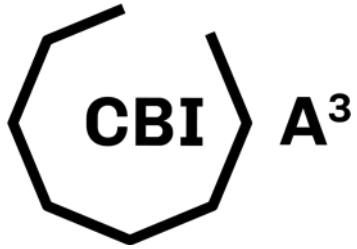


Welcome to



A³

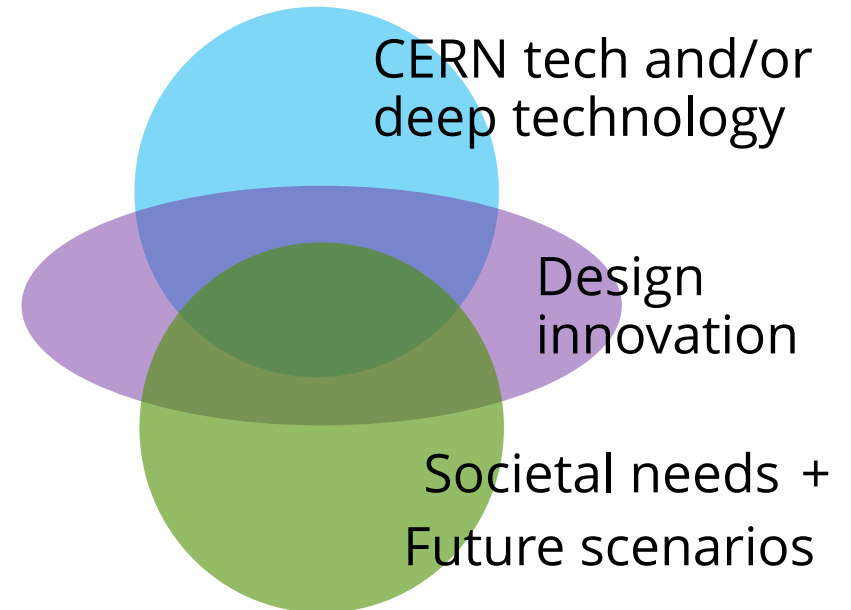




We aim to:

Challenge learners to be globally responsible innovators

Promote radical + different types of innovation





SUSTAINABLE DEVELOPMENT GOALS





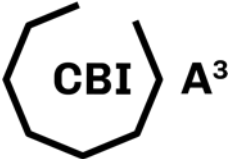
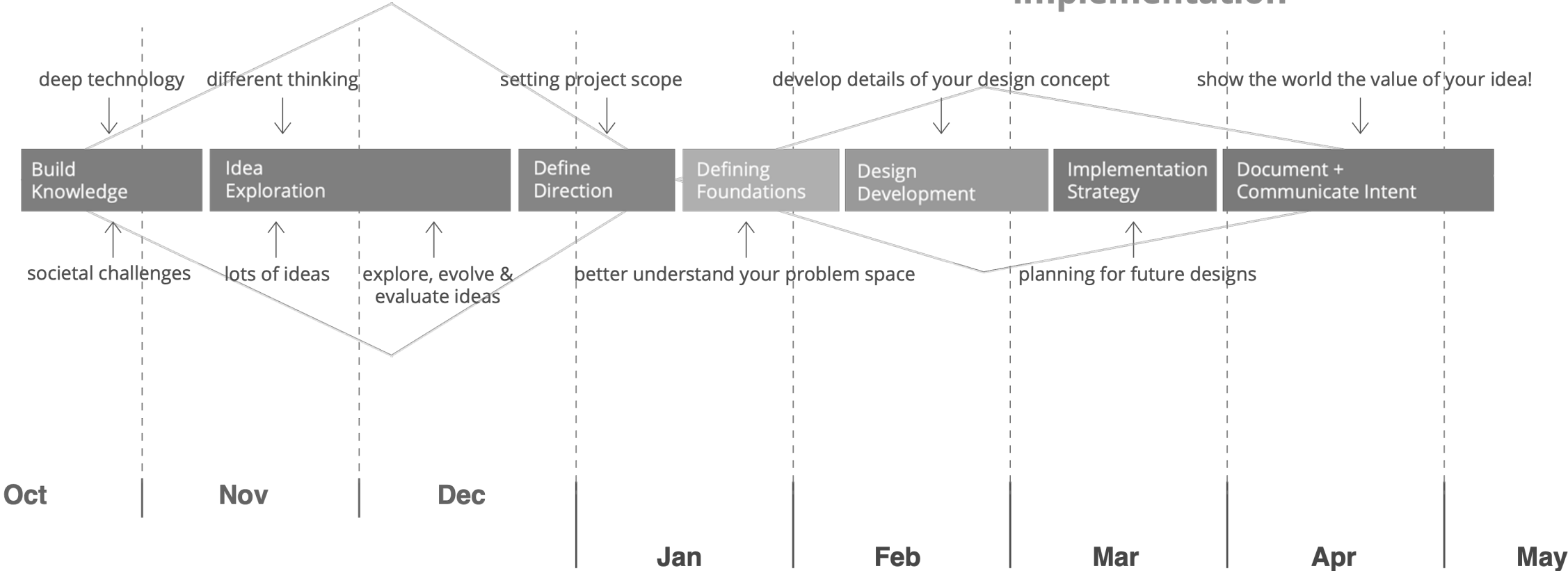
SUSTAINABLE DEVELOPMENT GOALS



Overview

Phase 1: exploring connections

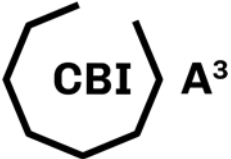
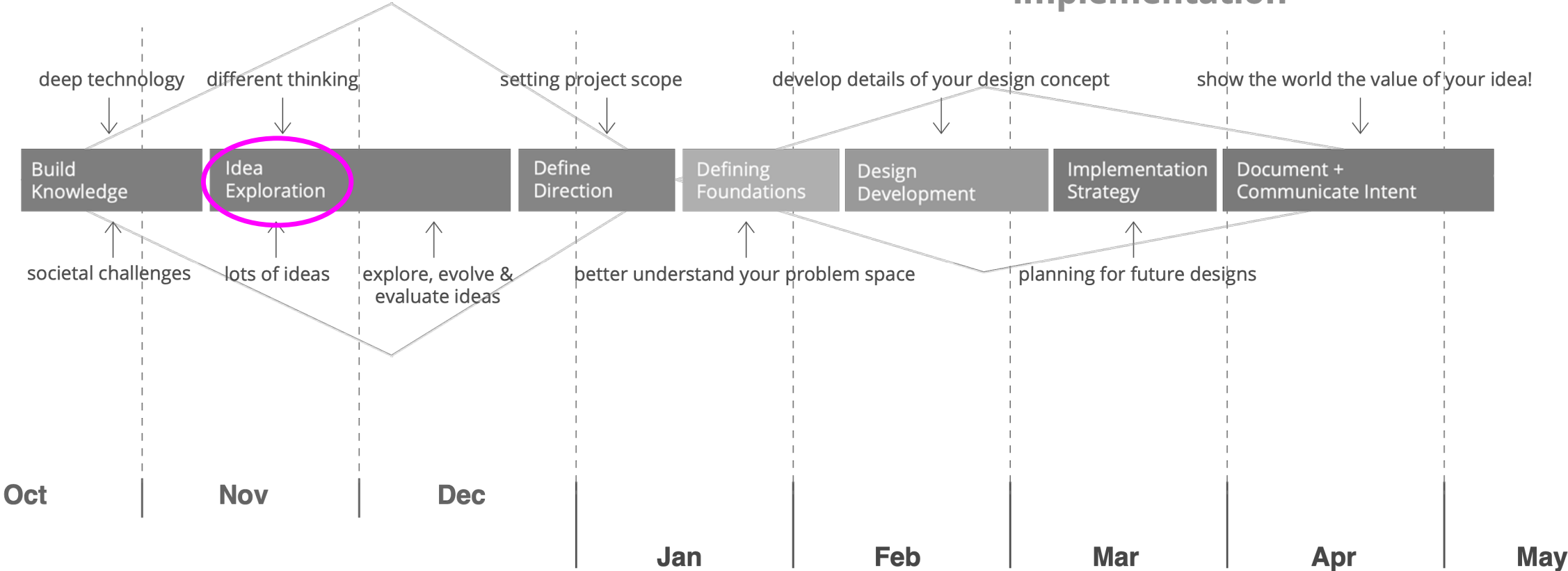
Phase 2: developing design and implementation



Overview

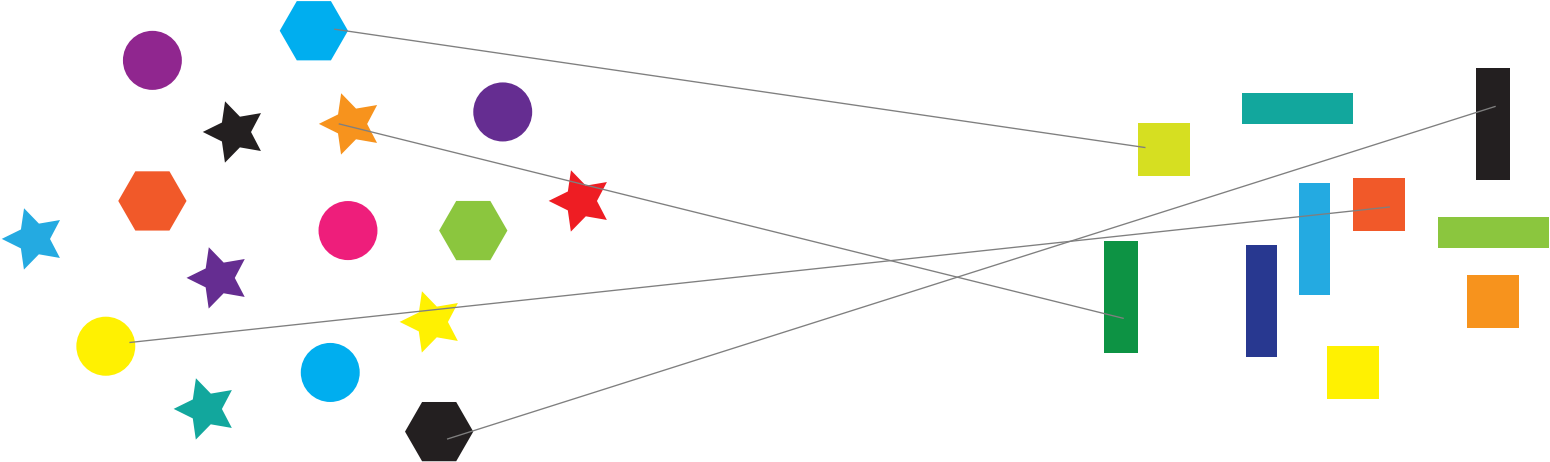
Phase 1: exploring connections

Phase 2: developing design and implementation

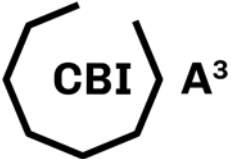


1. Connections:

Identified problems



CERN technology



CBI A³ jam is about...

immerse in CERN context

explore project ideas

embrace innovation culture

have fun, experiment & learn

share global perspectives





**SHARING
THE PASSION
FOR DOING**



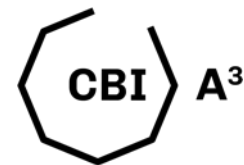
energisers

Daily warm-ups (energisers)!

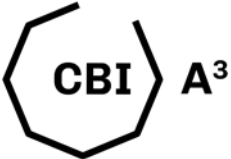
End of day reflections

~1 hour lunch break

Mixture of presentations & team time (structured & freestyle)

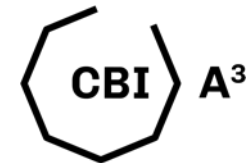


Daily warm-ups (energisers)...



Daily warm-ups (energisers)...

Tues 1 st Nov	Palu.Disa
Wed 2 nd Nov	Fusion
Thurs 3 rd Nov	Ctrl Z
Fri 4 th Nov	Cheers
Sat 5 th Nov	<i>Teaching Team!</i>
Mon 7 th Nov	Betaspace
Tues 8 th Nov	Squid
Wed 9 th Nov	Trinary Bits
Thurs 10 th Nov	<i>Teaching Team!</i>



CBI A³ Jam - Week 1

* Schedule is dynamic & subject to ongoing tweaks & updates

MONDAY, 31 OCTOBER		
08:30 → 10:00	Teaching team meeting	🕒 1h 30m 📍 3179/R-E06
10:00 → 12:00	Welcome to IdeaSquare and CERN & Icebreaker Exercise + CERN Site Tour Speakers: Catarina Batista (Helsinki University of Technology (FI)), Chris Thong (Swinburne University of Technology)	🕒 2h 📍 3179/R-E06
12:00 → 13:30	Lunch at R1	🕒 1h 30m 📍 3179/R-E06
13:30 → 14:30	Intro to CBI A3 2 week intensive Speaker: Chris Thong (Swinburne University of Technology)	🕒 1h 📍 3179/R-E06
14:30 → 14:45	Break	🕒 15m 📍 3179/R-E06
14:45 → 15:45	Cultivating a Growth Mindset Speaker: Catarina Batista (Helsinki University of Technology (FI))	🕒 1h 📍 3179/R-E06
15:45 → 16:00	Break	🕒 15m 📍 3179/R-E06
16:00 → 17:00	Set goals for the weeks, hopes & fears and research on CBI A3 Speaker: Chris Thong (Swinburne University of Technology)	🕒 1h 📍 3179/R-E06
17:00 → 18:30	Team Canvas Speaker: Chris Thong (Swinburne University of Technology)	🕒 1h 30m 📍 3179/R-E06
18:30 → 20:30	PIZZAAA + Creating a Community Photo Board	🕒 2h 📍 3179/R-E06

<https://indi.to/NzQTT>





Communication:

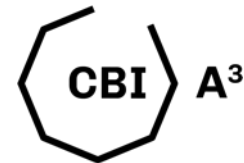
Slack channel

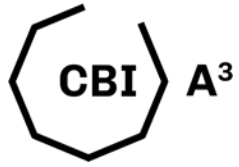
Any questions, plus fun photos + random shares encouraged!

Chris +41 77 809 9489

Catarina +41 75 411 0892

Urgent or emergency stuff you can call us + also you have your prof./lecturer details

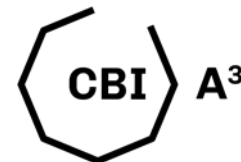




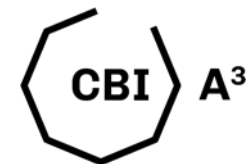
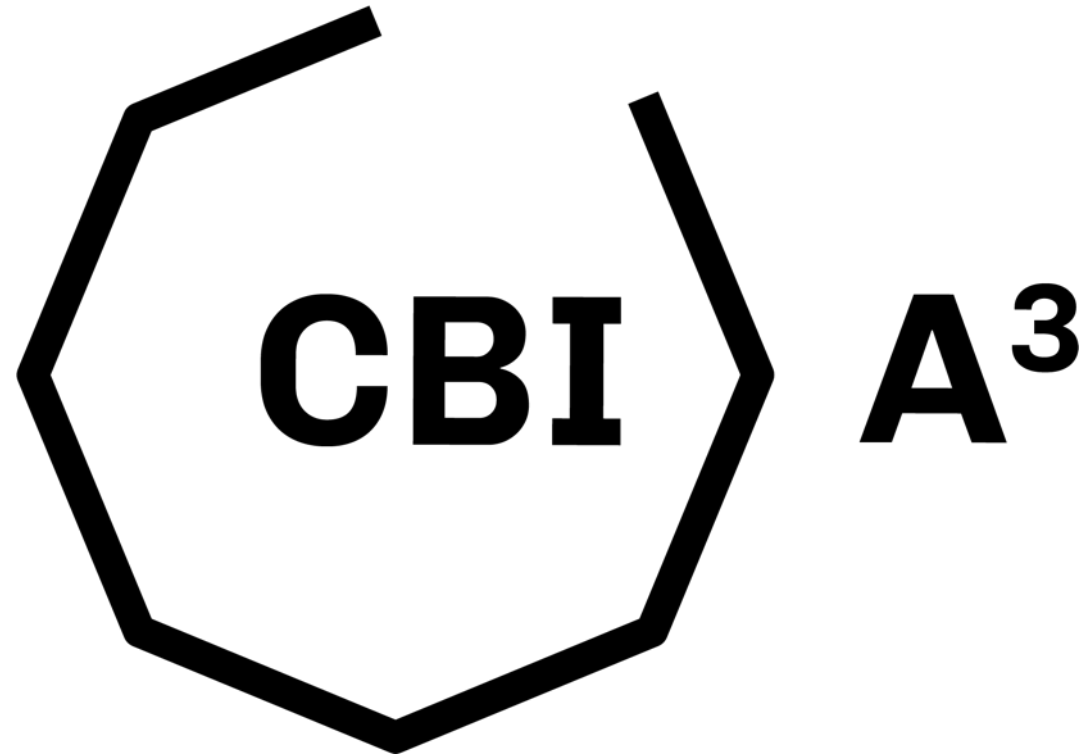
Expectations

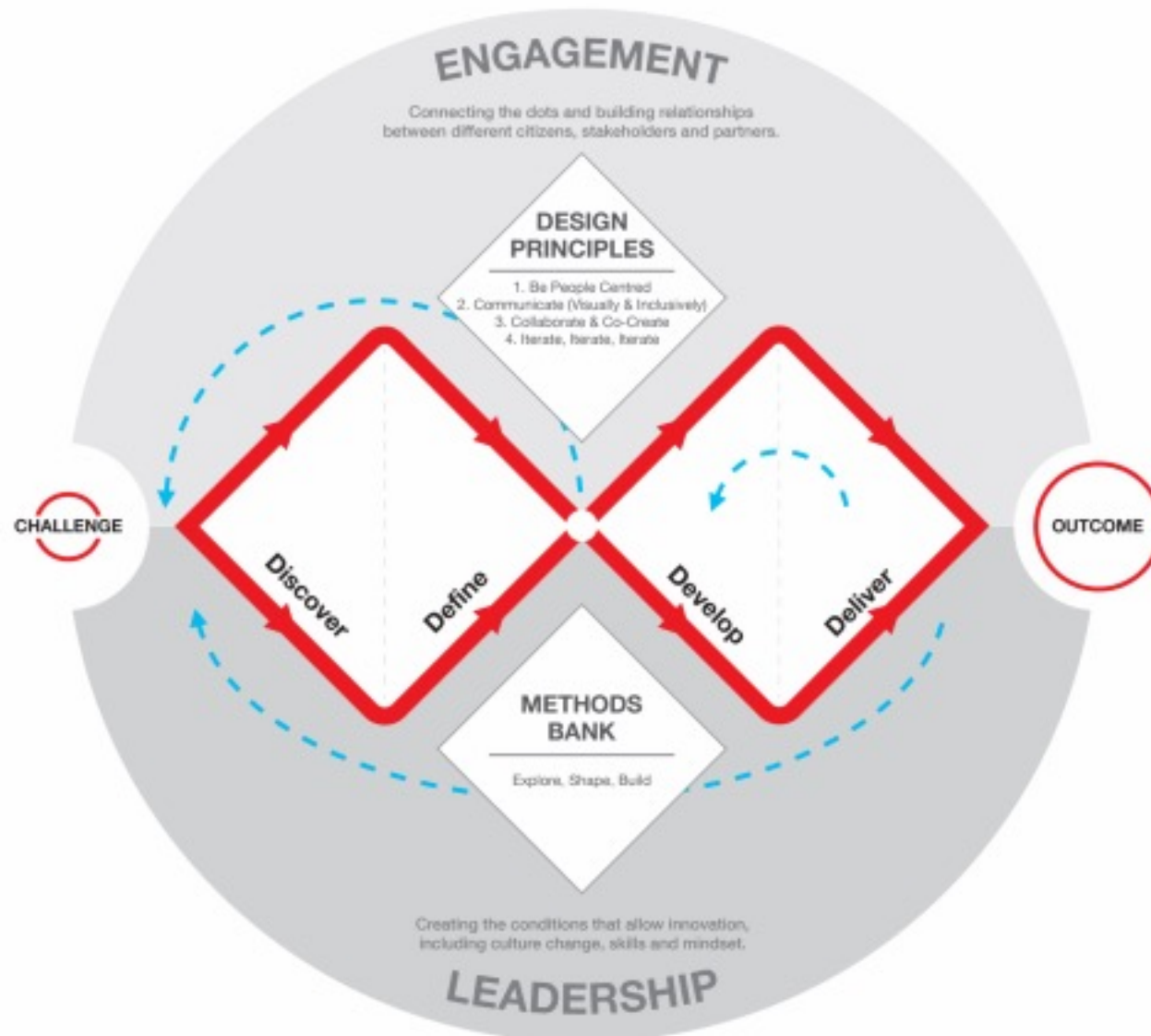
Brainstorm around each of the 5 common principles of Dfness...

1. All people have potential
2. Talk to someone new
3. Fail forward to succeed sooner
4. Your parents don't work here
5. Safety comes first



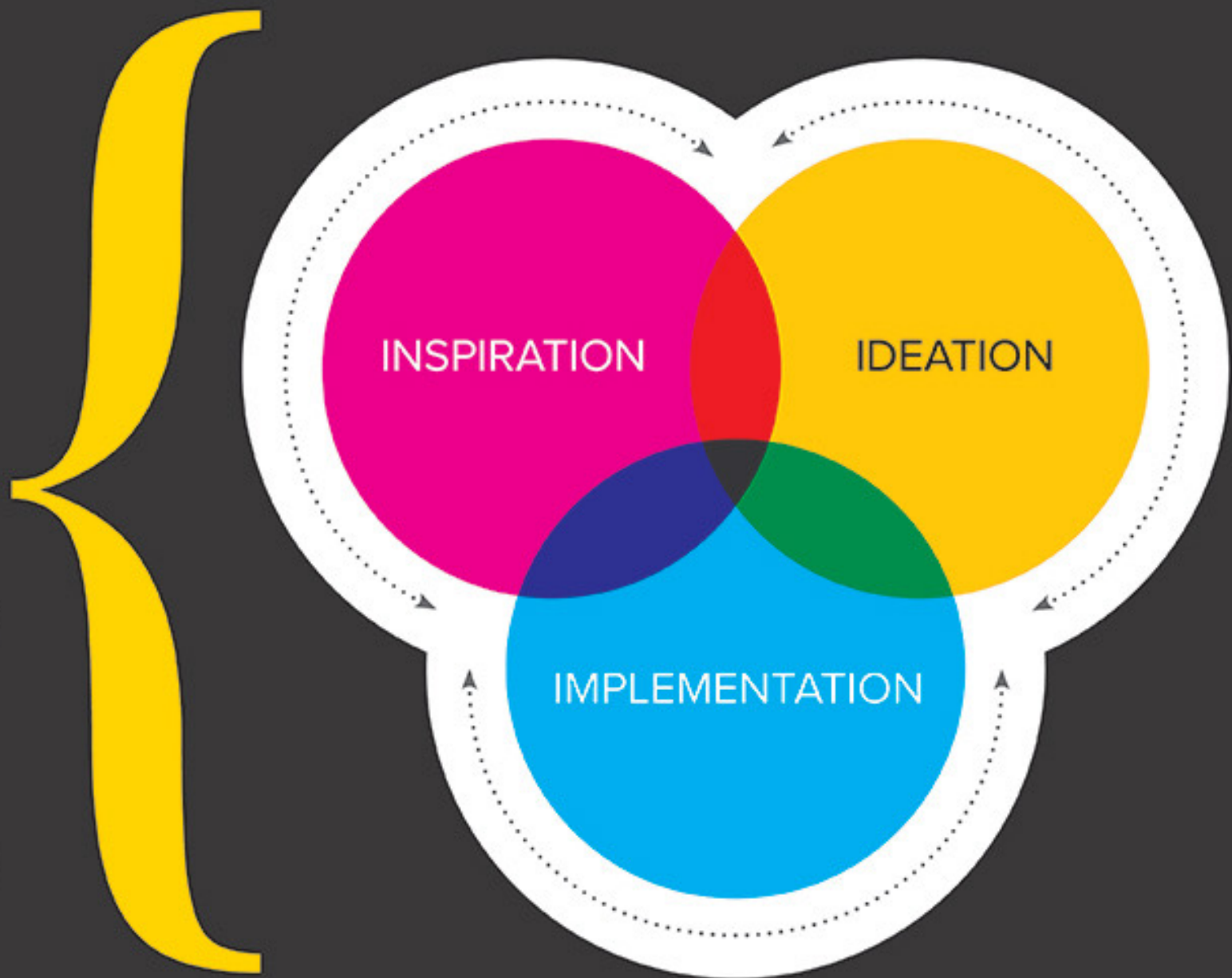
**Why design-
inspired innovation
with science and
deep technology?**



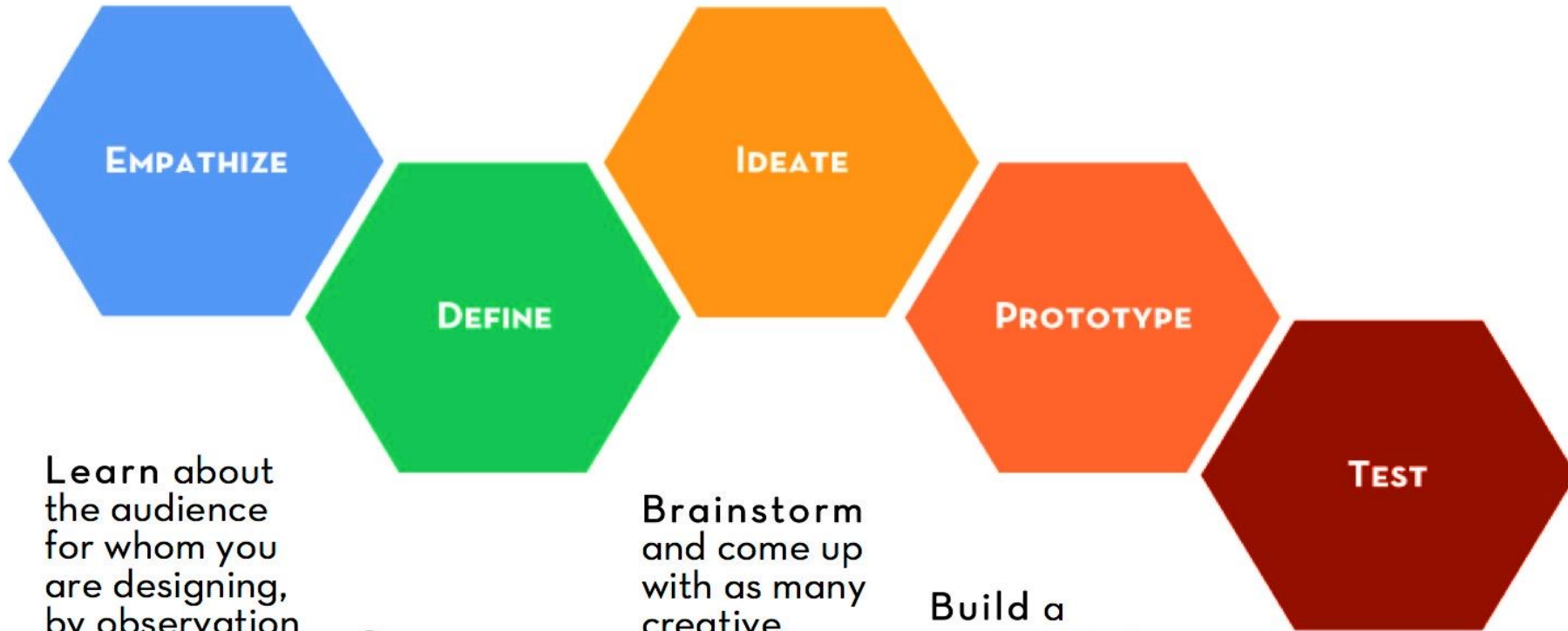


“Design thinking
is an approach to
problem-solving in
which inspiration,
ideation and
implementation
occur not in sequence
but as ‘a system of
overlapping spaces.’”

Tim Brown
IDEO President



EXAMPLES OF PROCESSES



Learn about the audience for whom you are designing, by observation and interview.
Who is my user? What matters to this person?

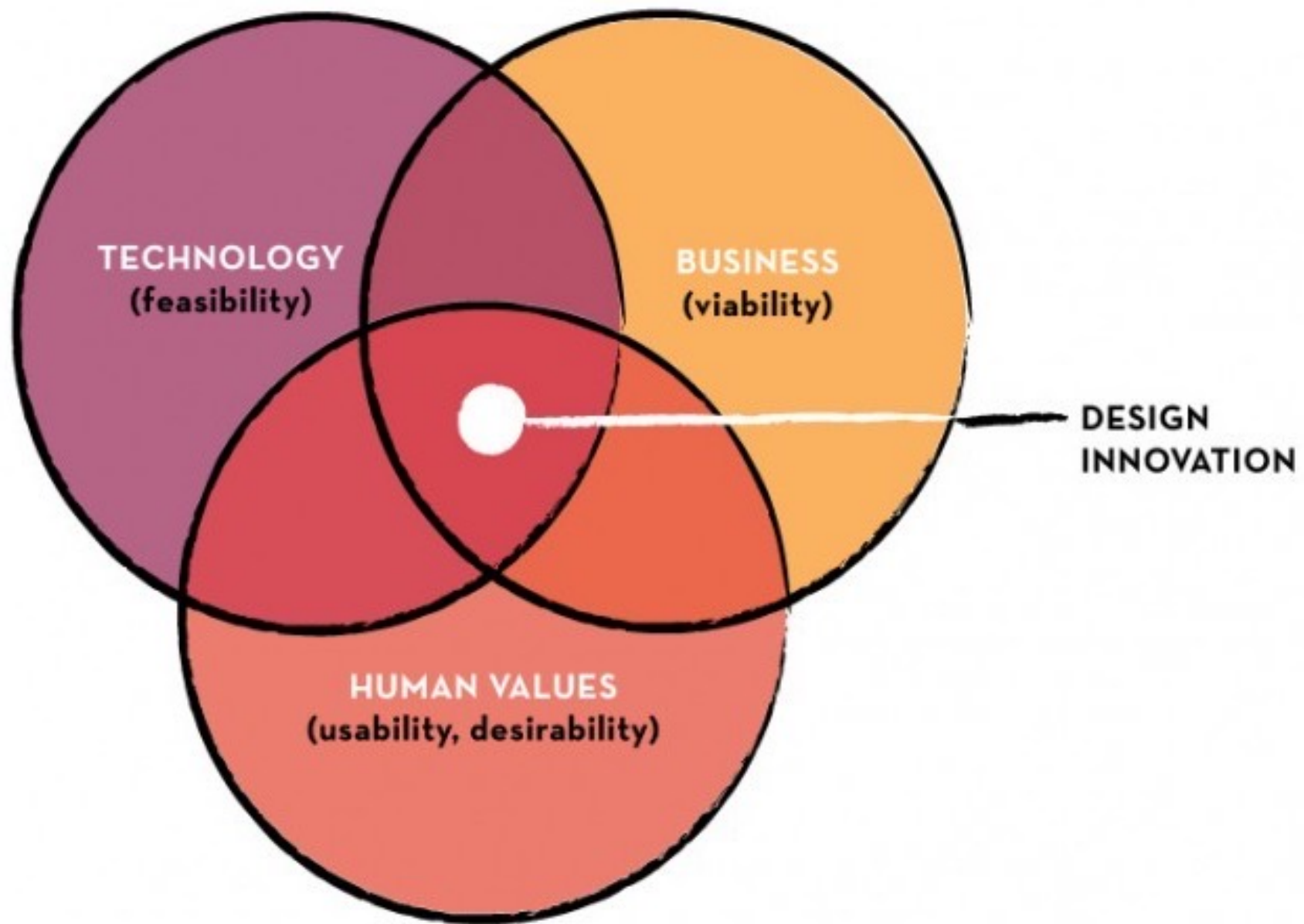
Create a point of view that is based on user needs and insights.
What are their needs?

Brainstorm and come up with as many creative solutions as possible.
Wild ideas encouraged!

Build a representation of one or more of your ideas to show to others.
How can I show my idea? Remember: A prototype is just a rough draft!

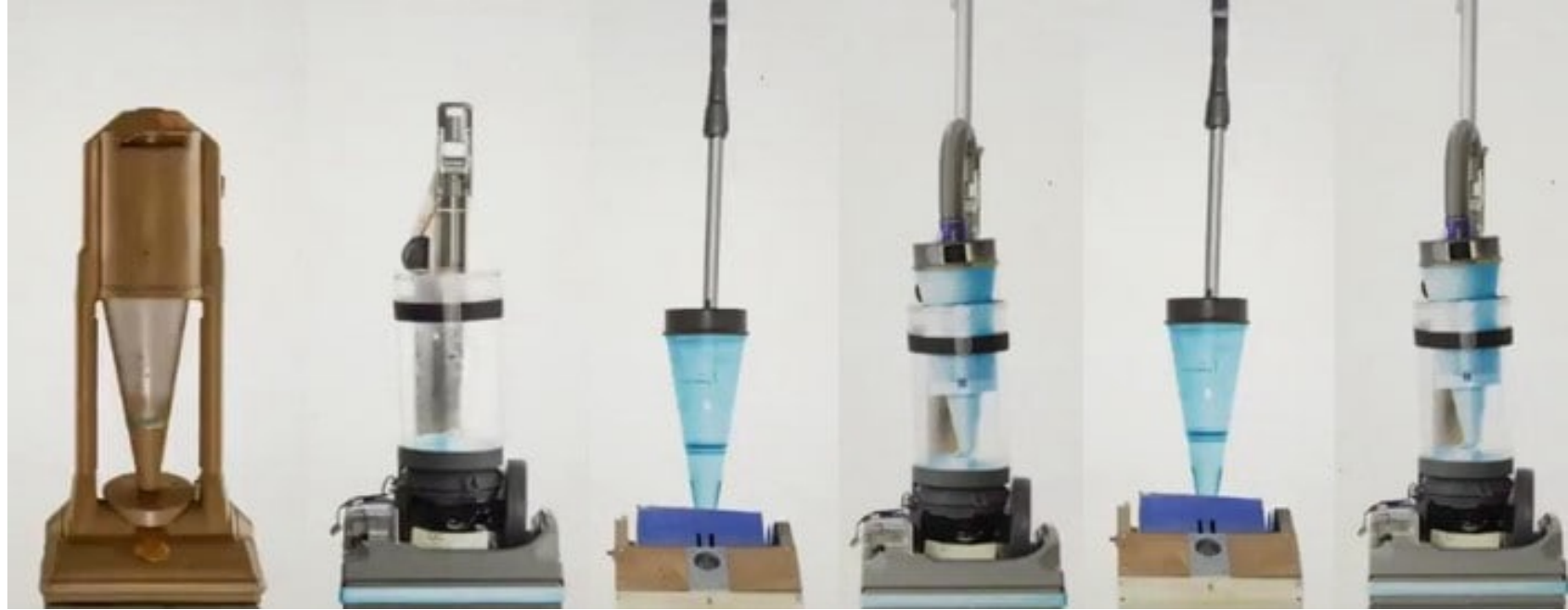
Share your prototyped idea with your original user for feedback.
What worked? What didn't?

WHAT IS DESIGN THINKING?



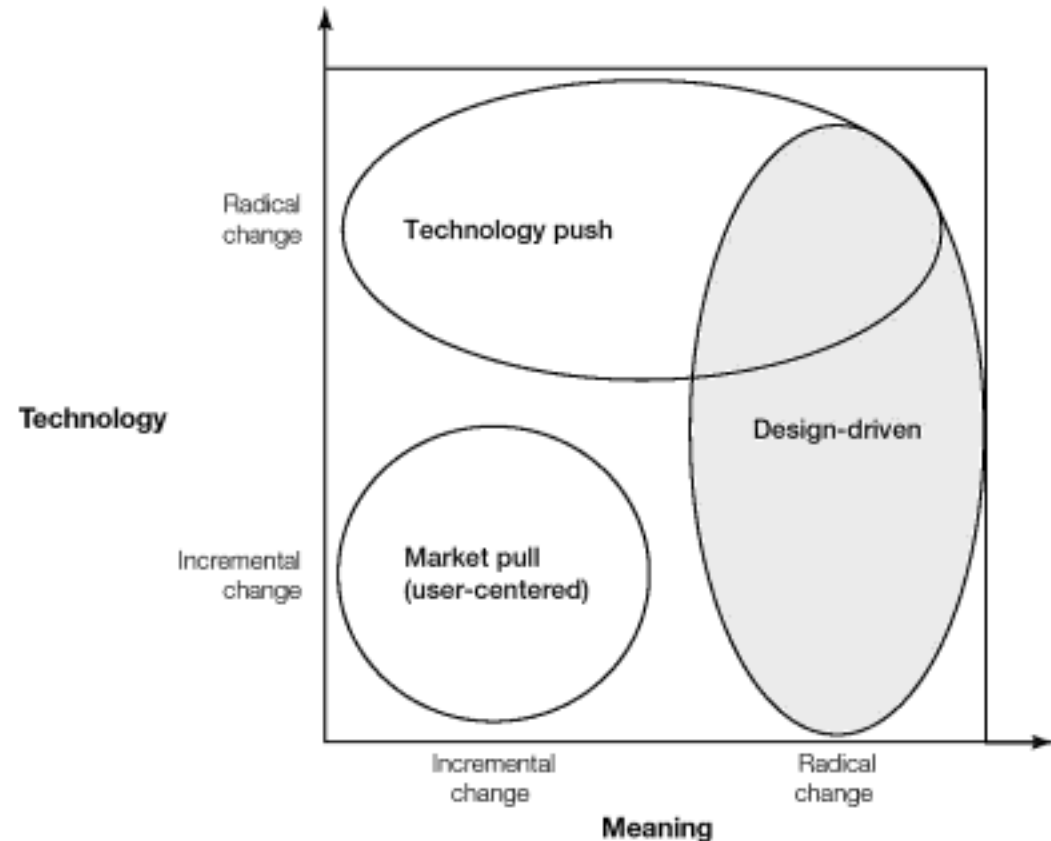


**5271
“failed”
prototypes
before the
first
successful
Dyson
Vaccum**



Technology + Design for RADICAL innovation

The strategy of design-driven innovation as the radical change of meanings

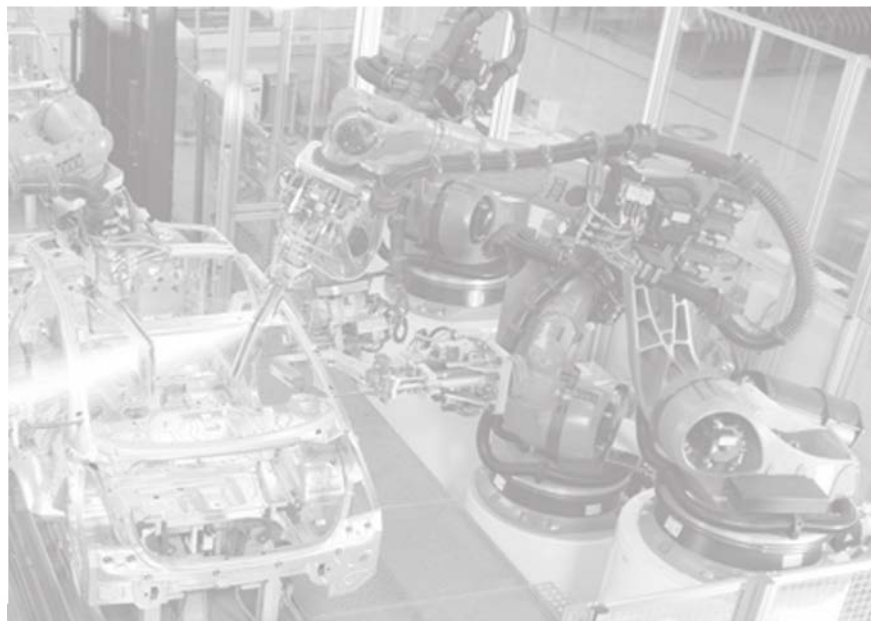
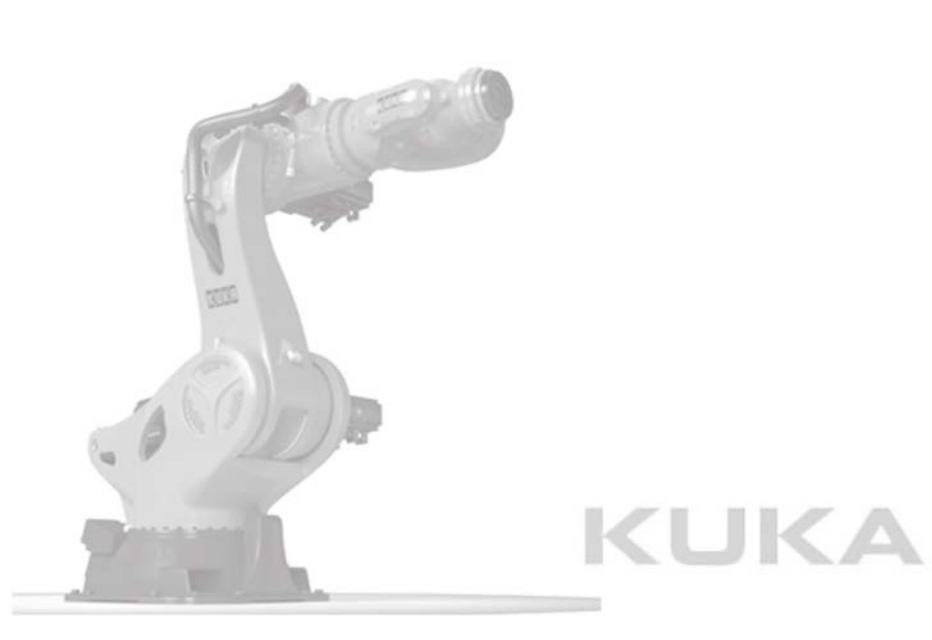


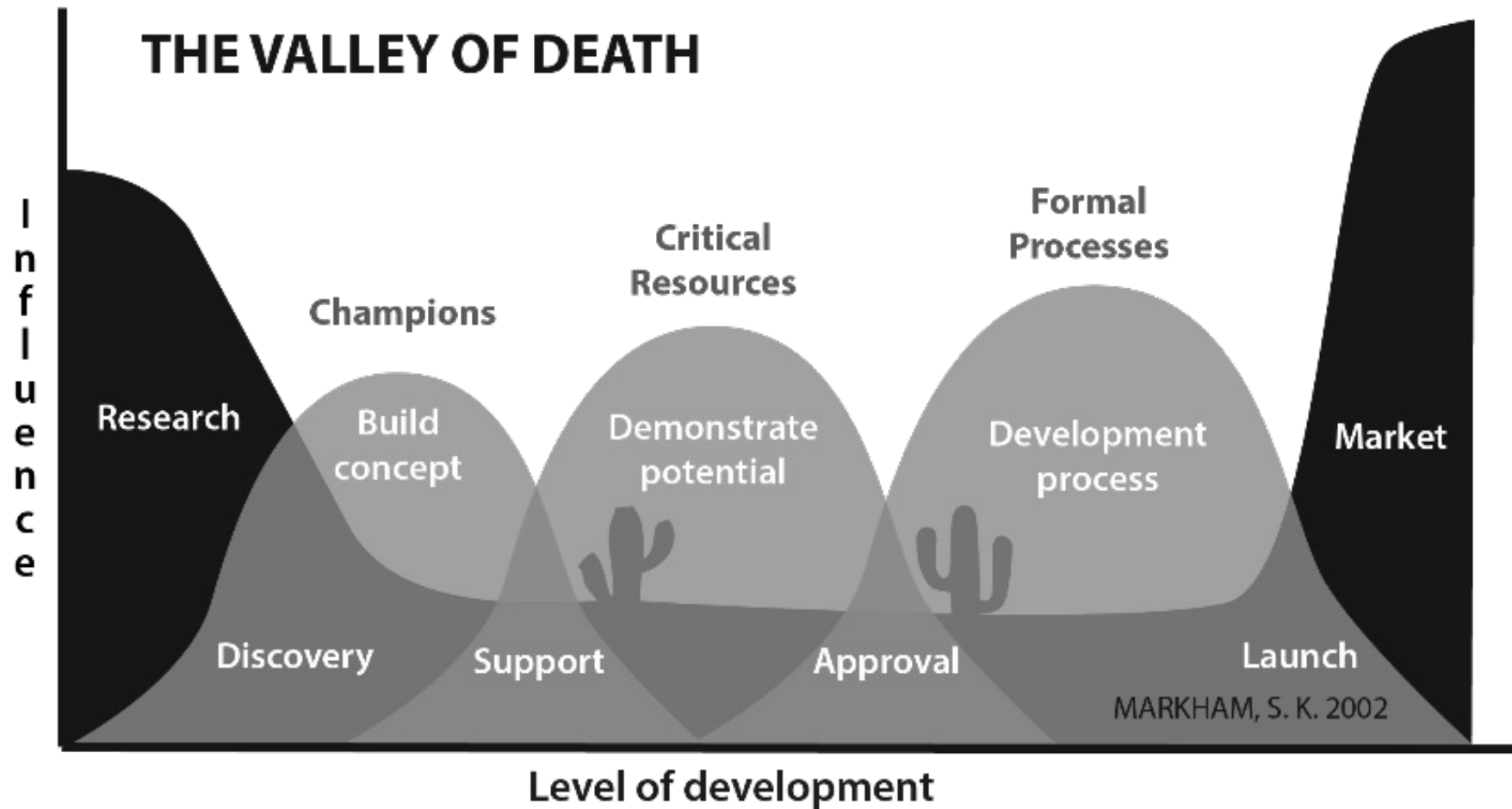
(Verganti, 2009)



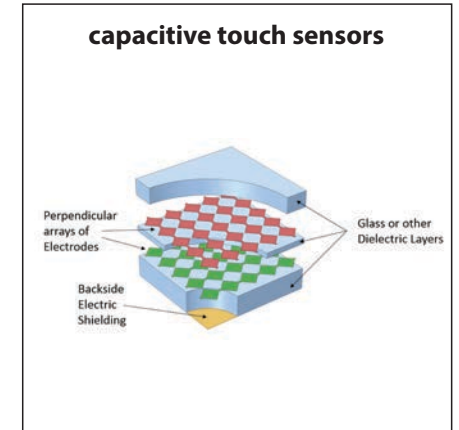
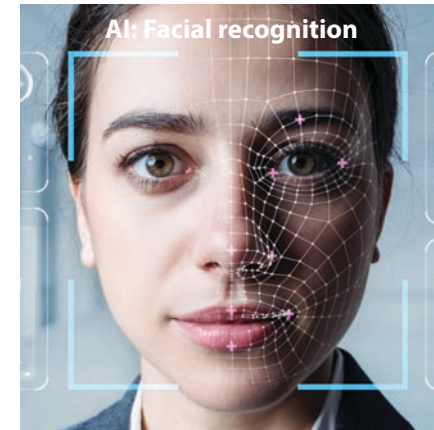
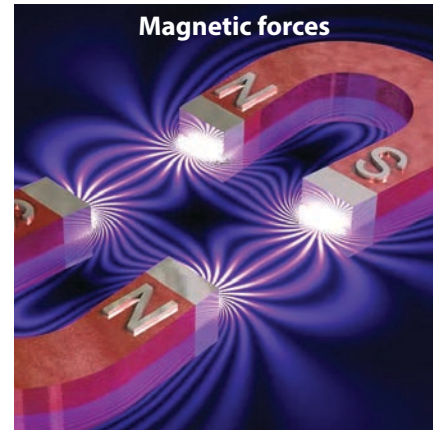
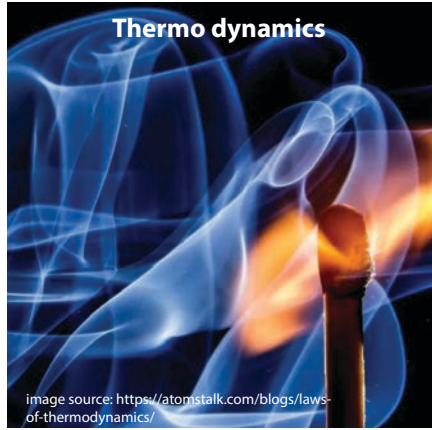
KUKA



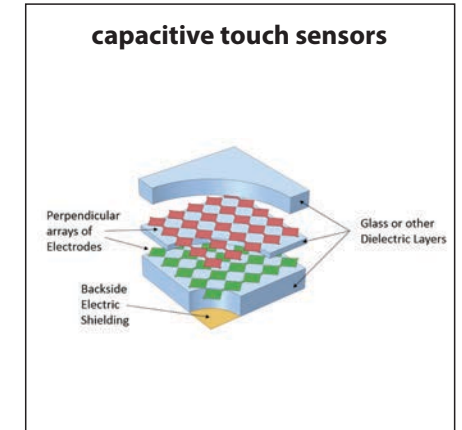
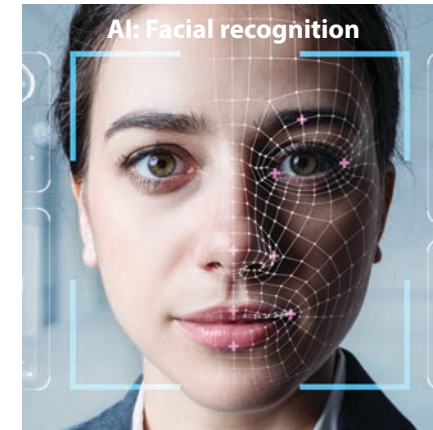
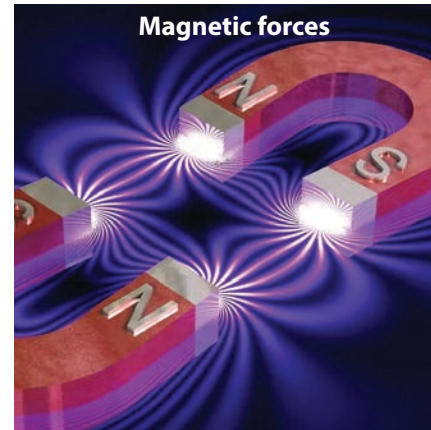
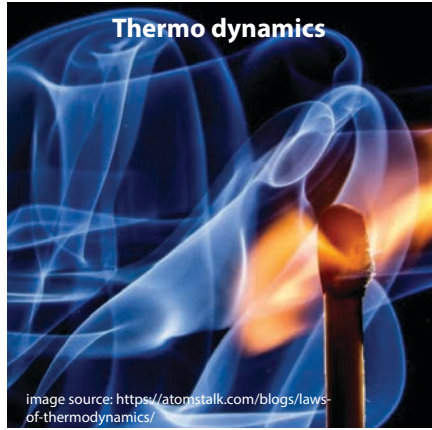




(Markham, 2002)



Science/Tech in the Lab

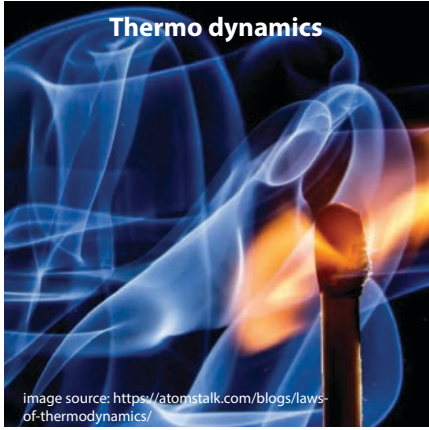


Science/Tech in the Lab



To market?

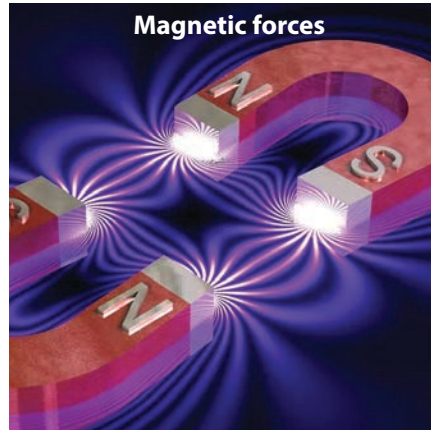
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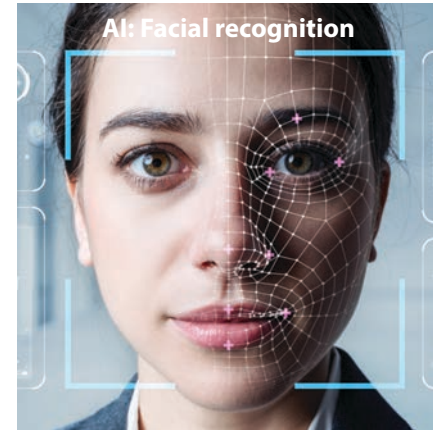
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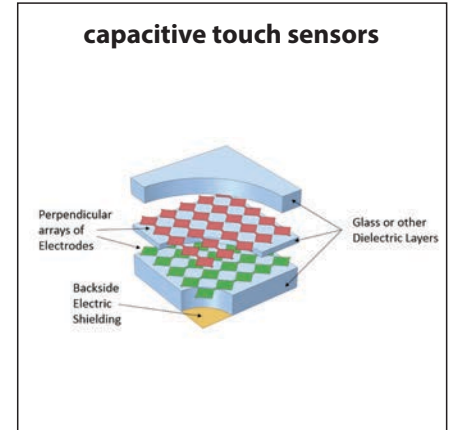
3



4



5



A



B



C

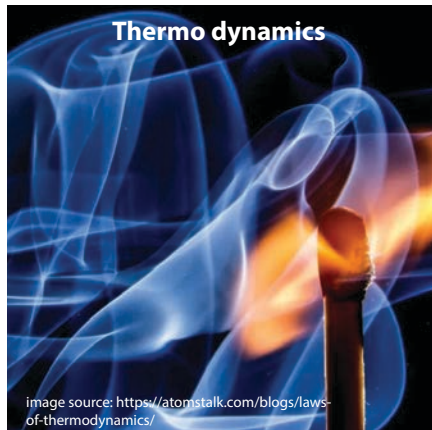


D



E

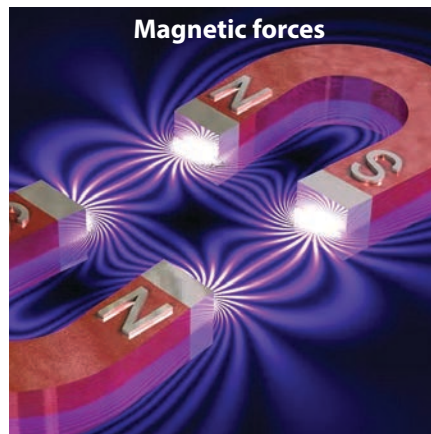
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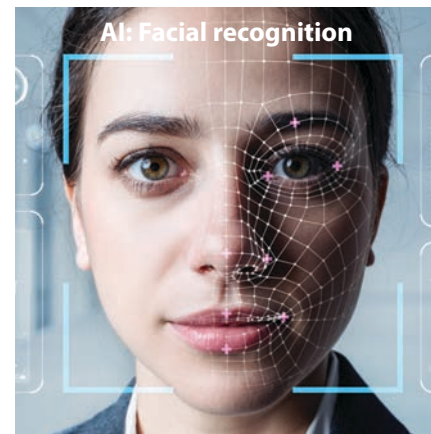
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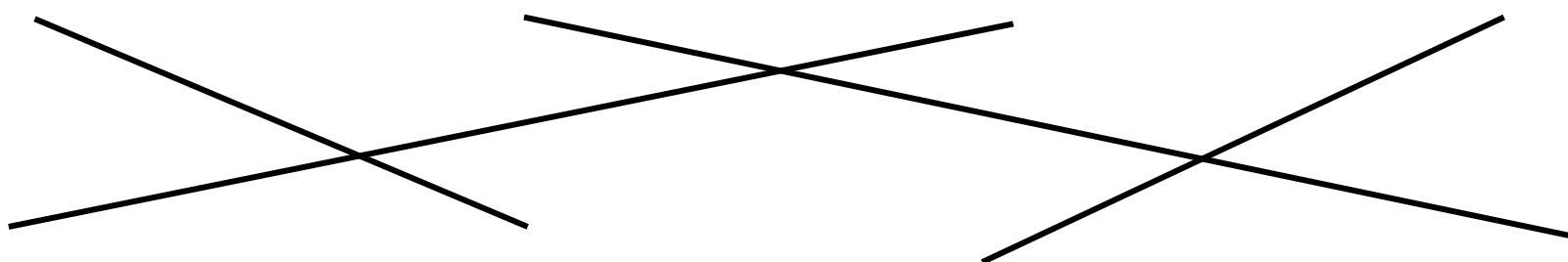
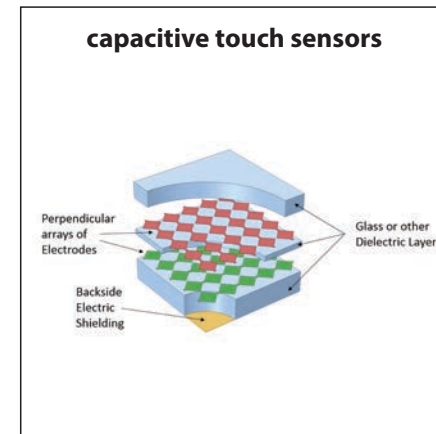
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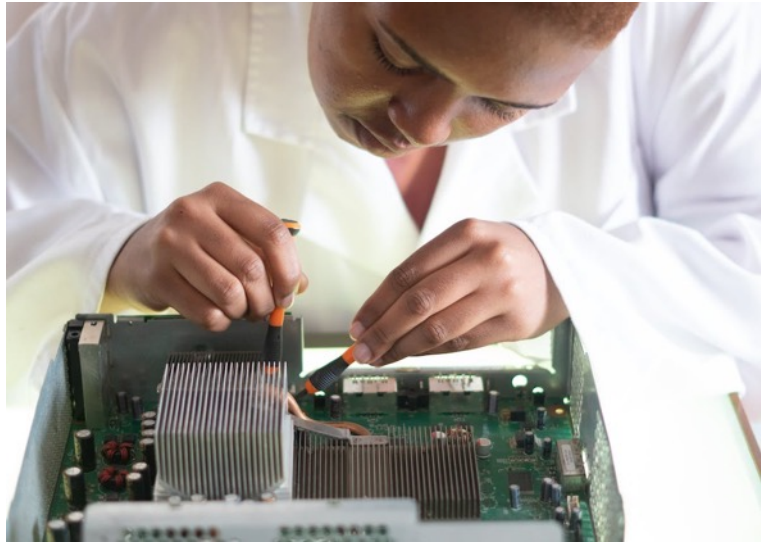


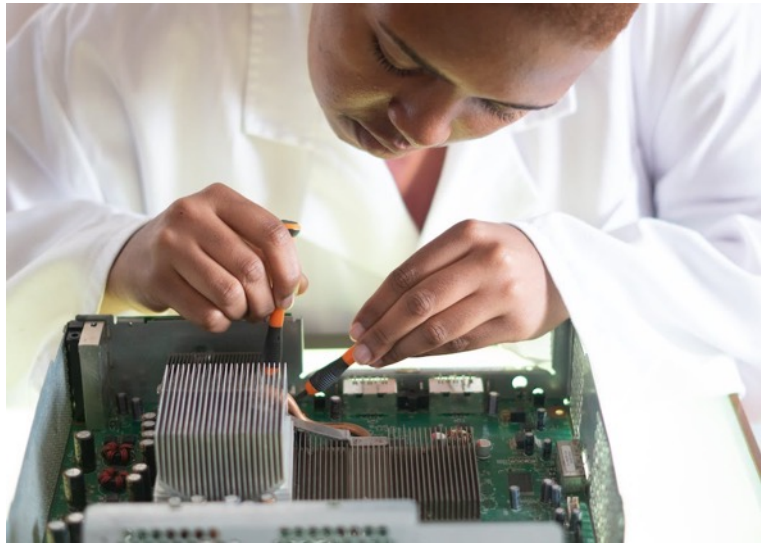
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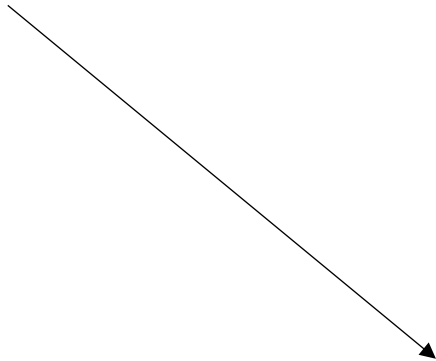
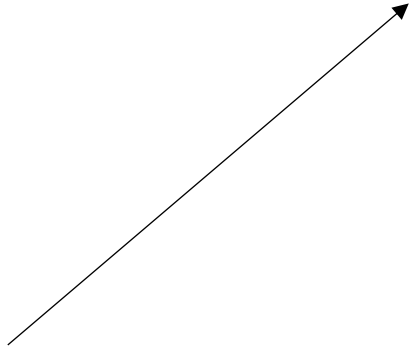
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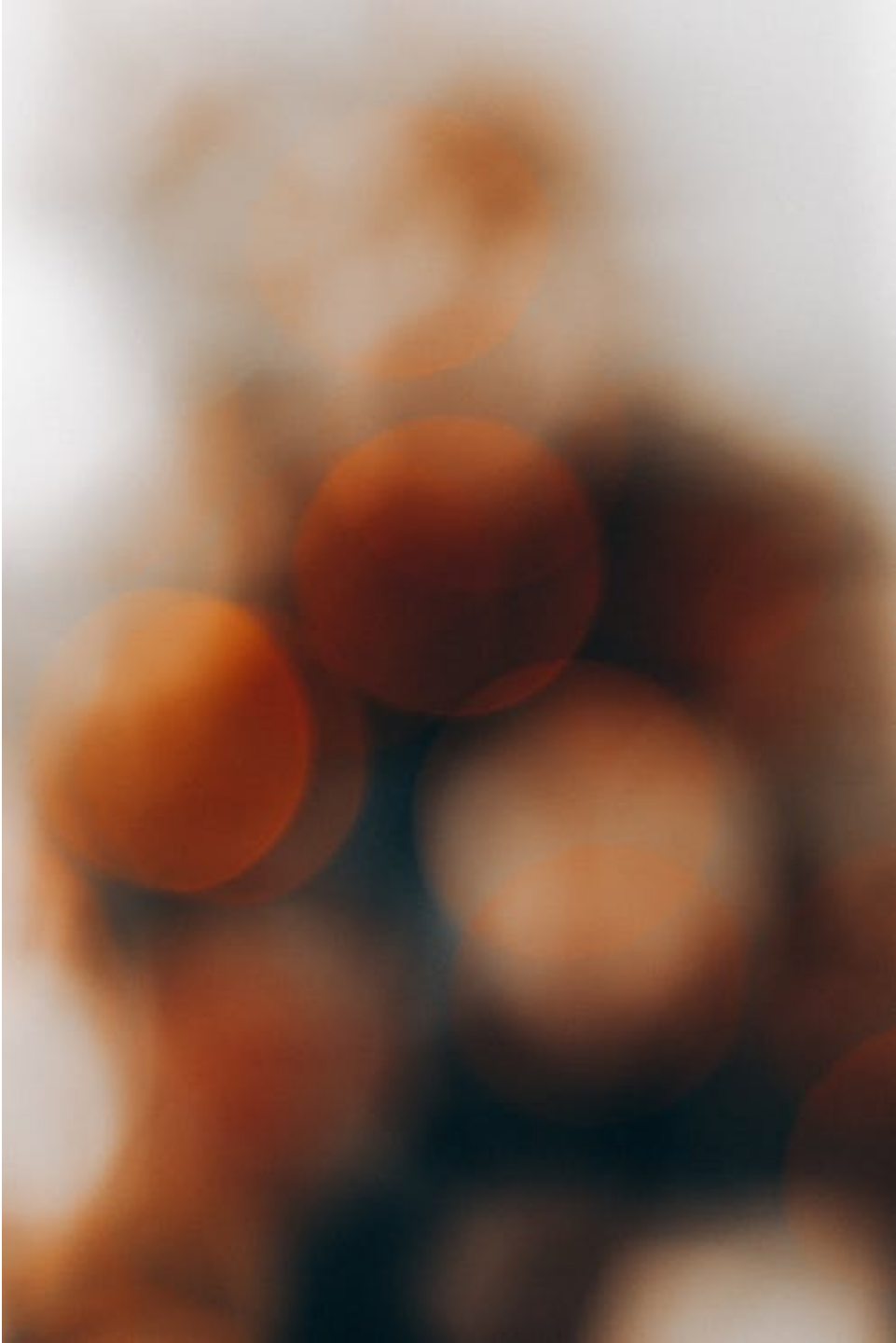




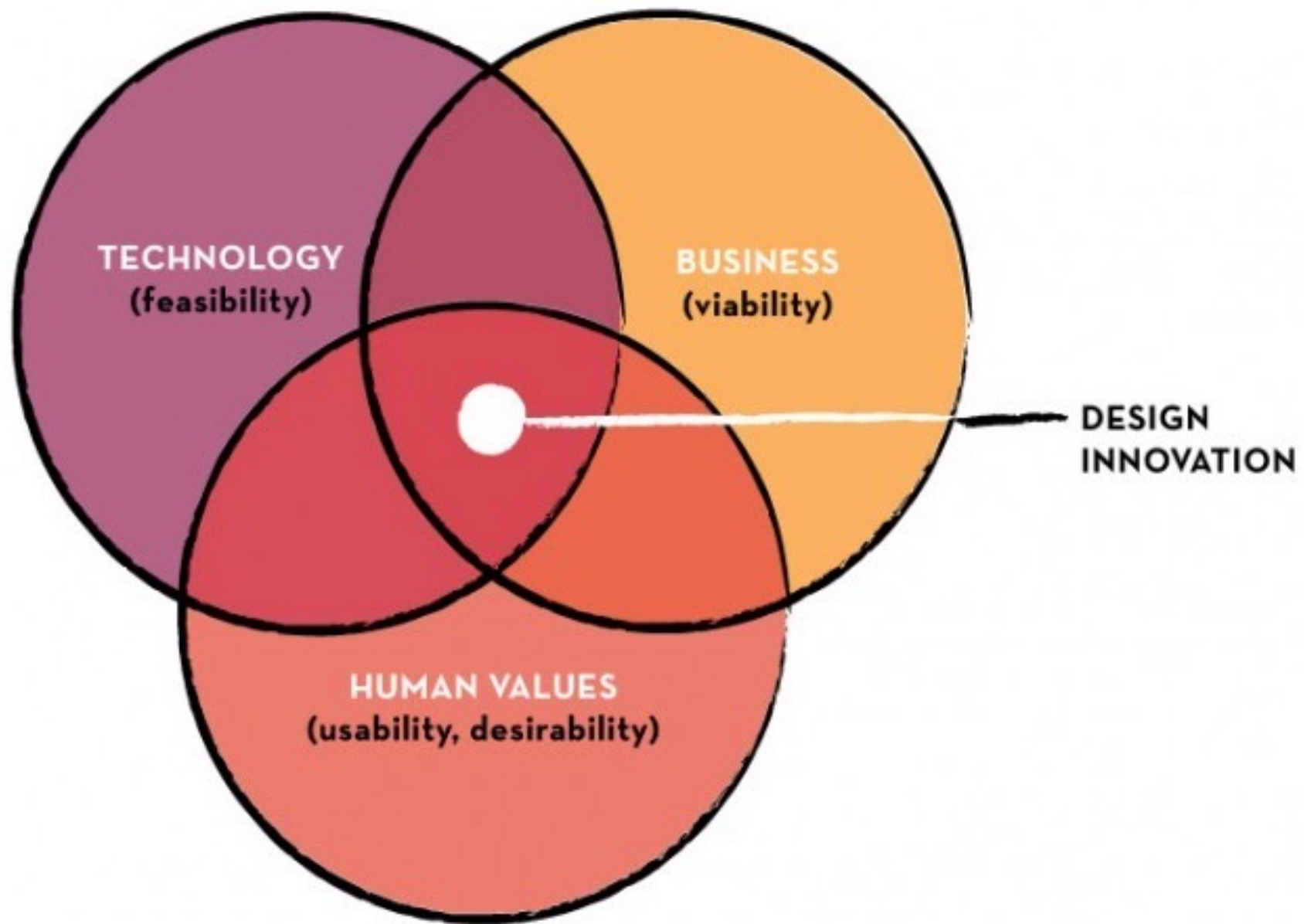


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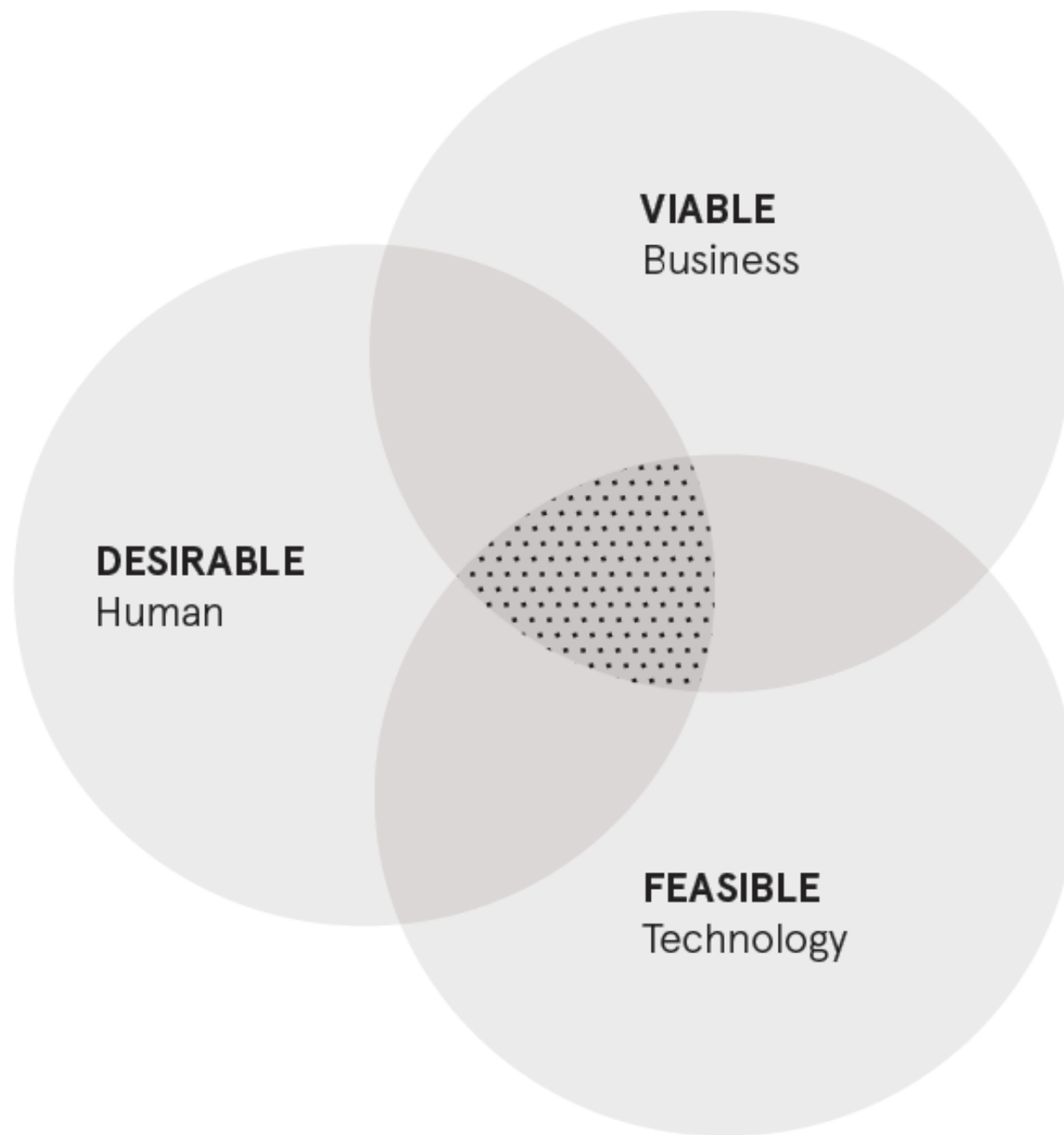


WHAT IS DESIGN THINKING?

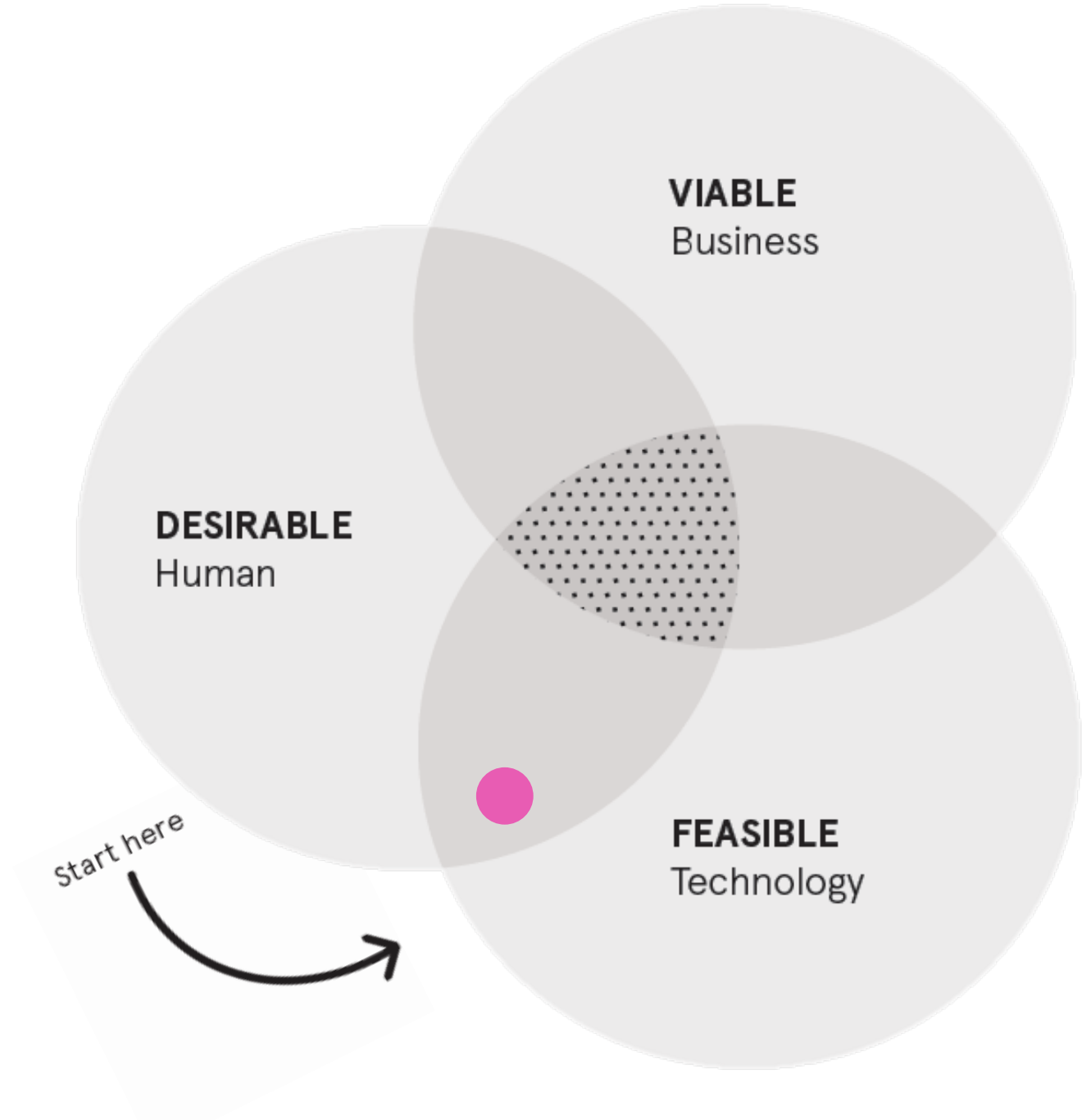


WHAT IS DESIGN THINKING?

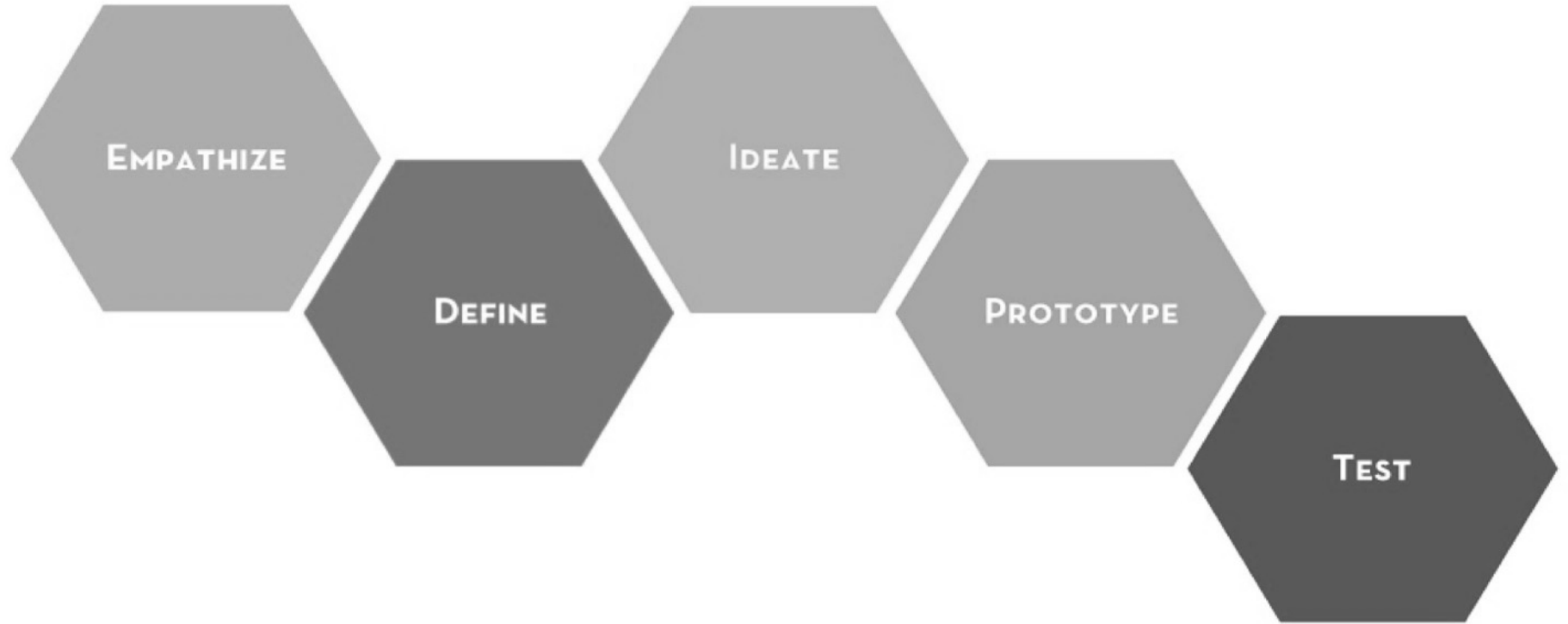
Start here

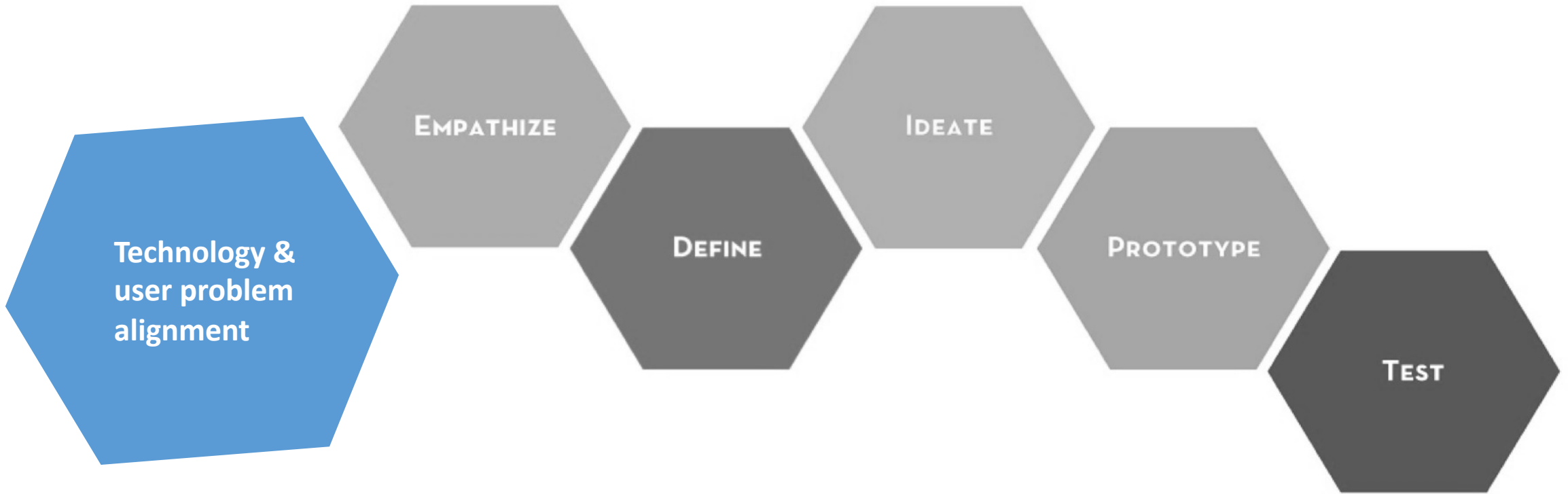


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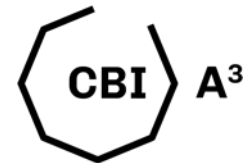
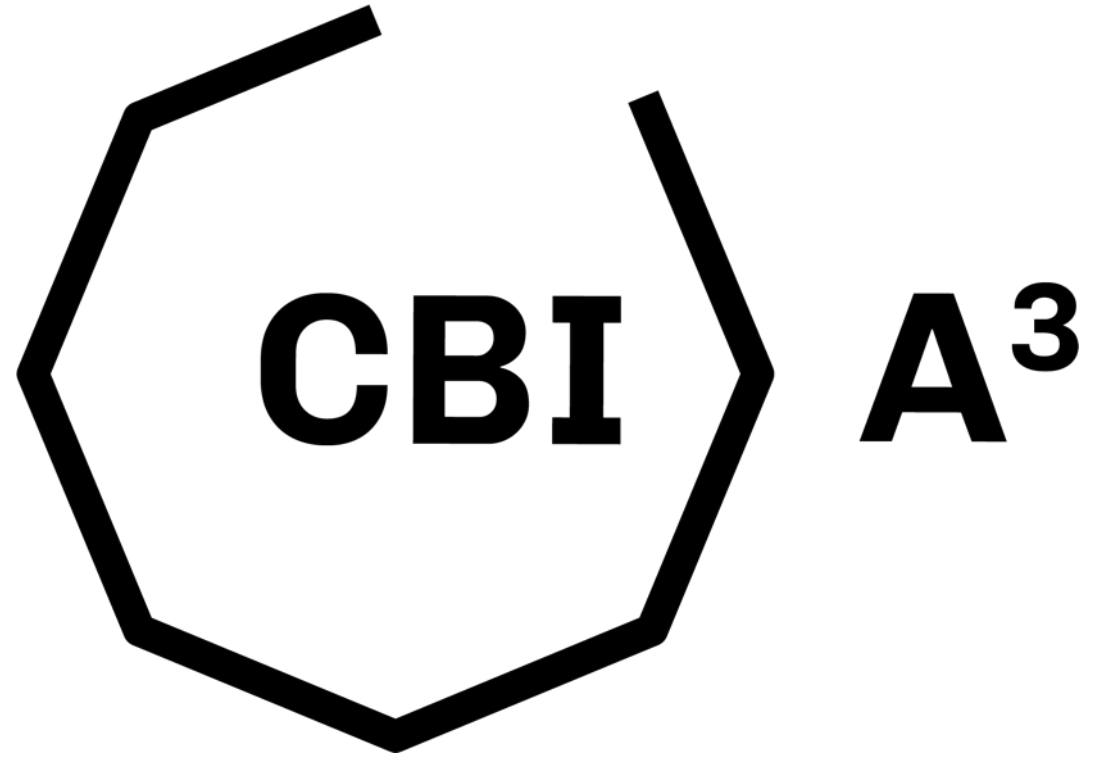


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Research on



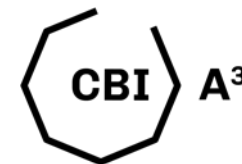
Purpose **No impact on assessment & your grades*

Create an evidence base to understand the value, learning and experience associated with CBI A3 :

Improve the program for future iterations

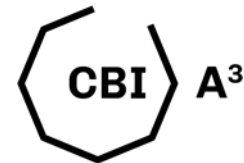
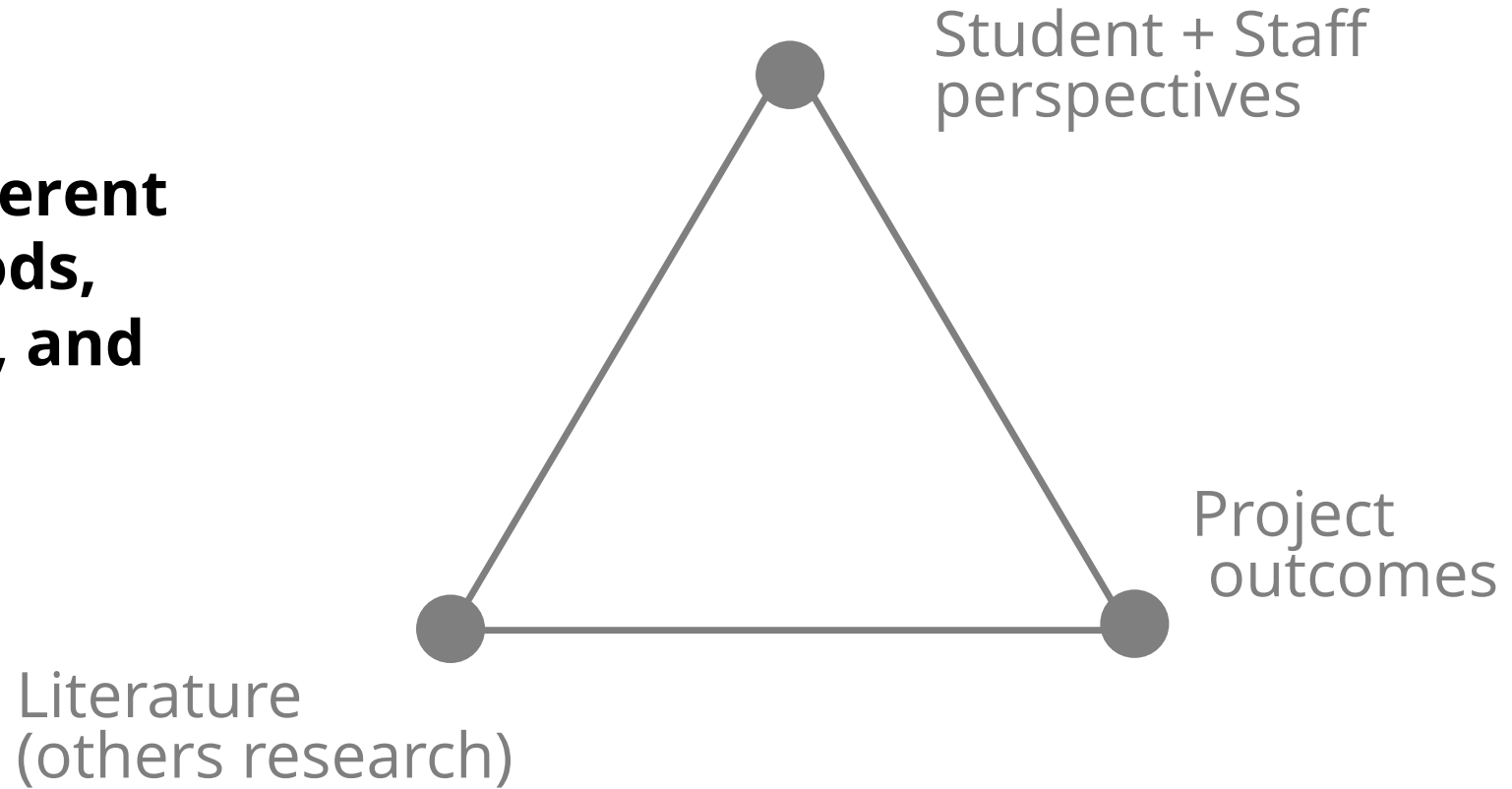
Obtain university support to run experimental programs

Focus on **innovation process, mindset & outcomes**

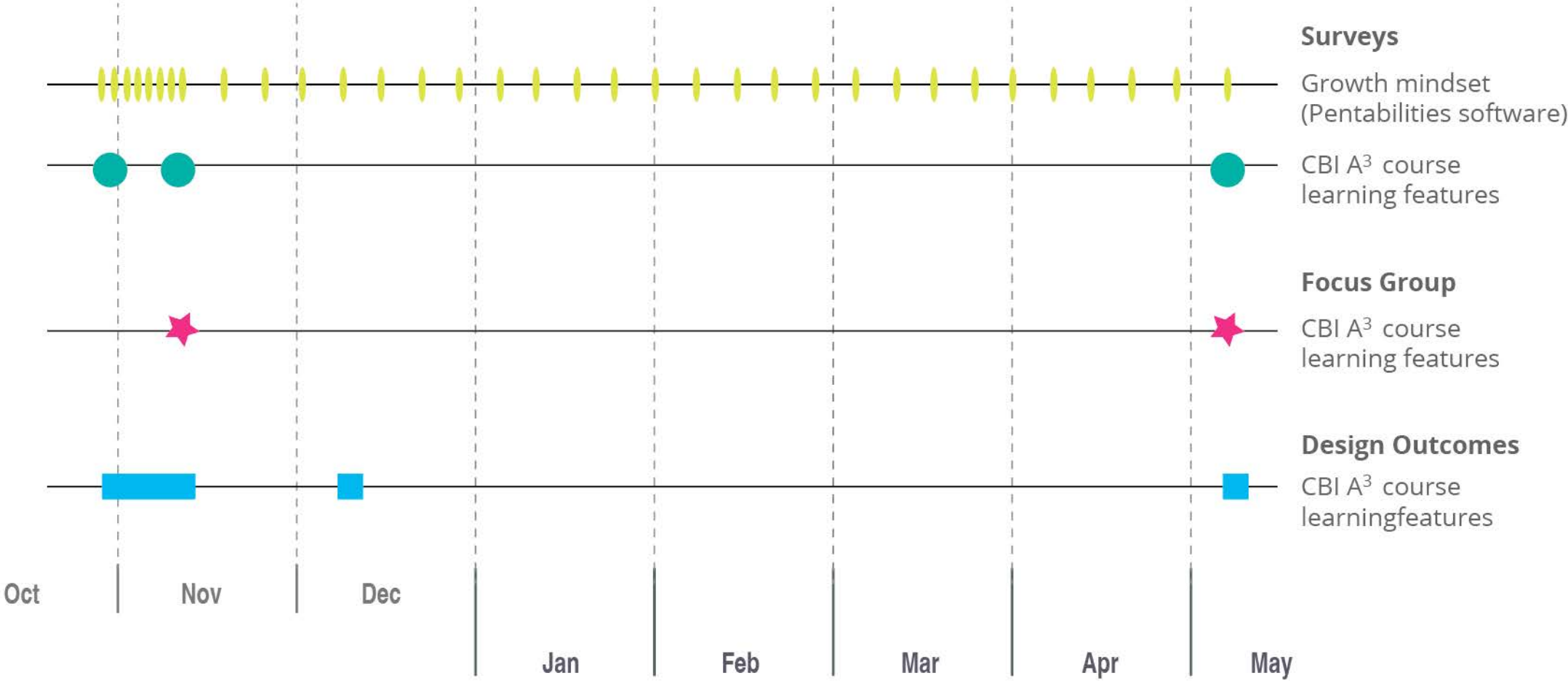


Process

Triangulate different research methods, sources of data, and perspectives



Research timeline



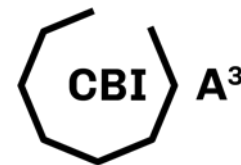
Ethics & consent **No impact on assessment & your grades*

Participation is voluntary

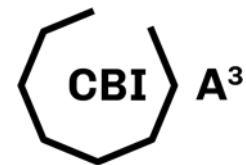
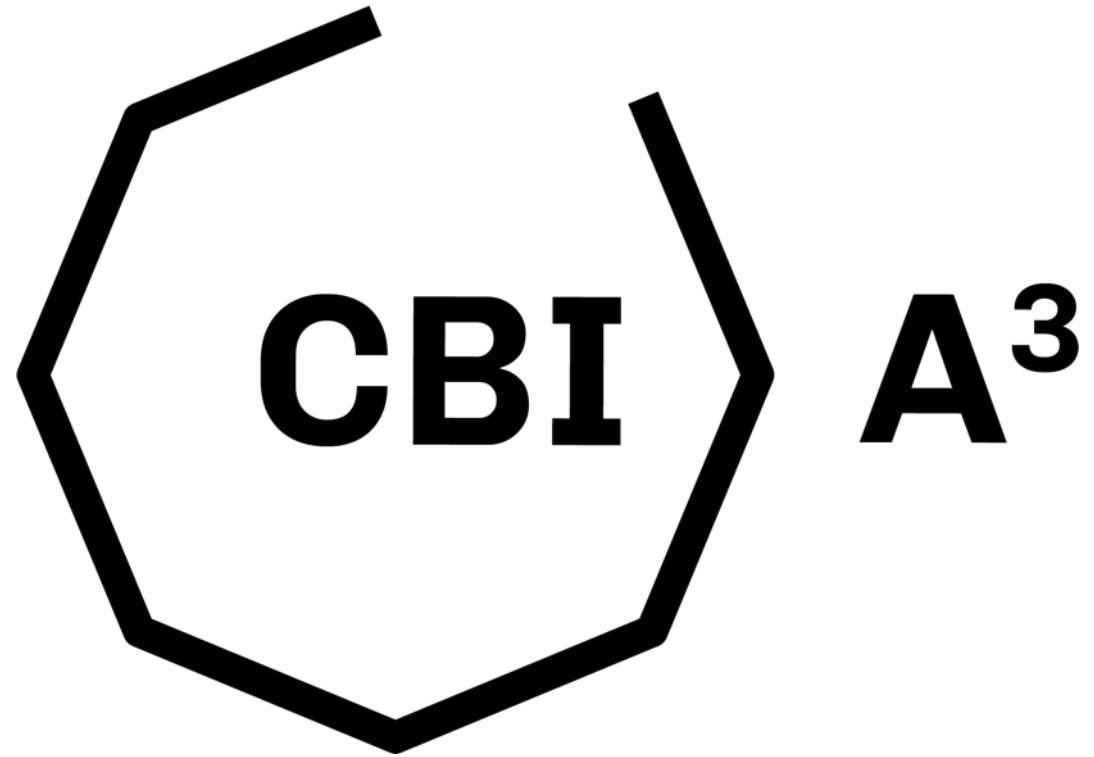
De-identified, name only taken for before & after comparison (analysis)

Ethics protocol granted at Swinburne to conduct research on programs via interviews, surveys and focus groups with students & project partners to:

- Improve programs
- Promote programs
- Academic publication



**Doing the
research!**



CBI A3 course learning features

Goal: Understand holistic learning + experience of the program, with before and after surveys.



URL:

<https://www.surveymonkey.com/r/6DH9YXN>

Duration: ~5 minutes

