Vhi, Musgraves, IDA, Openet,  
Ovacare, Irish Times, AIB

# World-first surgical devices



LESS SURGERY- Top 10 innovations 2009



FDA lifted ban on procedure  
Procedure Cost savings of approx \$10k Fewer perioperative complications



**Martin Ryan**

Faculty Maynooth University / Design Entrepreneur



Programme director BSc Product design at Maynooth University



Inventor and director of BUA Saddles  
Multi-Award winner: Dyson design award, ISPO sports design award, IDI, JEC composites award, Dupont 40/40



Partner at Actionable Innovation  
**Clients:** Vhi, Musgraves, IDA, Openet, Ovacare, Irish Times, AIB

# The biggest advance in saddles since...saddles



**bua**  
SPORT



**dyson**



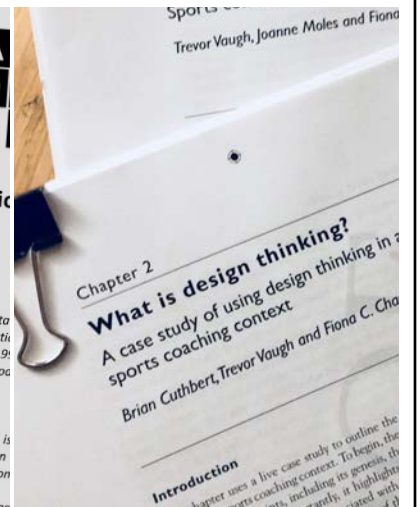
## Research to Action

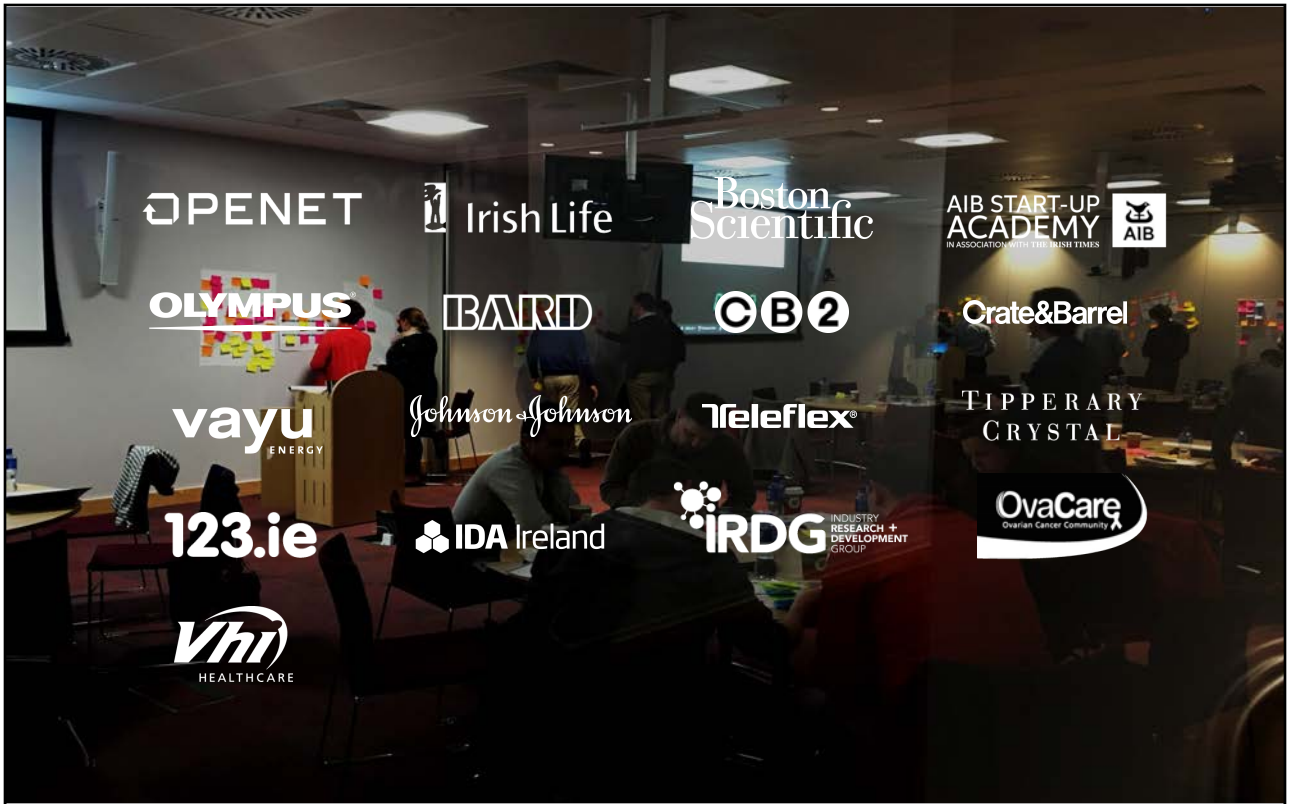


Academic Design Management Conference  
19th DMI: Academic Design Management Conference  
Design Management in an Era of Disruption  
London, 2-4 September 2014

**An Investigation into Design Thinking Behaviours in Early Stage Radical Innovation**  
Martin P. RYAN<sup>a</sup> and Frank DEVITT<sup>b</sup>  
<sup>a</sup> National University of Ireland, Maynooth 'a'; <sup>b</sup> National University of Ireland, Maynooth 'b'

The early stage of radical innovation is characterised by uncertainty, data overload and often high rates of change. Schumpeter's 'creative destruction' view of innovation is now exacerbated by 'hypercompetition' (D'Aveni, 1995), a theory that describes the increasing rate and intensity of change in modern markets. In the design and strategy literature, design thinking is often positioned as an appropriate mediator of radical innovation in these circumstances, by facilitating interpretation of market uncertainties and moderating organisational behaviours. At its inception radical innovation is determined largely by the cognitive behaviour of the actors involved, often semi-consciously. In this study we set out to distinguish design thinking from analytical thinking and investigate the suitability of both for the effective design thinking literature mostly investigated concepts. Additionally, whereas





Over the next 1.5 days we are going to challenge you to re-imagine and improve **A service, product or process important to your organisation**

You will use an approach called Design Thinking

## A design Design Thinking approach

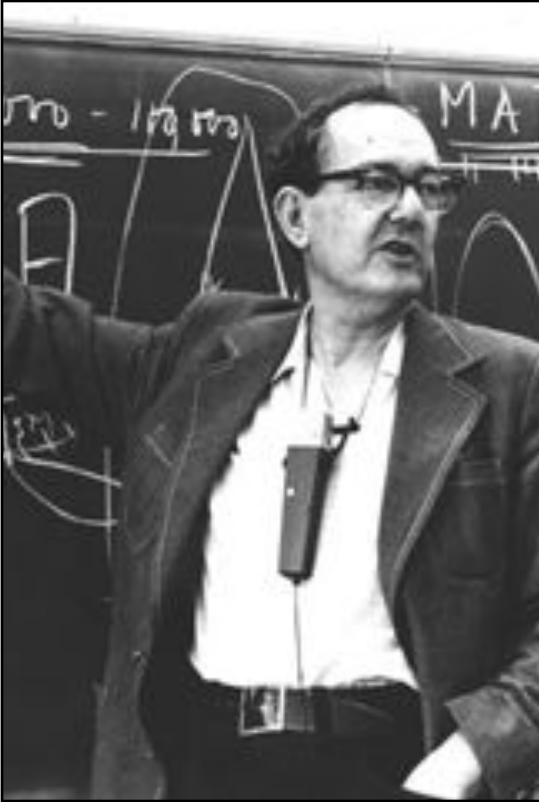
“a human-centered approach to innovation that draws from the designer's toolkit to integrate the needs of people, the possibilities of technology, and the requirements for business success”

— *Tim Brown, CEO of IDEO*



For the maritime industry, the next generation of naval architects and marine systems engineers must be like the next generation of aerospace or automotive innovators: **capable of engineering, design thinking and, most importantly, they must have a convergent mindset.**

**Christopher J. Wiernicki**  
Chairman, President, and CEO of  
American Bureau of Shipping,



**“To design is to devise courses of action aimed at changing **existing situations into preferred ones**”**

**Herbert Simon**  
Two times Nobel laureate



“design thinking” and “human-centered design” methodologies **are driving how the Coast Guard leads innovation.**

They play a critical role in designing challenges and prototyping potential solutions generated by the workforce.

It’s about **supporting the Coastie with the idea**, and how we couple our strategic needs with the Coast Guard men and women that have the talent and knowledge to help us design solutions that **get us from our current state to our desired state.**”

**Bert Macesker**  
Executive Director  
US Coast Guard Research & Development Center



90%

of new  
companies fail

70%

of innovation &  
Intrapreneurship efforts fail

99%

of app's lose money

**Turbulent times!**

95%

of new consumer  
products fail

25%

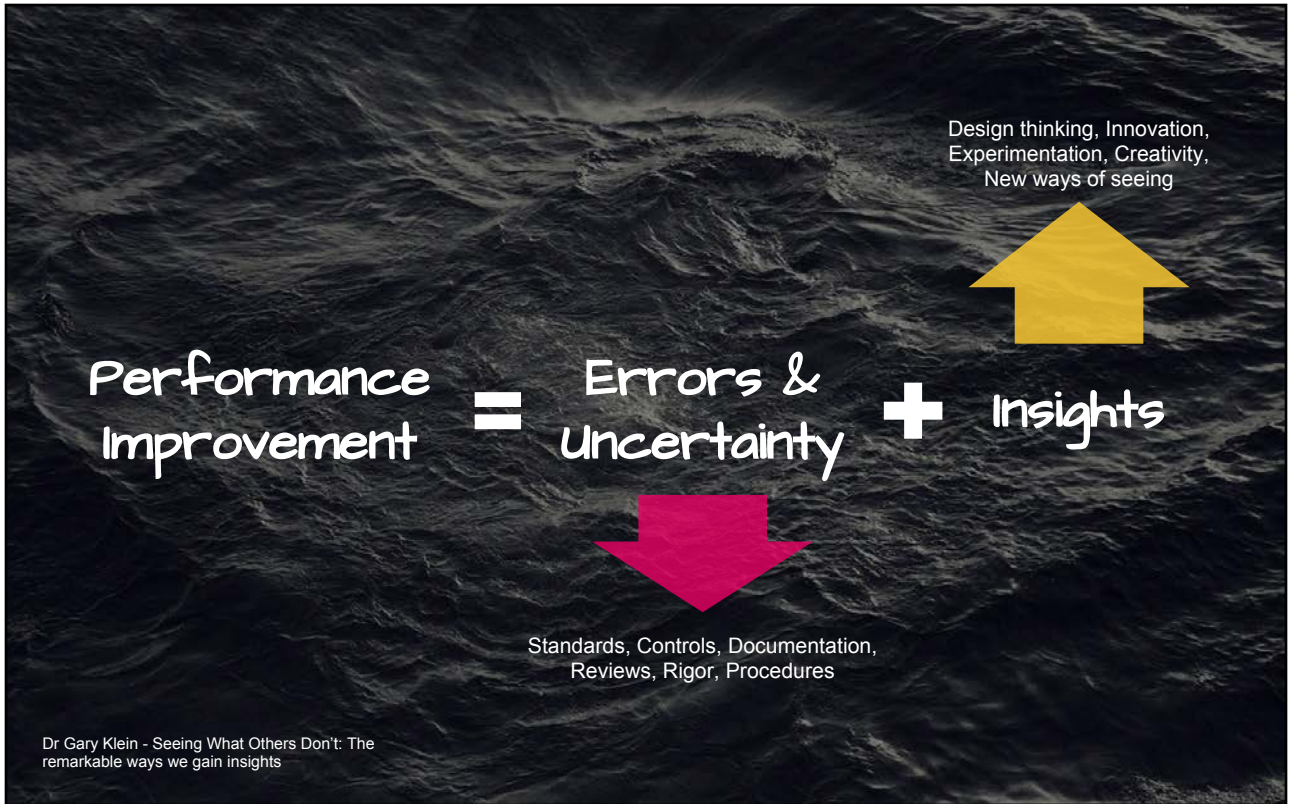
of employees feel they  
are living up to their  
creative potential

77%

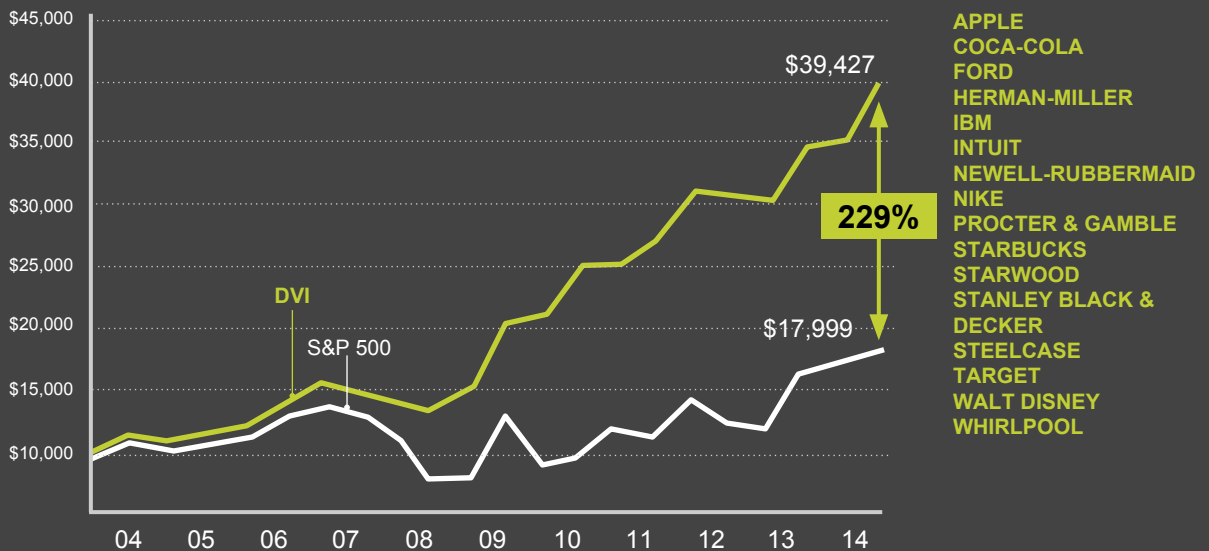
77% of CEOs struggle to  
find creativity and  
innovation skills

“The marine industry faces **major challenges**, and we must confront old mindsets to be able to solve these challenges optimally. **We need to think afresh, find new methods, and welcome input and knowledge from other disciplines and industries.**

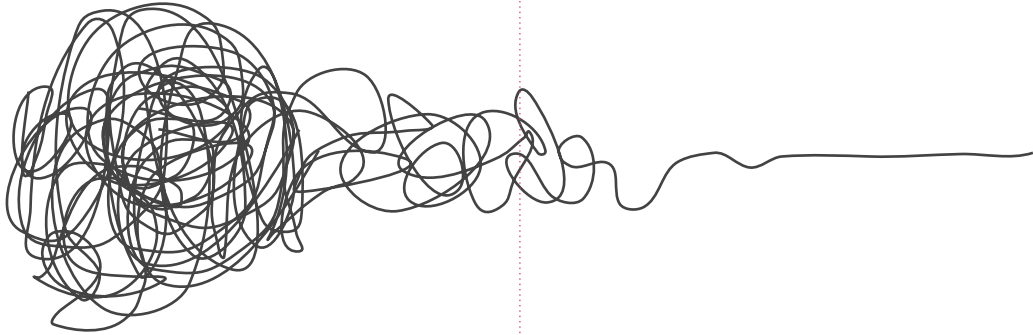
Tor Eirik Homme  
Director of Grieg Seafood ASA



## Design driven companies outperform s&P 500 by 219%



Start



**Ambiguous = Hard**

**Clarity = Easier**



© Trevor Vaugh / Actionable Innovation 2018



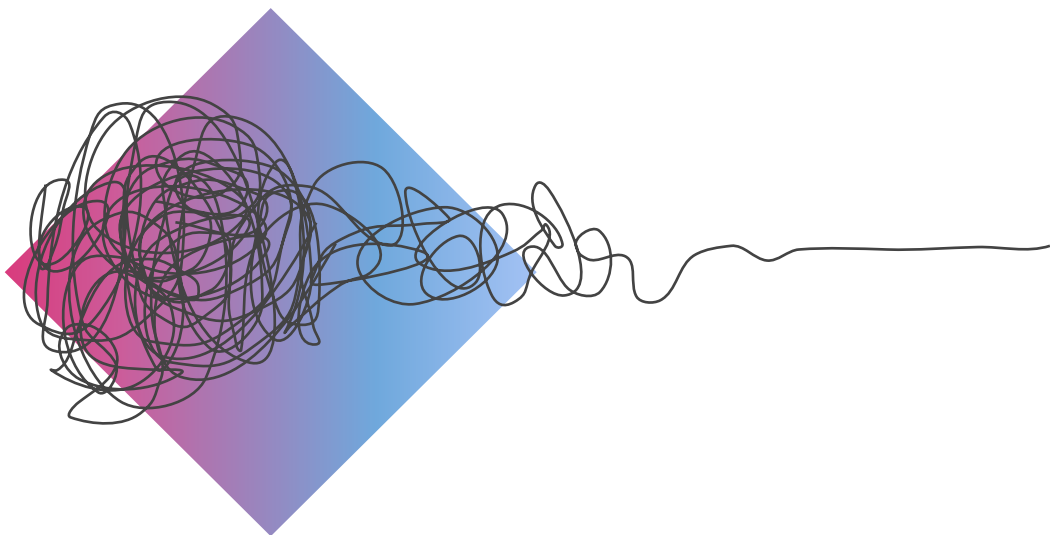
## Problem Space

Getting the right project

## Solution Space

Getting the project right

Start



End of the beginning

Scenario

# A design challenge

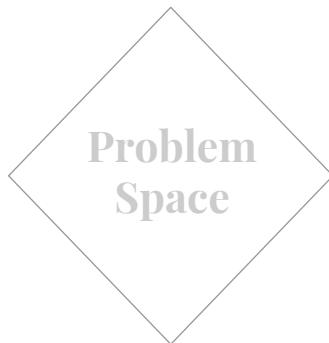
Each year, more than 1 million babies die on the day they are born. 98% of these deaths occur in the developing world



Your challenge - design a low cost incubator. 1% of standard cost for use in countries such as Nepal. **Under €250**



Value engineering?  
Cheaper components?  
Better process  
Cost cutting?  
Funding?  
Sponsorship?

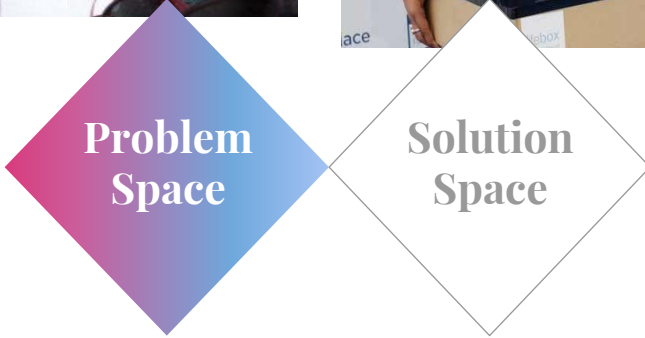


Discover

Define

Develop

Deliver



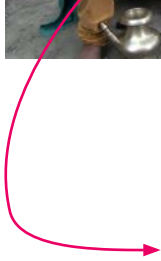
Discover

Define

Develop

Deliver





Discover

Define

Develop

Deliver

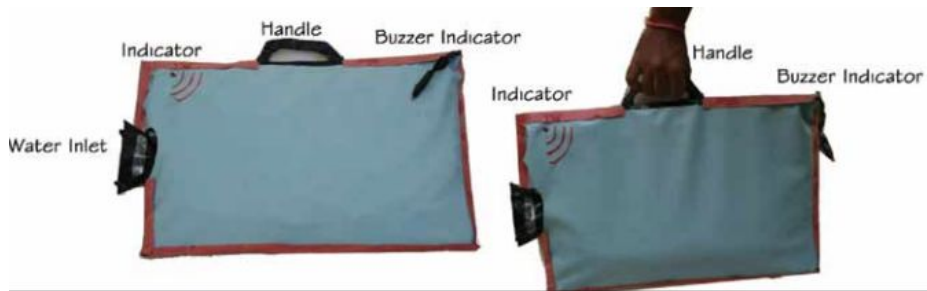


Fig 132: Prototype of a hand held whoopie/ hot water bottle

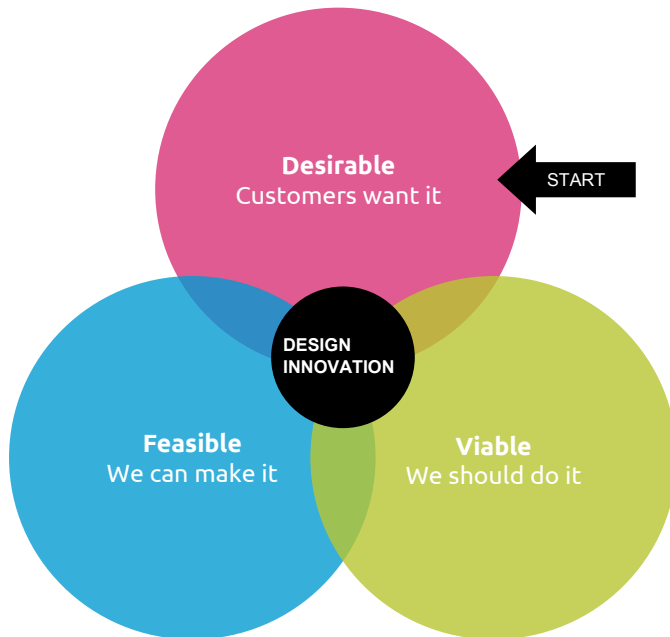


Fig 133: Testing with existing hot water bottles



Fig 134: Checking pcm temperature







**95%** of innovation initiatives fail  
**90%** of new products fail  
**72%** CEO's say they're not out-innovating competitors

Start

**Problem Space**  
Getting the right project

**Solution Space**  
Getting the project right

End of the beginning



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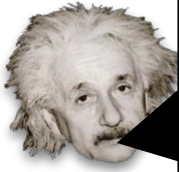


**Bloomberg  
Technology**



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“If I had only one hour to save the world, I would spend fifty-five minutes defining the problem, and only five minutes finding the solution

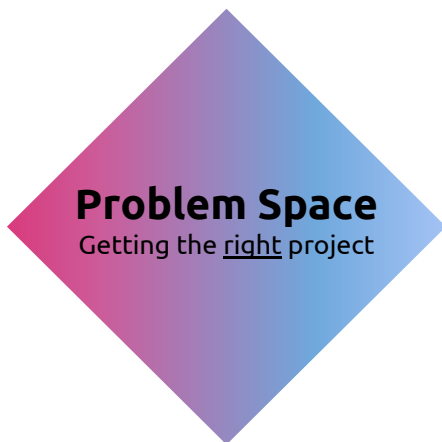
**Problem Space**  
Getting the right project

**Solution Space**  
Getting the project right

End of the beginning



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## Think about your organisation.....

**Do you really understand the problem or are you making big assumptions?**

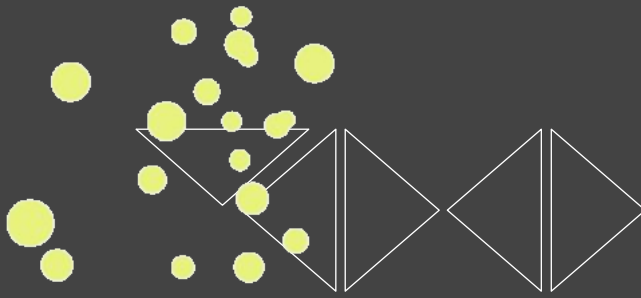
**Who do you need to better understand to get to the root cause?**

**What is the origin of this problem?**



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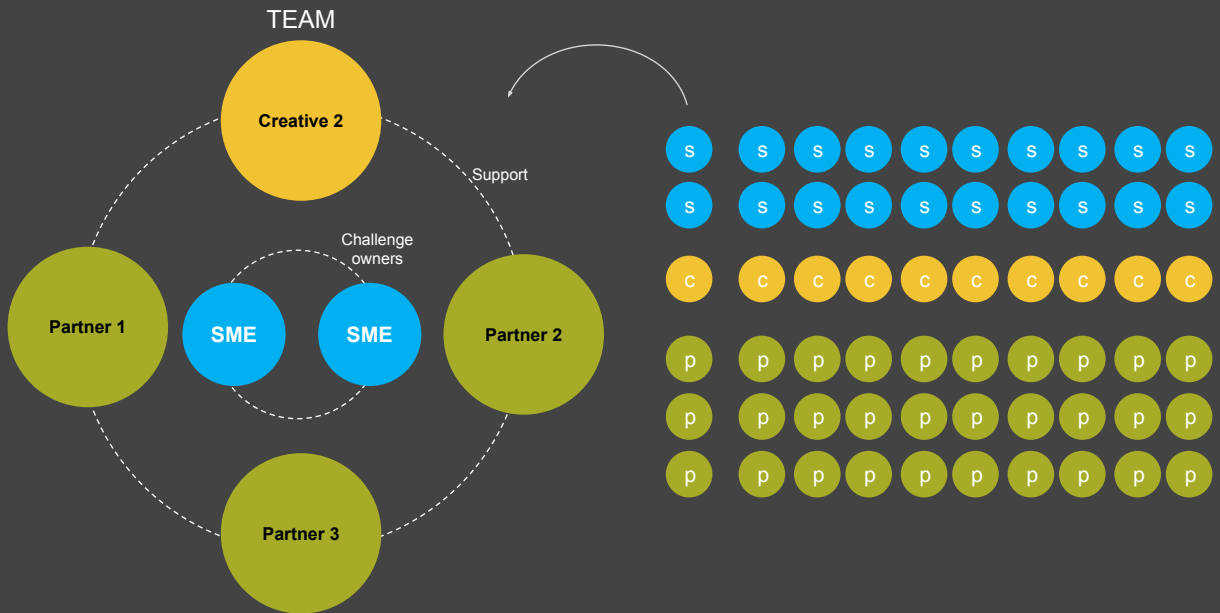


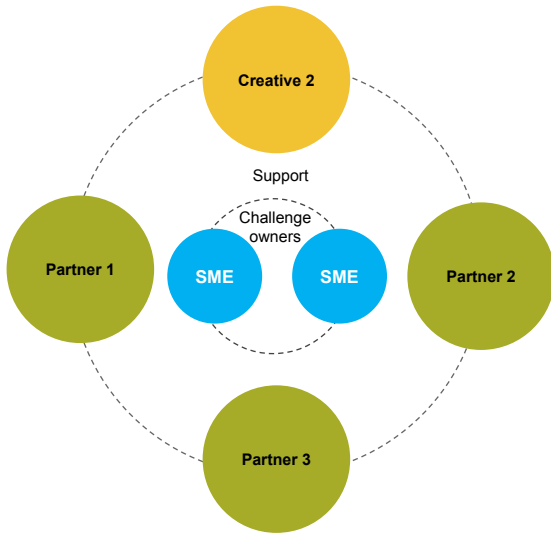
# Project team

actionable  
Insight-led innovation, strategy & change

## 20x SME 10x Creative 30x Partner

(interdisciplinary, representing academia, science parks and policy makers)





**10 groups of 6**

**2 x SME**

**1 x Creative**

**3 x Partner**

**5:00**  
Stop



**Understand**

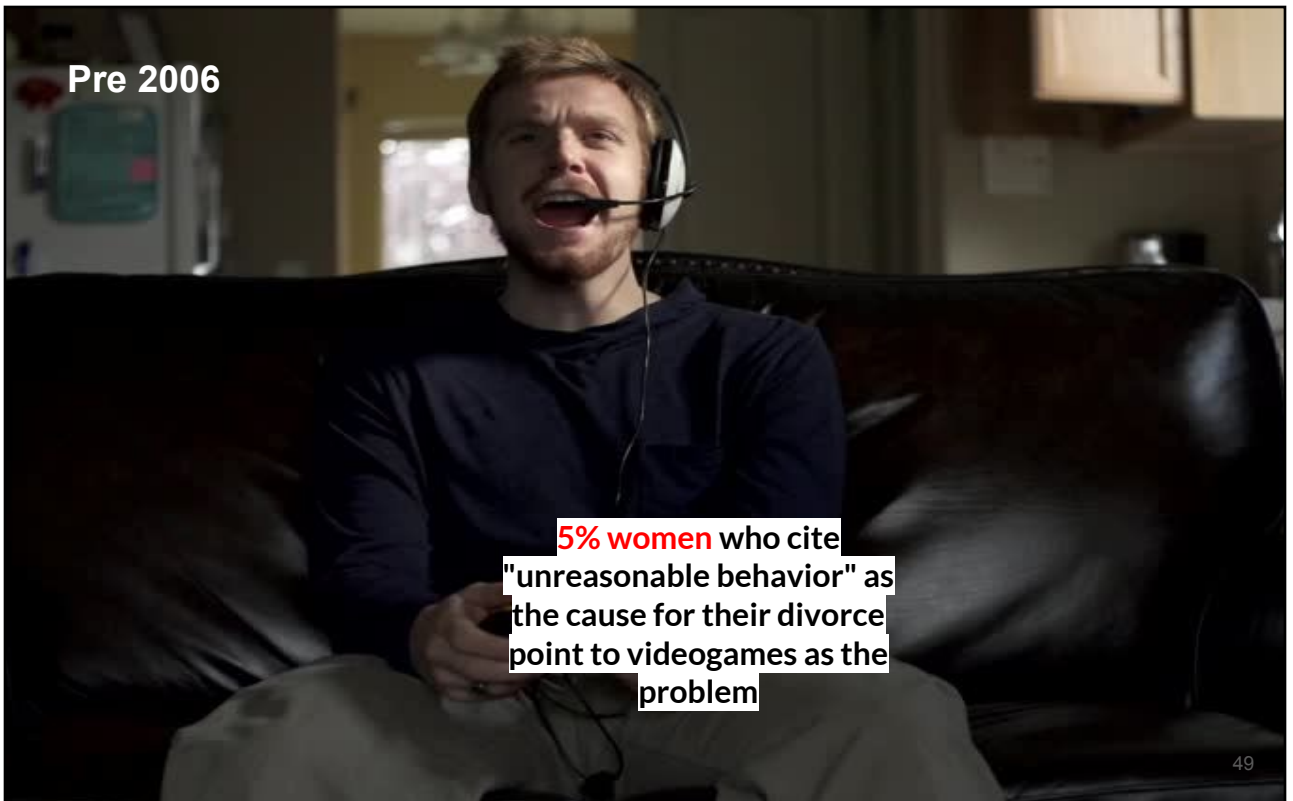
Where to play?

**actionable**  
insight-led innovation, strategy & change



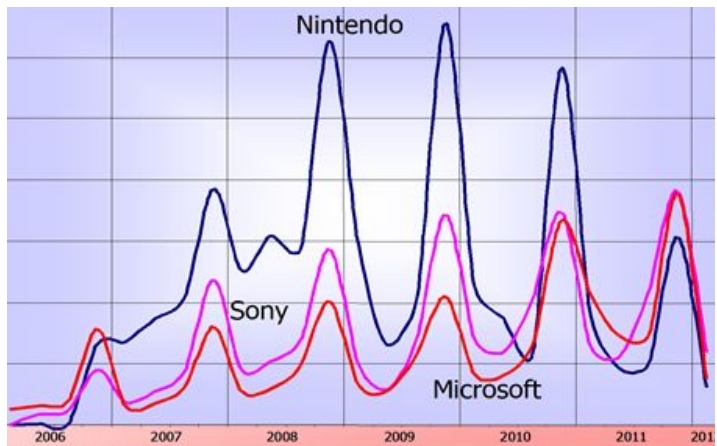
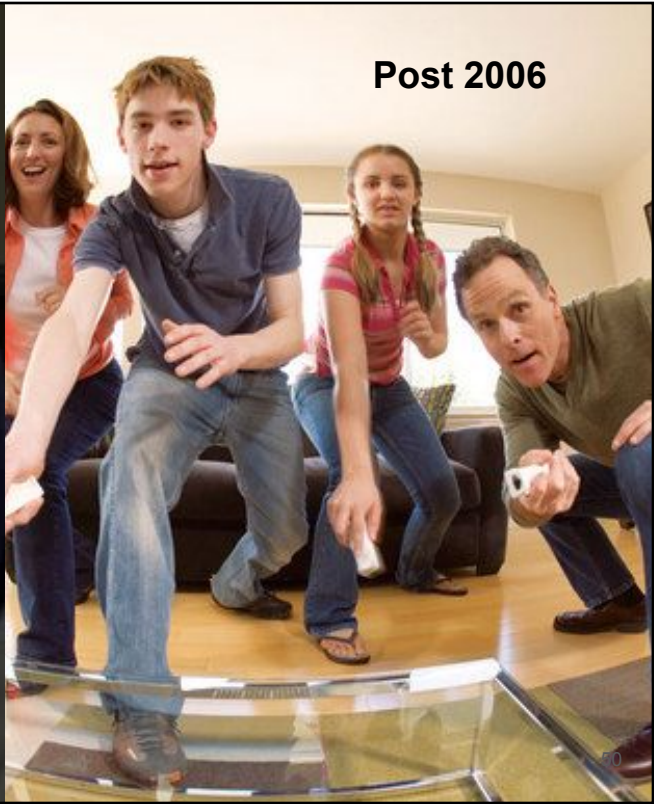
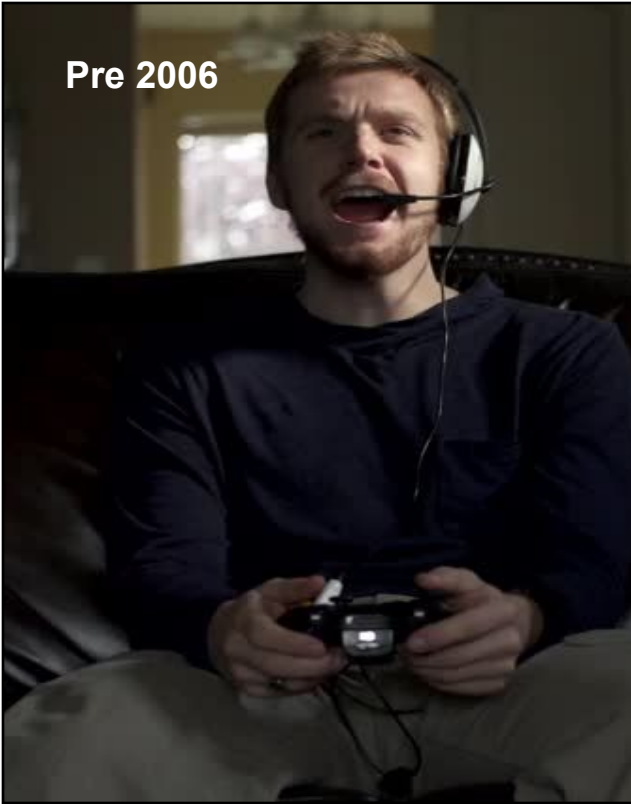
Satoru Iwata - President of Nintendo 2002 - 2015

**"We're not thinking about fighting Sony, but about how many people we can get to play games"**



**Pre 2006**

**5% women** who cite  
**"unreasonable behavior"** as  
the cause for their divorce  
point to videogames as the  
problem



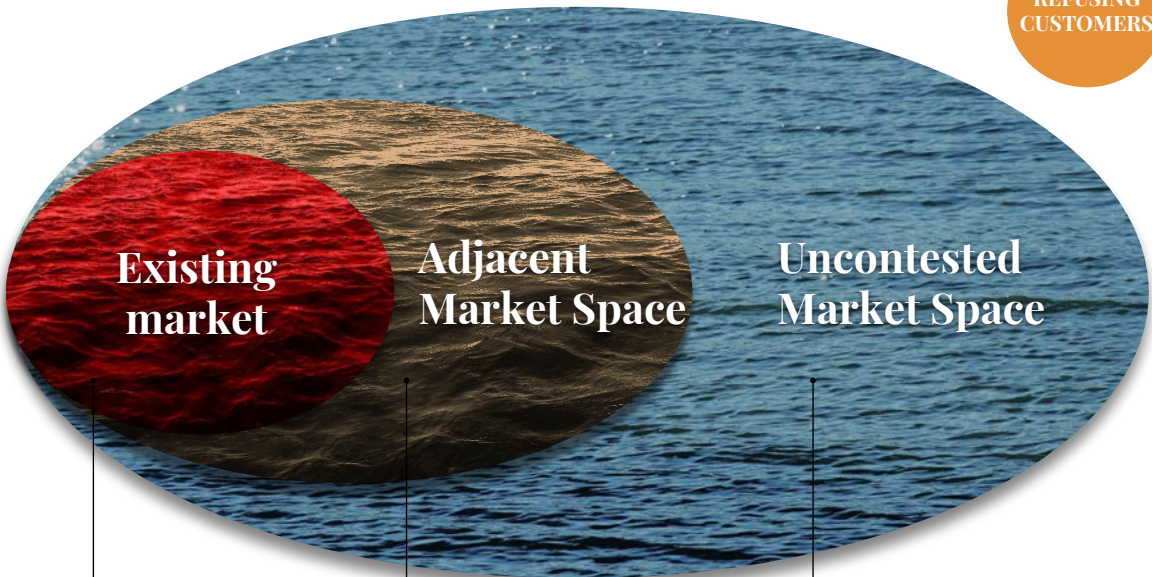
# Blue Ocean Theory:

Strategic Supremacy with creator:

- 1. Search out uncontested markets
- 2. Make the competition irrelevant

## Consider non-customers

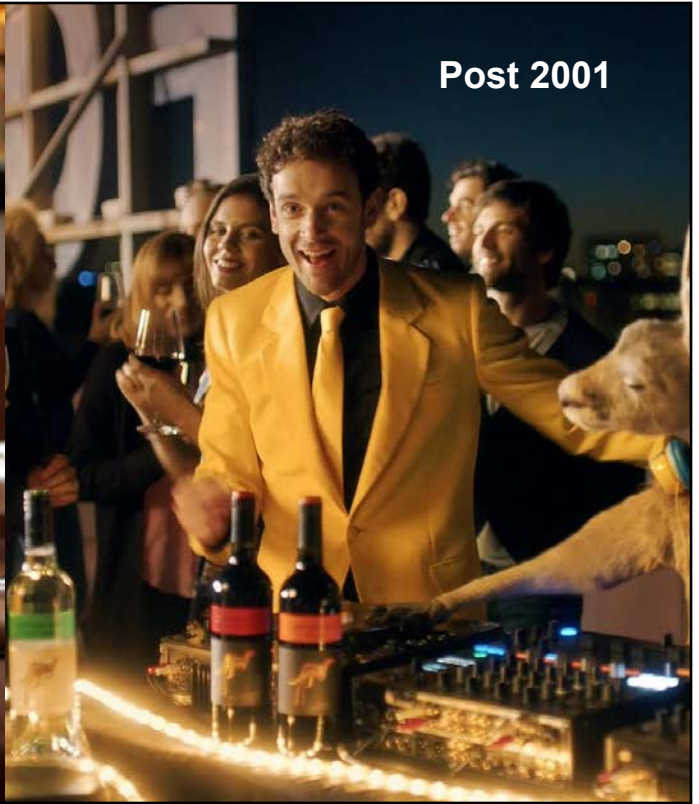
REFUSING CUSTOMERS



TODAY'S CUSTOMERS

SOON TO BE CUSTOMERS

UNEXPLORED CUSTOMERS



## Impact

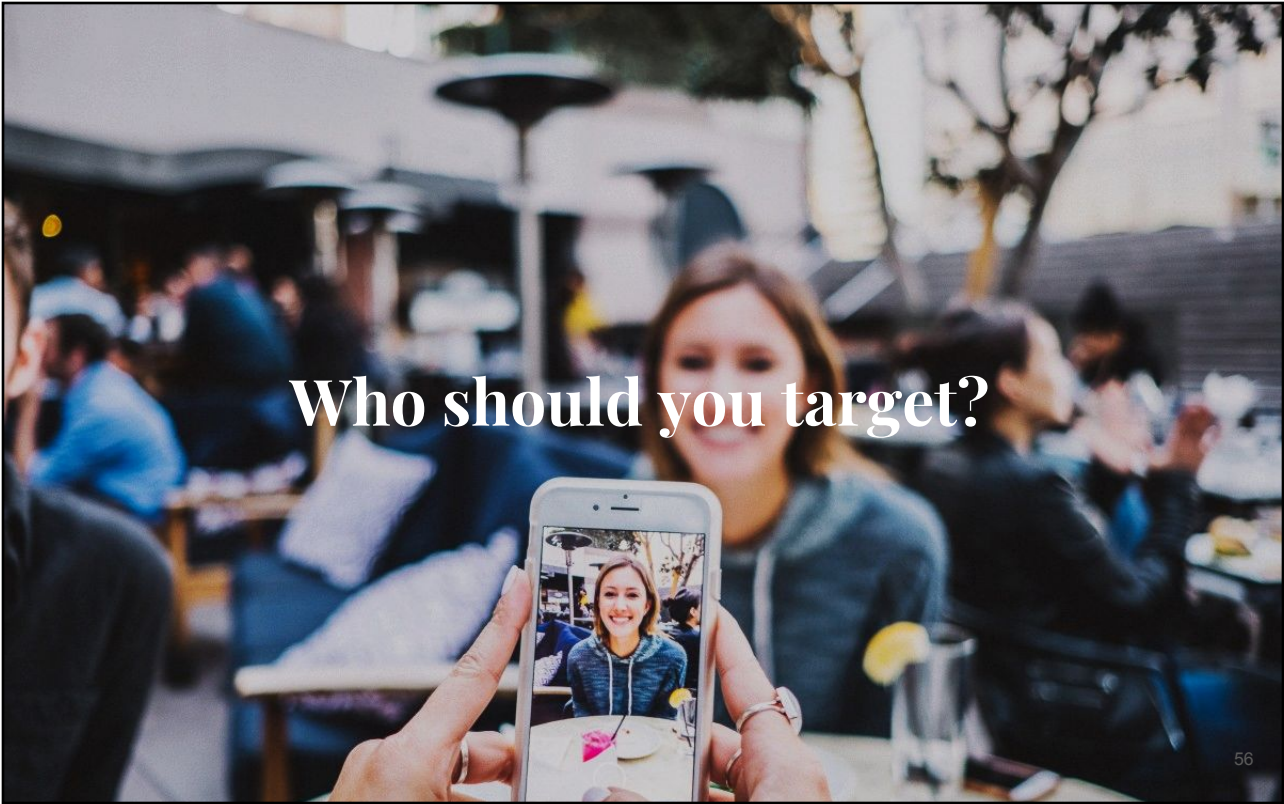
Top exported Australian wine

No1. US Imported wine brand



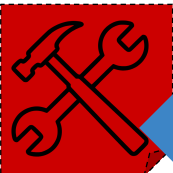
3% → 20% Australian share of US market







# Who should you target?

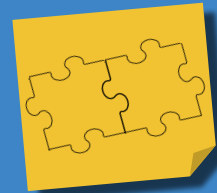
Customer / Problem			10:00 <small>Stop</small>
<p>List 3 existing customer segments for your business</p> <div style="display: flex; justify-content: space-around;">    </div> <p>List 3 adjacent customer segments with similar needs</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px dashed orange; width: 100px; height: 100px; background-color: #e67e22;"></div> <div style="border: 1px dashed orange; width: 100px; height: 100px; background-color: #e67e22;"></div> <div style="border: 1px dashed orange; width: 100px; height: 100px; background-color: #e67e22;"></div> </div> <p>List 3 non customers</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px dashed lightblue; width: 100px; height: 100px; background-color: #add8e6;"></div> <div style="border: 1px dashed lightblue; width: 100px; height: 100px; background-color: #add8e6;"></div> <div style="border: 1px dashed lightblue; width: 100px; height: 100px; background-color: #add8e6;"></div> </div>	<p>Customer to focus on for today's challenge</p> <div style="background-color: #3498db; color: white; padding: 20px; border: 1px dashed black; text-align: left;"> <h2 style="margin: 0;">Segmentation: Demographic or Location or Behavioural or Attitude</h2> </div>		
	<p>List 3 things that are broken for this customer or turns them away?</p>		

# Pick a segment with potential

What is the value of the segment?

How does it fit with your organisation?

What is the strength of competitor offerings?



## A quick calculation....

**Size of the prize**  
Putting a value on customers

Customer segments?	Total segment population		Percentage motivated to buy?	=	Relevant population?		Avg spend	=	Value
WINE	240m <small>No. of adults</small>	X	95%	=	228m	X	\$135 <small>\$10 x 13 bottles</small>	=	\$31b
BEER	240m	X	96%	=	230m	X	\$456 <small>\$5 x 91 bottles</small>	=	\$105b
SPIRITS	240m	X	90%	=	216m	X	\$361 <small>\$9 x 40 bottles</small>	=	\$78b

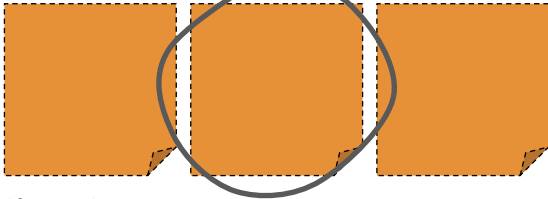
Customer / Problem

5:00  
Stop

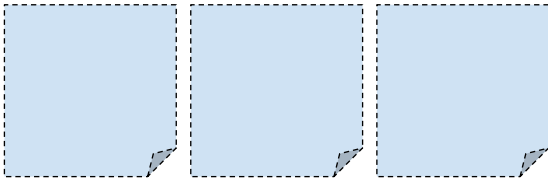
List 3 existing customer segments for your business



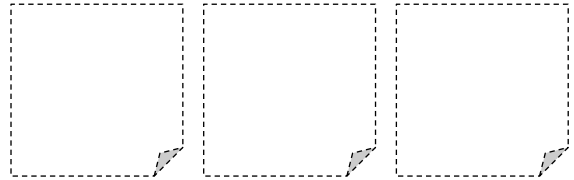
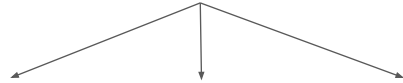
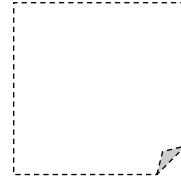
List 3 adjacent customer segments with similar needs



List 3 non customers



Customer to focus on for today's challenge



List 3 things that are broken for this customer or turns them away?

Customer / Problem

10:00  
Stop

List 3 existing customer segments for your business



Call out 3 functions/ processes/ systems/ services which currently let this segment down.

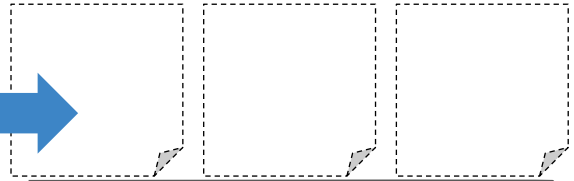
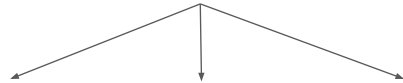
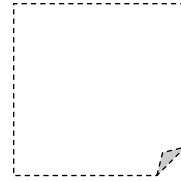
List

List

E.g. helping customer to evaluate our offering



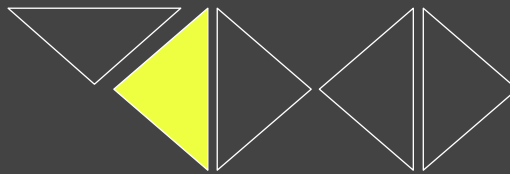
Customer to focus on for today's challenge



List 3 things that are broken for this customer or turns them away?

The Challenge

We need to better serve  
this customer  
starting with  
this process ■



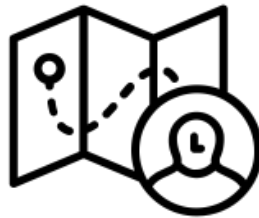
**Discovery**

**actionable**  
insight-led innovation, strategy & change





**1/ Ethnography /  
Observation**



**2/ Experience  
mapping**



**3/ Empathy  
mapping**



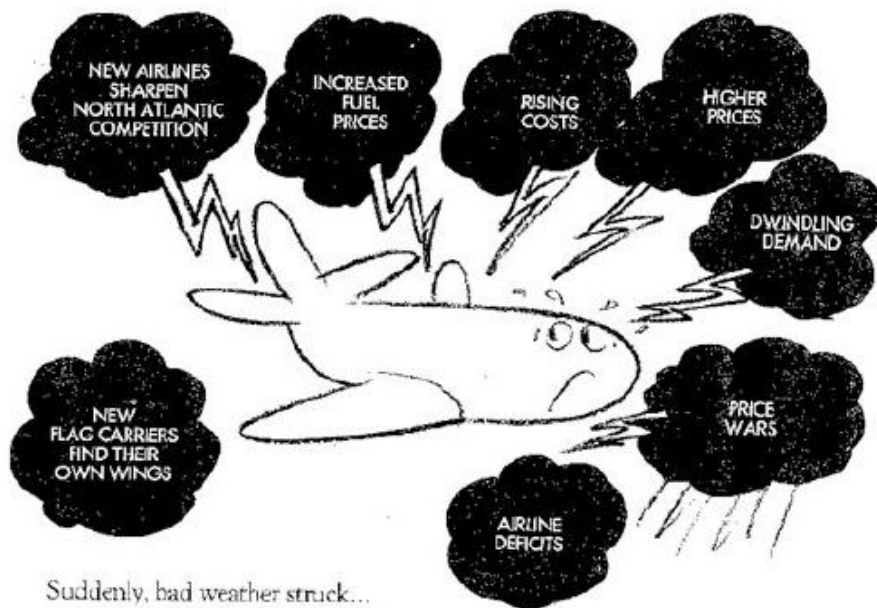
**Organisation**

**Stakeholder**



**Service, process,  
product etc.**

**Experience**



**SAS is 'created' 50 million times a year, 15 seconds at a time. These 50 million 'moments of truth' are the moments that ultimately determine whether SAS will succeed or fail as a company. They are the moments when we must prove to our customers that SAS is their best alternative.**

**Jan Carlzon**



**Moments  
of misery**



**Moments of  
“mediocre”**



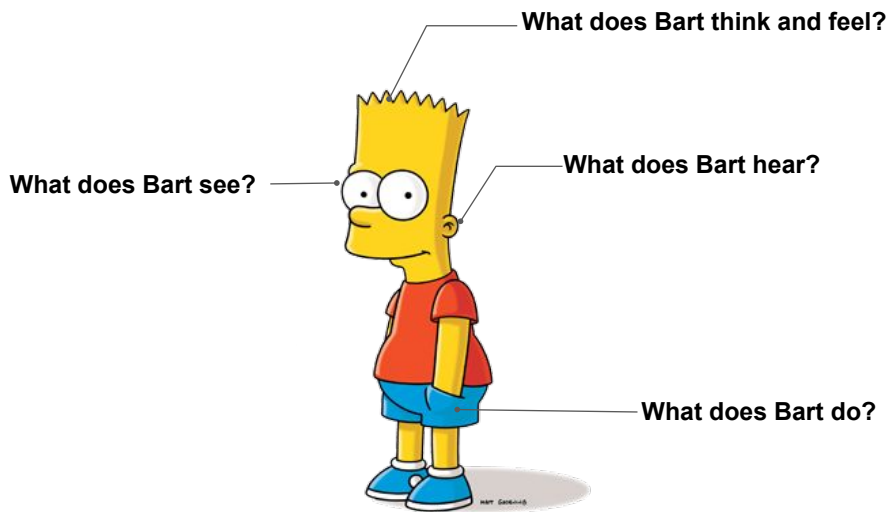
**Moments  
of magic!**



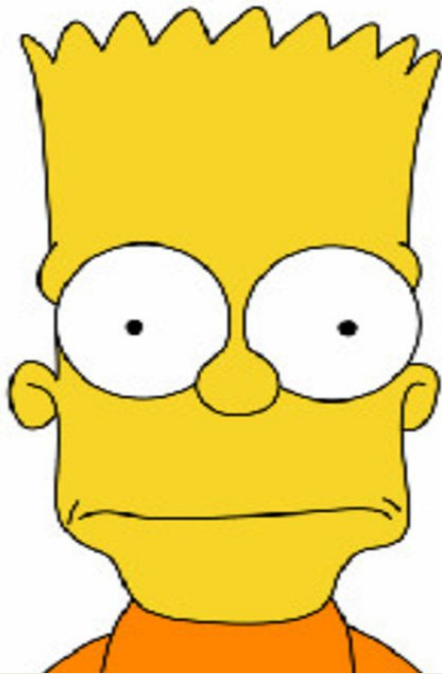




Adapted from Tanner Bechtel article on Medium  
<https://medium.com/@tannerbechtel/bart-simpson-taught-me-everything-i-need-to-know-about-human-empathy-ec456fc07639#jfo03g8ui>



Adapted from Tanner Bechtel article on Medium  
<https://medium.com/@tannerbechtel/bart-simpson-taught-me-everything-i-need-to-know-about-human-empathy-ec456fc07639#jfo03g8ui>



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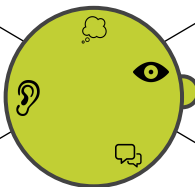


## EMPATHY MAP

More than  
3, less than  
7 words!

**What does he(she) HEAR**  
from Management  
In the news  
From competitors  
From influencers

**What does he(she) THINK & FEEL**  
What really counts / Major preoccupations  
/ Worries / Aspirations



**What does he(she) SEE**  
Environment  
Problems  
Market  
Others doing

**What does he(she) SAY & DO**  
What is their attitude / appearance / Conflicts  
between what they say and feel?

EMPATHY MAP

What does he(they) THINK & FEEL  
What really counts / Major preoccupations  
/ Worries / Aspirations

What does he(they) HEAR  
Management  
Colleagues  
Customers  
Suppliers  
Partners

What does he(they) SEE  
Environment  
Competitors  
Resources  
Information

What does he(they) DO  
What do they do to solve their problems?  
What do they do to overcome their fears?  
What do they do to overcome their frustrations?  
What do they do to overcome their obstacles?

What does he(they) SAY  
What do they say to themselves?  
What do they say to others?  
What do they say to their customers?  
What do they say to their colleagues?  
What do they say to their suppliers?  
What do they say to their partners?

# SME's Complete a full empathy map for identified stakeholder. Group assist SME

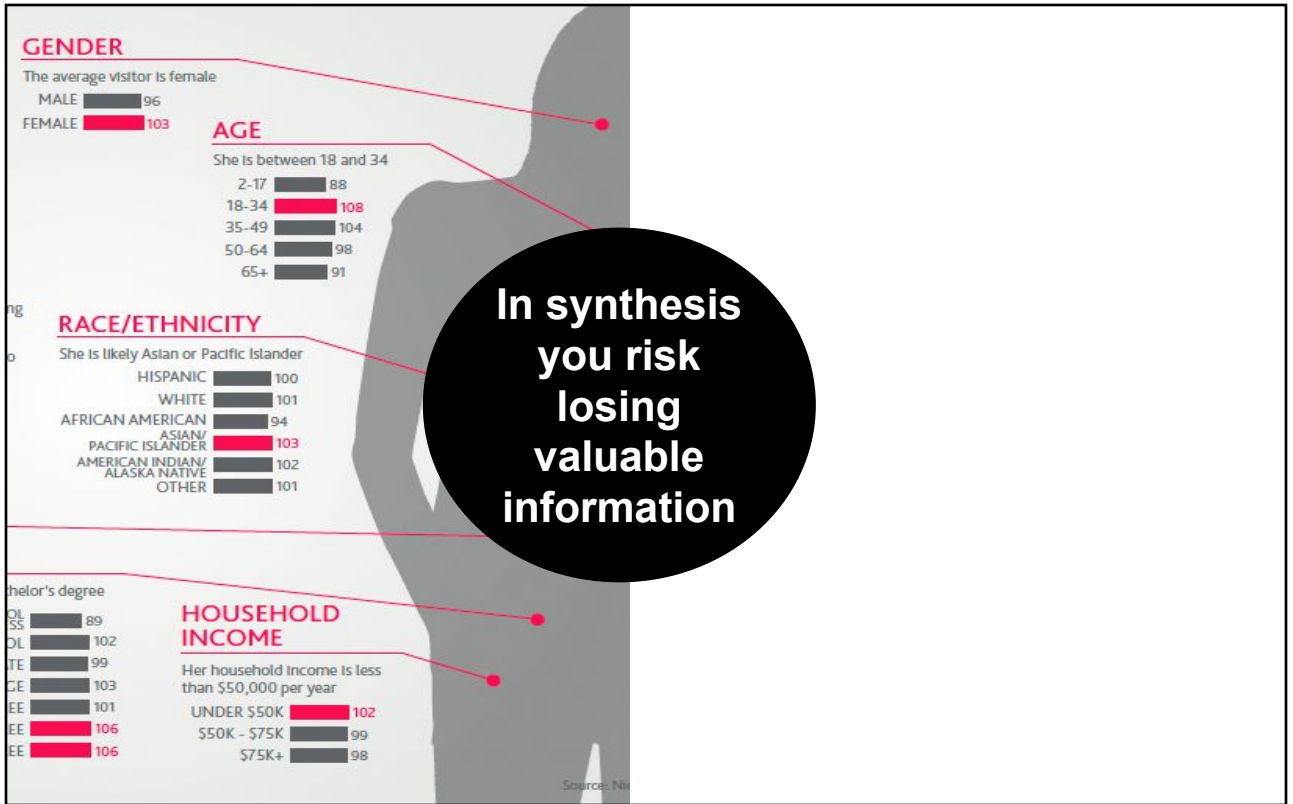
**45:00**

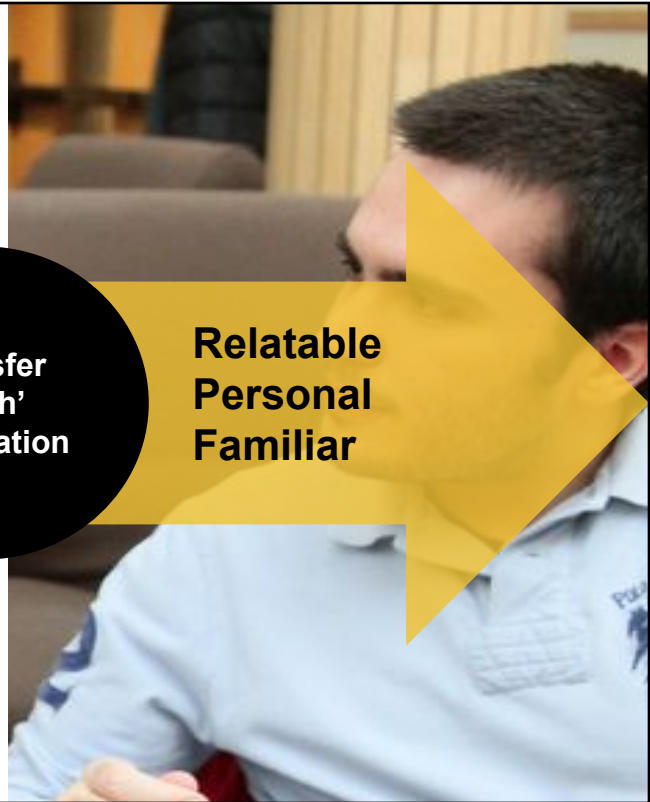
Pains



What are their fears?  
Frustrations?  
Obstacles / Challenges?







**Transfer  
'Rich'  
information**

**Relatable  
Personal  
Familiar**

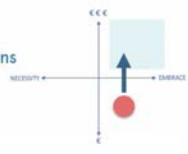
Potential customer - Irish supermarket chain

**Lyndsey, 27** Educated, lower income but high quality aspirations



"I am cost conscious but not a bargain hunter"

- Basic Facts**
- Age 29
  - 3 children, 1 toddler, baby twins
  - profession: home maker, (ex- event organiser)
  - single income
  - small terraced house
  - main shop: Lidl



Doesn't buy at SV now but could be tempted

**Behaviour & life situation**

Lyndsey lives with her teacher husband in the northern suburbs of Dublin. They have a 3 year old daughter and 2 month old twins. She is very health conscious, listening to nutrition pod casts while shopping and blending freshly cooked food in her NutriBullet. She is a Lidl fan because it enables her to buy fresh food and still keep enough money for some quality things in life, like a holiday to Perpignan, France. She writes weekly meal plans and detailed shopping lists. Offers on the leaflets coming through the door are circled during the week (emails and texts risk getting lost). Branded: "I used Pampers and Waterwipes in the beginning, but now own brand is fine" Online takes too much quality time away. "I tried online (bad experience, Tesco, 2010) - too long and complicated - never again".

"If we do a big shop in Tesco it can get really expensive". "A basket that costs €30 in Lidl might cost €50 in Dunnes"

"I hate the Tesco look & colours" (Tesco falls between the 2, not cheap not nice either). "Lidl feels more boutique, fresh foods stacked up like whole foods". "Lidl has great patés, cheese and pesto"

"SuperValu is a bit out of my price bracket but they do have lovely stuff"

"SuperValu is lovely, the bakery is nice but expensive. Their sausages are legendary"

"I buy fresh vegetables, never jars". "I have always cooked for Anna"

"I buy something on offer if I see it, like in the centre aisle at Lidl"

My needs and motivation	What puts me off:
<ul style="list-style-type: none"> <li>• Bringing quality to everything I do, if possible</li> <li>• Treat me like an intelligent human being (nice environment, friendly staff)</li> </ul>	<ul style="list-style-type: none"> <li>• "feeling like a walking wallet" impersonal treatment, offers</li> <li>• poor quality</li> <li>• poor value for money</li> </ul>

# Jill Anderson



*"I'm looking for a site that will simplify the planning of my business trips."*

AGE: 35  
 WORK: Regional Director  
 FAMILY: Married, 1 Child  
 LOCATION: Austin, Tx  
 ARCHETYPE: The Frequent Flyer

- Organized
- Practical
- Protective
- Hardworking

### Bio

Jill is a Regional Director who travels 4-8 times each month for work. She has a specific region in which she travels, and she often visits the same cities and stays at the same hotel. She is frustrated by the fact that no matter how frequently she takes similar trips, she spends hours of her day booking travel. She expects her travel solutions to be as organized as she is.



- ### Goals
- To spend less time booking travel
  - To narrow her options quickly

- ### Frustrations
- Too much time spent booking - she's busy!
  - Too many websites visited per trip
  - Not terribly tech savvy - doesn't like the process



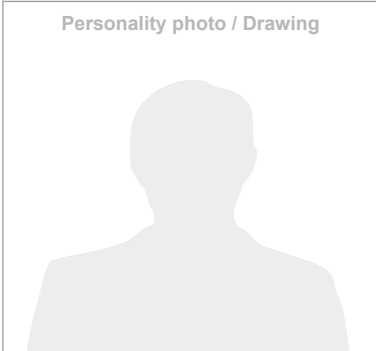
### Brands

## Ad-Hoc Persona

Step into the shoes of your key stakeholder

# 10:00

Stop



### Behaviour & life situation

Briefly outline their personal life and work situation, and their attitudes towards both.

Quotes from the person that captures their attitude, specific to the design challenge.

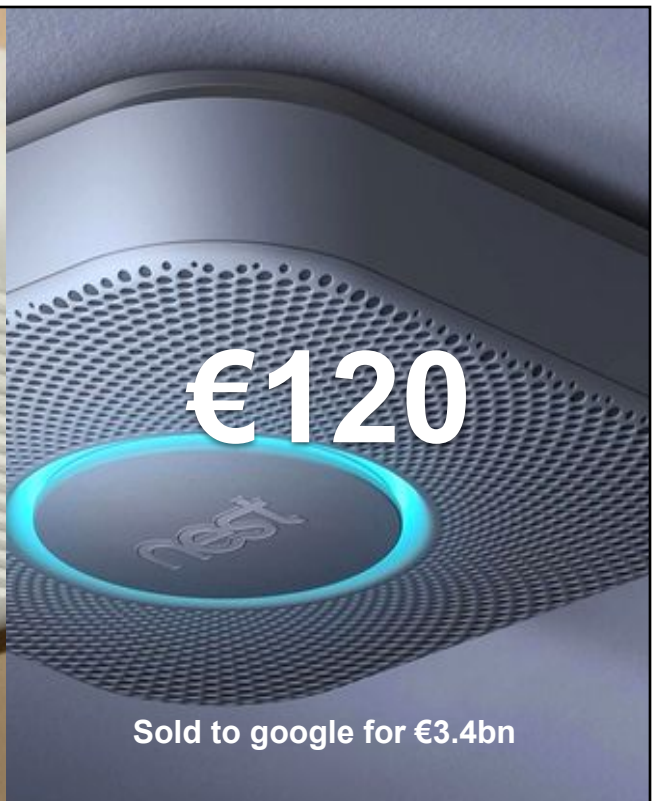
**Name:**  
**Age:**  
**Sex:**  
**Occupation:**  
**Marital & family status:**

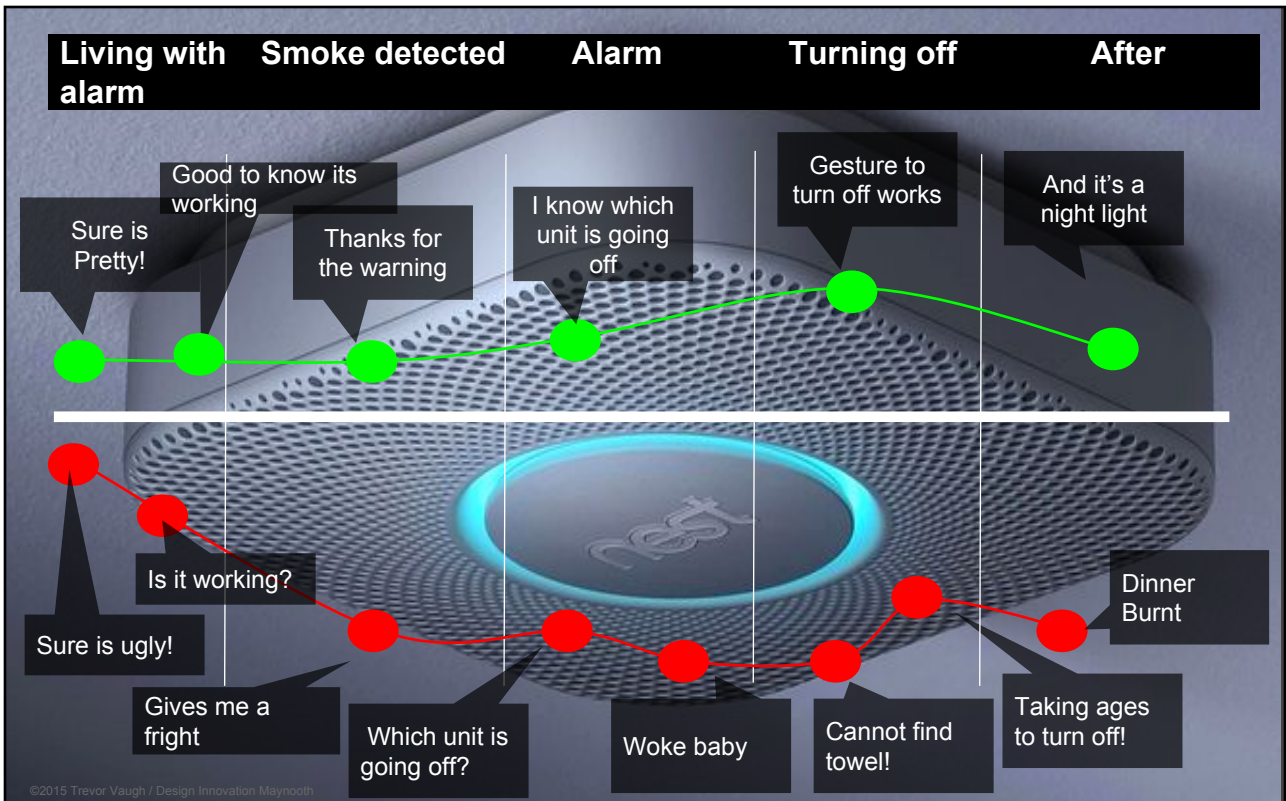
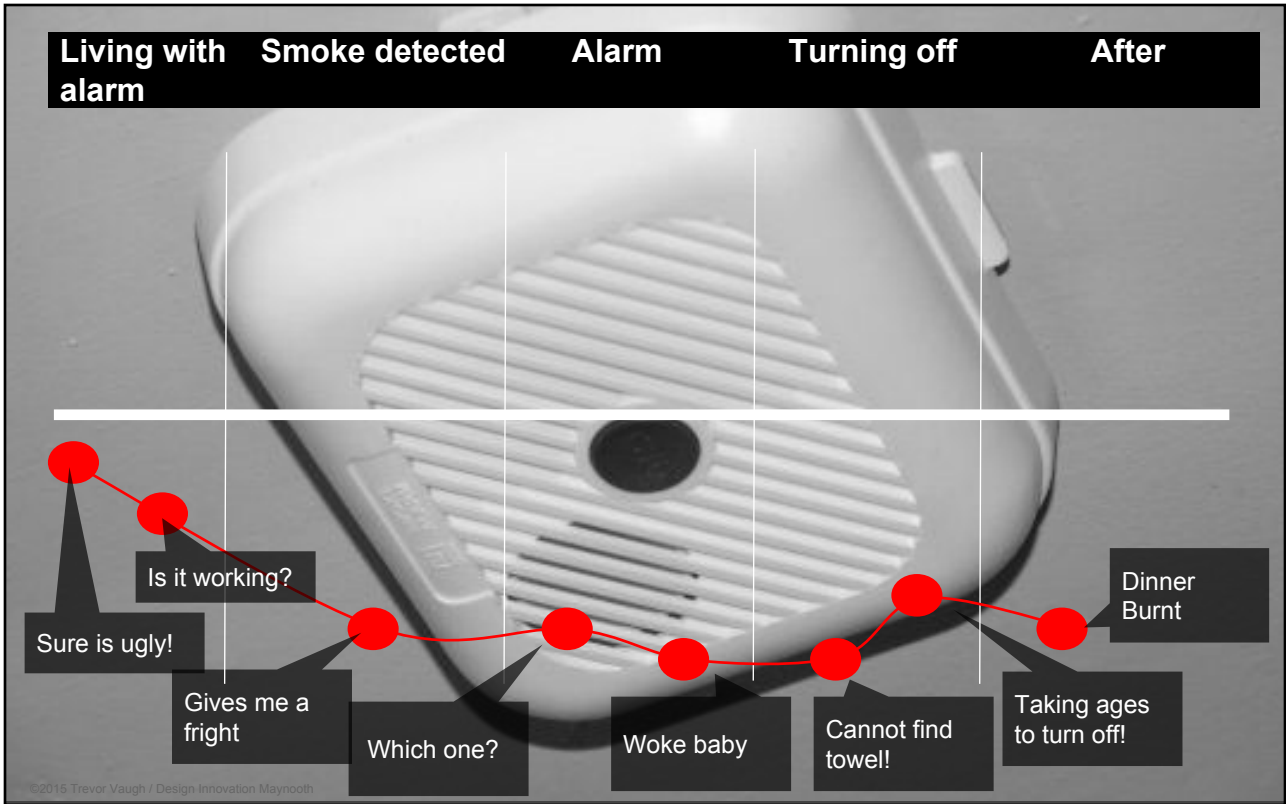
### ☹️ Pains

Based on the design challenge, what are their fears? Frustrations? Obstacles / Challenges?

### 😊 Wins

What target does she/he want to reach? How do they measure success? What does good look like?









Stakeholder \_\_\_\_\_ Goal \_\_\_\_\_

**Journey Map**  
 A tool for prioritising your key stakeholder

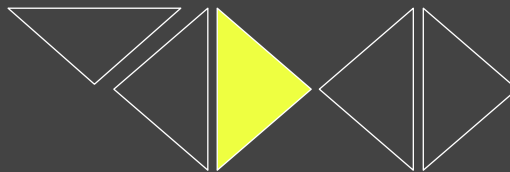
actionable

<b>Plotted Experience</b>								
 <small>Neutral line</small>								
<b>1. Journey steps</b>								
<b>2. Touchpoints</b> <small>People Objects</small>								
<b>3. Thinking</b> <small>Wants / Needs</small>								
<b>4. Feelings</b> <small>Stressed Happy Anxious</small>								

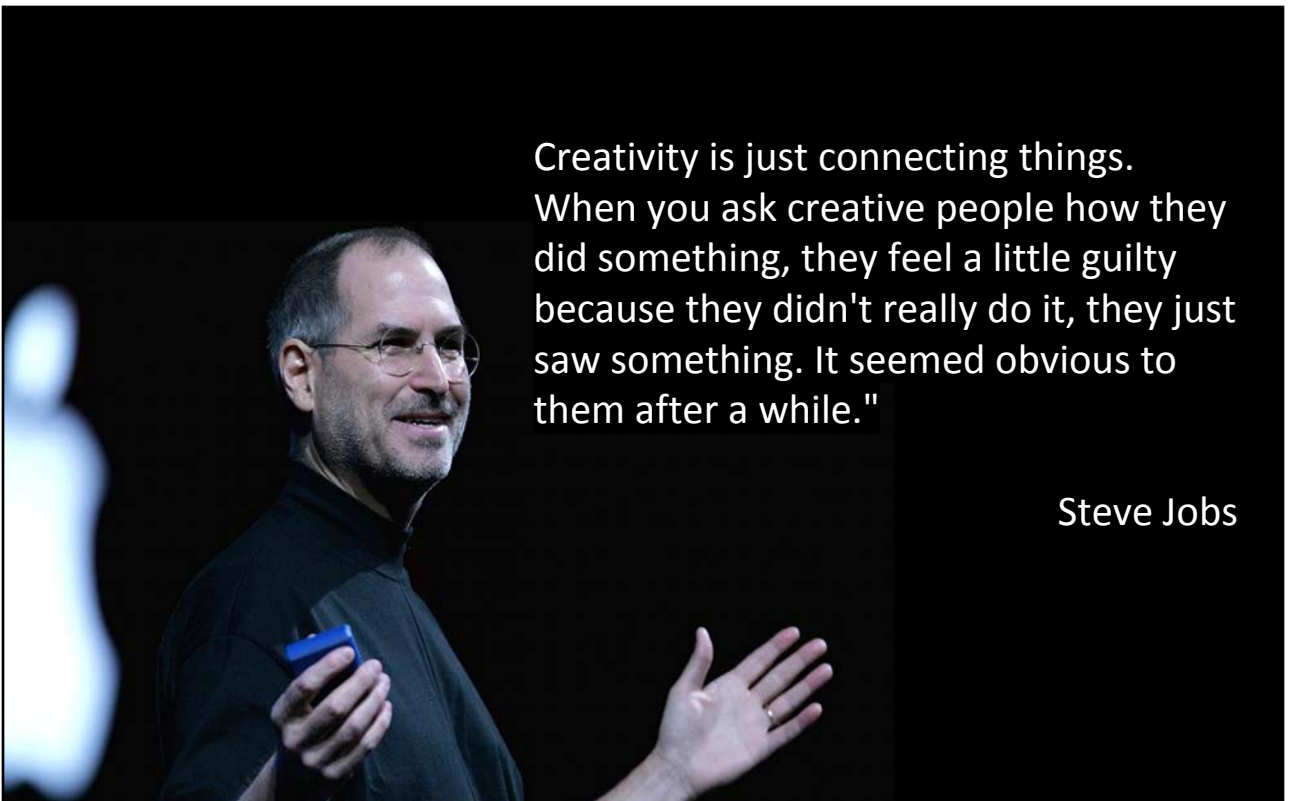
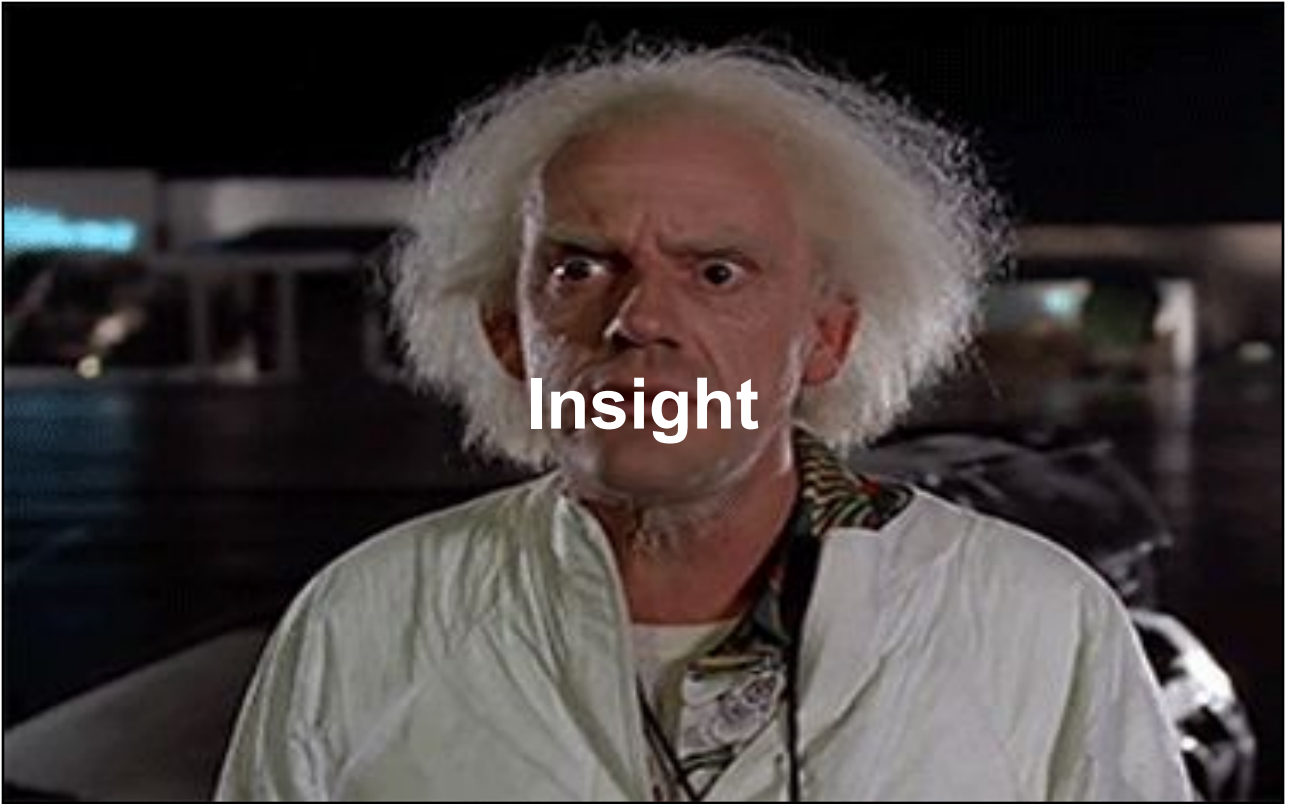
# SMEs - complete an experience map for the chosen stakeholder problem

E.g. Sourcing product, making a purchasing decision,  
Selecting partner company.

**45:00**



**Definition**



Insights shift us toward a new story, a new set of beliefs about a human behaviour that is more accurate, more comprehensive, and more useful. **A better story**

**I saw this + I know this = Insight**

Analyse your field notes and document interesting observations, anomalies, or things you found particularly unique.

Start to answer the “why” based on your own personal experiences and what you know about the situation

Draw insights from the key observations in each group.

Informed intuition

**Insight + Trend/Pattern**

A human behaviour relevant to the challenge

Technology or market based

**= Design idea**

**What you saw**



+

**What you know**



+

**Trend/pattern**

Growth in manufacturing/  
internationalisation  
after war.  
  
Labor costs going up

=



+



+



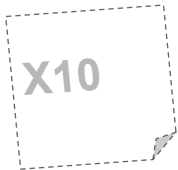
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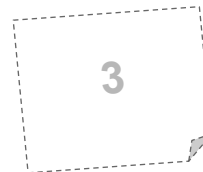
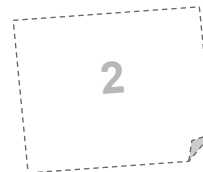
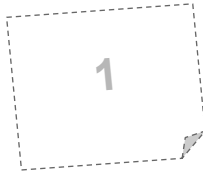
**Insight note**

Make problems actionable

Problems



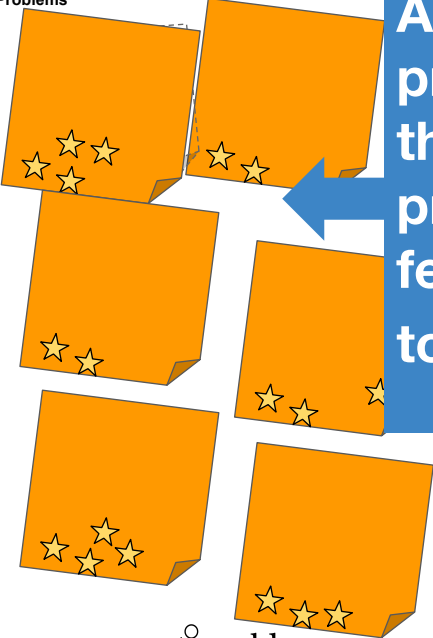
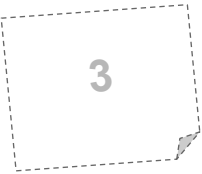
Top 3 problems



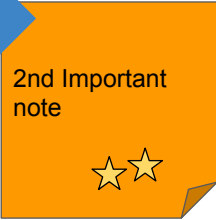




How might we...


This is significant because....  
(Trend / statistic / market pattern)



<b>Insight note</b> Make problems actionable	Top 3 problems	How might we...	<b>10:00</b> <small>Stop</small>
<p>Problems</p>  <p>actionable</p>	<p>As a group, capture problems on any post-it's that you find significant, present opportunities or you feel could make a difference to your challenge</p>		
			

<b>Insight note</b> Make problems actionable	Top 3 problems	How might we...	<b>10:00</b> <small>Stop</small>
<p>Problems</p>  <p>Select 3 that are most important to your challenge</p> <p>actionable</p>	<p>1st most Important note</p>  <p>2nd Important note</p>  <p>3rd Important note</p> 		



<p><b>Insight note</b> Make problems actionable</p>	<p><b>Top 3 problems</b></p> <p>1st most Important note</p>	<p><b>How might we...</b></p> <p>How Might We..</p>	<p><b>10:00</b> Stop</p> 
<p>Problems</p> <p>X10</p>	<p><b>Rephrase the problems as questions by adding "How might we" at the beginning</b></p> <p><b>Problem</b> "There are just so many small items to get on board!"</p> <p><b>HMW</b> "How might we allow small items be loaded onto boats quicker"</p> <p>actionable</p>		

<p><b>Insight note</b> Make problems actionable</p> <p>Problems</p> <p>X10</p> <p>actionable</p>	<p>Top 3 problems</p> <p>1st most Important note</p> <p>3rd Important note</p>	<p>How might we...</p> <p>How Might We..</p>	<p>This is significant because.... <small>(Trend / statistic / market pattern)</small></p> <p>Trend? Pattern?</p>
--	--	--	---

**Is there a significant trend, pattern, statistic that aligns with your identified HMW problem?**

E.g. 40% rise in ships leaving port  
Labor costs increasing



# Development

actionable  
insight-led innovation, strategy & change



As a group we want you to brainstorm solutions to the 3 How Might We statements.



**Solo Brainstorm**

Idea 1	Idea 2	Idea 3
Idea 4	Idea 5	Idea 6
Idea 7	Idea 8	Idea 9



How would \_\_\_\_\_  
solve the problem?

**9 to shine +**  
Through other eyes

How would \_\_\_\_\_  
solve the problem?



What will the solution look like in 100  
years?



What is the worst idea you can  
come up with to solve the  
problem?



## Experience - The new battleground

**89%**

of companies expect to  
compete mostly on the basis  
of customer experience,  
versus 36% four years ago

- Gartner

**50%**

Of consumer product  
investments will be  
redirected to customer  
experience innovations

Gartner

**86%**

of buyers will pay more for a  
better customer experience.

- Gartner

**6X**

More likely to buy  
with a positive  
emotional experience

- Temkin group

**73%**

Of consumers trust  
recommendations from friends  
and families, only 19% trust  
direct communication

**5X**

More likely to forgive a mistake  
if there is a positive emotional  
experience

- Temkin group

# Values of design thinking



## User-centered

Services should be experienced through the customer's eyes



## Co-creative

All stakeholders should be included in the service design process



## Iterative

Service design is an exploratory, adaptive, and experimental approach, iterating toward implementation



## Sequencing

The service should be visualised as a sequence of interrelated actions



## Evidencing

Intangible services should be visualised in terms of physical artefacts



## Holistic

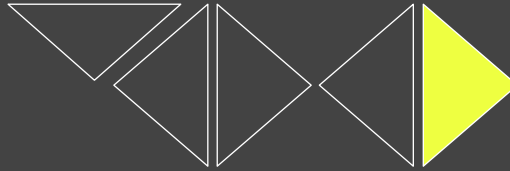
The entire environment of a service should be considered

Marc Stickdorn - [This Is Service Design Doing](#)

## Design for Innovation Workshop

Klaipeda - Lithuania 24th - 25th September

Day two



# Delivery

actionable  
Insight-led innovation, strategy & change

## Solution Storyboard

Visualise your solution

FINAL

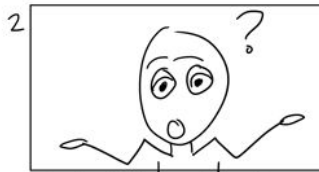
SCENE	SCENE	SCENE	SCENE
1. 	2. 	3. 	4. 
CAPTION	CAPTION	CAPTION	CAPTION
5. 	6. 	7. 	8. 
CAPTION	CAPTION	CAPTION	CAPTION

Select one idea from all the brainstorming yesterday. Illustrate it as a Storyboard highlighting innovation & improvement

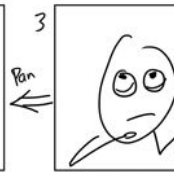
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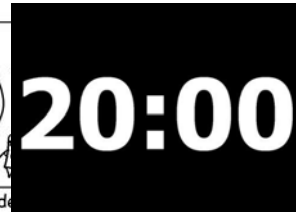
1 Establishing shot of classroom. One student snoring. One sits up in alarm over assignment.



2 Student feels overwhelmed. Voiceover: "I've never done this!" Camera pans slowly to make space.



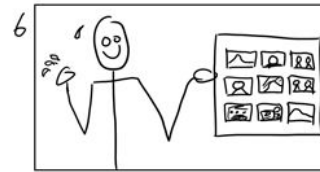
3 Ideas surround student in thought bubble. Brainstorm may also be video montage surrounded by blurry frame.



4 Moment of clarity. "Aha!" Ding or chimes; lightbulb moment.



5 Working in a dark dorm room. Sounds of clock ticking and pencil scratching on paper.



6 Proudly shows off finished storyboard. Wipes sweat off brow. Victory music. Zoom in on storyboard.



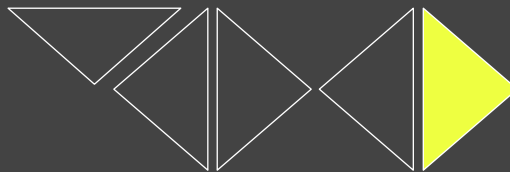
7 Submitting via Coursework. Fade out as if ending.



8 Back to the classroom. Keep as similar as possible to original. "Elaborate on your storyboards!"

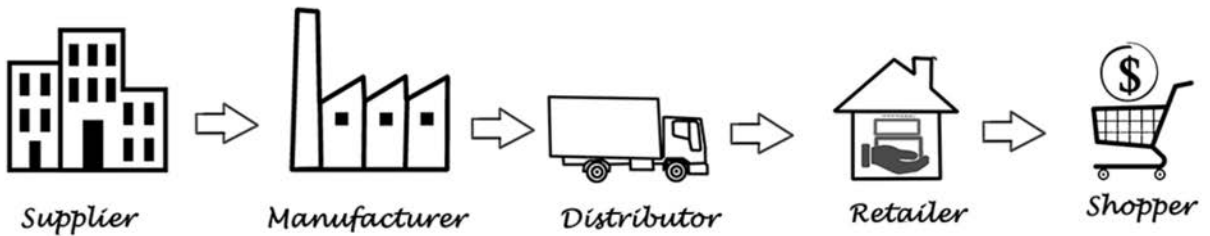


9 Back to the drawing board. Looking haggard but determined. Fade out.



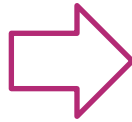
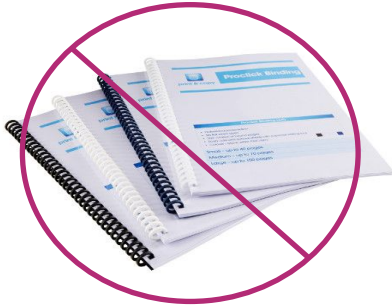
# Delivery

actionable  
insight-led innovation, strategy & change

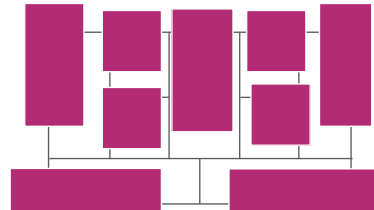


A **business model** helps organisations to **realise the economic value** of their product, services, business and/or technology”

One and done

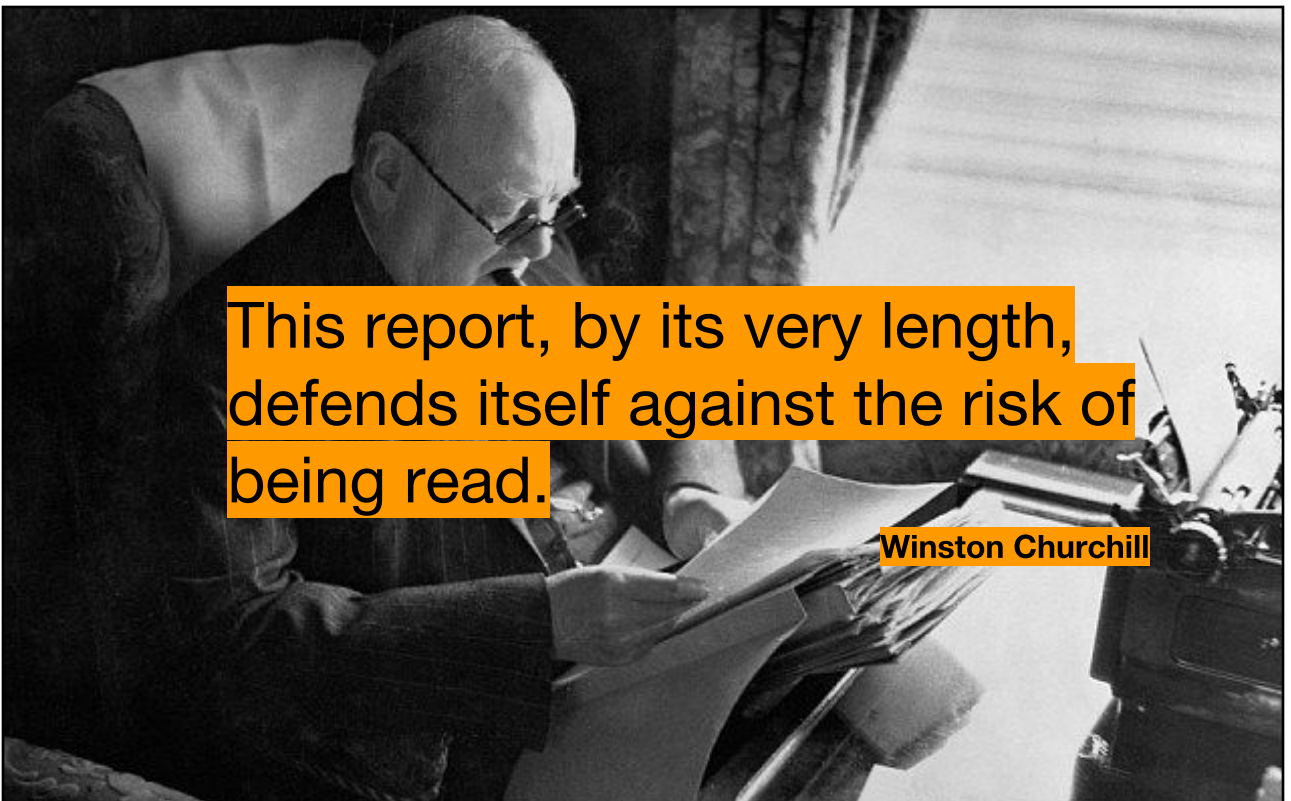


Experiment  
& Learn



This report, by its very length,  
defends itself against the risk of  
being read.

Winston Churchill



## Overarching principle: **Validated learning**

Build a model and then use experiments to validate (or invalidate) the model

Just like design - hypothesis and test

120

## Lean Canvas

Great for start-ups

<b>PROBLEM</b> <i>List your top 1-2 problems.</i>	<b>SOLUTION</b> <i>Outline a possible solution for each problem.</i>	<b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different and worth paying attention.</i>	<b>UNFAIR ADVANTAGE</b> <i>Something that cannot easily be bought or copied.</i>	<b>CUSTOMER SEGMENTS</b> <i>List your target customers and users.</i>
<b>2</b>	<b>3</b>	<b>4</b>	<b>9</b>	<b>1</b>
	<b>KEY METRICS</b> <i>List the key numbers that tell you how your business is doing.</i>		<b>CHANNELS</b> <i>List your paths to customers (inbound or outbound).</i>	
<b>EXISTING ALTERNATIVES</b> <i>List how these problems are solved today.</i>	<b>7</b>	<b>HIGH-LEVEL CONCEPT</b> <i>List your X for Y analogy e.g. YouTube = Flickr for videos.</i>	<b>6</b>	<b>EARLY ADOPTERS</b> <i>List the characteristics of your ideal customers.</i>
<b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i>	<b>8</b>	<b>REVENUE STREAMS</b> <i>List your sources of revenue.</i>	<b>5</b>	121

Lean Canvas is adapted from The Business Model Canvas by Alexander Osterwalder and Yves Pigneur, under the Creative Commons Attribution-ShareAlike 3.0 license.



# Three step process



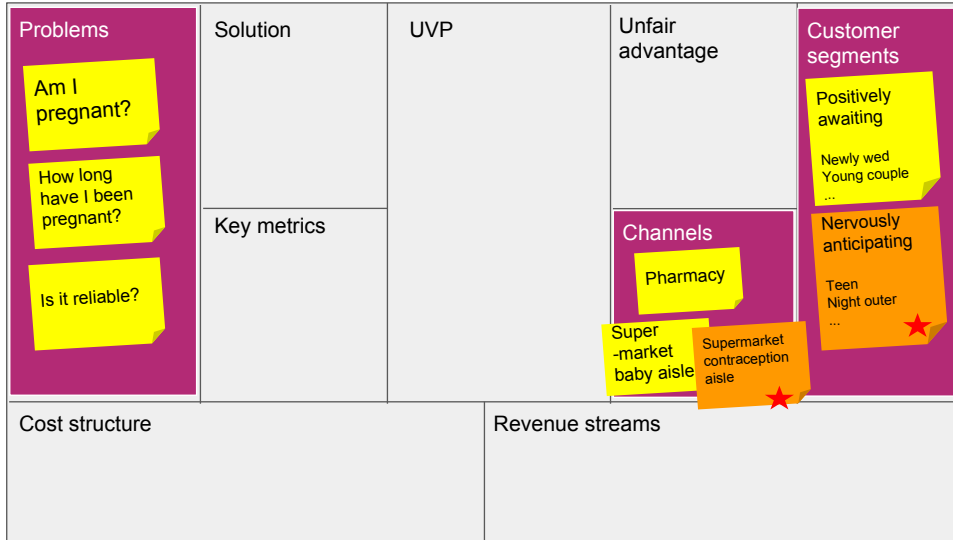
## Room for improvement?



<b>Problems</b> Am I pregnant? How long have I been pregnant? Is it reliable?	Solution	UVP	Unfair advantage	<b>Customer segments</b> Positively awaiting Newly wed Young couple ...
	Key metrics		Channels Pharmacy Super-market baby aisle	
Cost structure		Revenue streams		

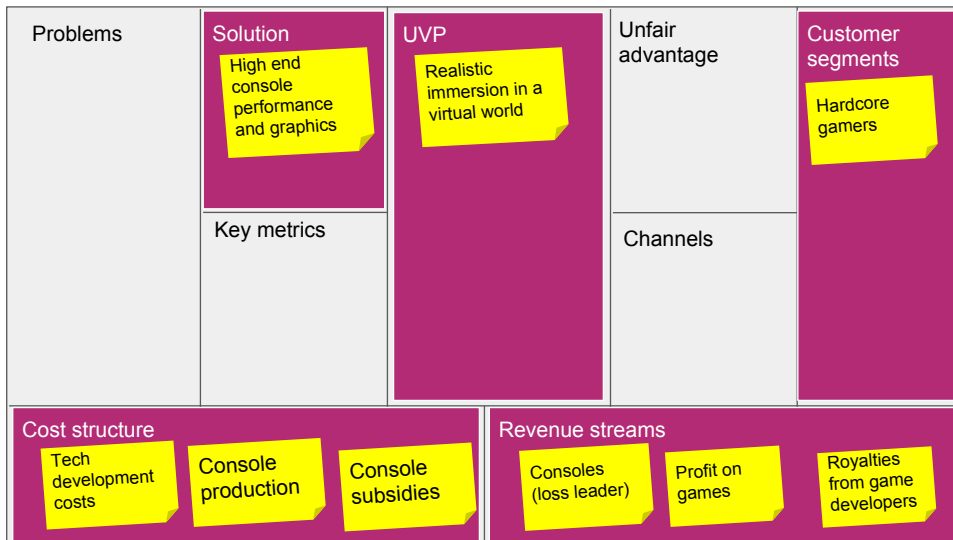
## A new channel!

To better serve a customer segment



124

## Room for improvement?



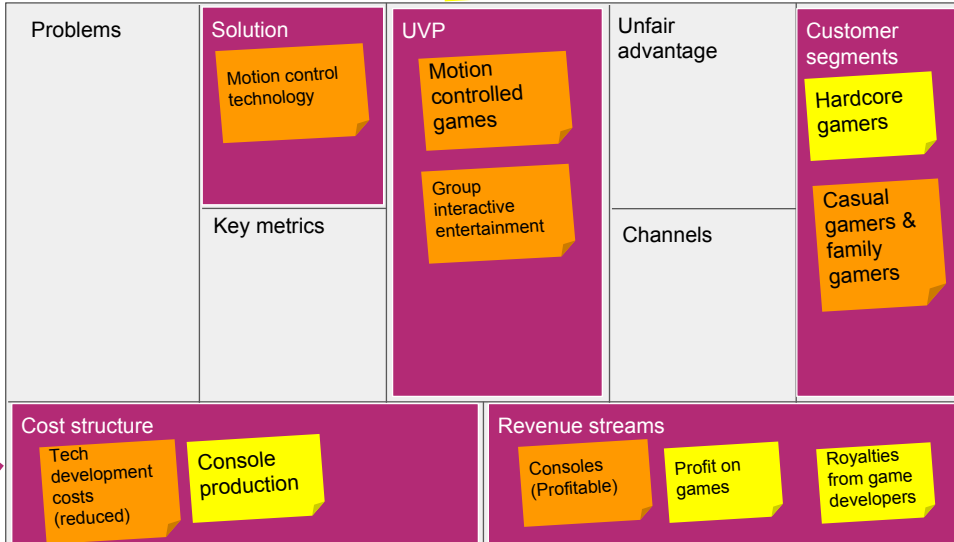
125

# Focusing on a new customer segment!

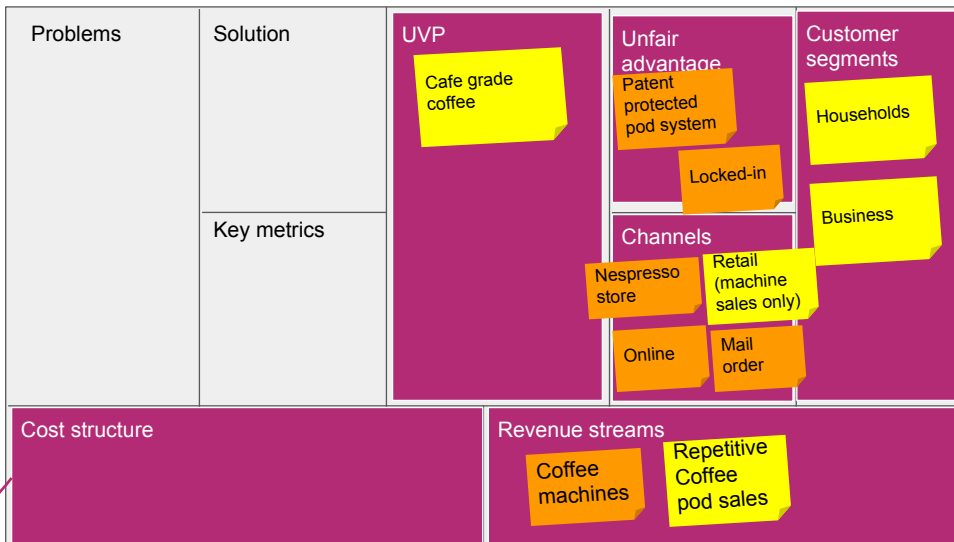
To better serve a customer segment

High end console performance and graphics

Realistic immersion in a virtual world



# The new normal for coffee Nespresso





# The many Jobs of a saddle



## Lean Canvas



<p><b>PROBLEM</b> <i>List your top 3 or 4 problems.</i></p> <p>Need different saddles for different disciplines</p> <p>Saddles are often uncomfortable</p> <p>Horses require different saddle sizes / horses change shape</p> <p><b>EXISTING ALTERNATIVES</b> <i>List how these problems are solved today.</i></p>	<p><b>SOLUTION</b> <i>Describe a possible solution for each problem.</i></p> <p>3</p>	<p><b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different and worth paying attention.</i></p> <p>4</p>	<p><b>UNFAIR ADVANTAGE</b> <i>Something that your rivals can't duplicate or equal.</i></p> <p>9</p>	<p><b>CUSTOMER SEGMENTS</b> <i>List your target customers and markets.</i></p> <p>Eventers (&amp; multidiscipline riders)</p> <p>1</p> <p><b>EARLY ADOPTERS</b> <i>List the characteristics of your initial customers.</i></p> <p>Semi-pro eventers</p>
<p><b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i></p> <p>8</p>	<p><b>REVENUE STREAMS</b> <i>List your sources of revenue.</i></p> <p>5</p>			

# Lean Canvas



<p><b>PROBLEM</b> <i>List your top 1-3 problems.</i></p> <p>Need different saddles for different disciplines</p> <p>Saddles are often uncomfortable</p> <p>Horses require different saddle sizes / horses change shape</p> <p><b>EXISTING ALTERNATIVES</b> <i>List your best and cheapest ones.</i></p> <ul style="list-style-type: none"> <li>- X2 Saddles</li> <li>- Second hand saddle market</li> <li>- Adjustable saddle (by specialist)</li> <li>- Retro-fit pads</li> </ul>	<p><b>SOLUTION</b> <i>Outline a possible solution for each problem.</i></p> <p>3</p>	<p><b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different and worth paying attention.</i></p> <p>4</p>	<p><b>UNFAIR ADVANTAGE</b> <i>Something that cannot easily be bought or copied.</i></p> <p>9</p>	<p><b>CUSTOMER SEGMENTS</b> <i>List your target customers and users.</i></p> <p>Eventsers (&amp; multidiscipline riders)</p> <p>1</p> <p><b>EARLY ADOPTERS</b> <i>List the customers who will try your solution first.</i></p> <p>Semi-pro eventers</p>
<p><b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i></p>	<p><b>KEY METRICS</b> <i>List the key numbers that tell you how your business is doing.</i></p> <p><b>CHANNELS</b> <i>List your path to customers (direct or indirect).</i></p> <p><b>HOW ARE THESE PROBLEMS SOLVED TODAY?</b></p> <p>Competitor solutions? Workarounds/substitutes/Alternatives</p>			<p><b>EXISTING ALTERNATIVES</b> <i>List your best and cheapest ones.</i></p>

# Lean Canvas



<p><b>PROBLEM</b> <i>List your top 1-3 problems.</i></p> <p>Need different saddles for different disciplines</p> <p>Saddles are often uncomfortable</p> <p>Horses require different saddle sizes / horses change shape</p> <p><b>EXISTING ALTERNATIVES</b> <i>List your best and cheapest ones.</i></p> <ul style="list-style-type: none"> <li>- X2 Saddles</li> <li>- Second hand saddle market</li> <li>- Adjustable saddle (by specialist)</li> <li>- Retro-fit pads</li> </ul>	<p><b>SOLUTION</b> <i>Outline a possible solution for each problem.</i></p> <p>Modular saddle with interchangeable parts for total flexibility</p> <p>Soft structural suspension for comfort</p> <p>DIY panel adjustment to fit a wide range of horses</p>	<p><b>POSSIBLE SOLUTIONS FOR EACH PROBLEM?</b></p> <p>E.g. Soft structural suspension for comfort</p> <p><i>In the absence of a solution...</i></p> <p>Describe an outcome the user cares about - try to be specific</p> <p>E.g. The saddle will be comfortable for horse and rider</p>		<p><b>CUSTOMER SEGMENTS</b> <i>List your target customers and users.</i></p> <p>Eventsers (&amp; multidiscipline riders)</p> <p>1</p> <p><b>EARLY ADOPTERS</b> <i>List the customers who will try your solution first.</i></p> <p>Semi-pro eventers</p>
<p><b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i></p>	<p><b>KEY METRICS</b> <i>List the key numbers that tell you how your business is doing.</i></p> <p>7</p> <p>8</p>	<p><b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different and worth paying attention.</i></p>	<p><b>UNFAIR ADVANTAGE</b> <i>Something that cannot easily be bought or copied.</i></p> <p>5</p>	<p><b>EXISTING ALTERNATIVES</b> <i>List your best and cheapest ones.</i></p>

# Lean Canvas



<p><b>PROBLEM</b> <i>List your top 1-3 problems that define why you are solving a problem.</i></p> <ul style="list-style-type: none"> <li>Need different saddles for different disciplines</li> <li>Saddles are often uncomfortable</li> <li>Horses require different saddle sizes / horses change shape</li> </ul> <p><b>EXISTING ALTERNATIVES</b> <i>List your top 3 existing alternatives.</i></p> <ul style="list-style-type: none"> <li>- X2 Saddles</li> <li>- Second hand saddle market</li> <li>- Adjustable saddle (by specialist)</li> <li>- Retro-fit pads</li> </ul>	<p><b>SOLUTION</b> <i>Outline your solution.</i></p> <ul style="list-style-type: none"> <li>Modular saddle with interchangeable parts for total flexibility</li> <li>Soft structural suspension for comfort</li> <li>DIY panel adjustment to fit a wide range of horses</li> </ul> <p><b>KEY METRICS</b> <i>List the top 3 metrics that will tell you how your business is doing.</i></p> <p>TRANSLATE FOR CUSTOMER</p>	<p><b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different and better.</i></p> <p>2 saddles in one -interchangeable without a saddler</p> <p>The saddle that is comfortable for horse and rider. By cantilevered technology the saddle offers a shock absorbing effect.</p> <p>Universal fit, fits 90% of horses</p> <p><b>HIGH-LEVEL CONCEPT</b> <i>List your X for Y analogy e.g. YouTube = Flickr for videos.</i></p> <p>If adidas made saddles - this would be it</p>	<p><b>UNFAIR ADVANTAGE</b> <i>Something that competitors do not have or cannot do.</i></p> <p>'FINISHED STORY BENEFIT'</p> <p><b>CHANNELS</b> <i>List your path to customer contact or distribution.</i></p> <p>6</p> <p><b>ANALOGY</b></p>	<p><b>CUSTOMER SEGMENTS</b> <i>List your target customers and users.</i></p> <p>Eventers (&amp; multidiscipline riders)</p> <p>1</p> <p><b>EARLY ADOPTERS</b> <i>List the customers who will give you the most valuable feedback.</i></p> <p>Semi-pro eventers</p>
<p><b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i></p> <p>8</p>	<p><b>REVENUE STREAMS</b> <i>List your sources of revenue.</i></p> <p>5</p>		<p><b>15:00</b></p>	

# Lean Canvas



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# Lean Canvas



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<p><b>PATH TO CUSTOMERS</b></p> <ul style="list-style-type: none"> <li>- Jumpstart channels</li> <li>- Scalable channels</li> </ul>				

# Lean Canvas



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<p><b>HOW IS YOUR BUSINESS DOING?</b></p> <ul style="list-style-type: none"> <li>- Key numbers to track?</li> <li>- Actual sales/indicator of sales</li> </ul>				



# Lean Canvas



<p><b>PROBLEM</b> <i>List your top 1-3 problems that define why you are different from competitors.</i></p> <p>Need different saddles for different disciplines</p> <p>Saddles are often uncomfortable</p> <p>Horses require different saddle sizes / horses change shape</p>	<p><b>SOLUTION</b> <i>Outline the solution to the problem.</i></p> <p>Modular saddle with interchangeable parts for total flexibility</p> <p>Soft structural suspension for comfort</p> <p>DIY panel adjustment to fit a wide range of horses</p>	<p><b>UNIQUE VALUE PROPOSITION</b> <i>Single, clear, compelling message that states why you are different from competitors.</i></p> <p>2 saddles in one - interchangeable without a saddle</p> <p>The saddle that is comfortable for horse and rider. By cantilevered technology the saddle offers a shock absorbing effect.</p> <p>Universal fit, fits 90% of horses</p>	<p><b>UNFAIR ADVANTAGE</b> <i>Something that competitors do not have or cannot do.</i></p> <p>9</p>	<p><b>CUSTOMER SEGMENTS</b> <i>List your target customers and users.</i></p> <p>Eventers (&amp; multidiscipline riders)</p> <p>1</p>
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<p><b>COST STRUCTURE</b> <i>List your fixed and variable costs.</i></p> <p>Fixed costs: €80k Staff 20k Patent 40k Rent 20k</p>	<p>Variable costs: €170k Stock 100k (150 saddles) Travel 20k Trade Shows 20k Marketing 20k Sundries 10k</p>	<p><b>WHAT ARE YOUR COSTS?</b></p> <ul style="list-style-type: none"> <li>- Do you have sufficient runway funding to get started?</li> <li>For e.g. our breakeven on yr1 was 250k</li> </ul>		

# Lean Canvas



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# Lean Canvas



## PROBLEM

- Need different saddles for different disciplines
- Saddles are often uncomfortable
- Horses require different saddle sizes / horses change shape

## EXISTING ALTERNATIVES

- X2 Saddles
- Second hand saddle market
- Adjustable saddle (by specialist)
- Retro-fit pads

## COST STRUCTURE

List your fixed and variable costs.

### Fixed costs:

- Staff 20k
- Patent 40k
- Rent 20k

### Variable costs:

- Stock 100k (150 saddles)
- Travel 20k
- Trade Shows 20k
- Marketing 20k
- Sundries 10k

## SOLUTION

Outline problem

Modular saddle with interchangeable parts for total flexibility

Soft structural suspension for comfort

DIY panel adjustment to fit a wide range of horses

## KEY METRICS

Key customer activities:  
1. Choosing this saddle over others in the tack room  
2. Testimonial feedback

Success metric:  
250K in first year  
Acquiring 84 direct sales & 133 wholesales

## UNIQUE VALUE PROPOSITION

Single, clear, compelling message that states why you are different and why you matter

2 saddles in one - interchangeable without a saddler

The saddle that is comfortable for horse and rider. By cantilevered technology the saddle offers shock absorbing effect

Uniq of h

## HIGH-LEVEL COM

List your 3 for YouTube + Flickr +

if

## UNFAIR ADVANTAGE

Something that cannot easily be bought or copied

Patent pending

HOW WILL YOU DEFEND YOUR INVESTMENT?

## CUSTOMER SEGMENTS

List your target customers and users.

Eventers (& multidiscipline riders)

1

## EARLY ADOPTERS

List the customer segments that will be the first to buy your product

Semi-pro eventers

List your sources of revenue

Online direct sales - €2000/saddle

Wholesale to independent retailers €1150/saddle

Consumables sold direct  
Flaps €540  
Panels €160

15:00





10:00

# 10 Types of Innovation

**Profit model:** Who might we make additional revenue from x?

**Network:** How might we connect better with partners to create value?

**Structure:** How might we organise, develop or find talent?

**Process:** How might we do what we do better than anybody?

**Product performance:** How might we make x deliver more value?

**Product system:** How might we complement x with additional products

**Brand:** How do we position the brand and transport our values with it?

**Customer engagement:** How can we engage the customer and deliver value by that?

**Service:** How do we create value in servicing the customer?

**Channel:** Which channels do we use to deliver the value?



**Profit model:** How might we make money in a new way?



**Network:** How might we connect better with partners to create value?

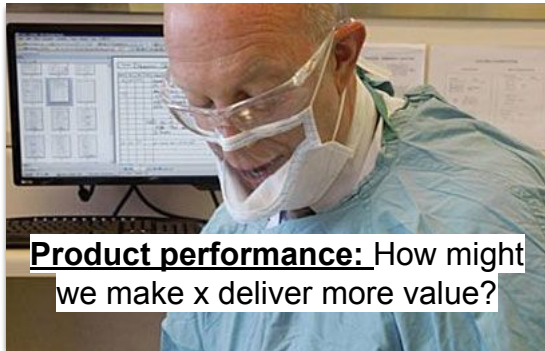


**Structure:** How might we organise, develop or find talent?



**Process:** How might we do what we do better than anybody?

<https://www.doblin.com/ten-types>



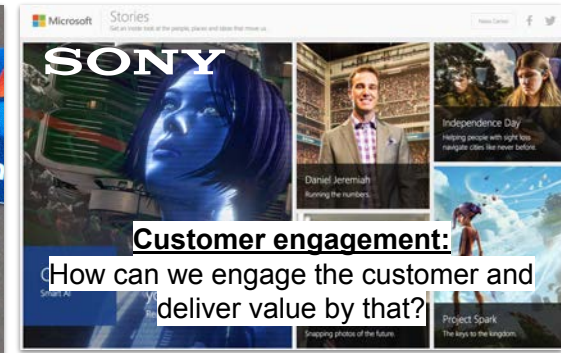
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**Product system:** How might we complement x with additional products



**Brand:** How do we position the brand and transport our values with it?



**Customer engagement:** How can we engage the customer and deliver value by that?



<https://www.doblin.com/ten-types>

**Solution Storyboard**  
Visualise your solution

**FINAL**

1.	2.	3.	4.
CAPTION	CAPTION	CAPTION	CAPTION
5.	6.	7.	8.
CAPTION	CAPTION	CAPTION	CAPTION

actionable



## DESIRABLE

- Customers will love this because?**
- Our target customer for this concept is?**  
(tip: How would you describe your primary customer segment?)
- The problem our customer wants to solve is?** (tip: what does your customer struggle with or what need do they want to fulfill)
- Our customer cannot solve this problem today because?** (tip: what obstacles have prevented customers from solving this)
- The outcome our customer wants to achieve is?** (tip: what qualitative / quantitative outcomes happen in your customer's life)

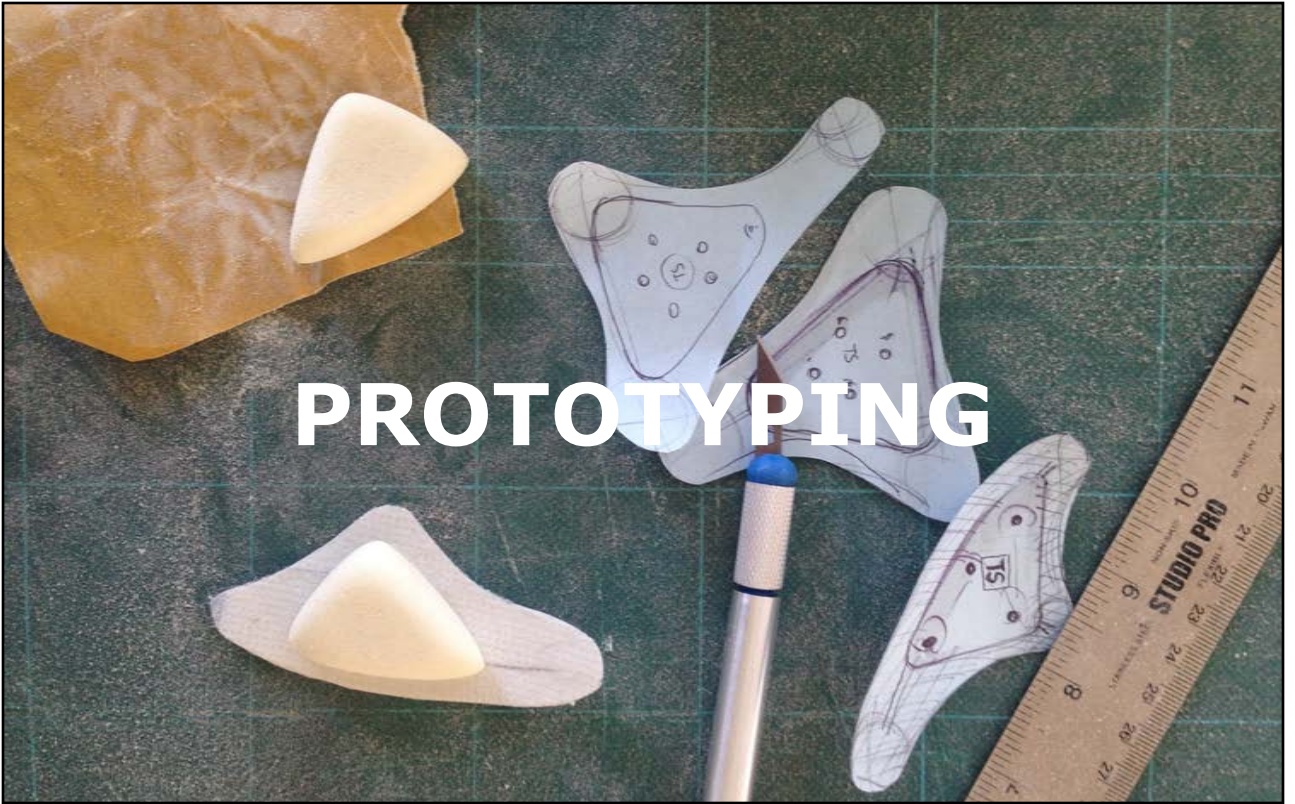
## VIABLE

- Our Early Adopters will be?**  
(tip: what customer segment will be the first to use your?)
- Our acquisition strategy for obtaining new customers is?**  
(tip: what will be your one or two main acquisition channels)
- Our customers will use our product repeatedly because?** (tip: what would customers come back to do and how often would they do it)
- We will generate revenue by?**  
(tip: what will be the primary way you make money)

## FEASIBLE

- Our biggest technical or engineering challenges are?** (tip: what major architecture challenge could get in the way of building)
- Our biggest legal or regulatory risk will be?** (tip: what laws or regulations could prevent you from operating)
- Our primary competitors to our product are?** (tip: list out the top 1-3 competitors to your product)
- Our team is uniquely positioned to win because?** (tip: what makes your team well suited to beat the market)

1. Write one assumption or question per sticky note.
2. Evaluate each item quickly and on your own—roughly plot them on the grid where they make most sense.
3. Once many items are on the grid, begin to discuss and reposition them in relation to each other—how certain are you in knowing the correct answer to the question, and how risky is it if you're wrong?
4. Focus the discussion on the items in the upper-right quadrant. These are the assumptions and questions that most urgently need further validation and inquiry.





Webby People's Voice, Family & Kids Apps, 2016  
Kidscreen Award, Best Game App, 2016  
IDEA Silver, Web and App, 2012  
Webby Award, Parenting, 2011  
Babble.com Top 50 iPhone Apps for Kids, 2010

**Top 100 paid  
iPhone apps in the  
iTunes store.**

***Assumption:***

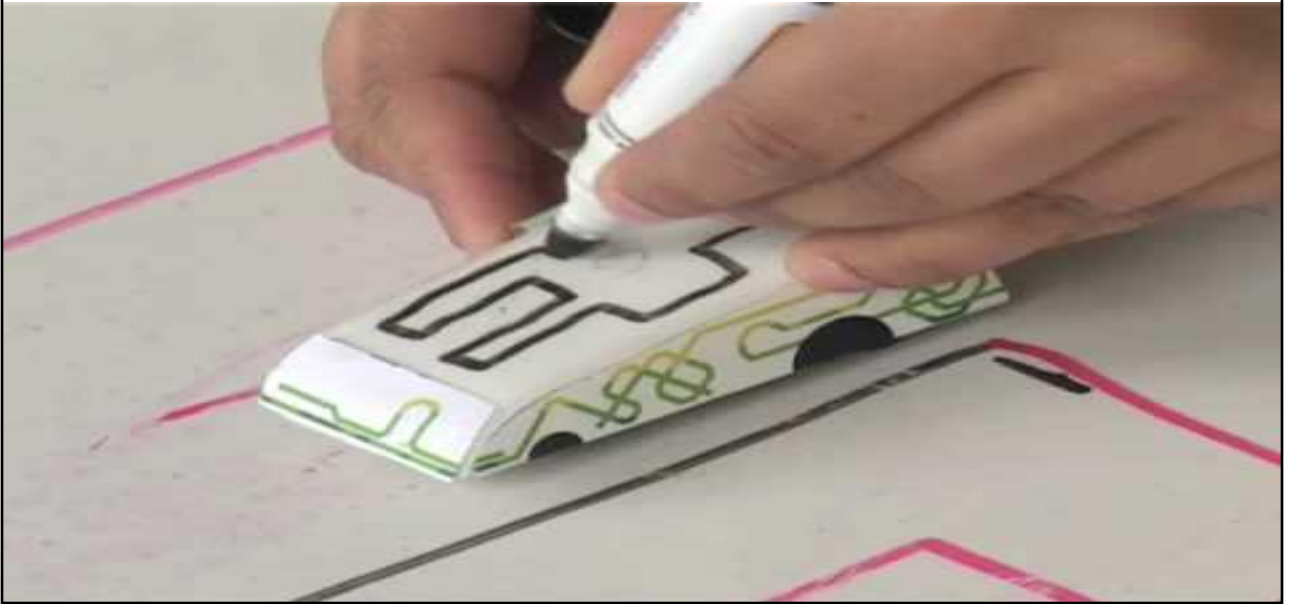
*My new pharmacy service Idea will appeal to the target market*





**Assumption:**

*Kids will enjoy the play with this toy*



*Through the 3" full color touchscreen interface, there are multiple ways to interact with Tech Touch Lightning McQueen.*



**DESIGN YOUR OWN TRACK**

*Draw any shape you want!  
Lightning will race that path!*



**Assumption to be tested:**  
*People will Buy shoes online (1999)*

**Assumption to be tested:**  
*People would Buy shoes online (1999)*



**Zappos.com**  
POWERED BY SERVICE

Shoes, Clothing, Bags, etc. **SEARCH**

**365** Day Return Policy  
In other words, 1 full year!

SEARCH BY: [Size](#), [Narrow Shoes](#), [Wide Shoes](#), [Popular Searches](#)

**SHOES** CLOTHING BAGS & HANDBAGS HOUSEWARES BEAUTY WHAT'S NEW? BRANDS WOMEN'S MEN'S

ALPHABETICAL BRAND INDEX <#> [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#)

**SHOES:** *Now conveniently sold in pairs.*

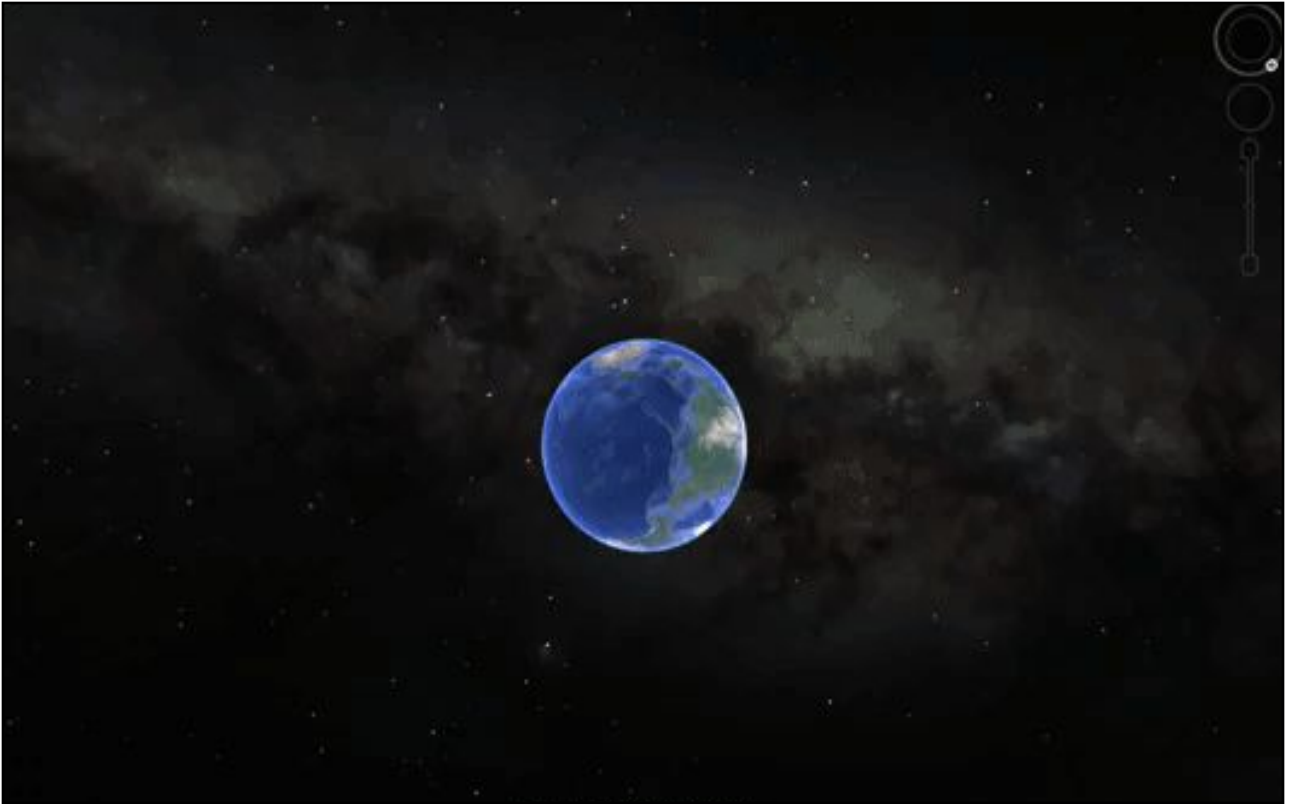
**WOMEN'S SHOES**  
Sandals  
Heels  
Boots  
Sneakers & Athletic Shoes  
Flats  
Clogs & Mules  
Loafers  
Slippers  
Oxfords  
Boat Shoes  
Insoles & Accessories  
Climbing  
[view all...](#)

**NAOT**

**MEN'S SHOES**

***Assumption to be tested:***  
*Customer will appreciate the pricing and value proposition of our radical new pharmacy concept.*

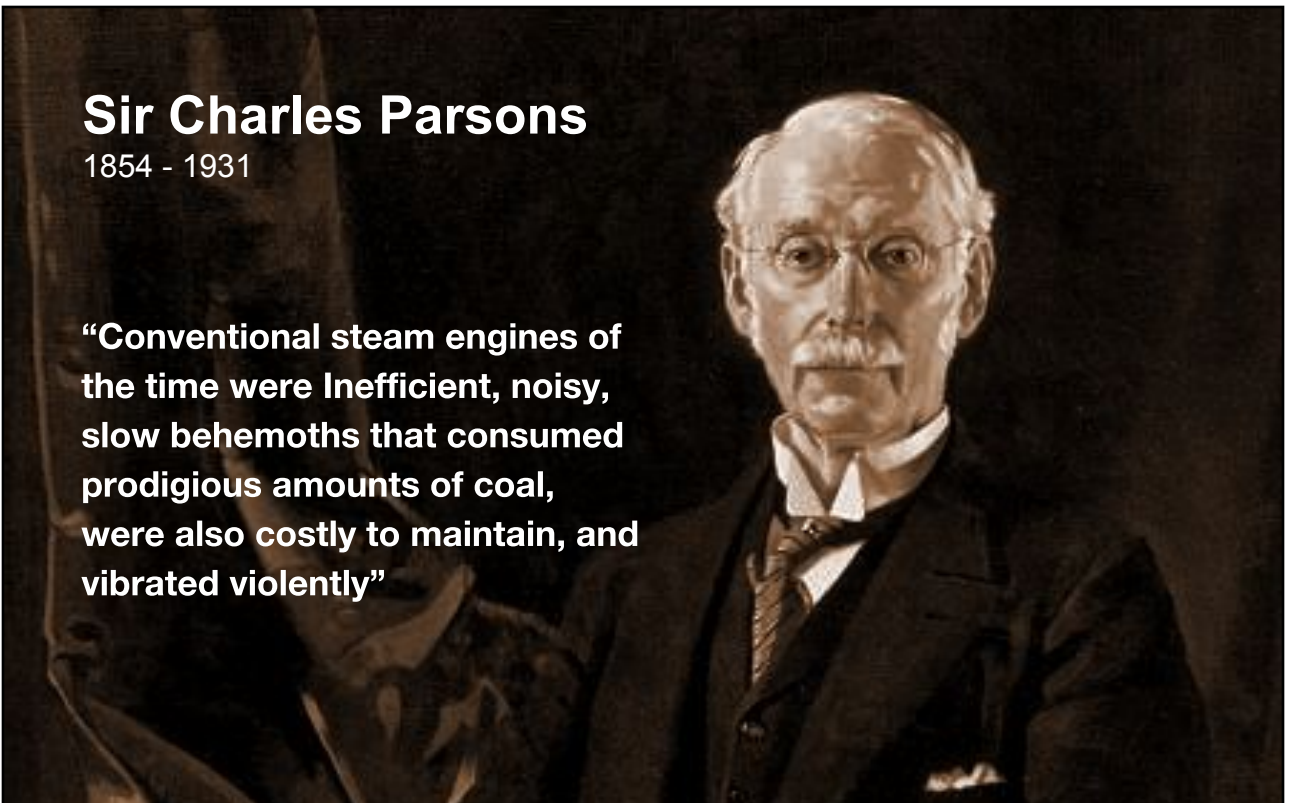


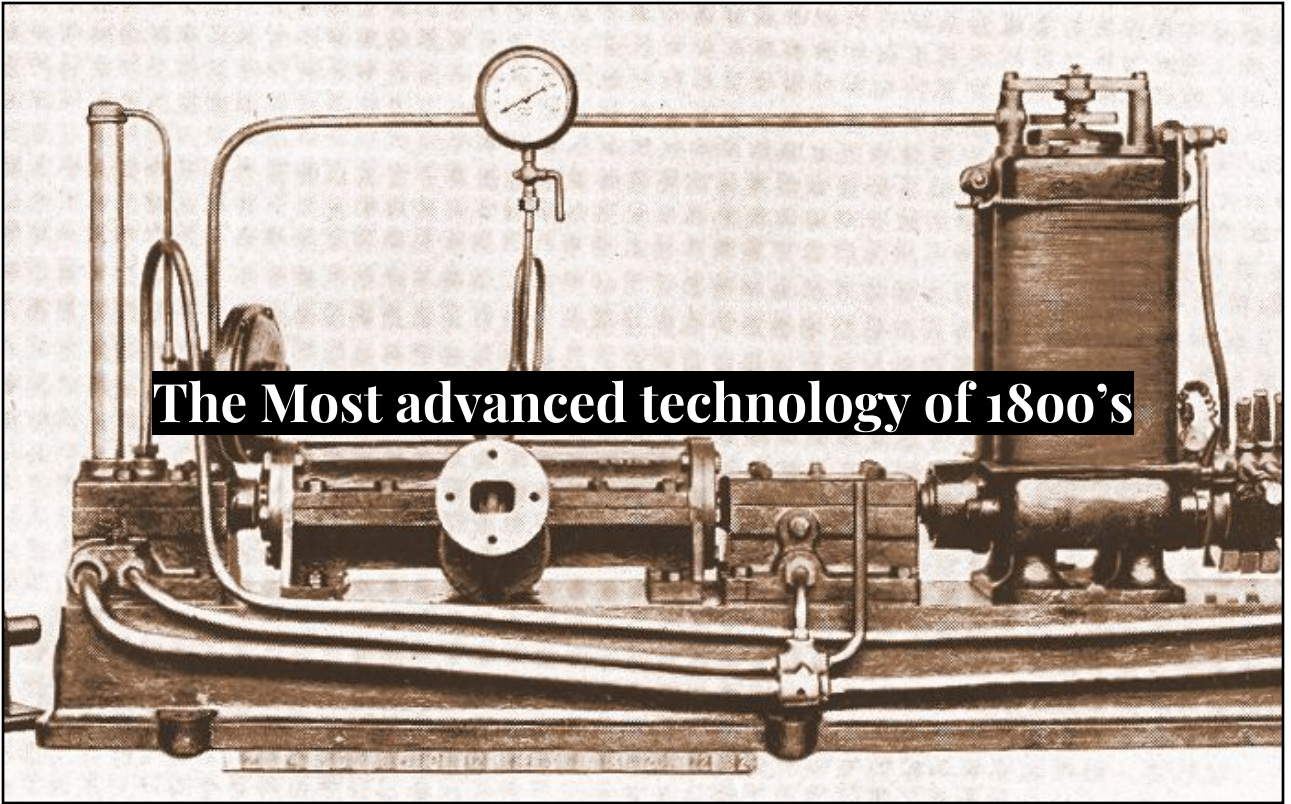


## Sir Charles Parsons

1854 - 1931

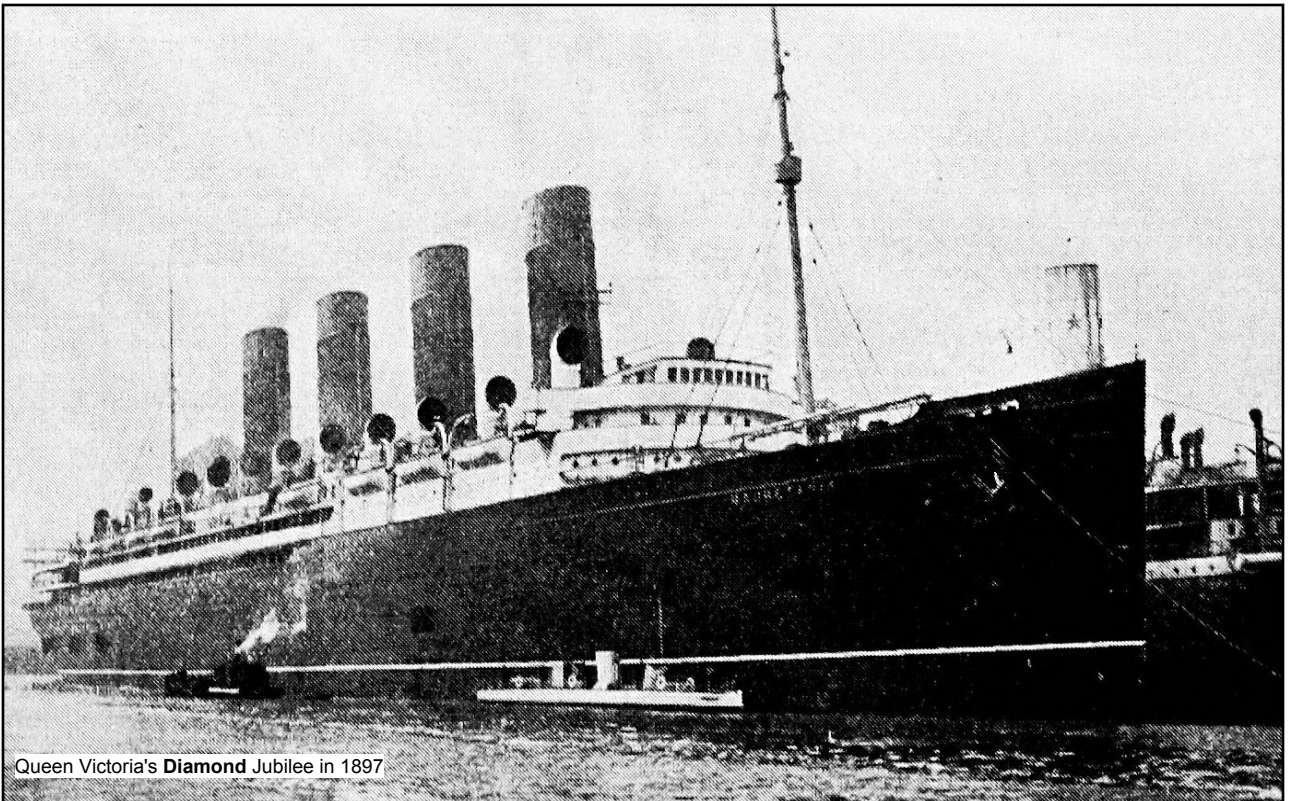
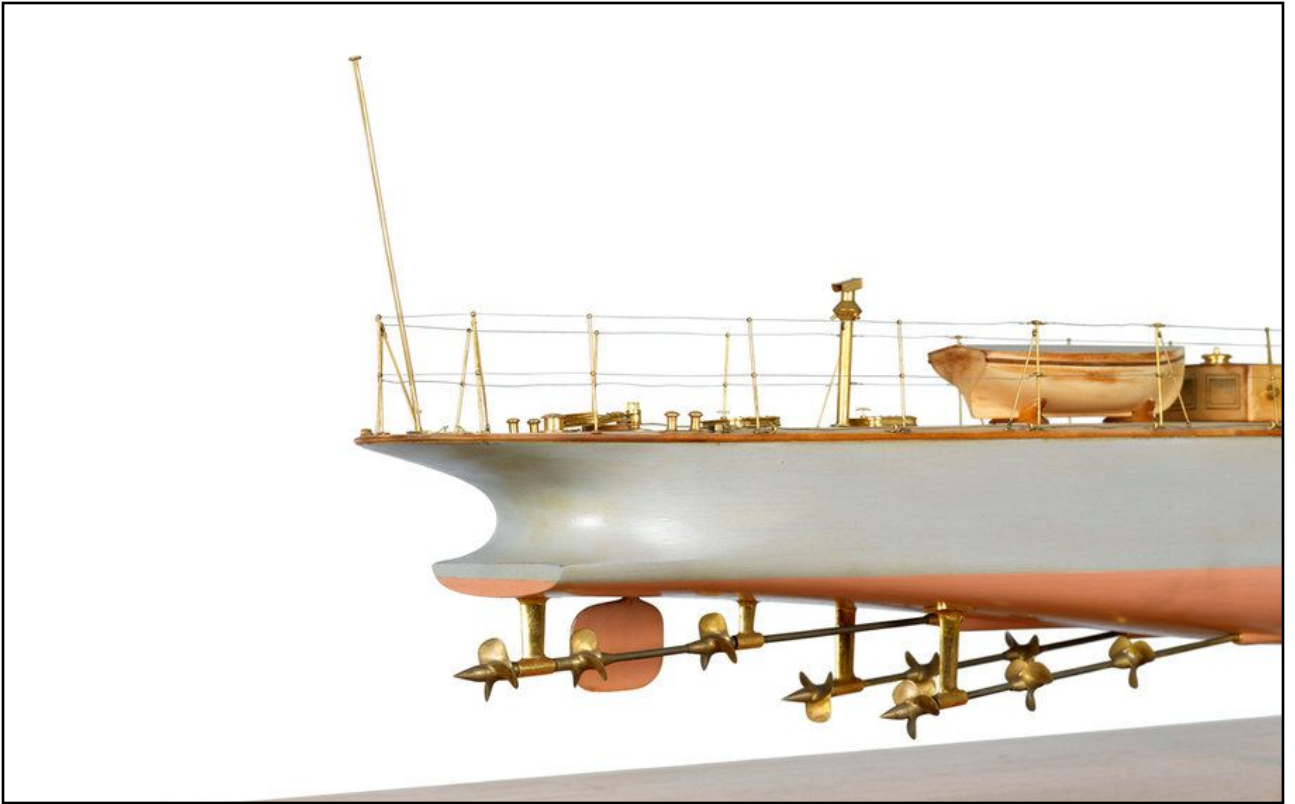
**“Conventional steam engines of the time were Inefficient, noisy, slow behemoths that consumed prodigious amounts of coal, were also costly to maintain, and vibrated violently”**





**“He delighted in the making of models, not for show, but for their utility in the demonstration of some principle in which he was interested at the time”**





Queen Victoria's **Diamond Jubilee** in 1897



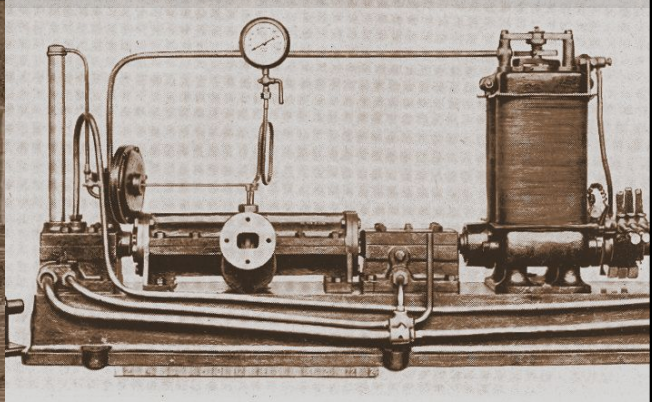
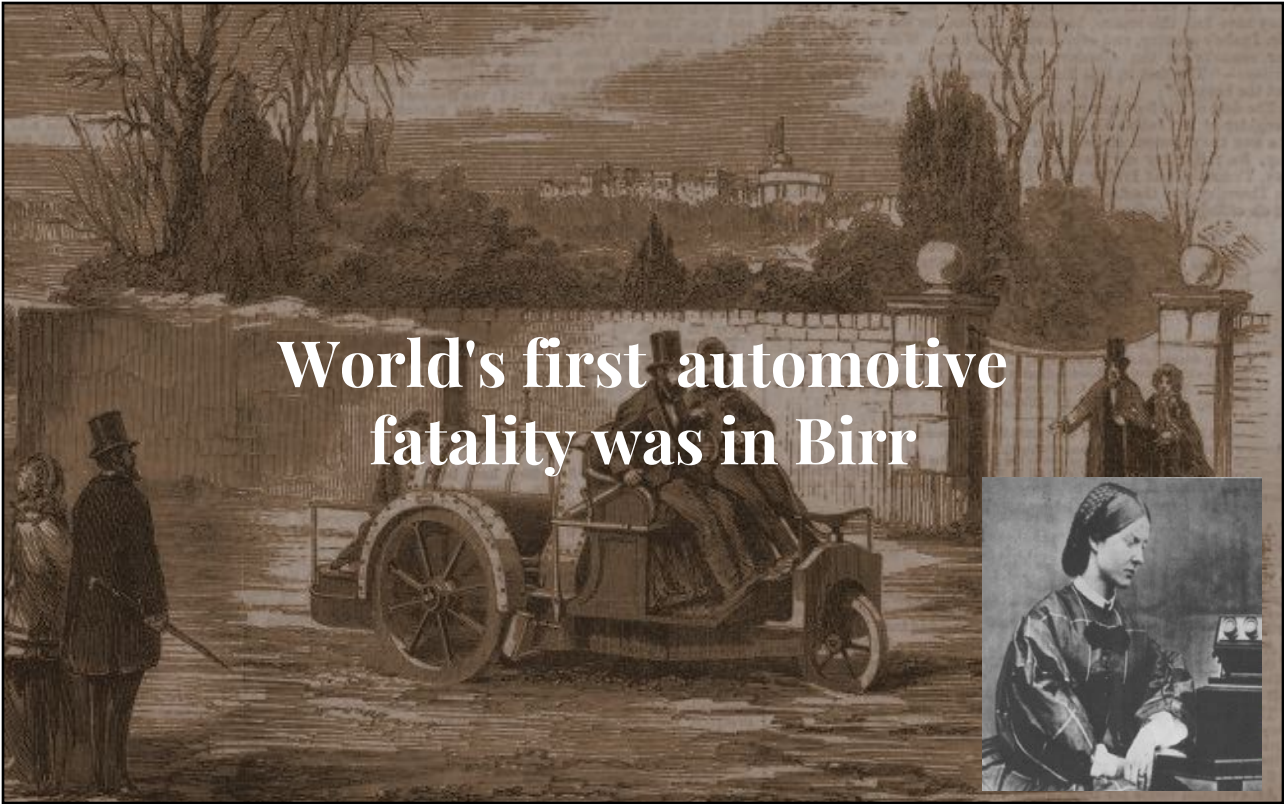


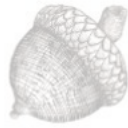
**World's first Dark  
room was in Birr**



**World records for tallest Box  
hedge is in Birr**







Design is a

# Mindset

*Noun: mīn(d)-, set* the established set of attitudes held by someone.



## What was the secret?



**Finding problems worth solving based on human values**



**Big ambition & prepared to start small**



**Iterating & learning project into existence**



**Bridging technology and humanity**



**Experimenting creatively towards desirability, viability & feasibility**



**Created a culture of experimentation**

Thank you!  
Any Questions?

Trevor.vaugh@MU.ie - @TrevorVaugh  
Martin.Ryan@MU.ie

actionable