

Design Thinking

crash course



3 *tools to work on
customer empathy*

by www.boardofinnovation.com

Design Thinking

=

*Innovative
problem solving*



There are 3 types of problems

1

known knowns

You know how to solve them.

2

known unknowns

You know ways to find out how to solve them.

3

big unknowns

You don't know how to solve them because you don't know the **root cause**.

Pssst, before I forget..



I gave a **free online crash course** on
Design Thinking through Hangout

8 December 2015

Replay here

There are 3 types of problems

1

known knowns

You know how to solve them.

2

known unknowns

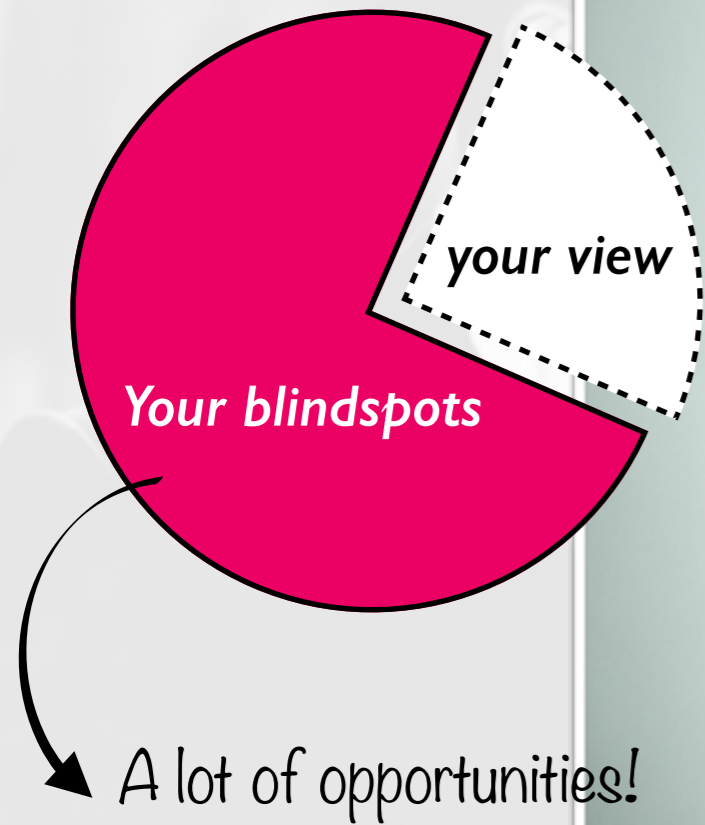
You know ways to find out how to solve them.

3

big unknowns

You don't know how to solve them because you don't know the root cause.

blindspots



Blindspots are the sweet spots for innovation.

Take on a larger point of view by engaging in conversations with your customers. Understanding their view will make you understand the root cause of their problem.

There are 3 types of problems



Not all types of problems are best suited for a Design Thinking approach!

1

known knowns

You know how to solve them.

2

known unknowns

You know ways to find out how to solve them.

3

big unknowns

You don't know how to solve them because you don't know the **root cause**.

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

required activities

execution & implementation

required mindset

checklist thinking

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

2

known unknowns



My smartphone crashed.
What could have caused this?

required activities

execution & implementation

required mindset

checklist thinking

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

required activities

execution & implementation

required mindset

checklist thinking

2

known unknowns



My smartphone crashed.
What could have caused this?

required activities

test, search, sort, solve

required mindset

analytical thinking

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

required activities

execution & implementation

required mindset

checklist thinking

2

known unknowns



My smartphone crashed.
What could have caused this?

required activities

test, search, sort, solve

required mindset

analytical thinking

3

big unknowns



Customer ignores my product.
How can I understand why?

1

known knowns



Bad weather during flight.
Switch off auto-pilot.

required activities

execution & implementation

required mindset

checklist thinking

2

known unknowns



My smartphone crashed.
What could have caused this?

required activities

test, search, sort, solve

required mindset

analytical thinking

3

big unknowns



Customer ignores my product.
How can I understand why?

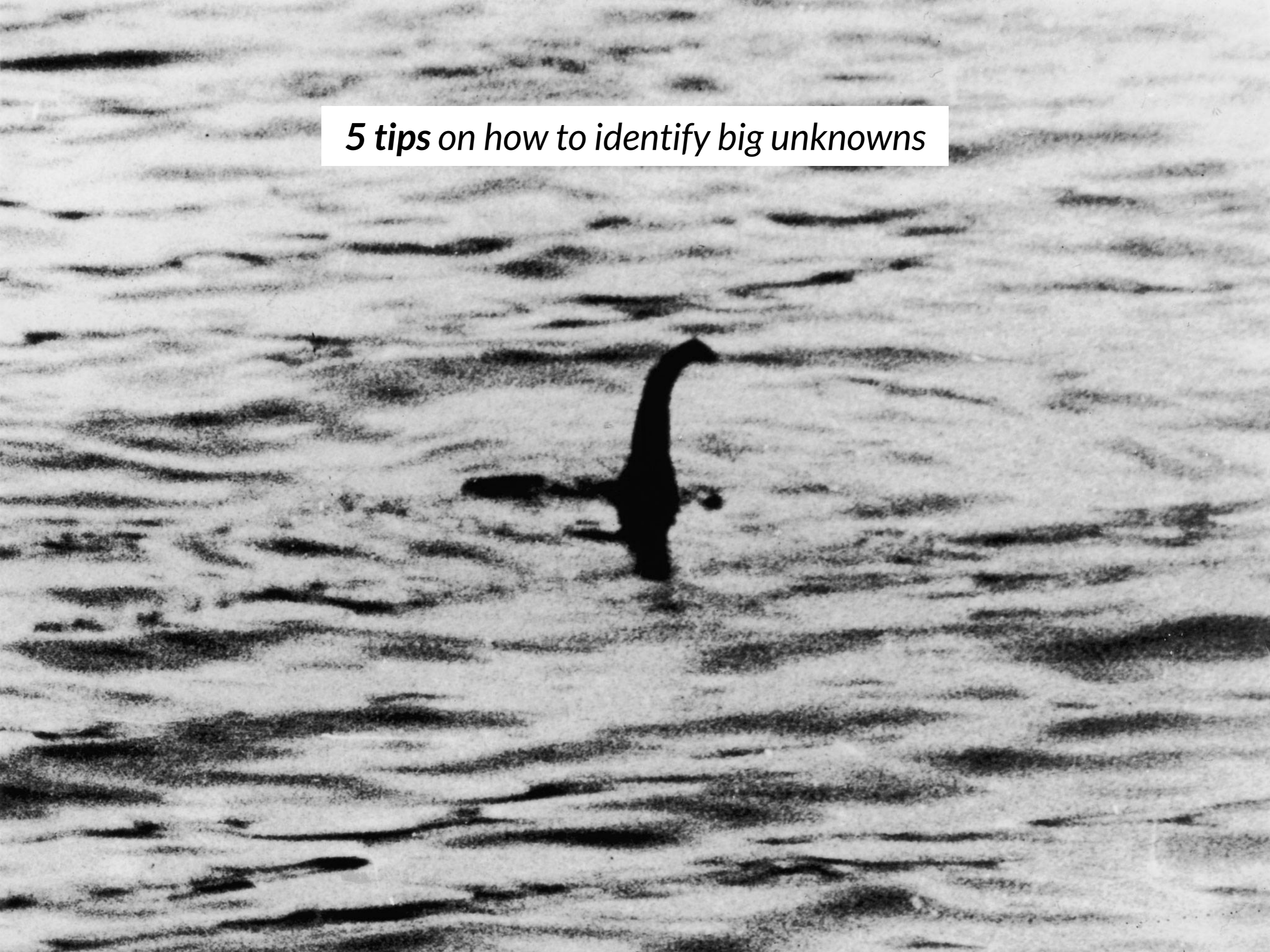
required activities

immersion, engagement

required mindset

Design Thinking

5 tips on how to identify big unknowns



5 tips on how to identify big unknowns

- 1 You are highly unfamiliar with the customers/market needs
- 2 You have little sense of likely outcomes
- 3 You have not seen this type of problem before
- 4 You have no hypotheses to test (yet)!
- 5 Your usual source of data and analytics will not clearly help you find a solution

Design Thinking helps you with solving the right problems



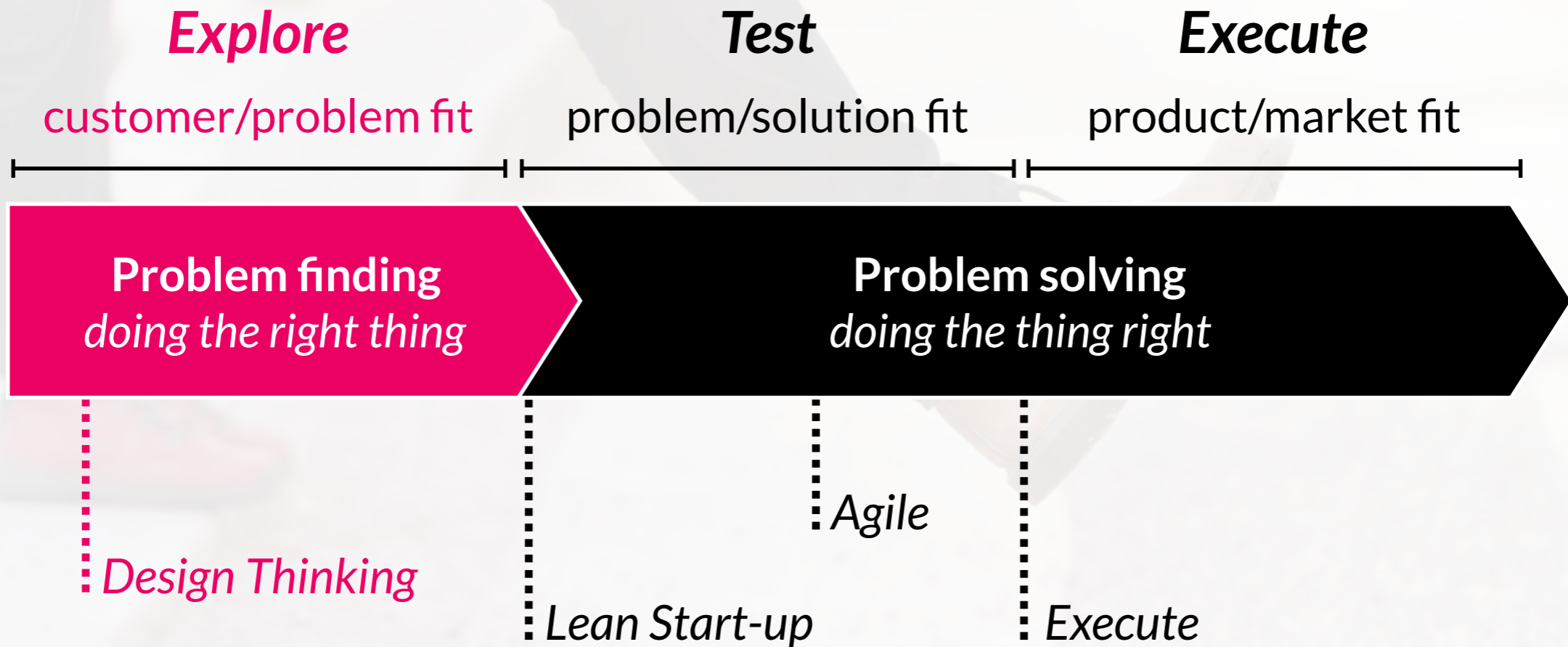
Design Thinking

Lean Start-up

Agile

Execute

3 major steps to create business value



3 major steps to create *business value*

Explore

customer/problem fit

Invent the future. Discover unmet needs of your customer and unsolved problems that he wants solved. Collect insights through immersion and observation.

Test

problem/solution fit

Test your ideas and hypothesis. Prototype and see how consumers react on it. Adjust product, pricing or positioning accordingly.

Execute

product/market fit

Bring the product to life. Identify the activities, capabilities and resources you need to make the product a reality.

3 major steps to create business value

Explore

customer/problem fit

Invent the future. Discover unmet needs of your customer and unsolved problems that he wants solved. Collect insights through immersion and observation.

Test

problem/solution fit

Test your ideas and hypothesis. Prototype and see how consumers react on it. Adjust product, pricing or positioning accordingly.

Execute

product/market fit

Bring the product to life. Identify the activities, capabilities and resources you need to make the product a reality.



Re-frame business problems to customer-centric opportunity spaces that drive value = **invention of business**

Administration of business



What corporates are good at.

Invention of business



What corporates often fail to do!

Administration of business

Exploitation

Static knowledge

Short-term

Incremental steps

Minimal risk

Predictable smaller rewards

Analysis, reasoning, data from the past, mastery

Invention of business

Exploration

Dynamic knowledge

Long-term

Significant leaps forward

High risk

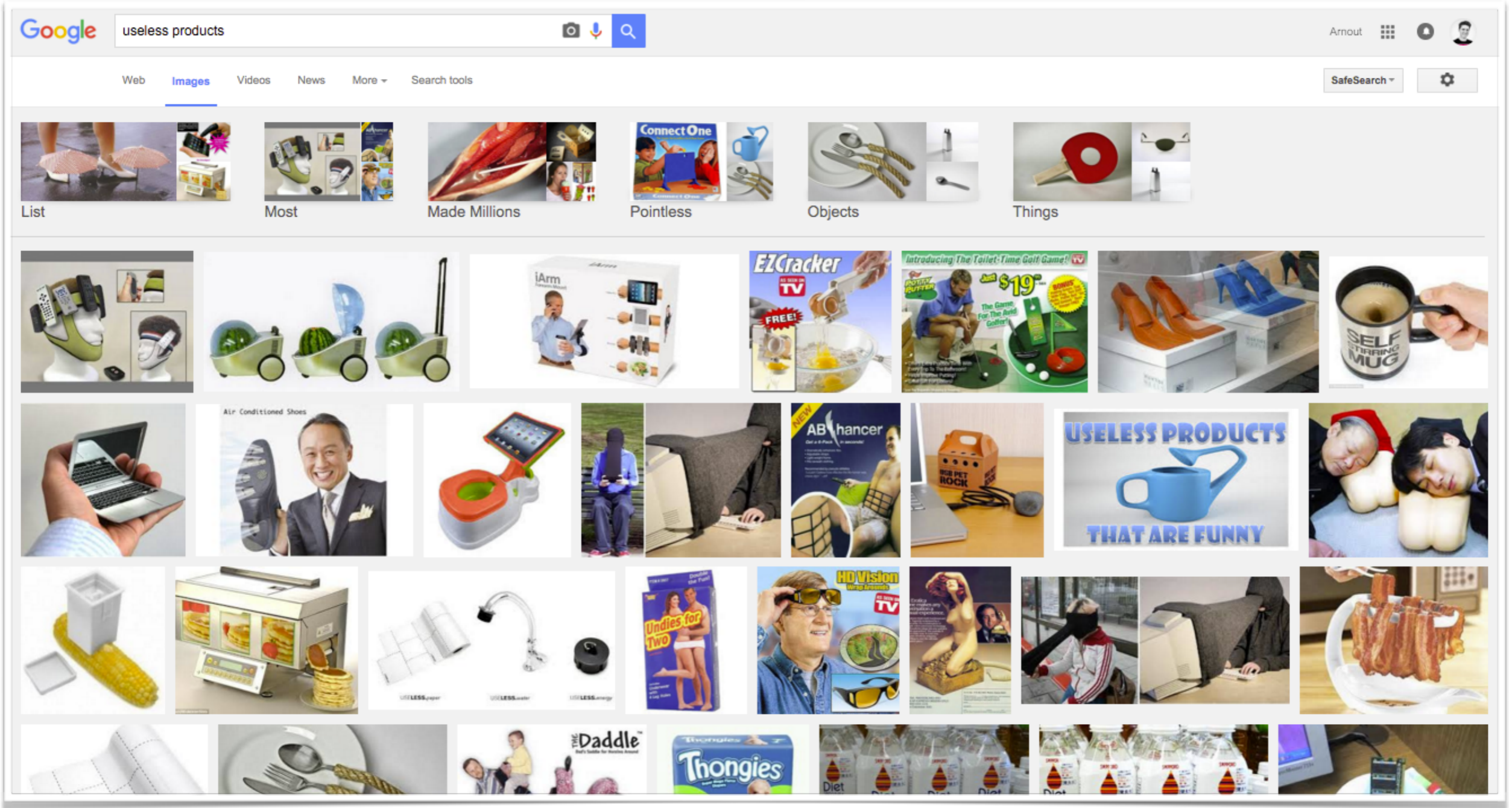
Potentially high rewards

Intuition, feeling, hypotheses of the future, originality



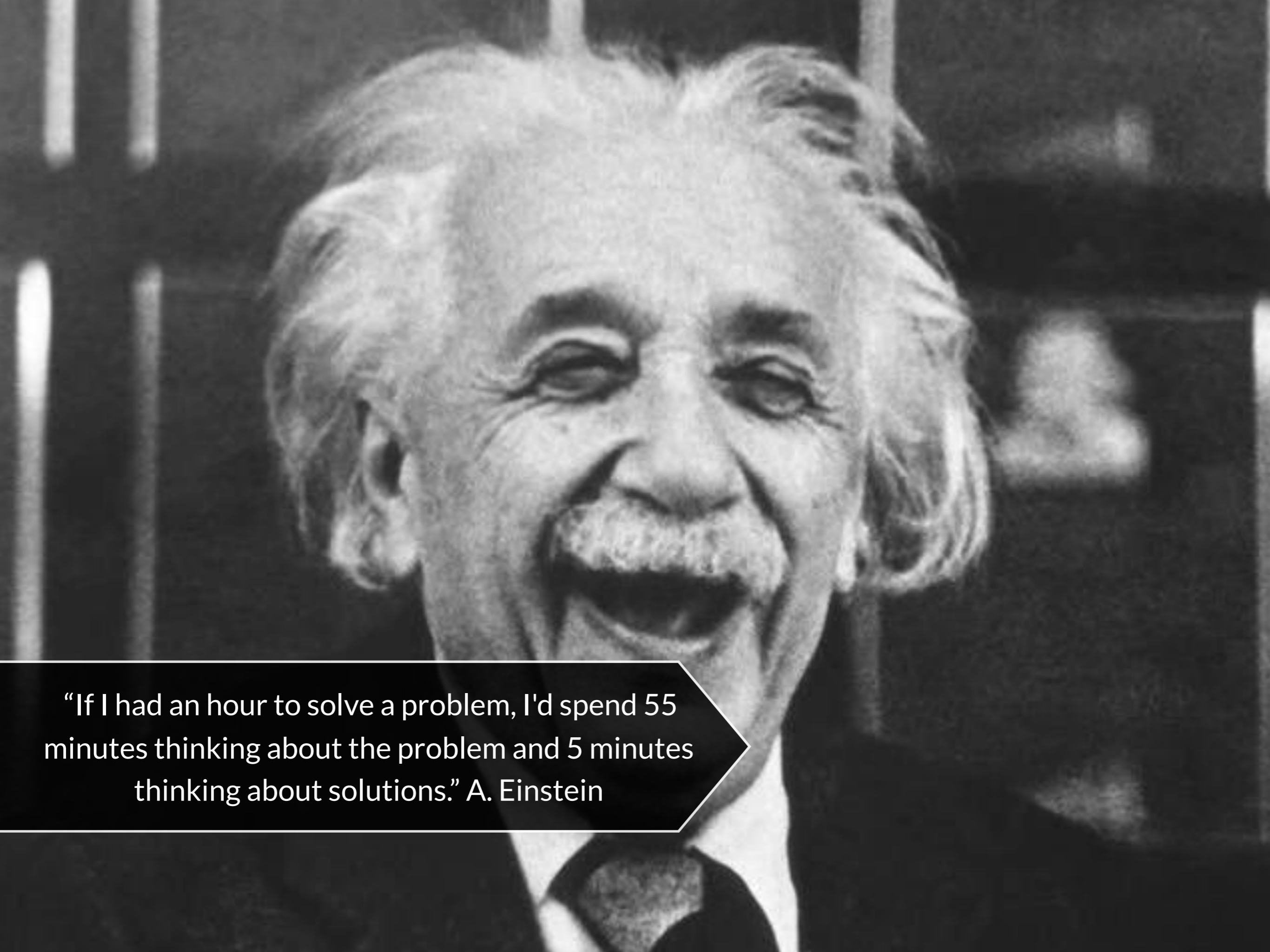
Exploration

How to identify real problems?



We don't need more useless products.

In order to avoid building products or services that nobody will use, we have to solve real problems. If the problem is non-existent, the solution becomes meaningless.



“If I had an hour to solve a problem, I'd spend 55 minutes thinking about the problem and 5 minutes thinking about solutions.” A. Einstein

First identify the root cause of your problem



First identify the root cause of your problem

“Customer ignores my product in store? Why?”

Remember?



First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes



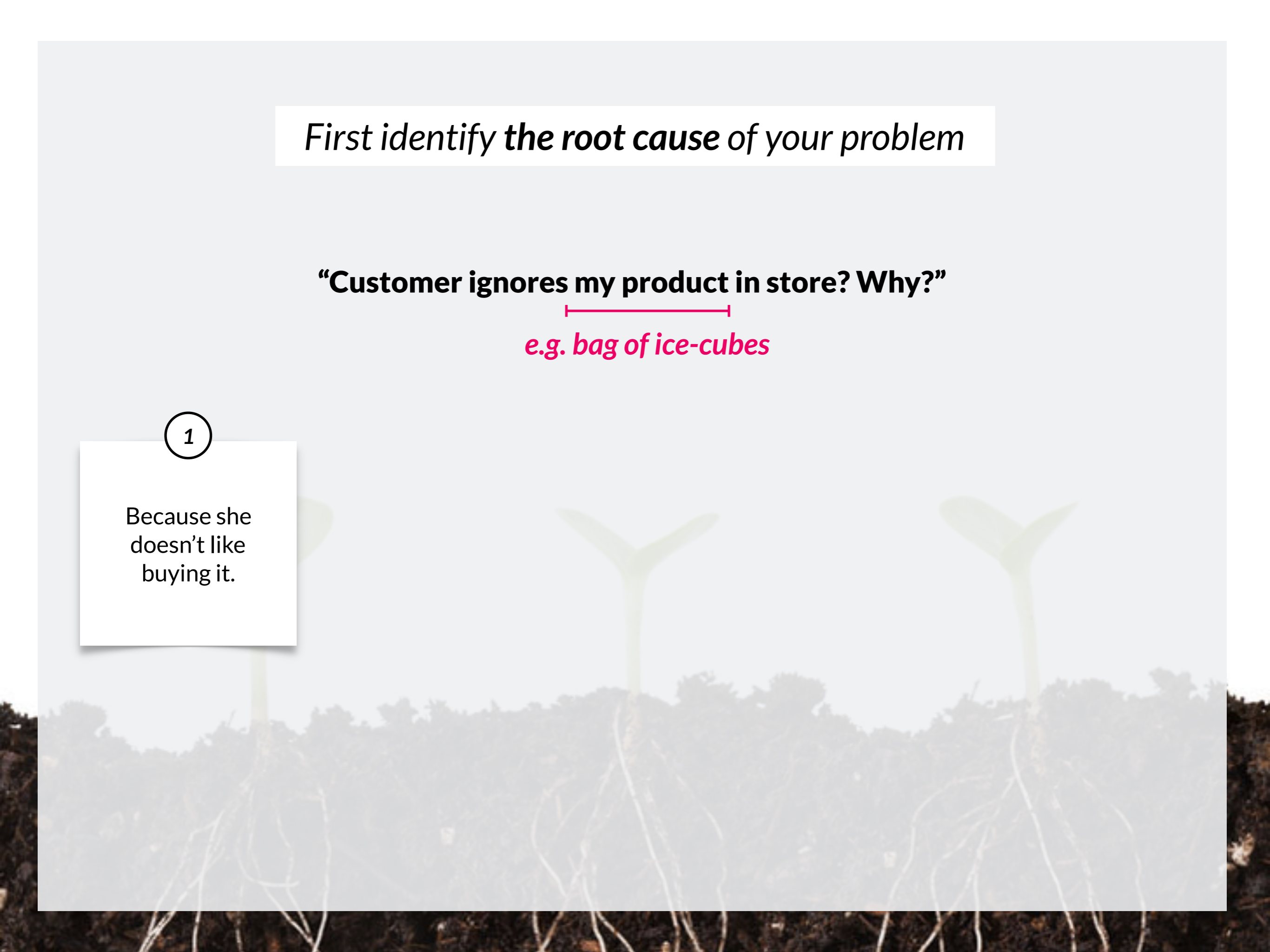
First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

1

Because she
doesn't like
buying it.



First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

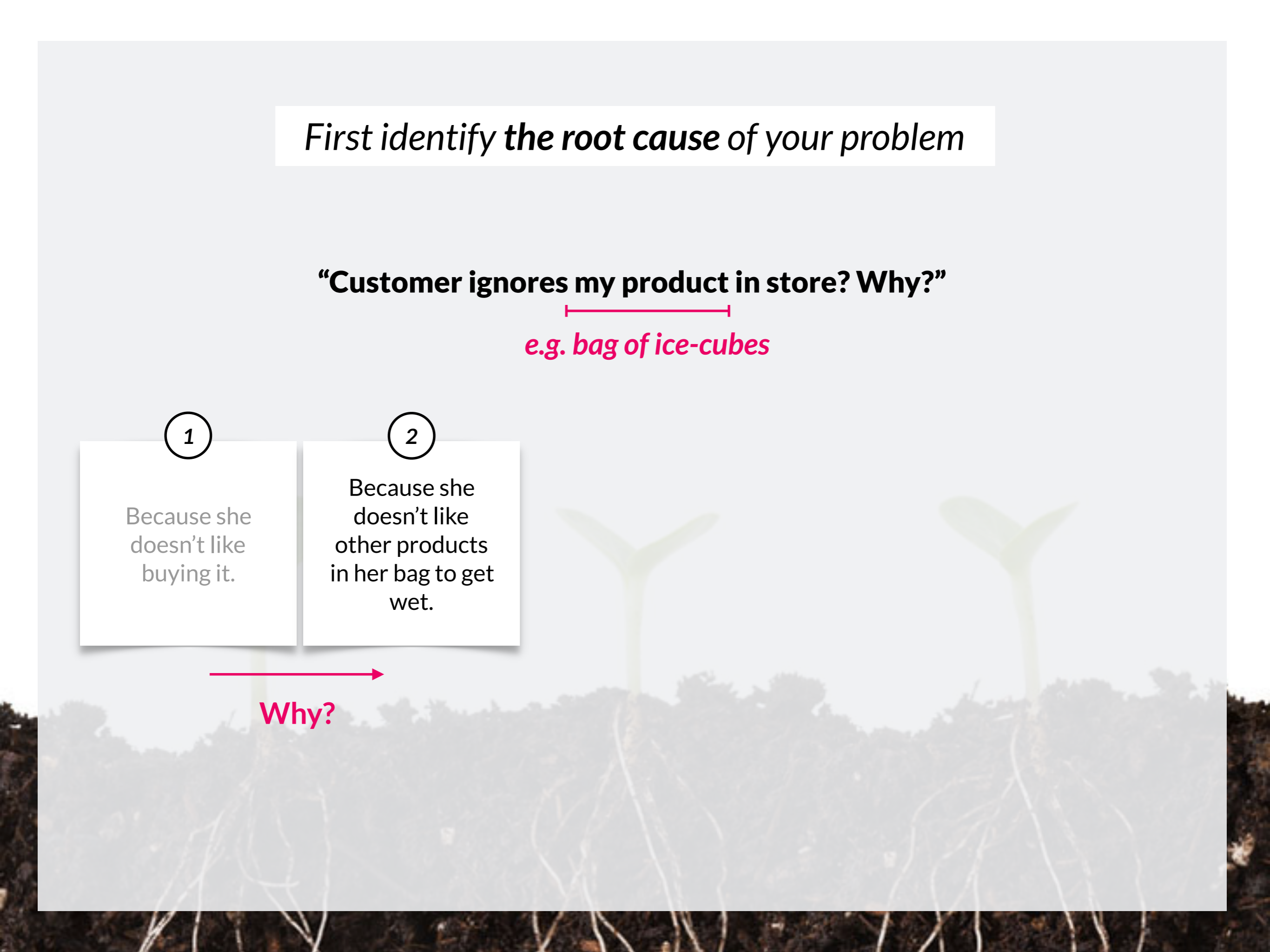
1

Because she
doesn't like
buying it.

2

Because she
doesn't like
other products
in her bag to get
wet.

Why?



First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

1

Because she doesn't like buying it.

2

Because she doesn't like other products in her bag to get wet.

3

Because this affects other products and she doesn't like that.

Why?

Why?

First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

1

Because she doesn't like buying it.

2

Because she doesn't like other products in her bag to get wet.

3

Because this affects other products and she doesn't like that.

4

Because she doesn't want to pay for products in wet packaging.

Why?

Why?

Why?

First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

1

Because she doesn't like buying it.

2

Because she doesn't like other products in her bag to get wet.

3

Because this affects other products and she doesn't like that.

4

Because she doesn't want to pay for products in wet packaging.

5

Because she only wants to pay for quality.

Why?

Why?

Why?

Why?

First identify the root cause of your problem

“Customer ignores my product in store? Why?”

e.g. bag of ice-cubes

1

Because she doesn't like buying it.

2

Because she doesn't like other products in her bag to get wet.

3

Because this affects other products and she doesn't like that.

4

Because she doesn't want to pay for products in wet packaging.

5

Because she only wants to pay for quality.

Counter measure:

position ice-cube bags at the register to be sold after walking through shop

5 Why's Method

Perfect warm-up for Design Thinking!

- 1 helps to dig deeper into the problem of a user experience
- 2 iterative questioning to explore cause-effect
- 3 looking for the root cause of a problem
- 4 5 iterations are typically enough to provide anticipated insights

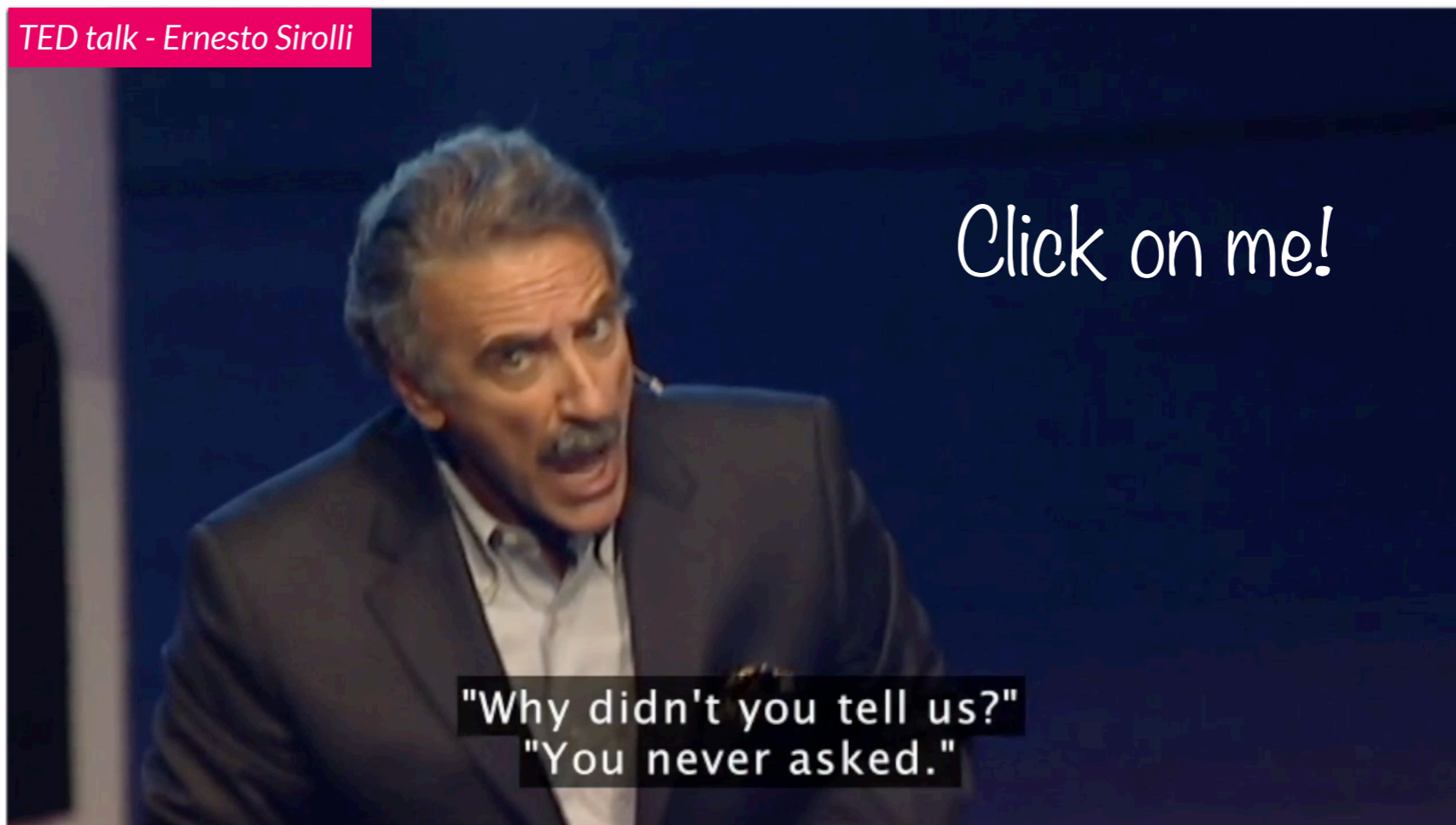
“Design Thinking helps you with identifying the **root cause** of a problem.”

It's called **CUSTOMER EMPATHY.**



Let's learn from *Ernesto's Story*

TED talk - Ernesto Sirolli



Let's go to Zambia & help them set up local agriculture to foster economic development!

3 shortcuts to customer empathy

1

TRY - Immersion



2

LOOK - Observation



3

ASK - Engagement



3 shortcuts to customer empathy

1

TRY - Immersion



Immerse yourself in the experience of others

Figuratively wear many hats.
Try to experience the same as your customer does.
Uncover hurdles, pains, inconveniences, etc.

2

LOOK - Observation



3

ASK - Engagement



3 shortcuts to customer empathy

1

TRY - Immersion



Immerse yourself in the experience of others

Figuratively wear many hats.
Try to experience the same as your customer does.
Uncover hurdles, pains, inconveniences, etc.

2

LOOK - Observation



Observe what people do

From a distance, try to capture insights about your customer.
Stay unobtrusive and almost invisible for the sake of spotting when the problem occurs.

3

ASK - Engagement



3 shortcuts to customer empathy

1

TRY - Immersion



Immerse yourself in the experience of others

Figuratively wear many hats.
Try to experience the same as your customer does.
Uncover hurdles, pains, inconveniences, etc.

2

LOOK - Observation



Observe what people do

From a distance, try to capture insights about your customer.
Stay unobtrusive and almost invisible for the sake of spotting when the problem occurs.

3

ASK - Engagement



Capture what people say they do

Only one rule applies:
engagement should take place in the real environment.
Make people feel comfortable while you are documenting.

3 shortcuts to customer empathy

1

TRY - Immersion



Immerse yourself in the experience of others

2

LOOK - Observation



Observe what people do

3

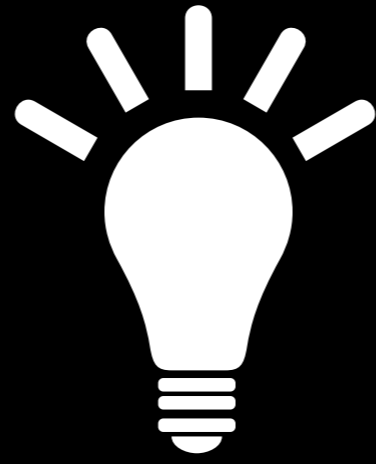
ASK - Engagement



Capture what people say they do



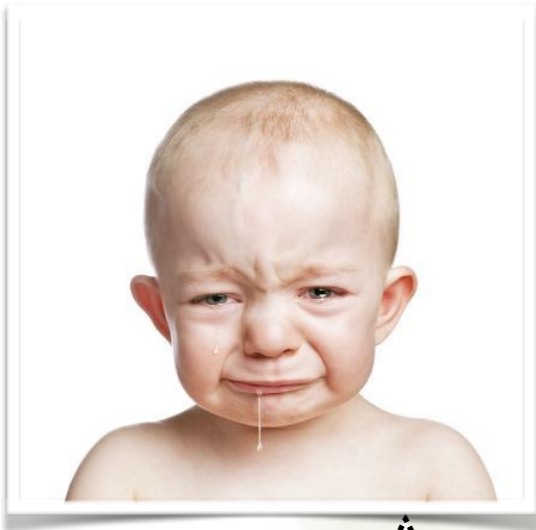
Often not the same ;)



Some examples

1

TRY - Immersion

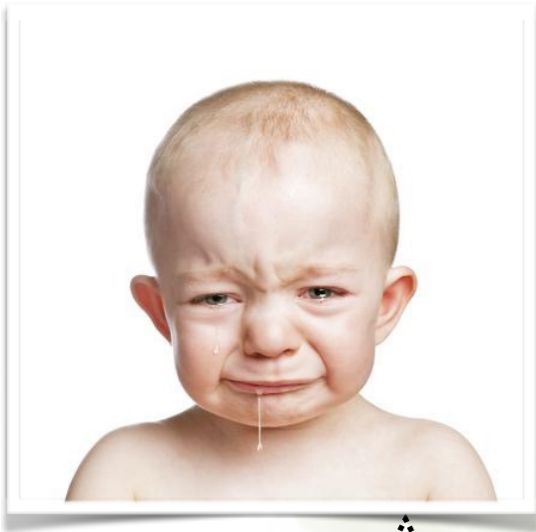


MRI scans require a person not to move, but little kids cry and move around.



1

TRY - Immersion



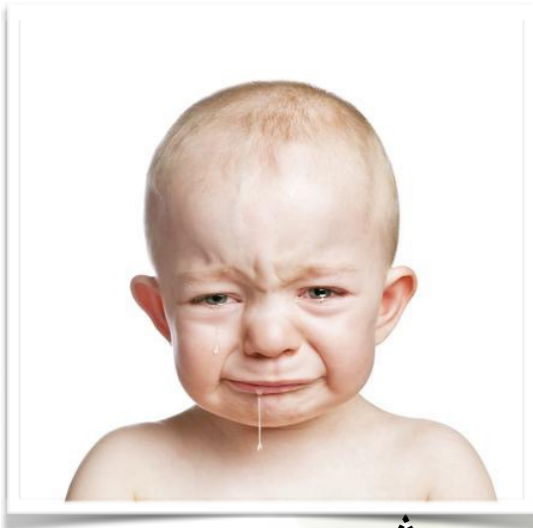
MRI scans require a person not to move, but little kids cry and move around.



By immersing in the experience of a kid they learned that ...

1

TRY - Immersion



MRI scans require a person not to move, but little kids cry and move around.



By immersing in the experience of a kid they learned that ...



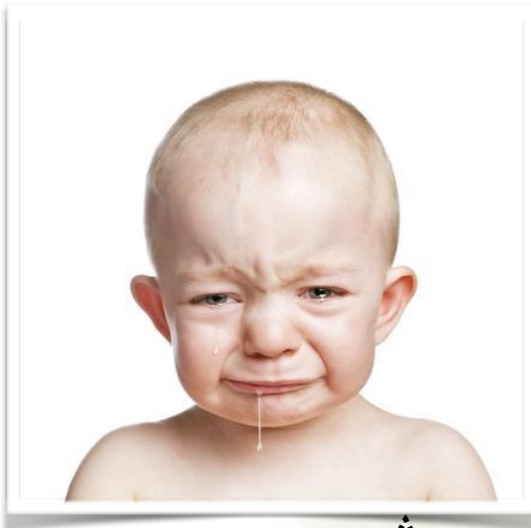
... for a kid an MRI room must be a very stressful and a frightening experience.

valuable insight!

1

TRY - Immersion

SOLUTION



MRI scans require a person not to move, but little kids cry and move around.



By immersing in the experience of a kid they learned that ...



... for a kid an MRI room must be a very stressful and a frightening experience.



Kid-friendly MRI. Simple commands to get the scan done accurately become part of an adventure.

2

LOOK - Observation



Big brewery notices consumption in bars is low, while beer is popular in store.



2

LOOK - Observation



Big brewery notices consumption in bars is low, while beer is popular in stores.



By observing the people's behaviour in the bars, they learned ...

2

LOOK - Observation



Big brewery notices consumption in bars is low, while beer is popular in store.



By observing the people's behaviour in the bars, they learned ...



... waiting staff is not serving beer with great enthusiasm because they are tired of long shifts.

→
valuable insight!

2

LOOK - Observation

SOLUTION



Big brewery notices consumption in bars is low, while beer is popular in store.



By observing the people's behaviour in the bars, they learned ...



... waiting staff is not serving beer with great delight because they are tired of long shifts.



Pick-up service offered by brewery so waiting staff is quicker at work and back home.



Water wells installed
by NGO's are not
being used.

ASK - Engagement



Water wells installed by NGO's are not being used.



Through engaging in their environment, they learned..

ASK - Engagement



Water wells installed by NGO's are not being used.



Through engaging in their environment, they learned..



The road to the water wells is long and the water barrels too heavy.

→
valuable insight!

ASK - Engagement



Water wells installed by NGO's are not being used.



Through engaging in their environment, they learned..



The road to the water wells is long and the water barrels too heavy.

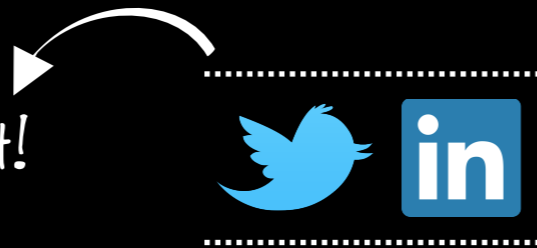
SOLUTION



90 litre Hippo Roller enables user to collect 5 times more water than a single bucket + improved water access.

Thank you!

Let's connect!



arnout@boardofinnovation.com

Board_{of}
Innovation
