

The Policy Project Innovation Seminar

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Wellington, 10th February 2019

STATES
OF
CHANGE

nesta 

Welcome

Check in

What is your experience with
innovation?

What questions or needs do you
have?

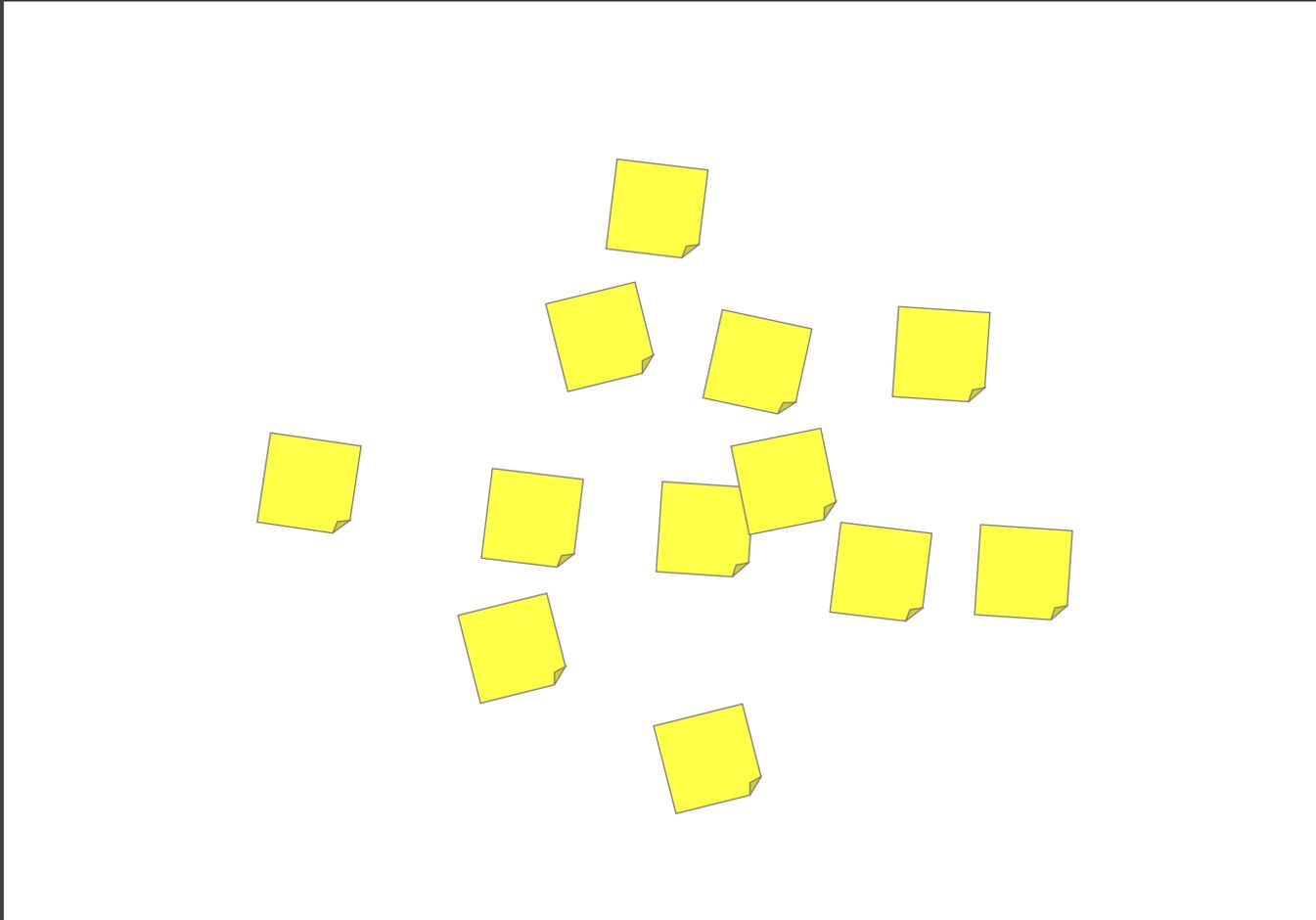
What are the three
keywords that you think
should be found in the
definition of innovation...

Let's start with a
challenge...

The challenge...

How might we tackle
childhood obesity?

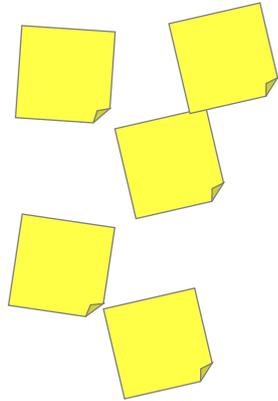
How might we tackle childhood obesity?



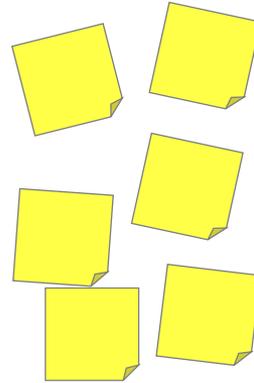
Generate as many ideas as possible.
Write each idea on a post it and stick it on the sheet.



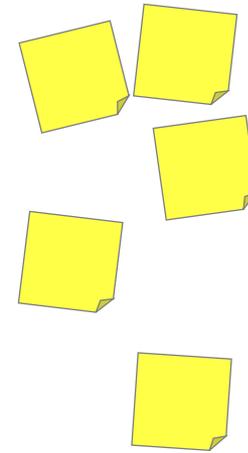
WILL CERTAINLY
WORK



WILL PROBABLY
WORK



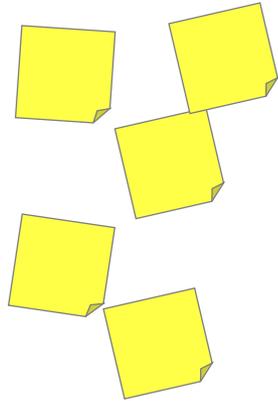
DON'T KNOW IF IT
WILL WORK



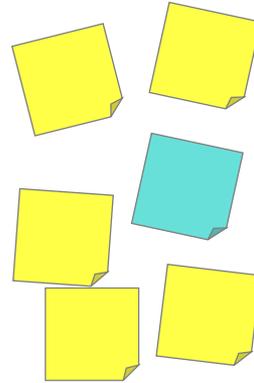
Cluster your ideas into three categories



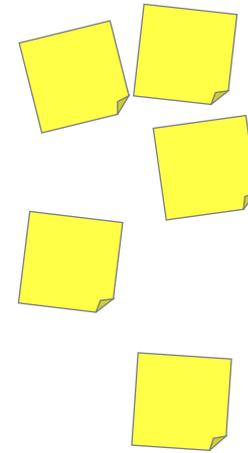
WILL CERTAINLY
WORK



WILL PROBABLY
WORK



DON'T KNOW IF IT
WILL WORK



Select the best idea that you think might work.



Welcome to the room of
the unobvious

In the room of the unobvious we talk ideas but testable hypotheses

*“Innovation amateurs talk
good ideas; innovation
experts talk testable
hypothesis.”*

Michael Schrage

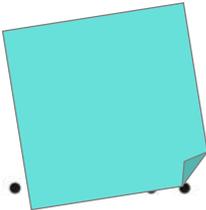
The core of the experimental mindset

~~IDEAS → SOLUTION~~

IDEAS → HYPOTHESIS

*“A hypothesis is a testable
belief about future value
creation”*

Michael Schrage

if  **then**

[the action you will take] [the change you expect to see]

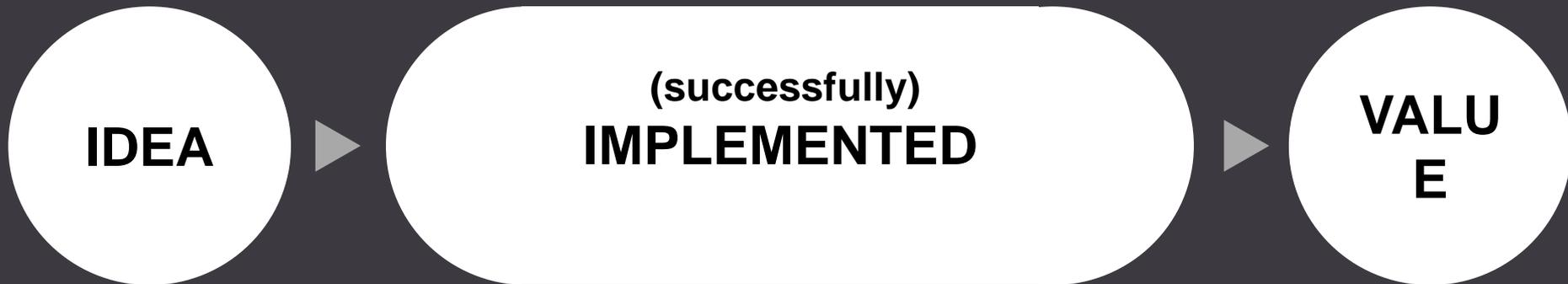
STATES^{of}
CHANGE

Turn your idea into a testable hypothesis.



Back to the definition of
innovation...

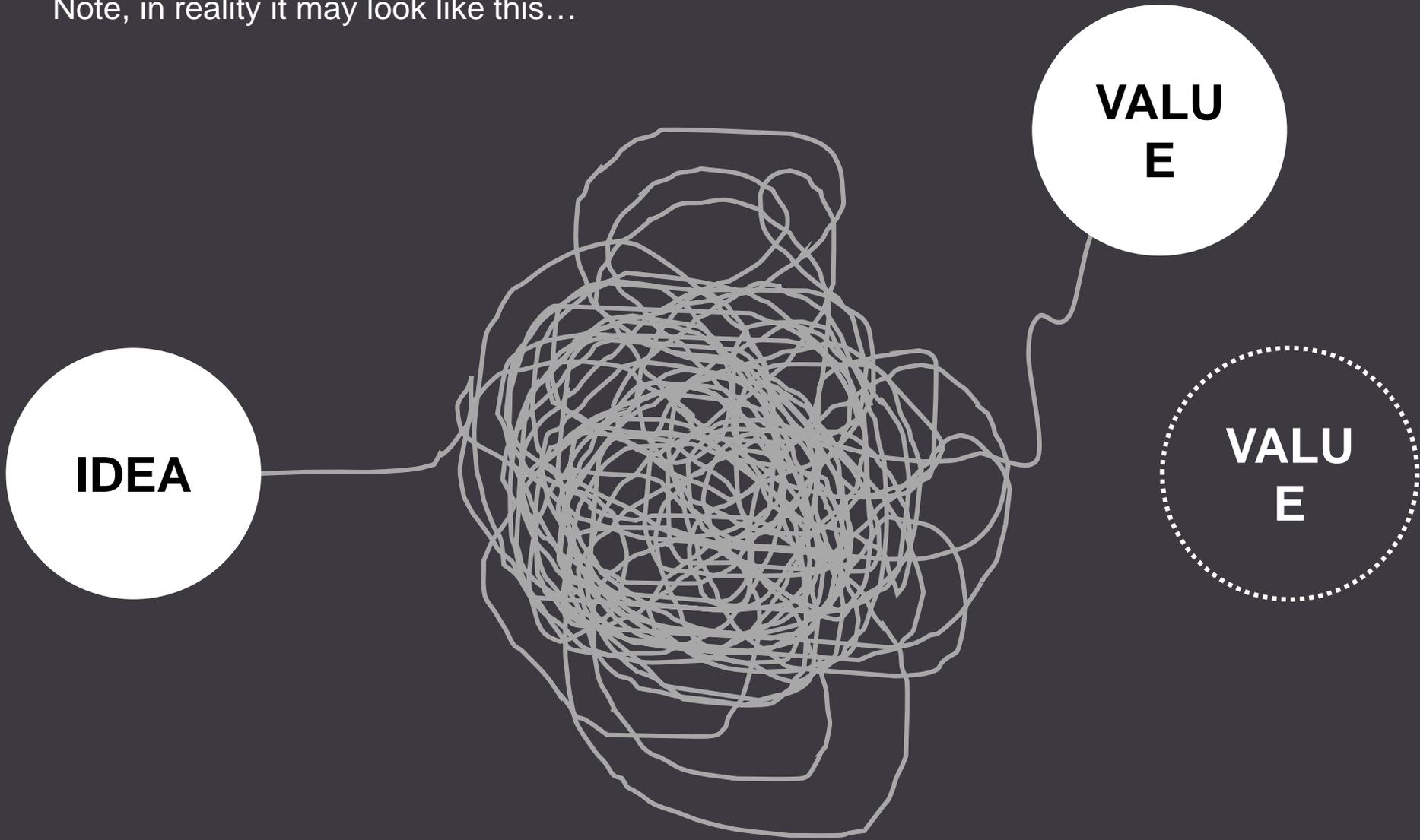
Back to the definition of innovation... here is our "1 minute definition"



EXPERIMENTATION PROCESS

Turning ideas into testable hypotheses
and find out what works and what doesn't.

Note, in reality it may look like this...



Experimentation is a
systematic way of dealing
with uncertainty.

Moving from the unknown to known

SOLUTIONS ARE UNKNOWN

Understanding of the
problem is unclear. Risk
cannot be managed.

SOLUTIONS ARE KNOWN

Understanding of the
problem is clear. Risk can
be managed.

Three categories of experimentation

Embrace uncertainty

Manage risk



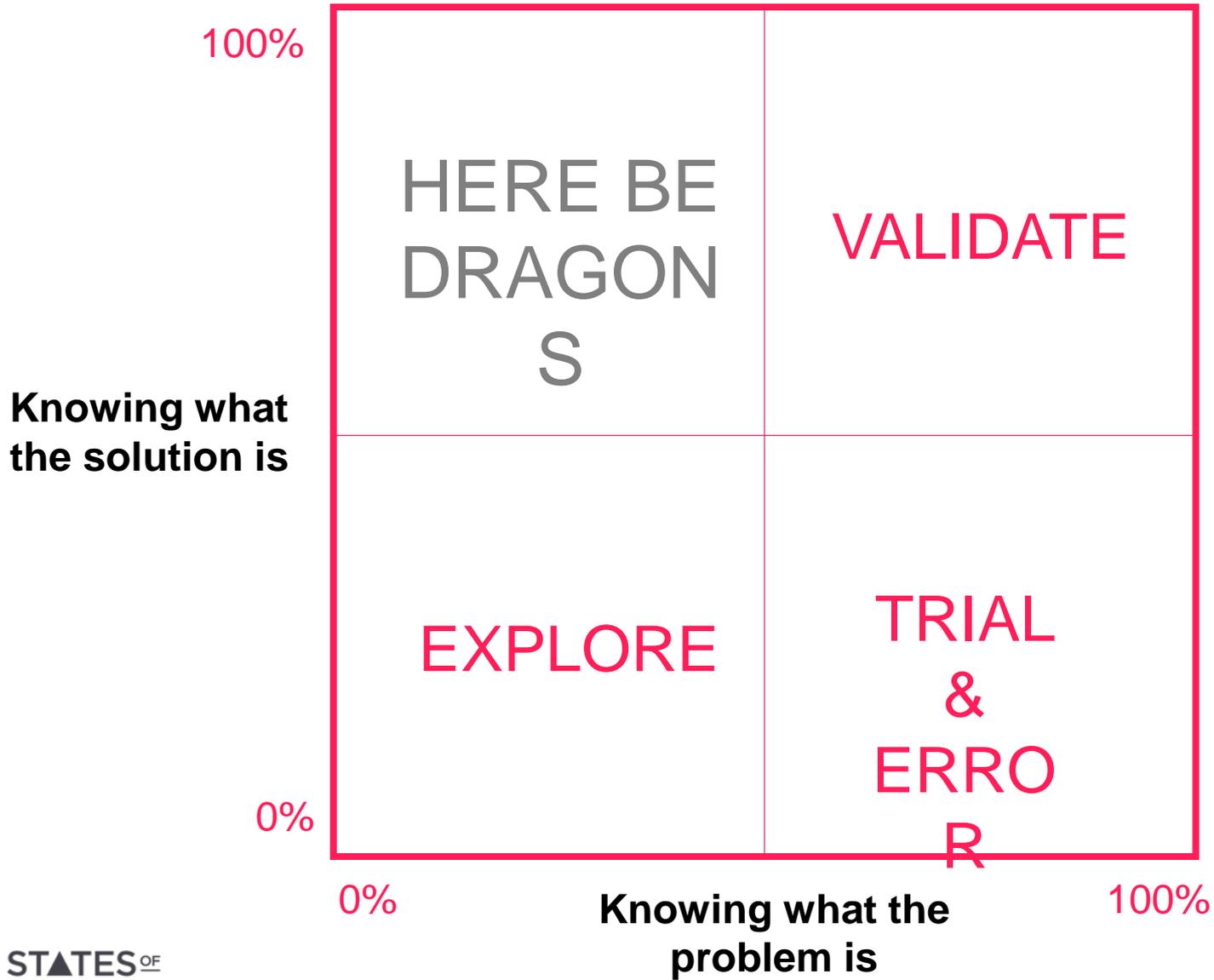
SOLUTIONS ARE UNKNOWN Understanding of the problem is unclear. Risk cannot be managed.		SOLUTIONS ARE KNOWN Understanding of the problem is clear. Risk can be managed.
EXPLORE GENERATING HYPOTHESES What might be Shaping direction Action is taken to open up new possibilities	TRIAL-AND-ERROR ESTABLISHING A HYPOTHESIS What could be Creating basis for redesign Action is taken to find out what works	VALIDATE VALIDATING A HYPOTHESIS What should be Legitimising initiative Action is taken to justify decision making
SUGGESTED METHODS		
Speculative Design, Foresight, Ethnographic Research, Positive Deviance, etc	Prototyping, Human Centred Design, Behavioural Economics, etc	Randomised Control Trials, Pilots, A/B Testing, Multiple Parallel Experiments, etc

Three mindsets



Which has implications for team design

What do you actually know?



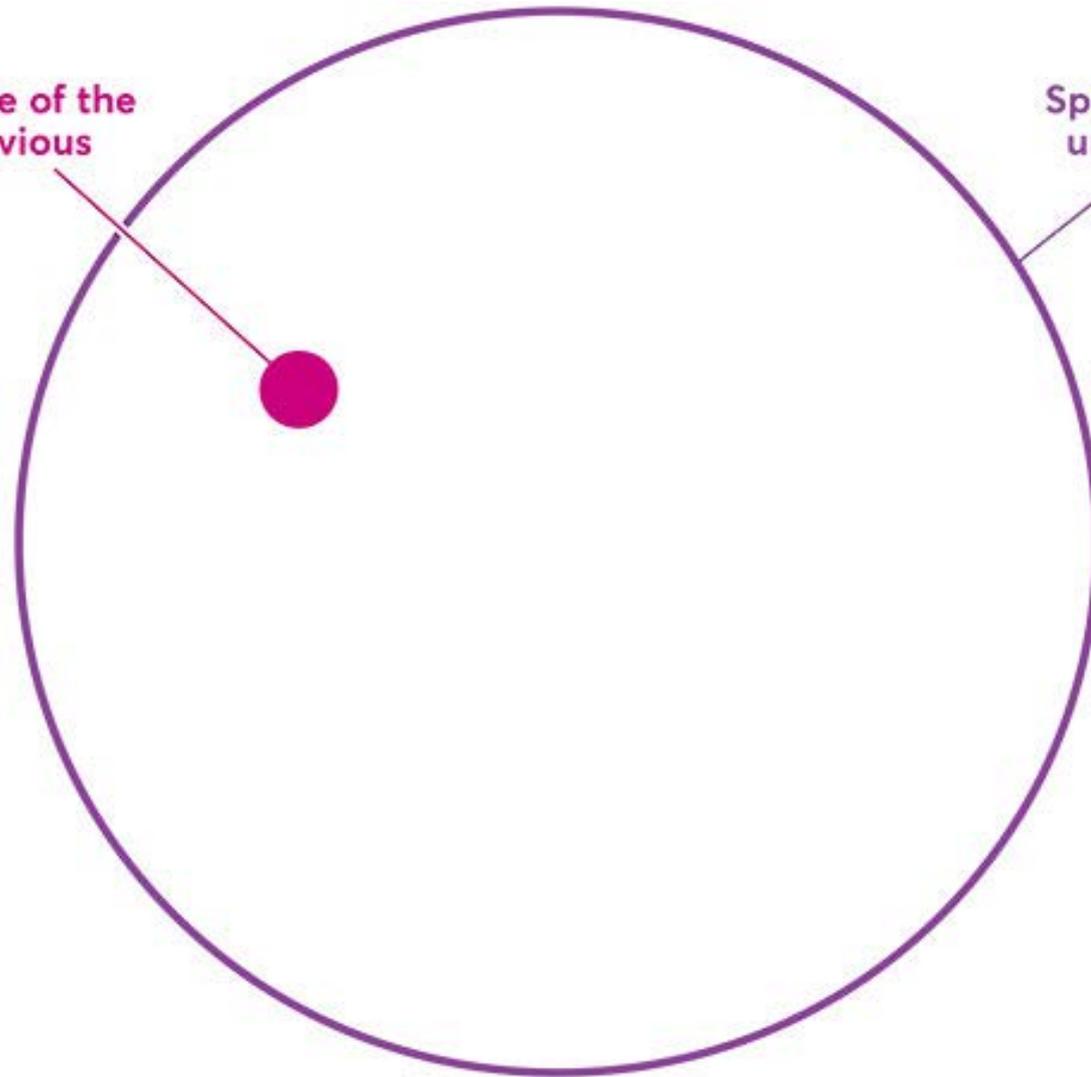
Why we should explore (the
unobvious)...

The streetlight effect: we tend to look where it is easiest

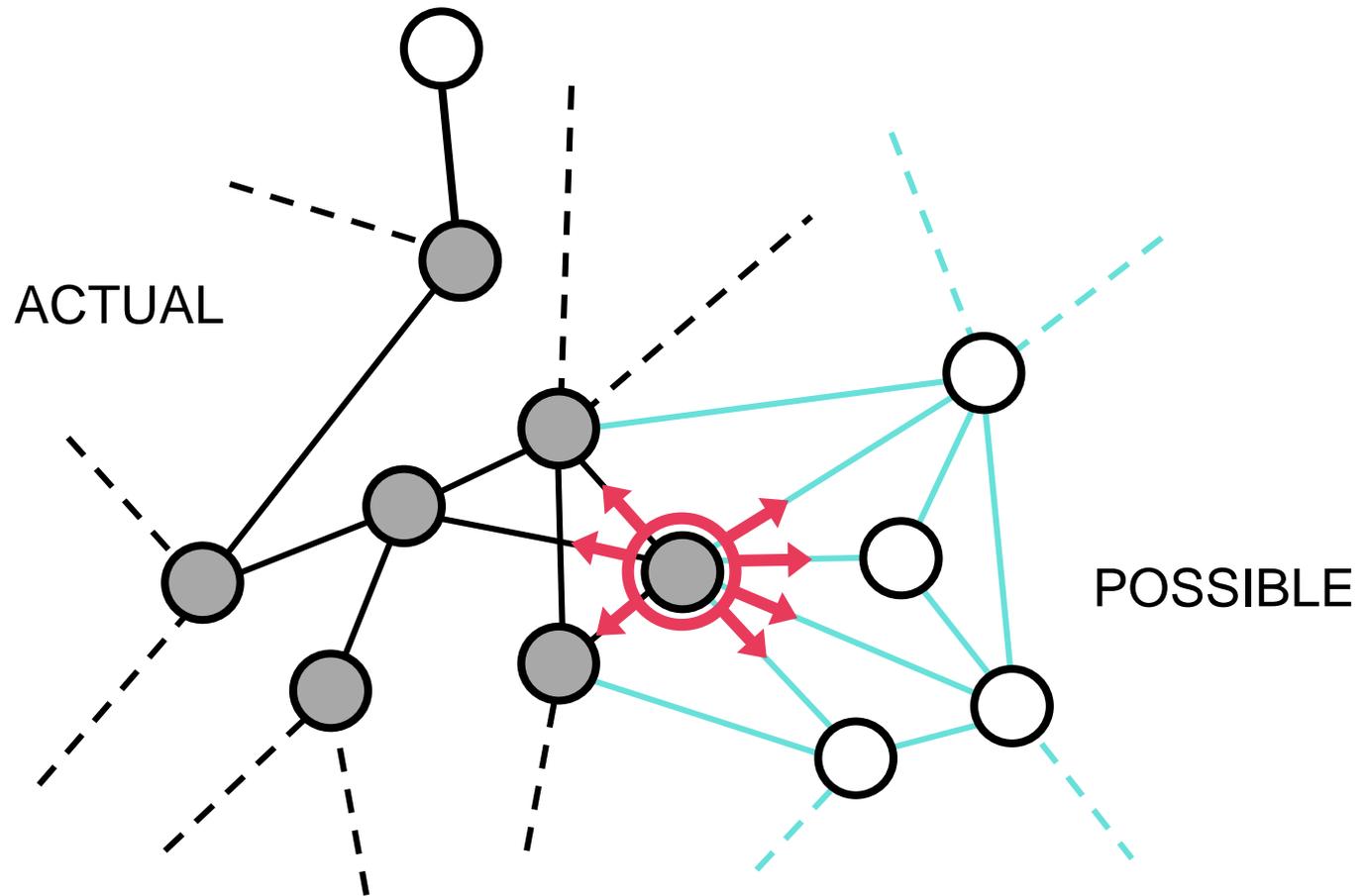


Space of the obvious

Space of the unobvious

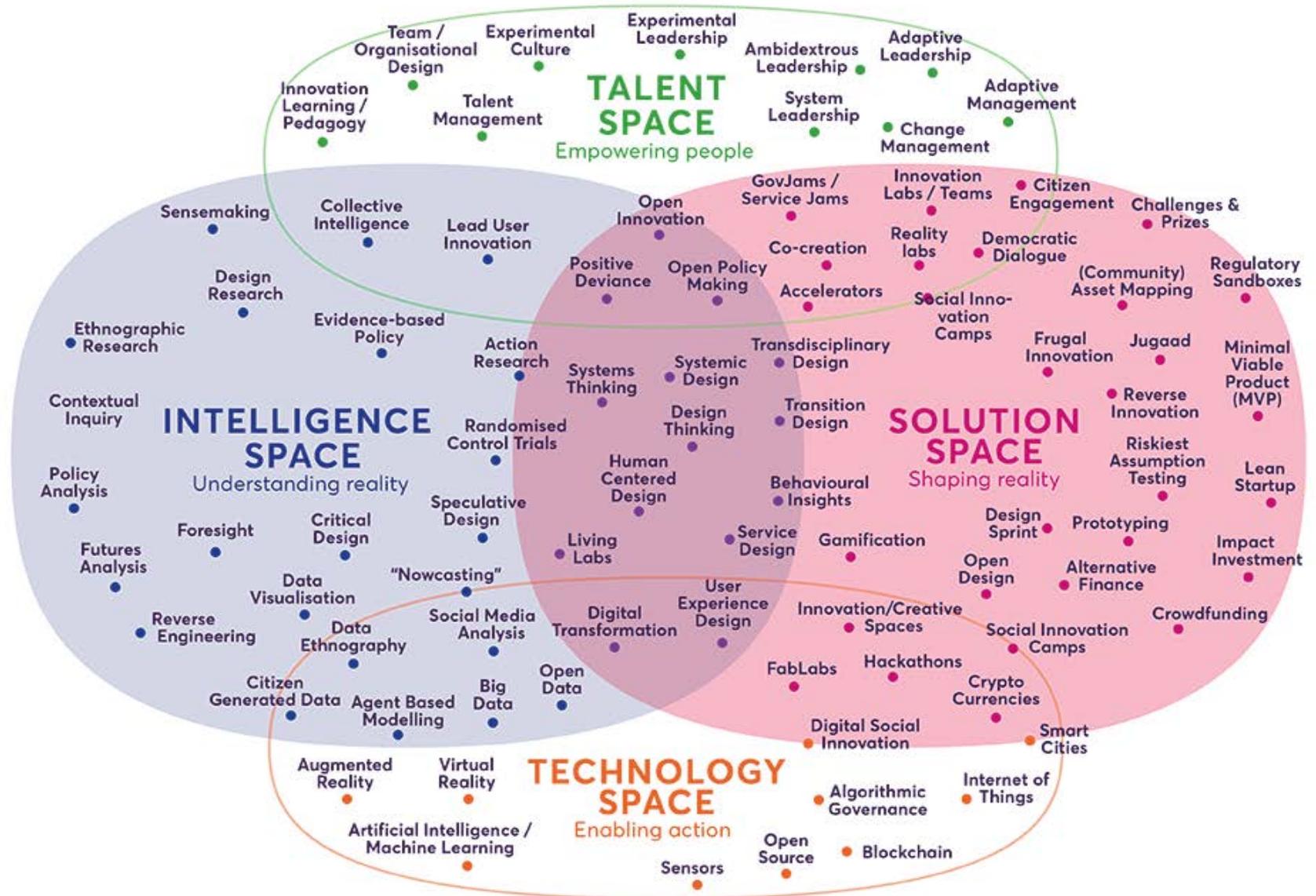


Innovation happens in the “adjacent possible” (Steven Johnson)



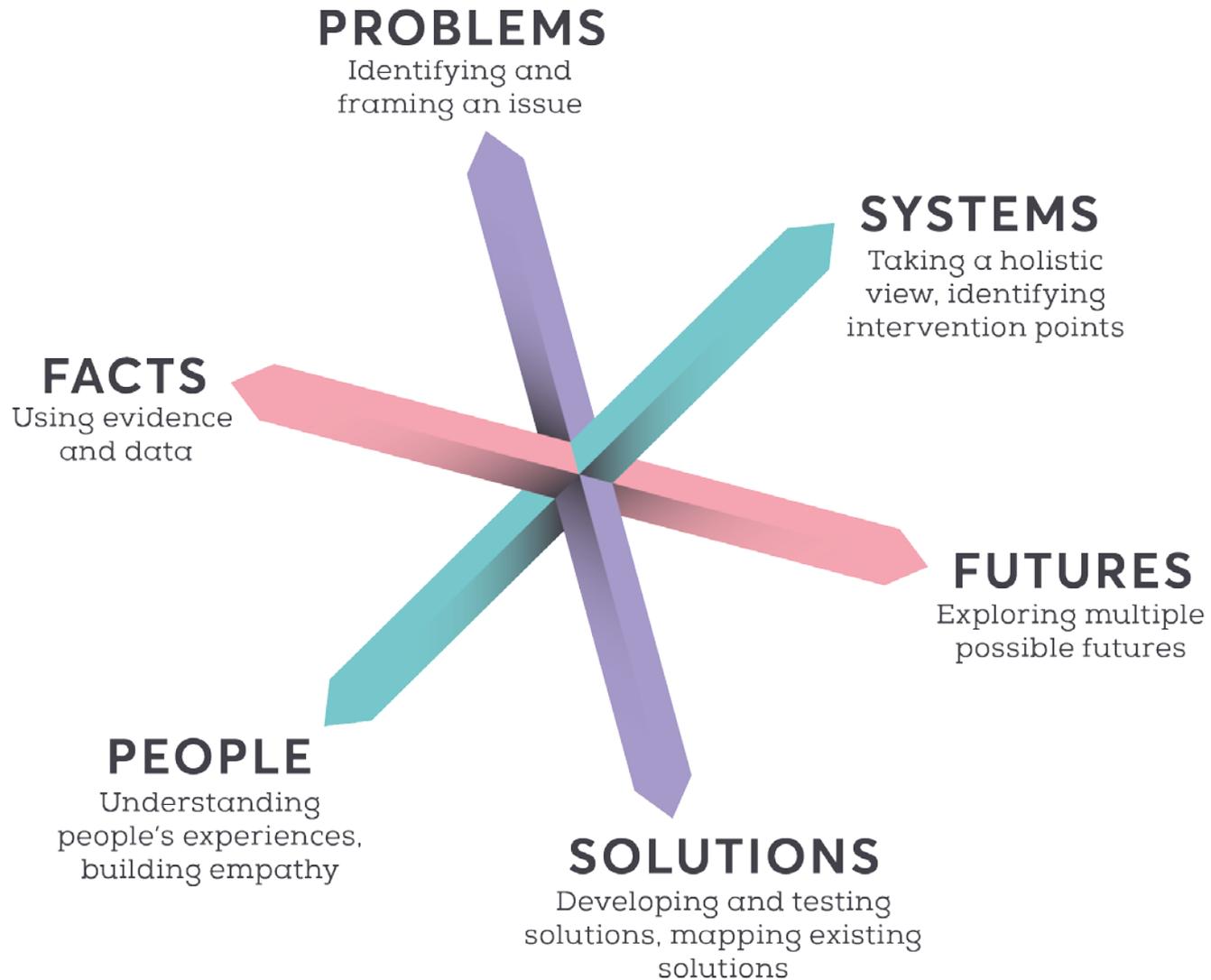
How do you go about
exploring this space of the
unobvious?

Landscape of innovation approaches



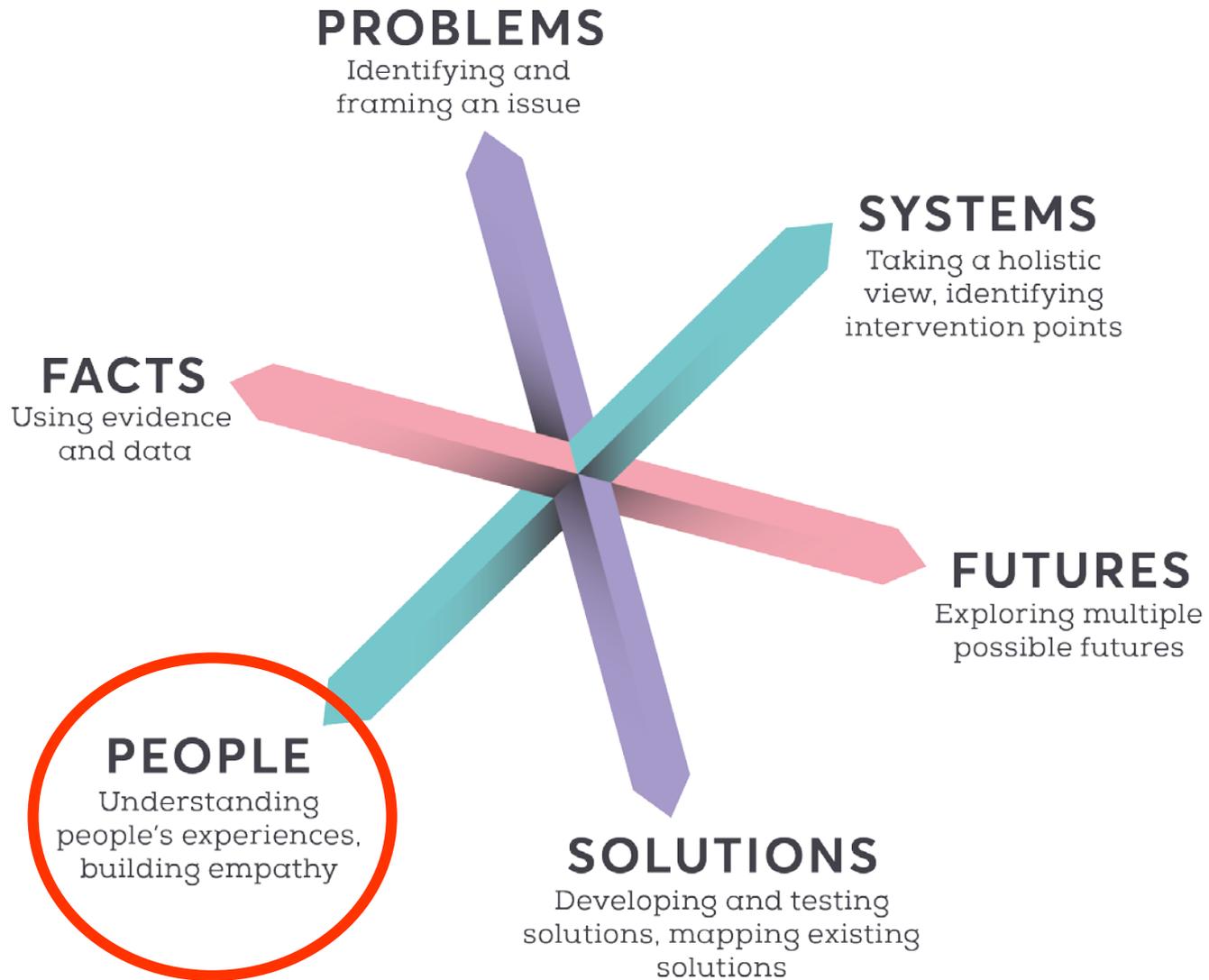
Yet, we need to look
beyond methods...

Six principles to explore the unobvious



A woman with dark hair is shown in profile, looking down at a detailed architectural model of a city. The background is a blurred cityscape with tall buildings. The entire image has a reddish-pink color cast. The text 'People: building empathy' is overlaid in white, bold, sans-serif font.

People: building empathy



A persona is a powerful tool to **develop a shared understanding** with your team about the people you work with or for.

Personas help a team to make decisions with “real people” in mind.

You may create more than one persona (to highlight differences backgrounds, objectives, skills, etc).

The image shows three examples of 'DIY 17 PERSONAS' worksheets, each a grid of information about a fictional person. The worksheets include sections for 'WHO AM I?', 'REASONS FOR ME TO ENGAGE WITH YOU', 'REASONS FOR ME NOT TO ENGAGE WITH YOU', 'MY INTERESTS', 'MY PERSONALITY', 'MY SKILLS', 'MY DREAMS', and 'MY SOCIAL ENVIRONMENT'.

Persona 1: Sindia
 WHO AM I? Title: Clinical Cook, Age: 27, Education: High School Bachelor's degree in Computer Science, Profession: Digitally literate, Born: Middle class, Parents: both teachers.
 REASONS FOR ME TO ENGAGE WITH YOU: 1. Hire a business idea, wants to know how to turn it into reality.
 REASONS FOR ME NOT TO ENGAGE WITH YOU: 1. Perception that looks a bit "innovative" does not self-identify with this group.
 MY INTERESTS: Cooking, Very social on phone, Posts a lot of photos on line, Religious films, Uses a lot of Facebook, Tradition of culture.
 MY PERSONALITY: Warm, Environmental, Sociable, Personable, Defiant.
 MY SKILLS: Computers.
 MY DREAMS: Own business, Social Status, Disposable income.
 MY SOCIAL ENVIRONMENT: Supportive family from Middle class background, Some disagreement especially from sisters, of wife as independent.

Persona 2: Feven (F)
 WHO AM I? I work at the Ministry of Health in Ethiopia, working on a Malware prevention program. Most of my colleagues are Male. I am 25.
 REASONS FOR ME TO ENGAGE WITH YOU: 1. Rigorous planning tool, 2. Organize my thinking, 3. Interacting with Peers (small intimate group, not formal workshop setting).
 REASONS FOR ME NOT TO ENGAGE WITH YOU: 1. Too technical process too intimidating, 2. Too challenging ("Too Blank" -- requires lots of thinking), 3. I am busy, not enough time.
 MY INTERESTS: Music, Go out with Family, Friends, Fashion.
 MY PERSONALITY: I am confident to try out new things if I see the utility, I take pride in my tasks, I love music, Have a warm personality, I am very interested and open to "conversations".
 MY SKILLS: IT Savvy (Comfortable with internet, phone), Good Organizer, Project Manager (from a "1012" perspective, more of a planner), Facebook user.
 MY DREAMS: Manager a small team, Unmarried, living at home, Strong supportive family who encourages her to push boundaries, Big network of friends, Church goer.
 MY SOCIAL ENVIRONMENT: Manager a small team, Unmarried, living at home, Strong supportive family who encourages her to push boundaries, Big network of friends, Church goer.

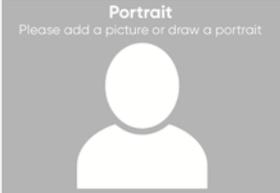
Persona 3: Ade
 WHO AM I? Junior Manager (Small team) Operations, Age 29, Go getter / extra mile, Keen to get noticed (highlighters).
 REASONS FOR ME TO ENGAGE WITH YOU: 1. Monitor has no idea, 2. Wants new skills / visibility to progress / other people are doing it, 3. To be "the star" centre of everything.
 REASONS FOR ME NOT TO ENGAGE WITH YOU: 1. No clear economic benefit "what's in it for me?", 2. No recommendation via social network.
 MY INTERESTS: Self development, Further Education, Networking, Music & Popular culture, Whisky, Manchester United / Arsenal.
 MY PERSONALITY: Confident, A little aggressive, Big network.
 MY SKILLS: Connector, Critical thinking, Reflexive, Analytic, Social, English/Spanish & local, Multi-tasking.
 MY DREAMS: Wants to be top of profession (Director level), Set up a business to do it at my own pace, Make a name for myself, build a reputation.
 MY SOCIAL ENVIRONMENT: Colleagues are of professional & ambitious, Family, exclusively, Social media + texting, 3G phone, BBM Messenger, Other, WhatsApp app.

Developing a persona

STATES OF CHANGE

Developing a persona

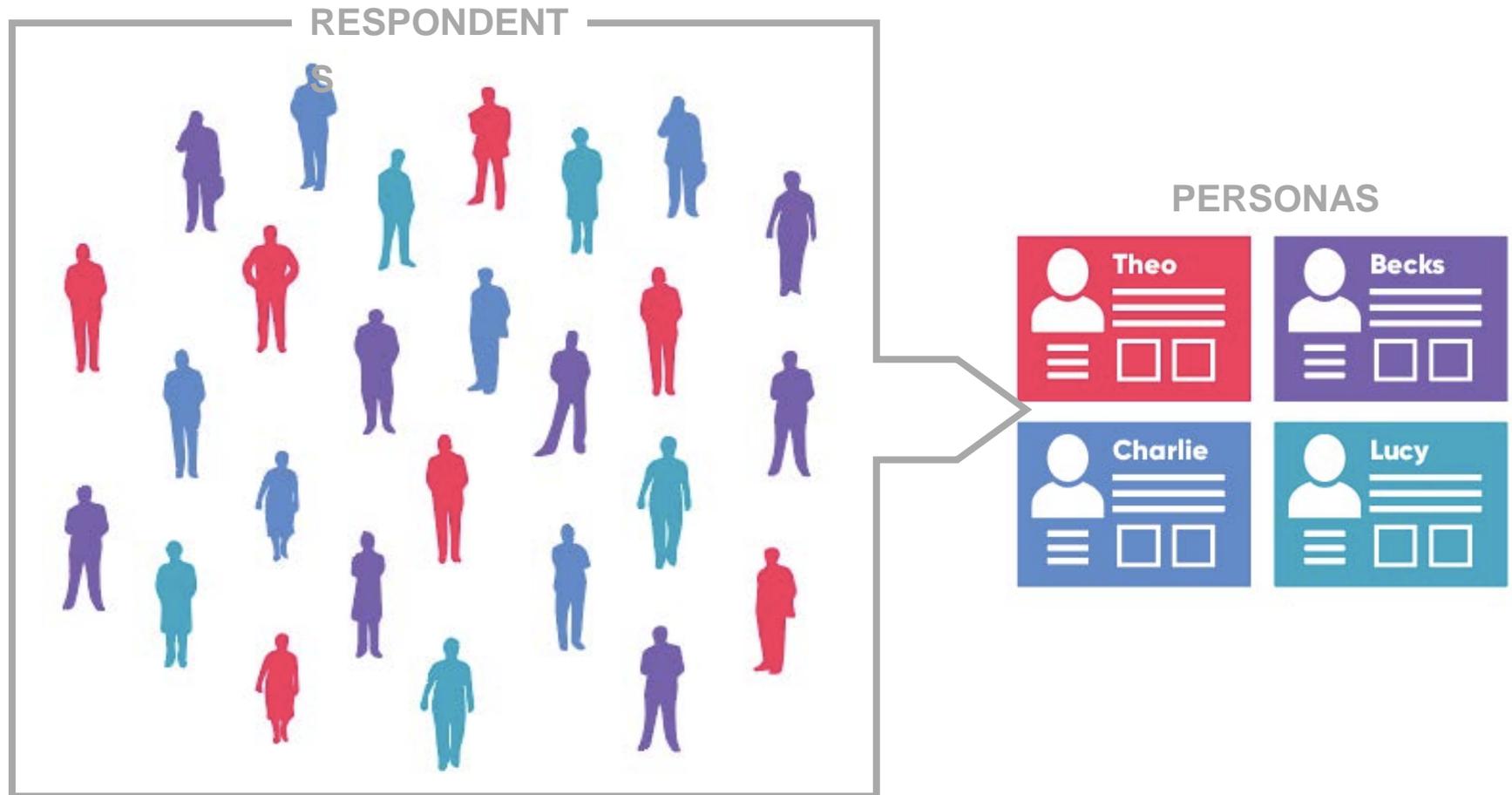
A persona helps you to map out the key characteristics of the people you are working for and share it with others. You may use different personas for different segments or groups of people.

Profile Name: Portrait Please add a picture or draw a portrait  Segment: Occupation: Age: Home town: Marital status: Family/Friends: Interests/Hobbies: Short bio:	Quote What is a typical quote that represents the persona's goals, motivations? "		
	Motivations What drives this persona?	Goals What are the goals that this persona tries to achieve?	Frustrations What frustrates this persona?
	Enablers What enables this persona to achieve his/her goals?	Barriers What obstructs this persona from achieving his/her goals?	

Develop a persona of the people who are most affected by the issue.



Personas



Personas are archetypes of fictional characters of groups of real people segmented by specific attributes (needs, motivations, habits, cultural background, social or demographic characteristics)

Where do you normally start?



How often do you actually engage with citizens to understand their experiences, needs, aspirations, struggles?

what people...

explicit/observable

say

do

use

tacit/latent

know

feel

dream

intentions

goals

ambitions

beliefs

values

why, why, why...



What is your proximity to the issue?



You need proximity to create empathy.

What stories – from
direct observation – can
you tell about the people
most affected by the
issue?

Did you experience any struggles populating the sheet?

What do we know?

(Validated)
knowledge

**What do you know
for sure?**

For which you have
evidence to support your
claims

Assumptions

**What do you think
you know for sure?**

But, for which you don't
have any evidence to
support your claims

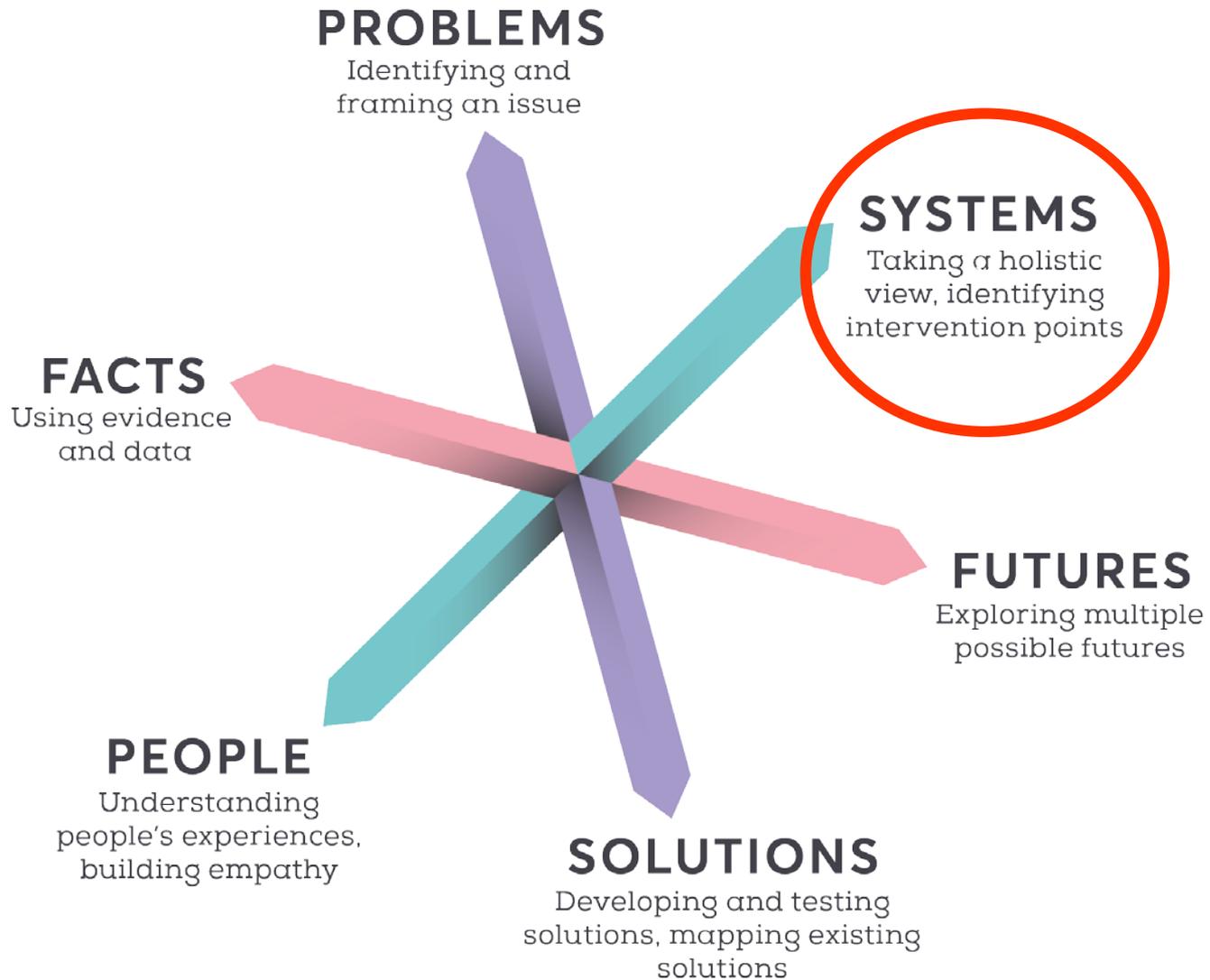
Knowledge
gaps

**What is it that you
don't know?**

For which you need to do
research

A woman with dark hair is shown in profile, looking down through a magnifying glass. The background is a city skyline with various skyscrapers. The entire image has a reddish-pink color cast. The text "Systems: mapping the big picture" is overlaid in white, bold, sans-serif font.

Systems: mapping the big picture



Not all problems are born equal

SIMPLE



It involves a few components and actors

Clear end state: we can tell when the problem is solved

Procedures to solve the problem involve a few simple and clear steps

COMPLICATED



It involves a many components and experts

Clear end state: we can tell when the problem is solved

Procedures to solve the problem involve many steps and a specific order

COMPLEX



It involves many actors with conflicting interests

No clear end state: new problems may occur

Procedures to solve the problem are unclear, not known, requires trials & error to see what works

Issue Mapping

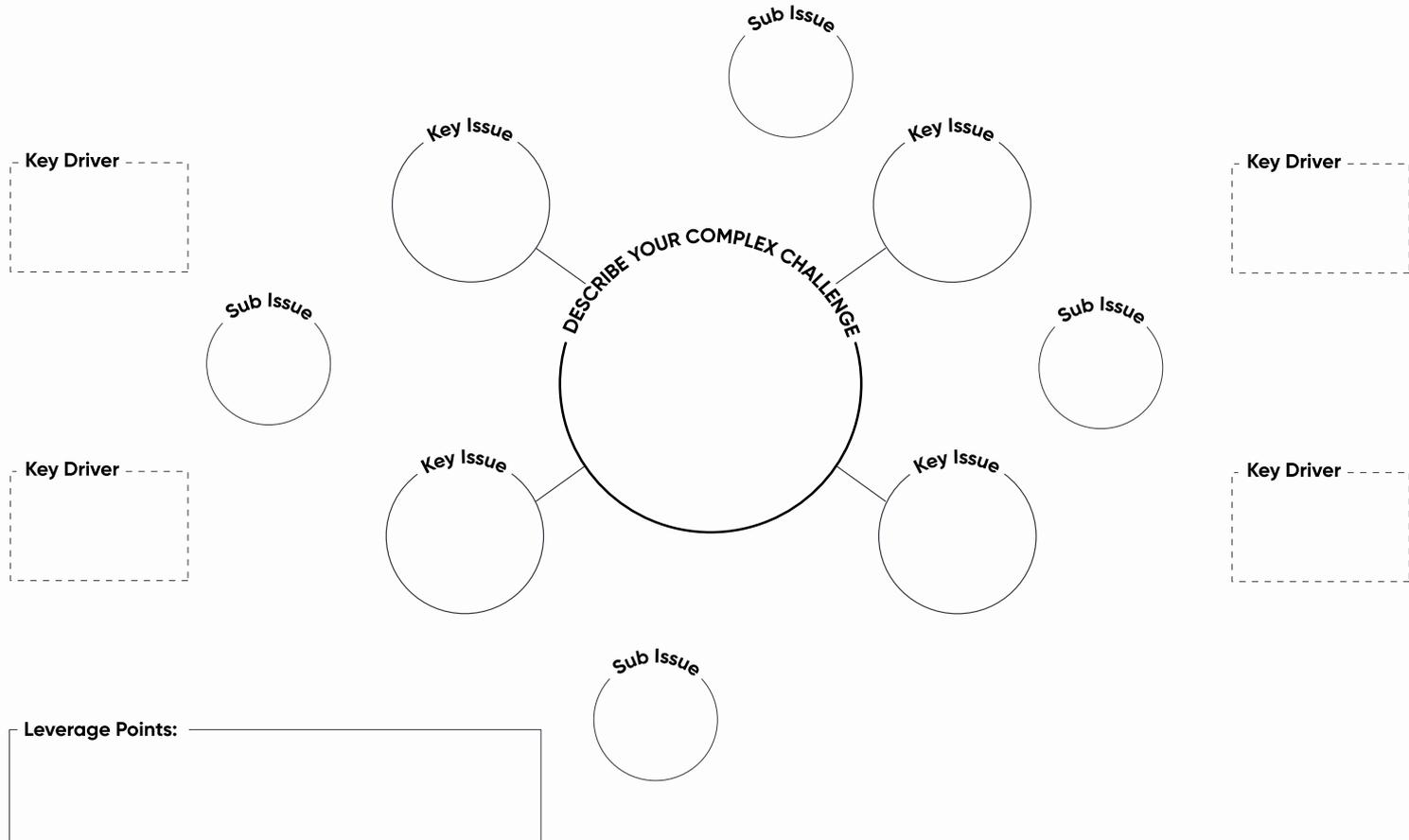


Issue Mapping

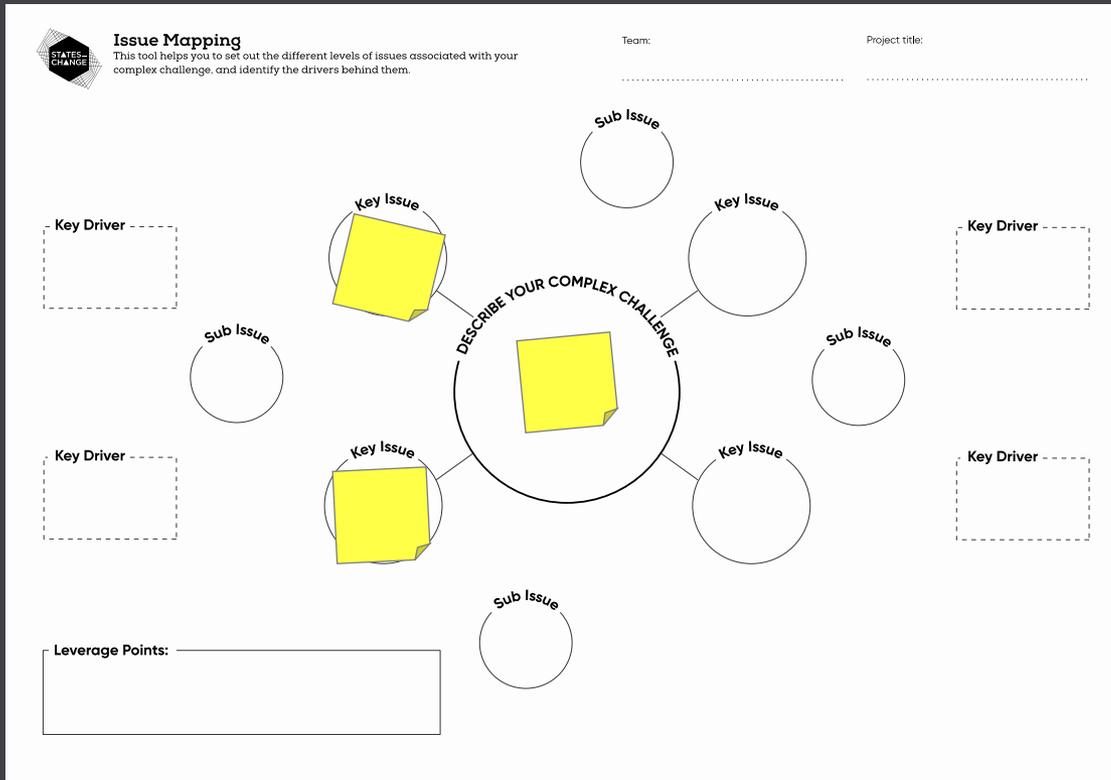
This tool helps you to set out the different levels of issues associated with your complex challenge, and identify the drivers behind them.

Team:

Project title:



Exercise: Issue Mapping your challenge

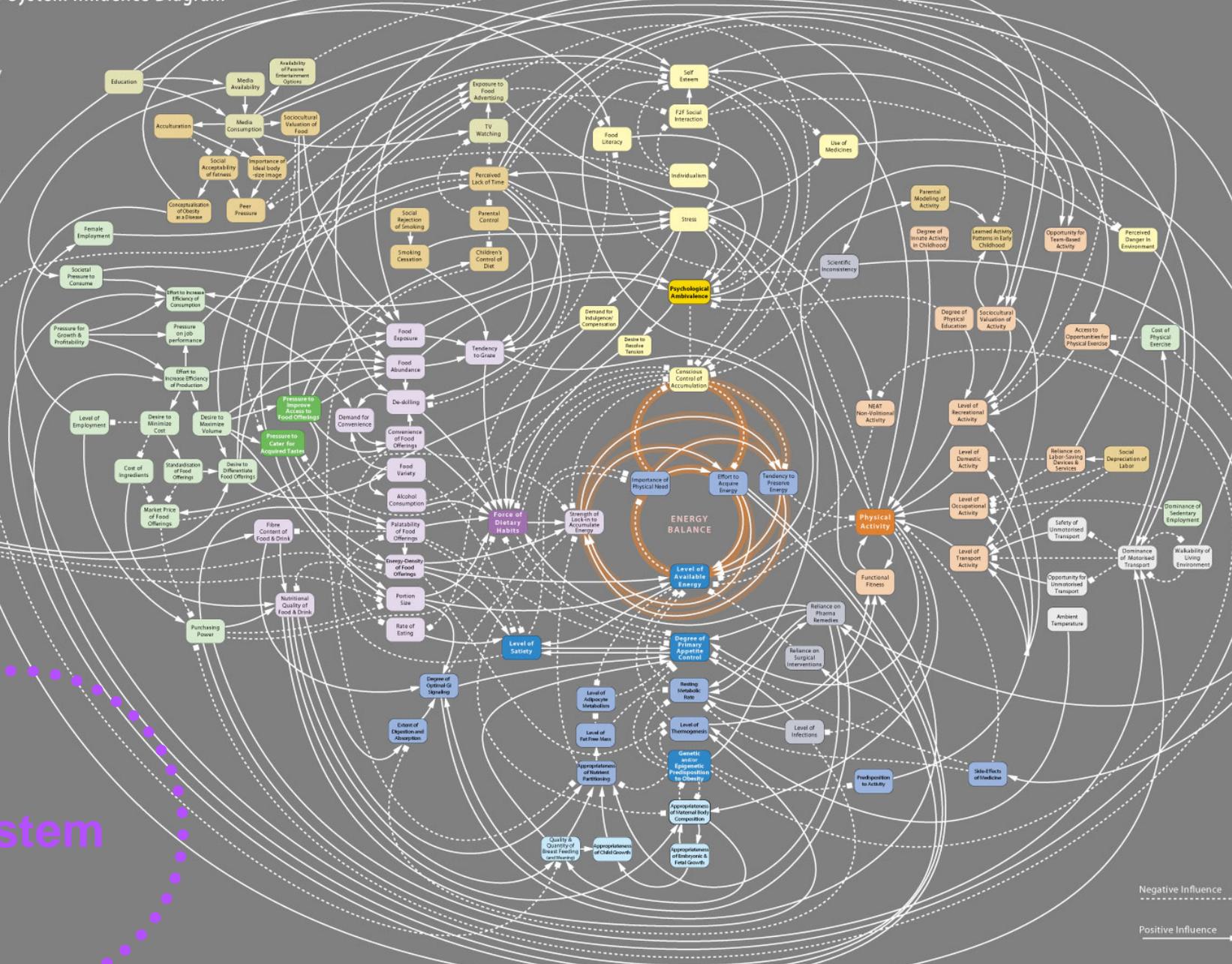


- Describe your challenge in circle at middle of worksheet
- Describe max 4 key issues that constitute your challenge
- Describe min 3 sub issues that contribute to 1 or more key issues
- Describe min 2 drivers that influence sub or key issues
- Define max 3 leverage points

shift^o Obesity System Influence Diagram

- Full Map**
 Clusters
 Core Loop
 Individual Psychology
 Social Psychology
 Individual Activity
 Activity Environment
 Food Consumption
 Food Production
 Individual Physiology
 Physiology

System



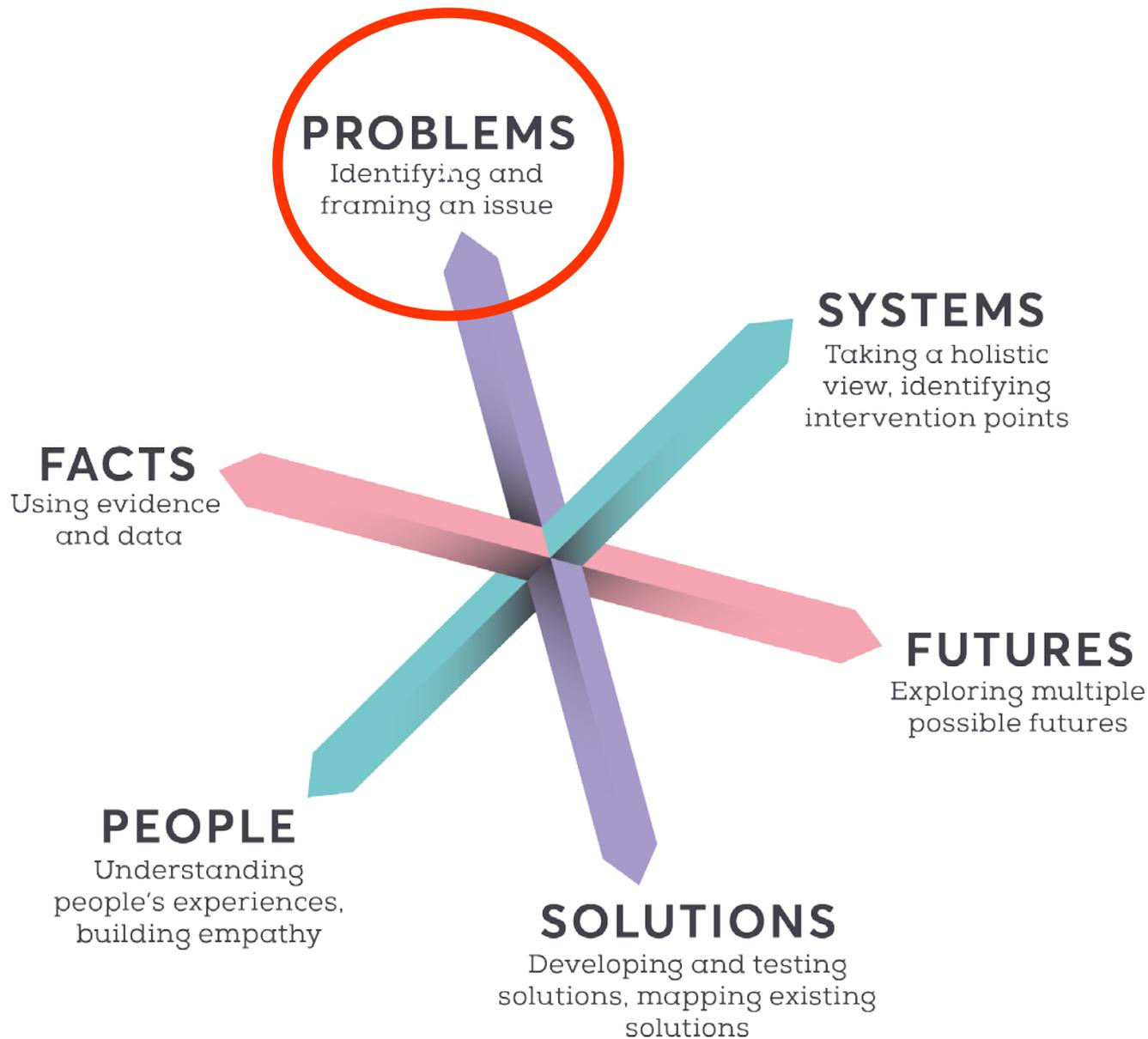
Systems mapping: multiple perspectives and shared understanding

A systems map is a visual representation of underlying complexity that helps us identify insights in ways that would not have been possible from a single perspective.

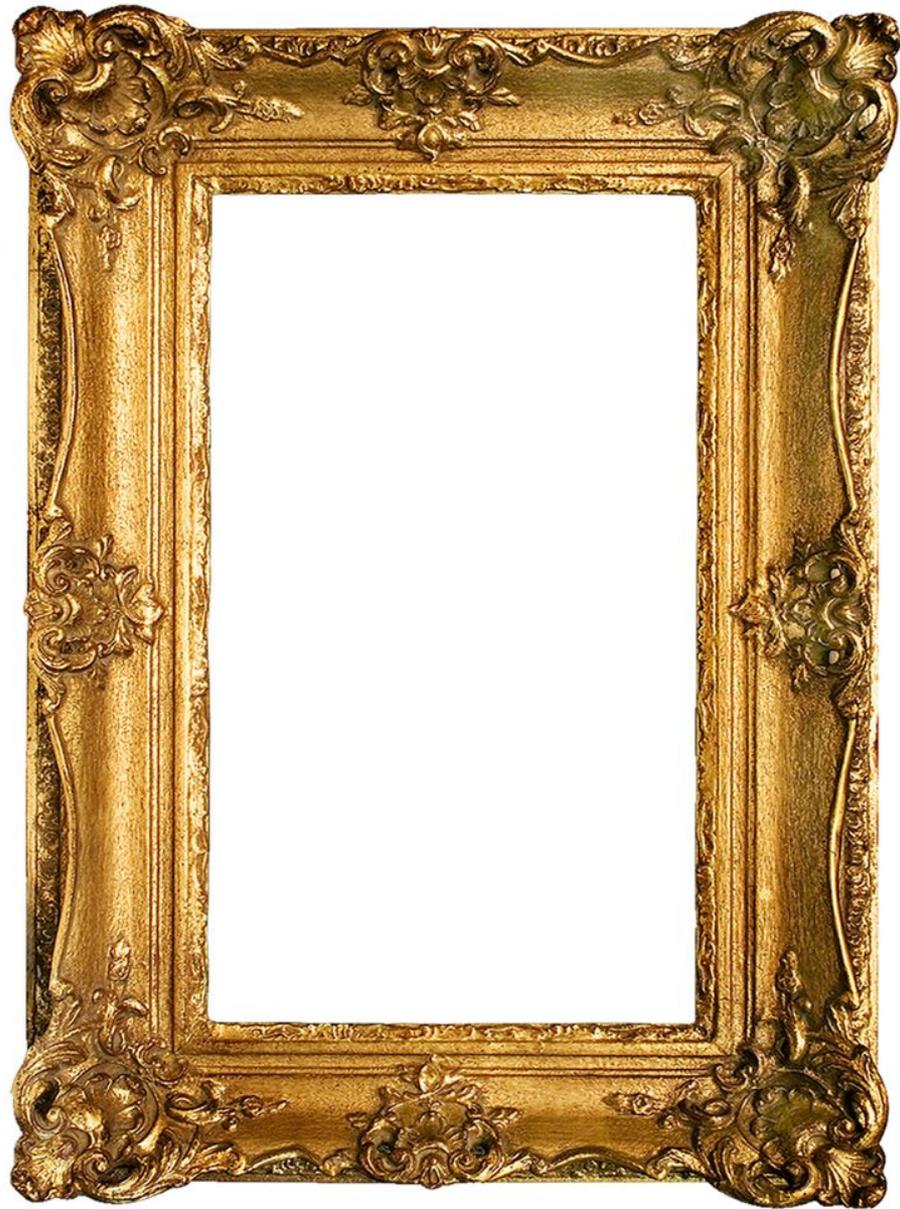
Systems mapping helps us build shared understanding. The process facilitates a constructive dialogue about where we can intervene to bring about systems change.

A woman with dark hair is looking down, her face partially obscured by the text. The background is a city skyline with several skyscrapers, all rendered in a monochromatic red color. The overall mood is contemplative and focused.

Problems: (re)framing challenges



What is a frame?



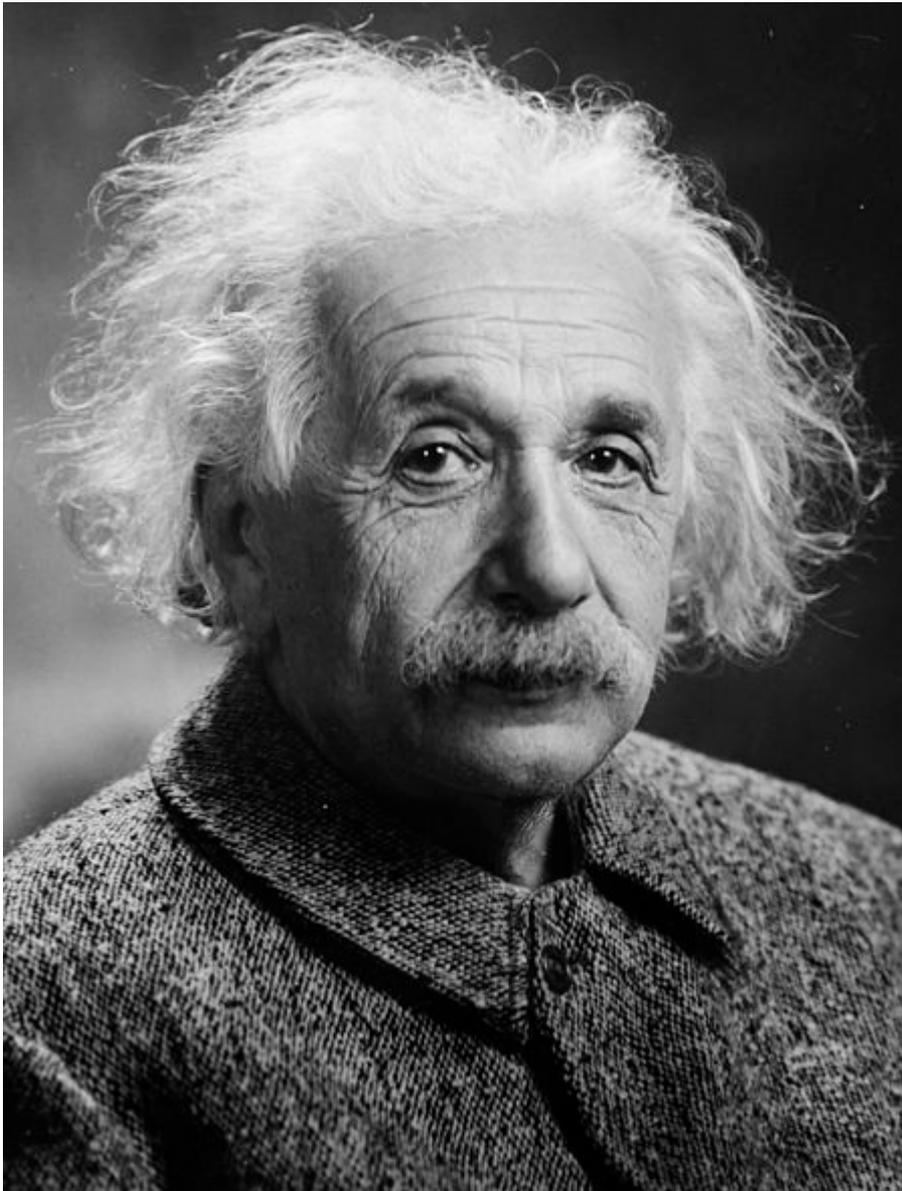


Why do we use
frames?

In the [social sciences](#), **framing** comprises a set of concepts and theoretical perspectives on how individuals, groups, and societies, organize, perceive, and communicate about [reality](#). Framing involves [social construction](#) of a [social phenomenon](#) – by [mass media](#) sources, political or social movements, political leaders, or other actors and organizations. Participation in a language community necessarily influences an individual's [perception](#) of the meanings attributed to words or phrases.

Wikipedia

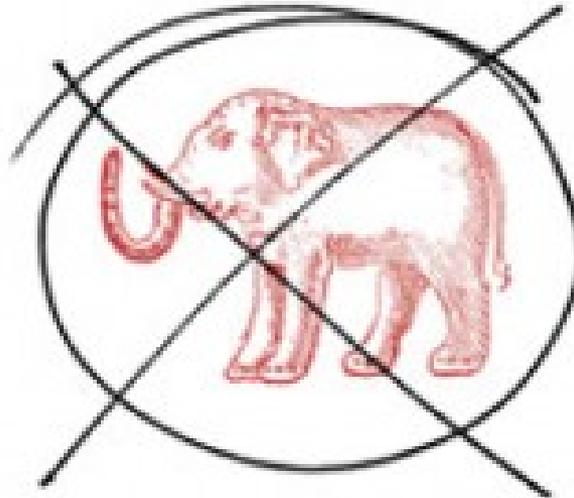
Why do we frame
challenges?



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.

Albert Einstein

"Essential reading in this neo-Orwellian age of Bush-speak."
—Robert Reich



DON'T THINK OF AN ELEPHANT

KNOW YOUR VALUES AND FRAME THE DEBATE

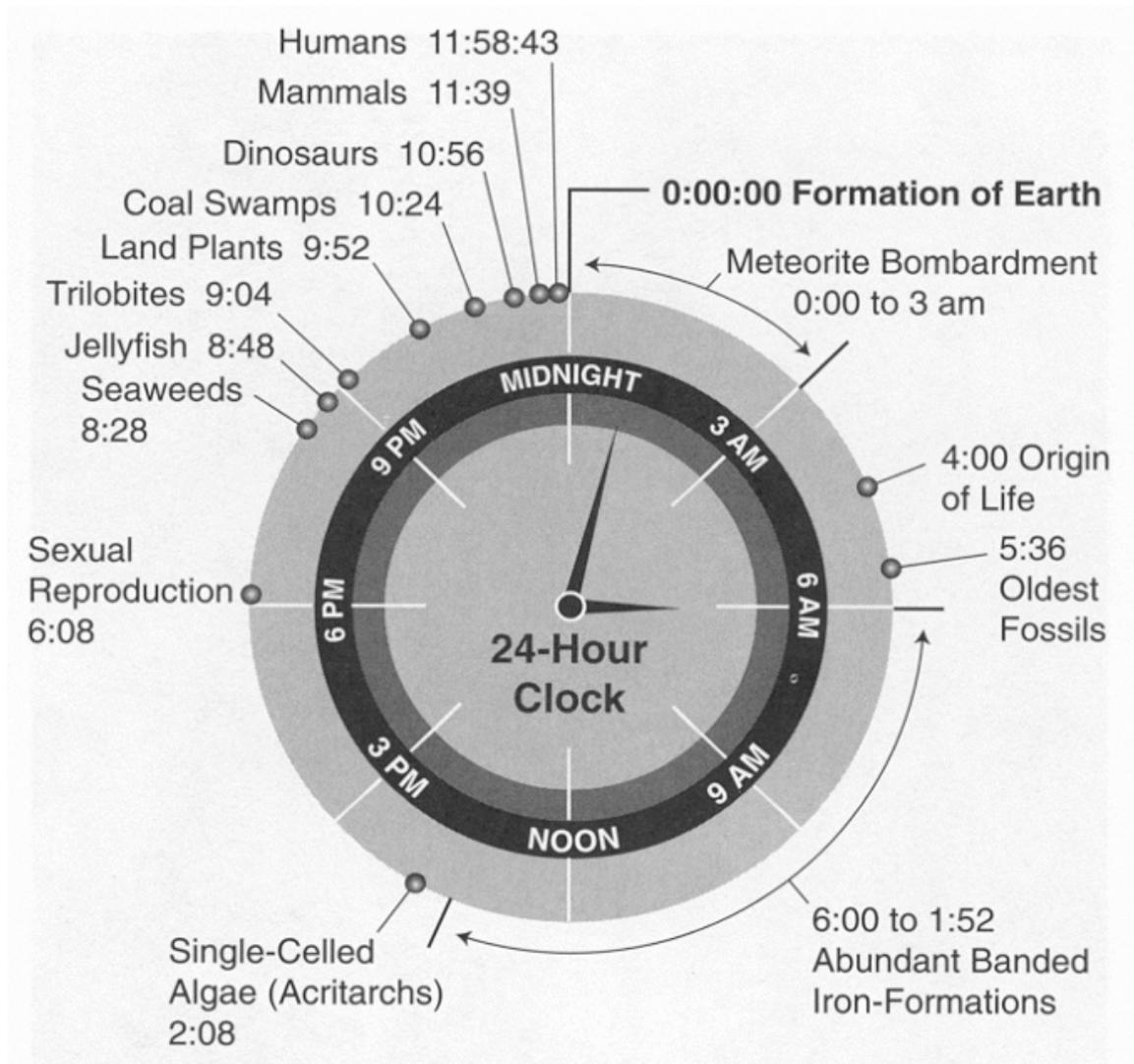
George Lakoff

INTRODUCTION BY JULIA BARD

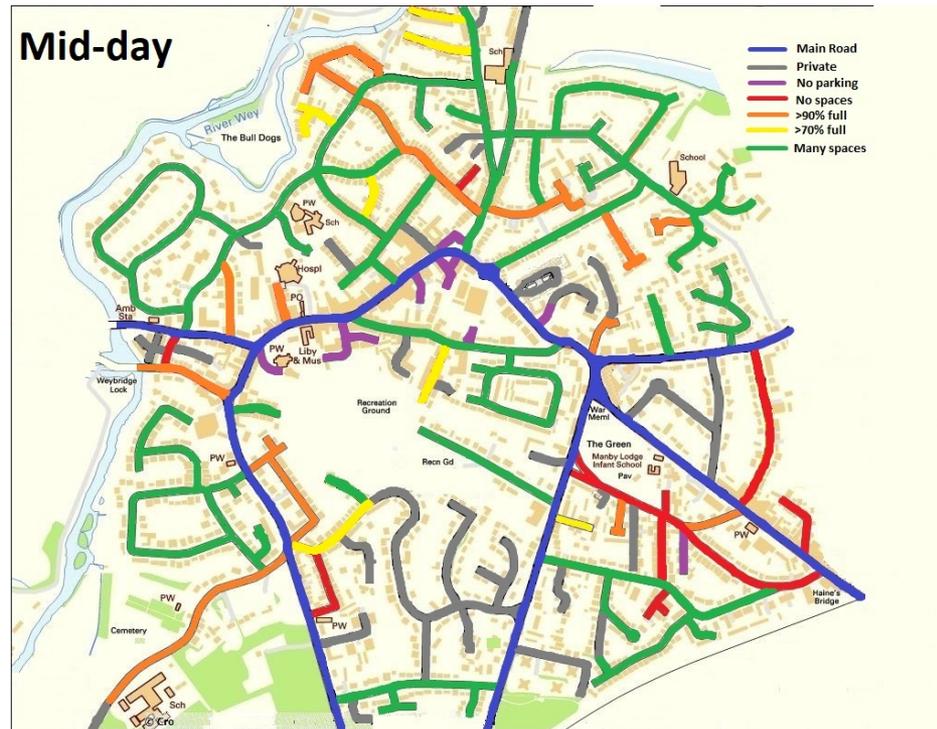
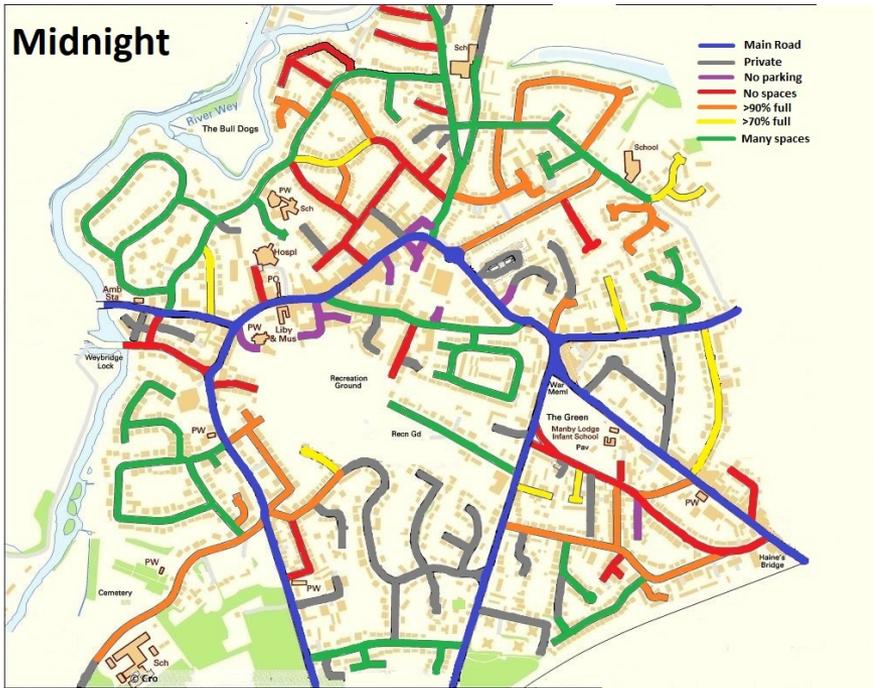
How might we
reframe?

How might we shift our
perspective?

Time



Time

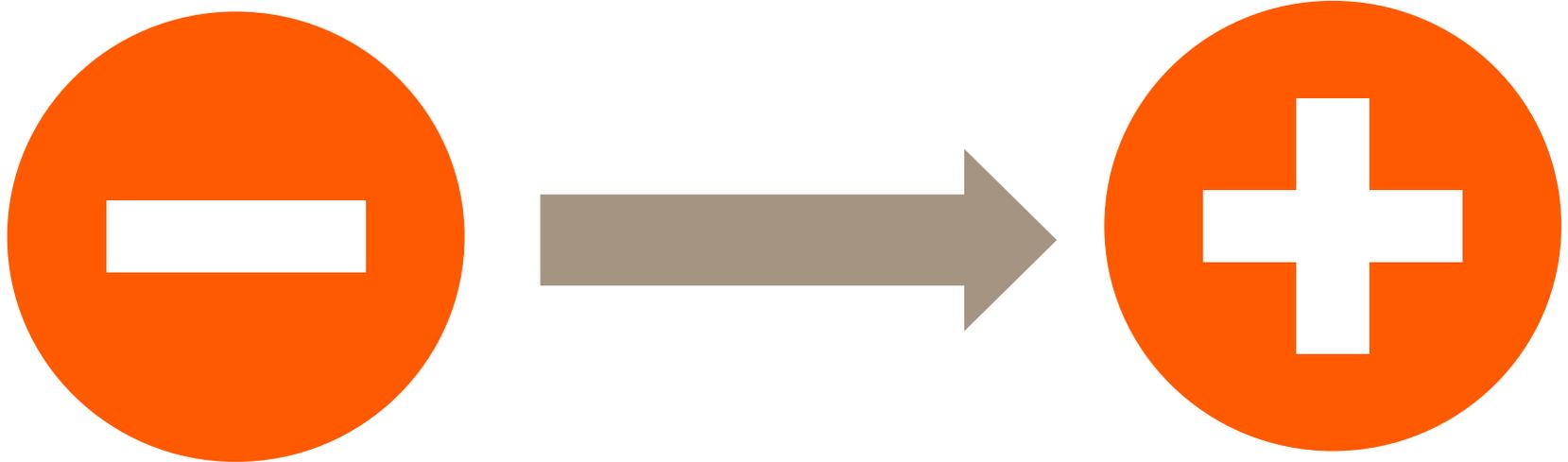


Scale



<https://www.youtube.com/watch?v=w8QI8LALI8g>

Reversing



from needs to potential
from limitations to opportunities
from barriers to possibilities

Reframing: from liabilities to assets



Presence/absence



From needs to potential

FAMILY BY family



By analogue

a person or thing seen
as comparable to
another.

By analogue

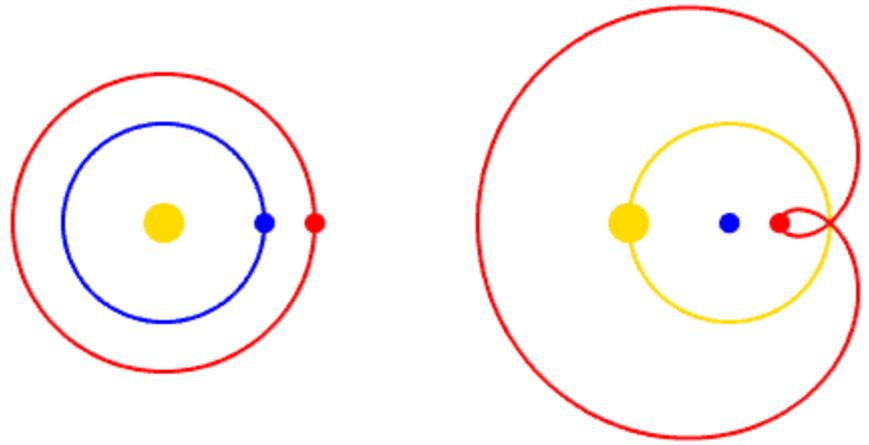
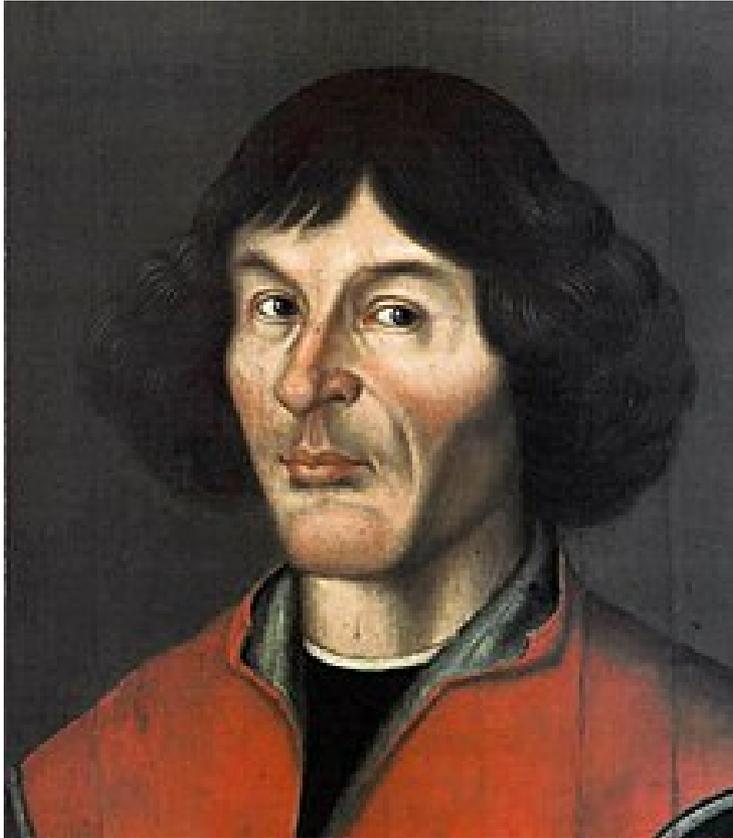


How to improve the handover of patients from the operation theatre to the intensive care unit?



How might we organise the treatment or care programme around the patients?

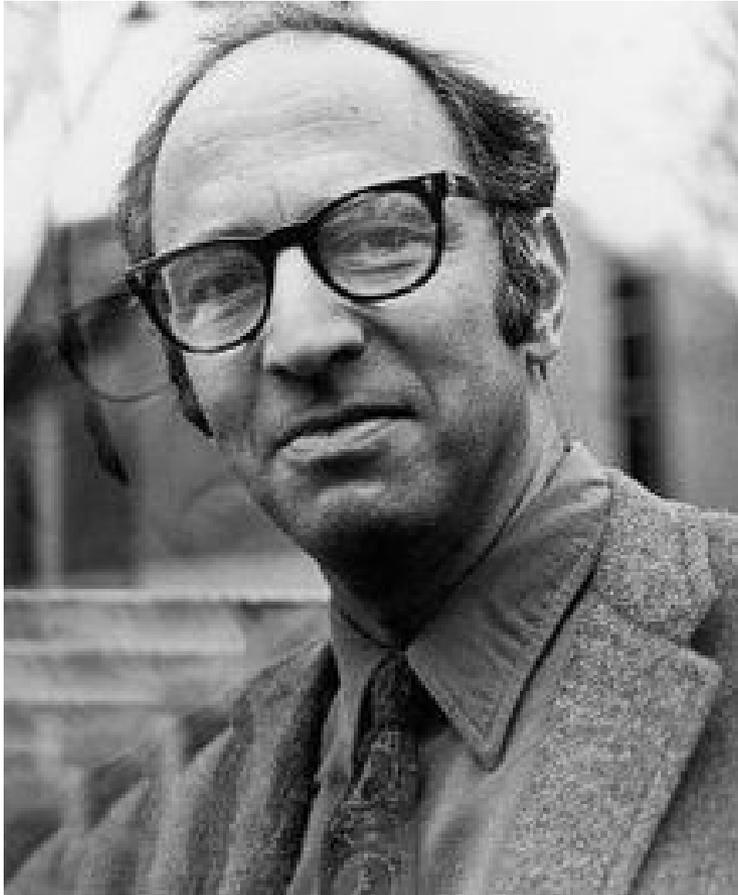
Subject/object



Exaggeration



Changing paradigms



“A new scientific truth does not triumph by convincing its opponents and making them see the light, but rather because its opponents eventually die, and a new generation grows up that is familiar with it.”

Thomas Kuhn

‘The Structure of Scientific Revolutions’

Time



Scale



Deficit/assets



Negative/positive



Subject/object



Presence/absence



Paradigm shift



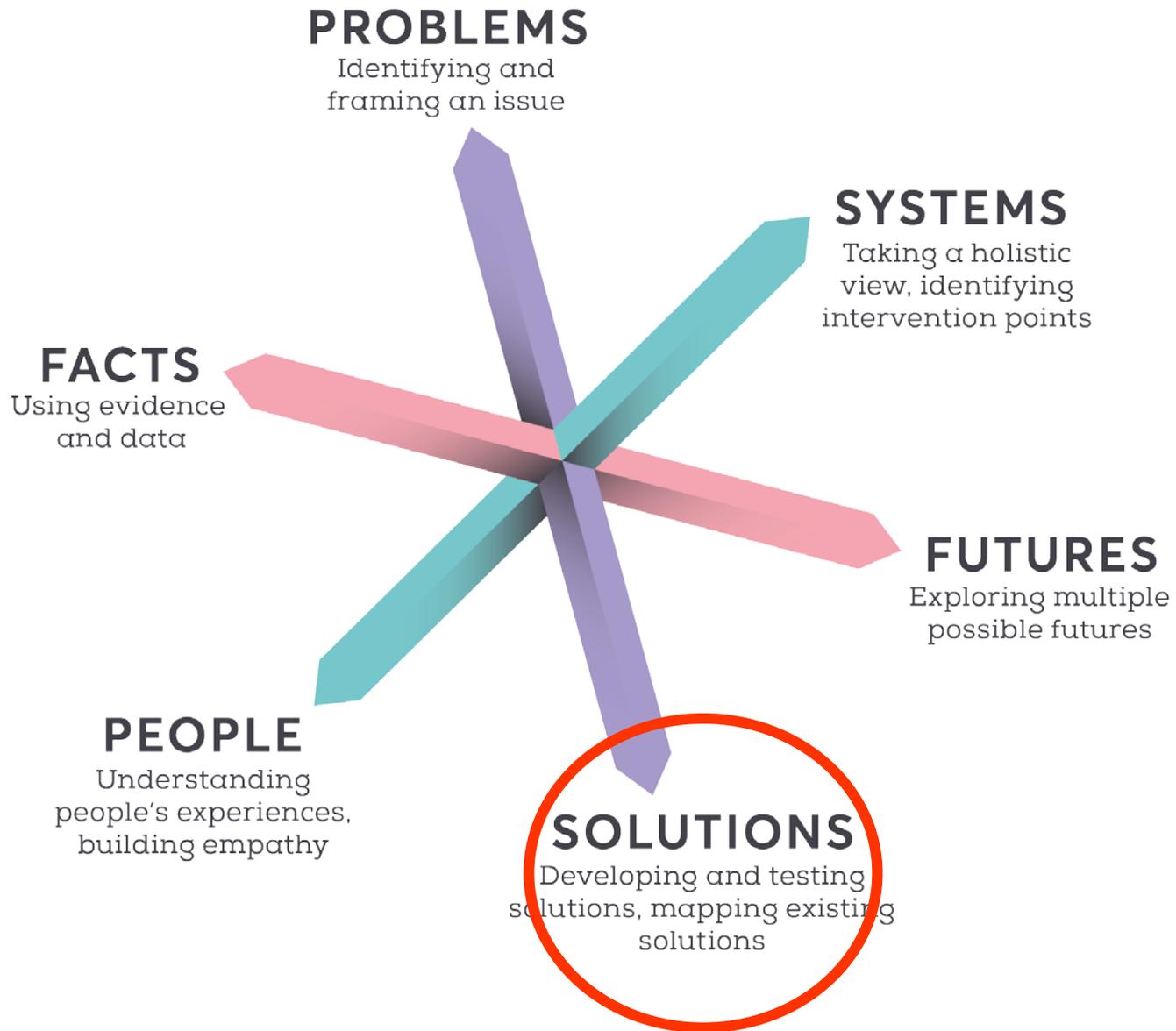
By analogue



Exaggeration



How might you reframe your challenge, using one or more of these tactics?



What ideas come
to mind?

Develop your plan...



Running an experiment

This tool will help you to plan and evaluate an experiment by articulating your hypothesis, planning how you will collect your data and reflect on the results.

Set up

Issue

What is the issue you are trying to solve? What is the situation you want to change?

Hypothesis

What (repeatable) intervention or action will solve the issue or change the situation? What will the observable or measurable outcome look like? What are you expecting or hoping that will happen?

if...

then...

Plan

How will you set up and run the experiment? Who will be involved? In what context? How are you going to collect data?

Reflection

Results

What data did you collect?

Insights

What did you learn from your experiment? What assumptions have been reinforced or disproved?

Next experiment

What will you do next? What changes do you need to make? What are gaps or assumptions you have to test?

* This tool is based on leanstack.com/experiment-report/ and medium.com/the-labs-wananga/lab-craft-how-we-use-experiments-to-drive-insight-b06ea3b3145f#divdg6dqhx



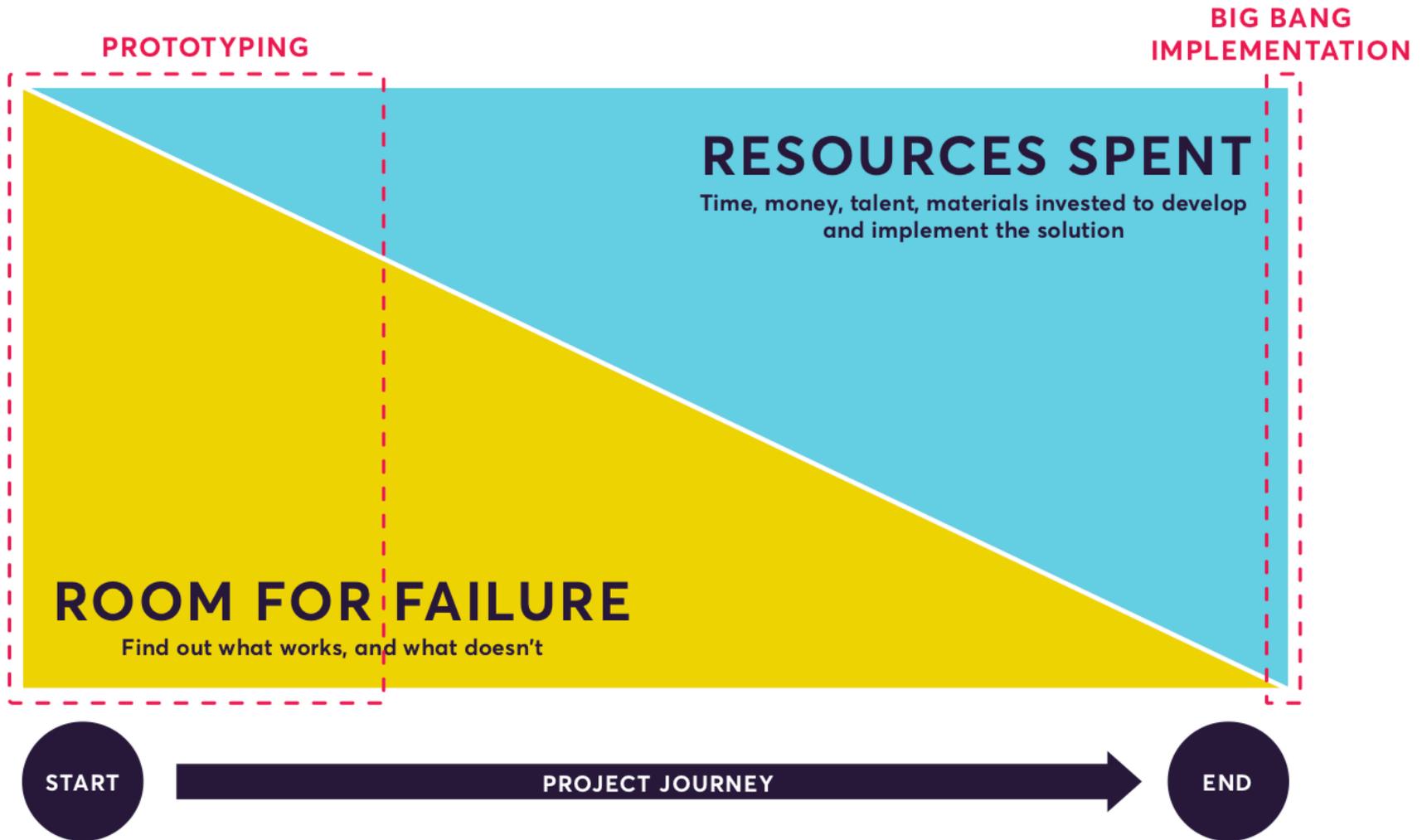
One method to
quickly test ideas is
prototyping

Prototyping is...

Making an idea visual or
tangible, so you are able to
share and test it with others,
in order to learn from it.
For fairly low costs

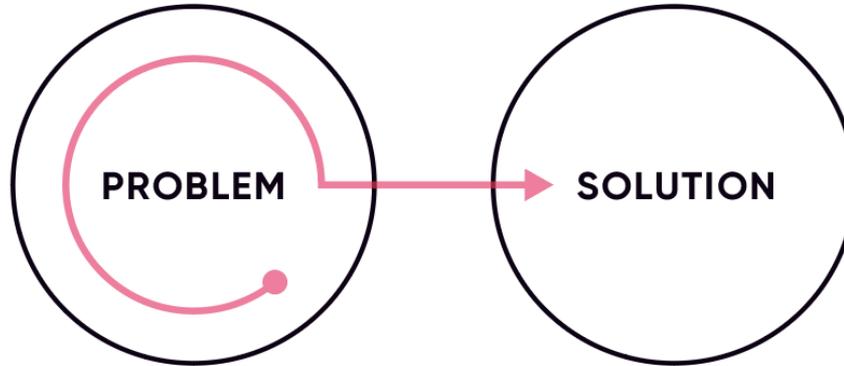


Prototyping is a cheap way to learn from failures

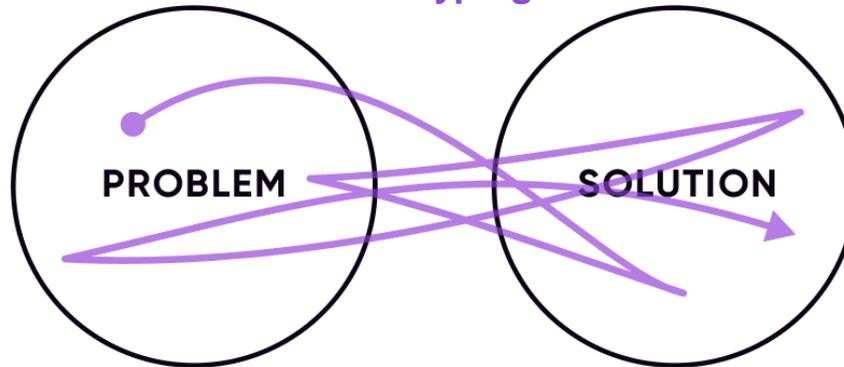


Three approaches

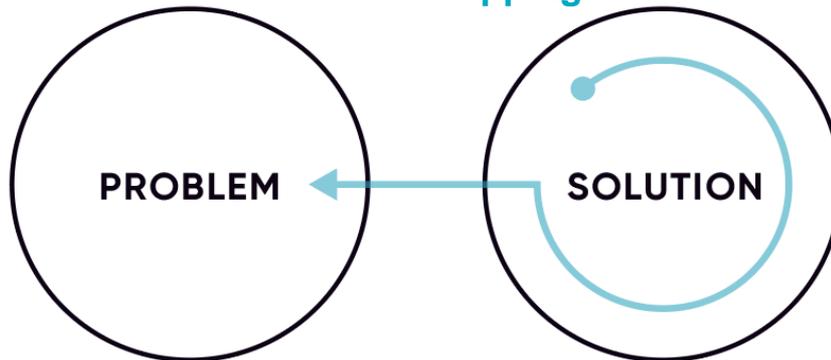
Problem analysis



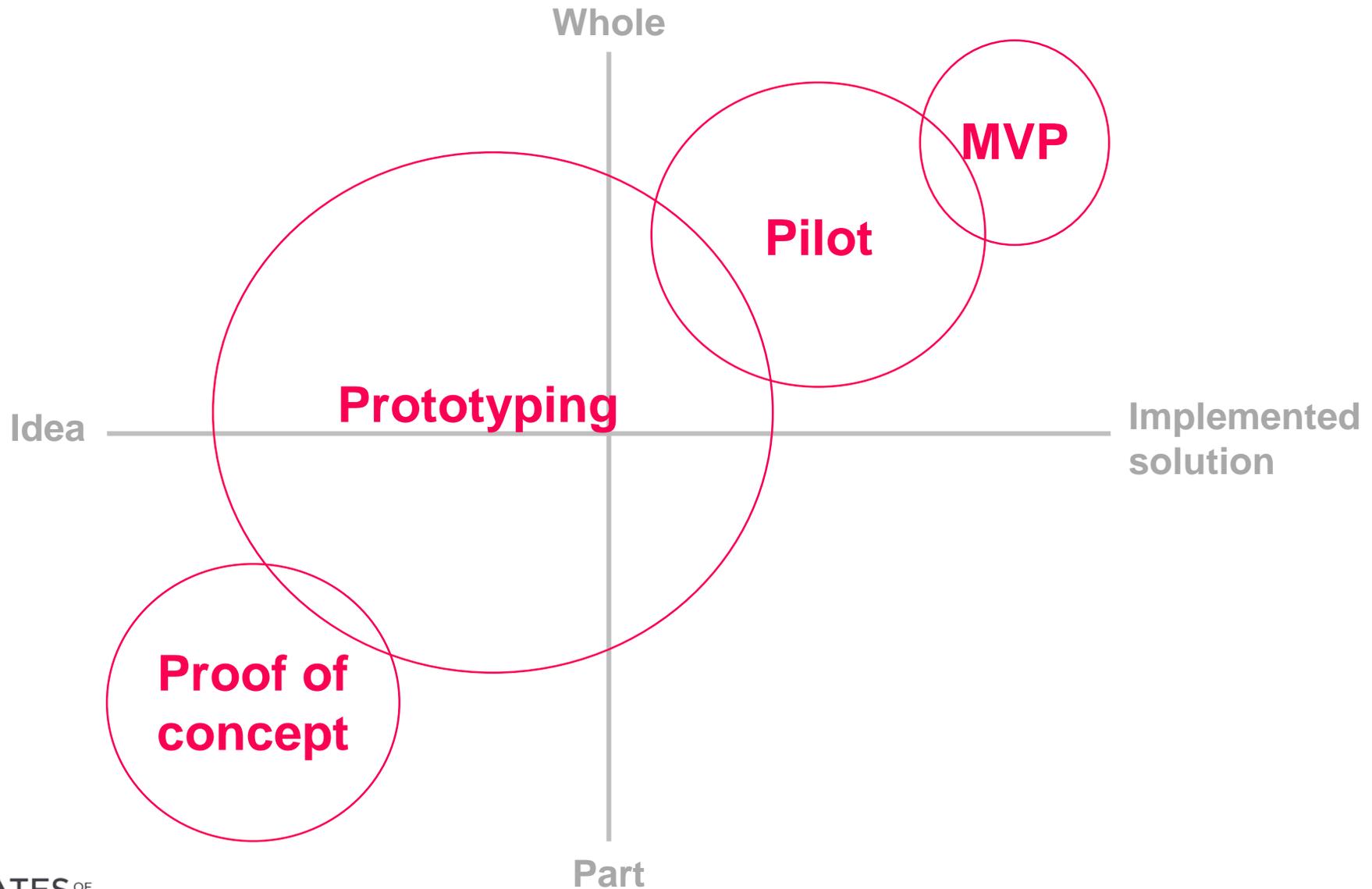
Prototyping



Solution mapping

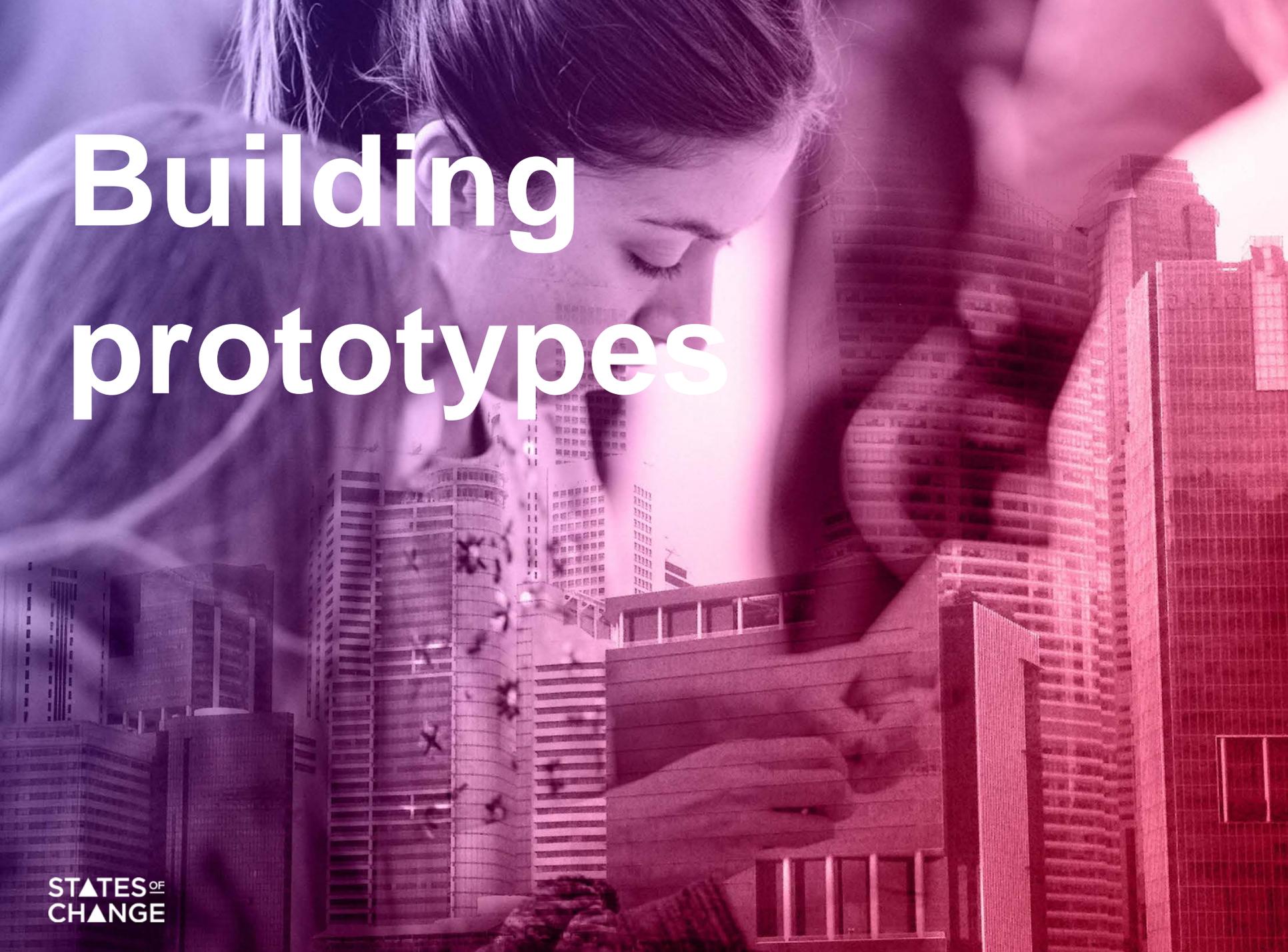


Proof of concept/prototype/pilot/MVP



Proof of concept/prototype/pilot/MVP, what's in a name?

	LAB / STUDIO		REAL WORLD	
	Proof of Concept	Prototype	Pilot	Minimal Viable Product (MVP)
What is it?	Test the feasibility of an idea or assumption to justify further development	Test how an idea may work like, look like, feel like to learn from and identify assumptions	Testing whether a solution will work in the real context to justify scaling or implementing	Testing the viability of essential core of your solution in action.
Stage	Early stage	Early stage	Roll out	Live testing
Stakeholders involved	Internal stakeholders	Users (respondents), decision makers, sponsors	Real users, decision makers, sponsors	Real users
What do we have?	Having a hunch	Having an idea	Having a solution	Having the core of a solution
What do we have?	You have a hunch and want to test if it is feasible	You have an idea and want to test how it might work and learn from it	You have a solution and want to test how if it actually will work (before implementing it large scale)	You have the core of a solution and want to test if it will work
When is it a success?	When an idea is feasible	When an idea works as anticipated – if that is not the case, it created new insights	When a solution works as anticipated	When a solution works as anticipated, or when it
Duration	A couple of hours or days.	A couple of hours, days or even weeks	Weeks, months	Continuous

A woman with dark hair is looking down at a city skyline. The image has a strong red tint. The woman is in the foreground, slightly out of focus, looking towards the right. The city skyline is in the background, with several tall buildings. The overall mood is one of focus and attention.

Building prototypes

Prototypes test how something...

LOOKS

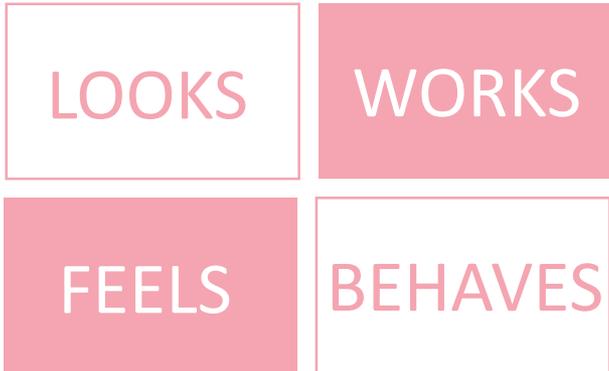
FEELS

WORKS

BEHAVES

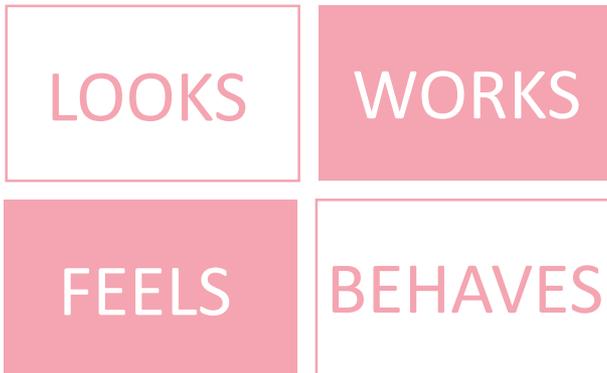
Prototype method example

Experience Prototype:



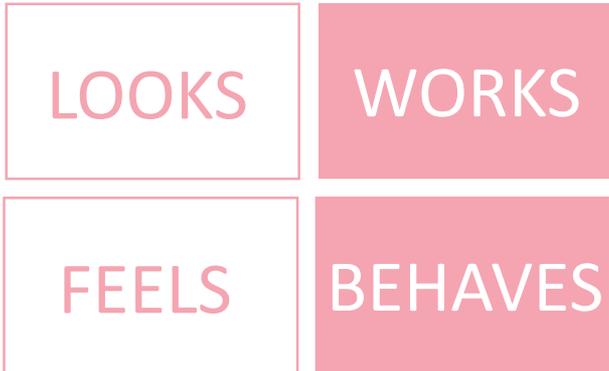
Prototype method example

Wizard of Oz:



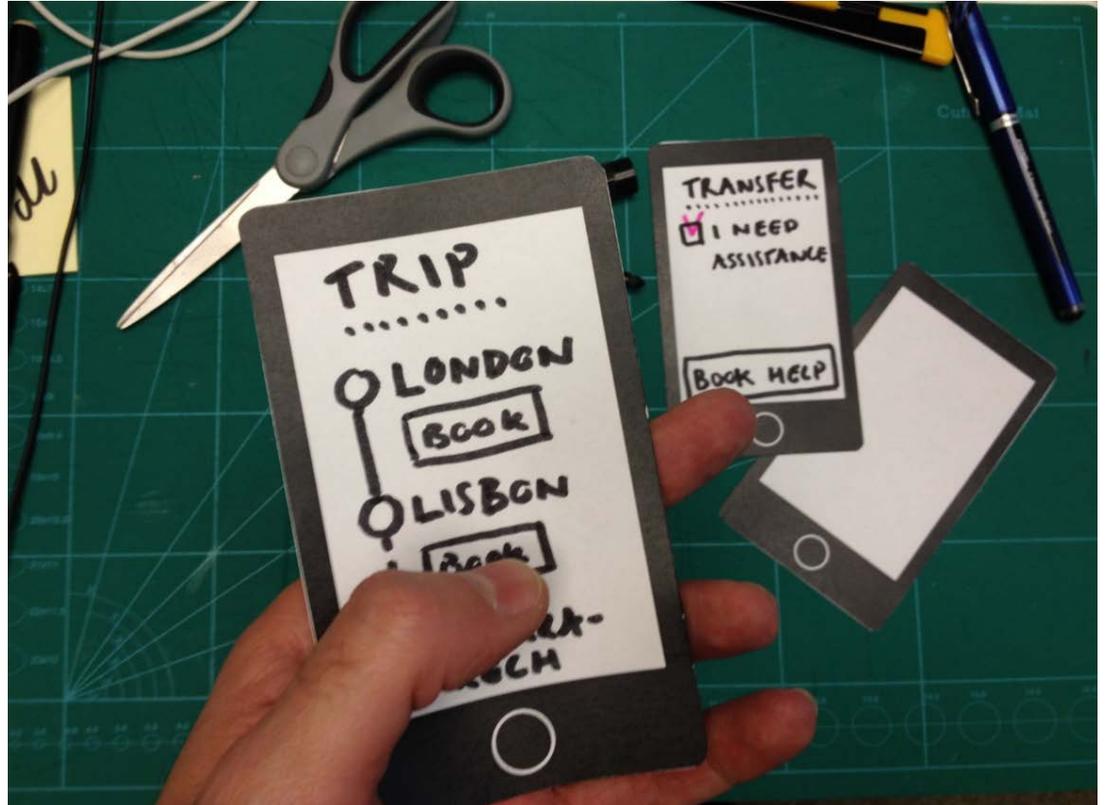
Prototype method example

System mock up:



Prototype method example

Paper prototyping:



Fidelity

High
fidelity

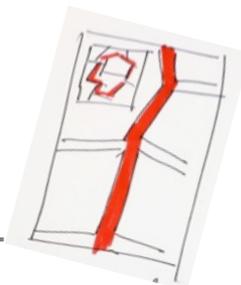


Clickable
prototype

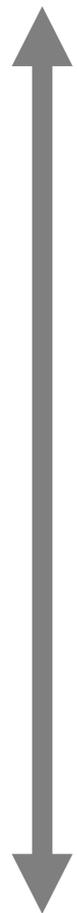


Paper
prototype

Low
fidelity



Crude
sketch



One rule...

**Build first,
then
think/talk!**

New competencies

A man with a beard and glasses is seen from the side, writing on a glass window with a marker. The window provides a view of a city skyline with several skyscrapers and greenery. The image has a purple and red color overlay.



attributes
generational features

generation values

innovation process

locations
assessment

Perceiving what is going on around you

- Observing
- Acting
- Thinking
- Feeling
- Doing

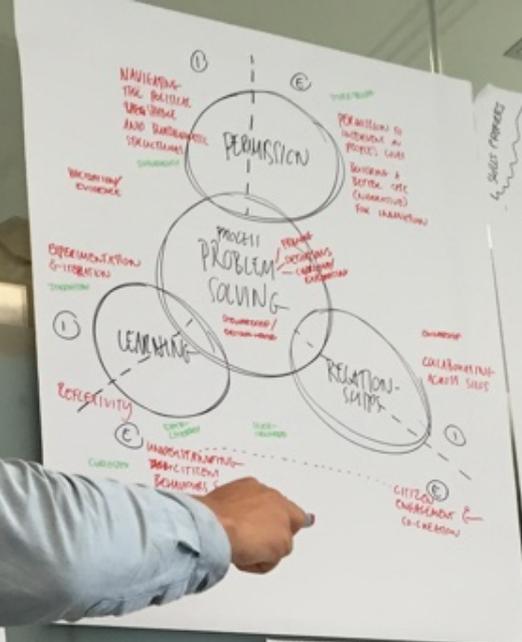
Integration

- Training to access
- With discipline
- And

ORGANISATION FOR ECONOMIC CO-OPERATION & DEVELOPMENT
ORGANISATION D'OPERATION & DEVELOPPEMENT ECONOMIQUE

INNOVATION

INNOVATION



SWOT ANALYSIS

DATA FOR POLICY DESIGN

HCD

TWO-DIMENSIONAL

- PERSONAL IDENTIFICATION
- Attributes
- experiences
- abilities

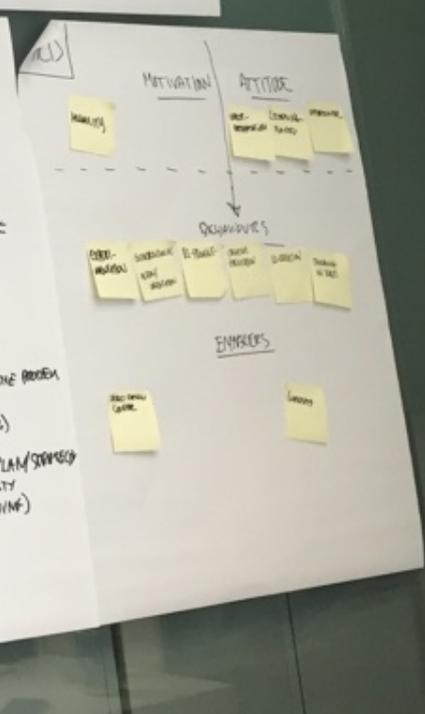
→ Sustainable

- REGISTRATION / FUNDRAISING
- How do you get out and develop these skills?
- Professional experience / personal beliefs

EXPERIMENTATION

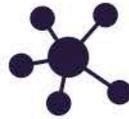
BEING ABLE TO ^{TO} ~~DEVELOPING~~ BETTER DECISIONS BY...

- EXPLORE DIFFERENT OPTIONS / OPPORTUNITIES
- IDENTIFY ASSUMPTIONS AND TRANSLATE THEM INTO A TESTABLE HYPOTHESIS.
- SET UP A PROCESS OF TESTING THE PROBLEM CUES OF THE HYPOTHESIS ON A SMALL SCALE
- PROTOTYPE IDEAS FROM CRITICAL INSIGHTS IN ORDER TO LEARN ABOUT THEIR RESILIENCE AND VIABILITY
- BE OPEN TO CHALLENGE ONE'S ASSUMPTIONS ABOUT THE PROBLEM
- BE OPEN TO UNEXPECTED RESULTS (BEING WRONG)
- BEING FLEXIBLE TO ADJUST OR ALTER PLAN/STRATEGY
- BEING ABLE TO SHARE LEARNING WITH NEARBY
- PLAN FOR ITERATIVE LEARNING (GO DOING)



Four levels of capacity building

ECOSYSTEM



ORGANISATION



TEAM



INDIVIDUAL





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TOGETHER

Engaging with citizens and stakeholders to create shared ownership of new solutions

CORE SKILLS
KEY ATTITUDES

Empathetic

Understanding others' experiences and frames of reference

Agile

Responding to changing environments with flexibility

Action-oriented

Biased towards action and learning by doing

Resilient

The perseverance to deal with resistance



Competencies for

EXPERIMENTING & PUBLIC PROBLEM SOLVING

Curious

The desire to explore multiple possibilities

Imaginative

Exploring and envisioning new possible futures

Reflective

Habit of critically reflecting on process and results

Outcomes-focused

Strong commitment to real world effects

Courageous

Willingness to take risks

ACCELERATE LEARNING

Exploring and validating new ideas to improve solutions

LEADING CHANGE

Political & Bureaucratic Awareness

Operating political and bureaucratic procedures to ensure strategic support

Managing change

Understanding the many ways to manage change and use financial resources for innovation

Entrepreneurship

Identifying and use business opportunities to create opportunities

SKILLS
ATTITUDES

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The desire to explore multiple possibilities

Reflective

Habit of critically reflecting on process and results

ACCELERATING LEARNING

Exploring and iterating new ideas to inform and validate solutions

Future Acumen

Connecting long-term vision with short-term achievable tasks

Prototyping & Iterating

Testing ideas and systematically improving them

Data Literacy & Evidence

Using different kinds of data effectively to accelerate sense-making

Systems Thinking

Combining micro and macro perspectives to grasp complexity

Tech Literacy

Understanding technological developments and use their potential

US
ke

Citizen & Stakeholder Engagement

Actively involving citizens,
stakeholders and unusual
suspects

Creative Facilitation

Creatively processing different
perspectives and deliberating
multiple options

Building Bridges

Orchestrating interaction to
find common ground and
create shared ownership

Brokering

Mediating contrasting
interests and reducing
friction between multiple
stakeholders

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to liberate and use financial
resources for innovation

Intrapreneurship

Being insurgent and use business
acumen to create opportunities

Demonstrating Value

Articulating the value of new
approaches and solutions for
decision-making purposes

Storytelling & Advocacy

Using narratives and media
to articulate vision and
information in compelling
ways

LEADING CHANGE

Mobilising resources and
legitimacy to make
change happen

- Citizen & Stakeholder Engagement**
Actively involving citizens, stakeholders and unusual suspects
- Creative Facilitation**
Creatively processing different perspectives and deliberating multiple options
- Building Bridges**
Orchestrating interaction to find common ground and create shared ownership
- Brokering**
Mediating contrasting interests and reducing friction between multiple stakeholders
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Understanding technological developments and use their potential



Mapping the Team

Summary

Three categories of experimentation

Embrace uncertainty

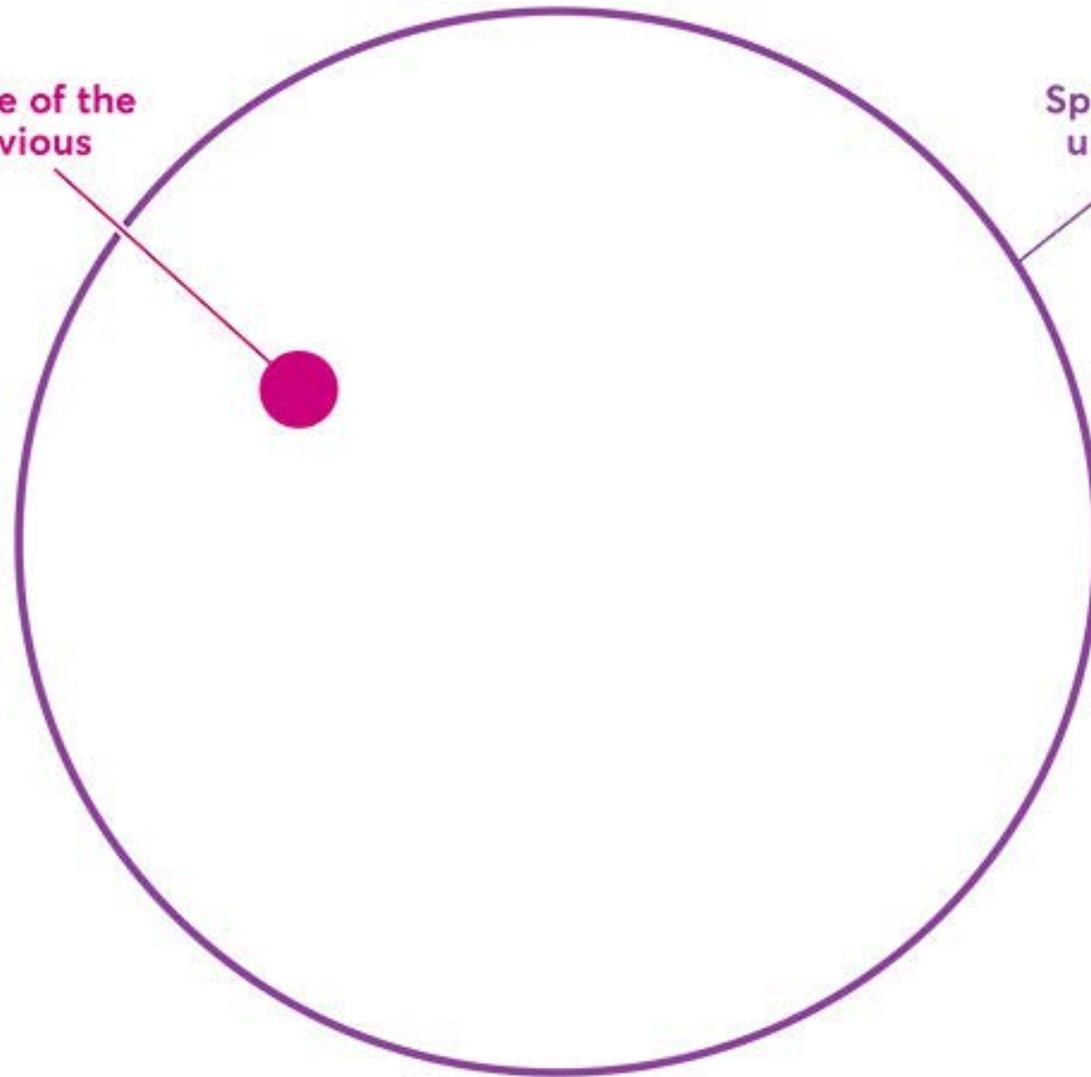
Manage risk



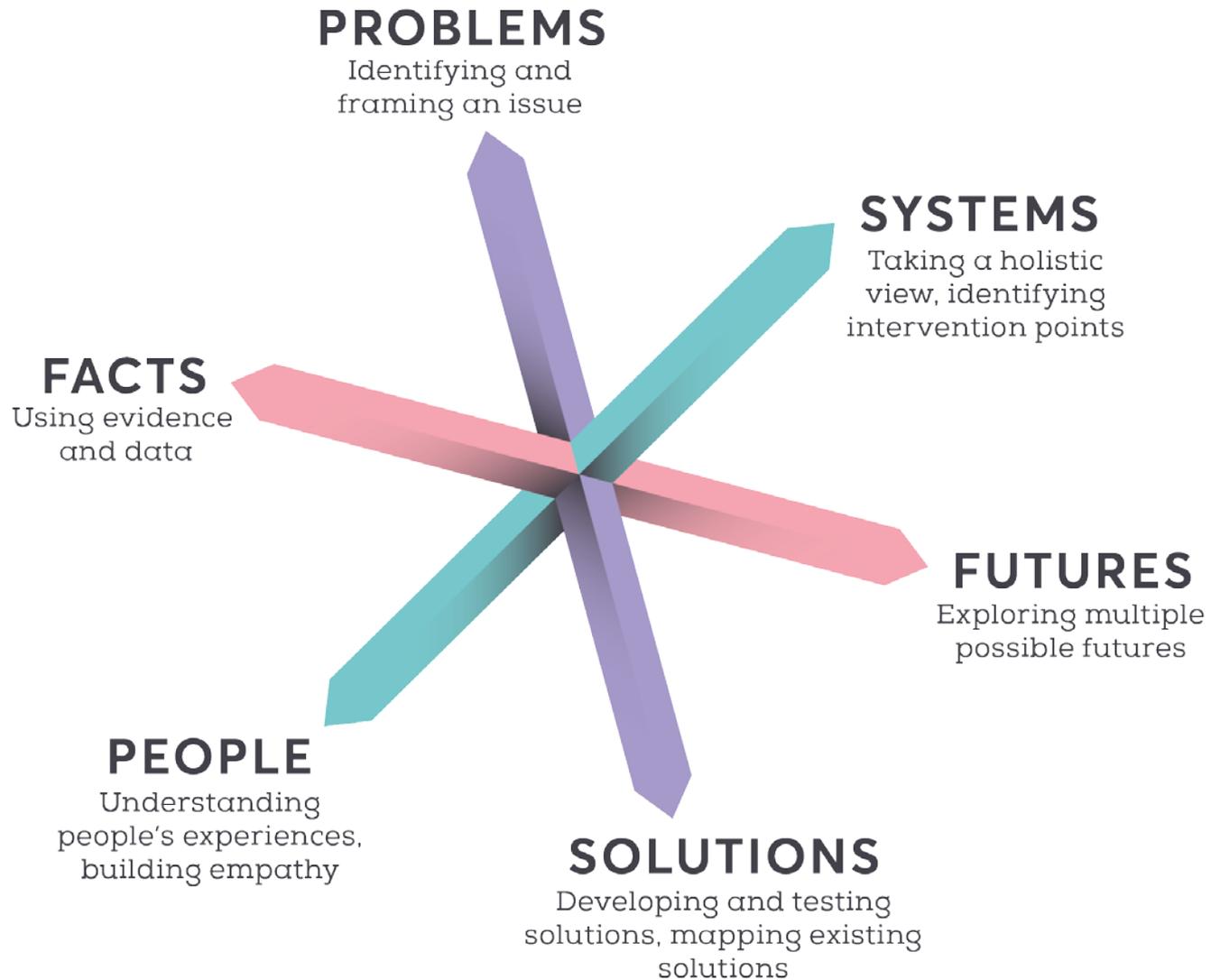
SOLUTIONS ARE UNKNOWN Understanding of the problem is unclear. Risk cannot be managed.		SOLUTIONS ARE KNOWN Understanding of the problem is clear. Risk can be managed.
EXPLORE GENERATING HYPOTHESES What might be Shaping direction Action is taken to open up new possibilities	TRIAL-AND-ERROR ESTABLISHING A HYPOTHESIS What could be Creating basis for redesign Action is taken to find out what works	VALIDATE VALIDATING A HYPOTHESIS What should be Legitimising initiative Action is taken to justify decision making
SUGGESTED METHODS		
Speculative Design, Foresight, Ethnographic Research, Positive Deviance, etc	Prototyping, Human Centred Design, Behavioural Economics, etc	Randomised Control Trials, Pilots, A/B Testing, Multiple Parallel Experiments, etc

Space of the obvious

Space of the unobvious



Six principles to explore the unobvious



What do we know?

(Validated)
knowledge

**What do you know
for sure?**

For which you have
evidence to support your
claims

Assumptions

**What do you think
you know for sure?**

But, for which you don't
have any evidence to
support your claims

Knowledge
gaps

**What is it that you
don't know?**

For which you need to do
research



Q&A

STATES OF
CHANGE



Thank you!

@States_Change

@nesta_uk

@bcaffin

STATES
OF
CHANGE

nesta 