Embedding design thinking in transdisciplinary learning

SOCIETY BASED EDUCATION
TEACHING AND LEARNING CENTER
SKILL - UP FESTIVAL, 13 NOV 2024

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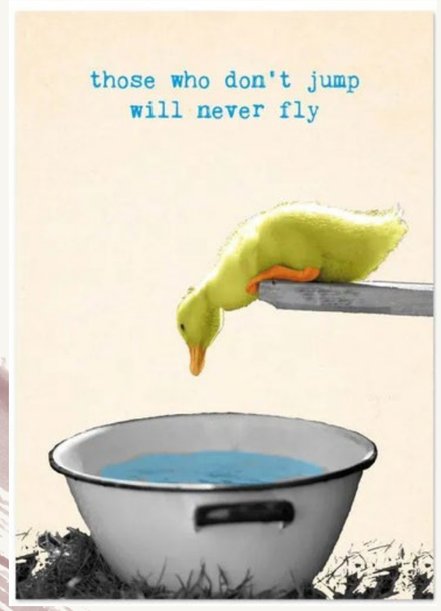
AGENDA

- Ice breaker
- Transdisciplinary Learning Trajectory (TLT)
- Design thinking 101
- Exercise
- Wrap-up

ICE BREAKER

MAKE YOUR OWN PASSPORT



PASSPORT

Photo:

Favorite quote / saying / life motto:

Those who don't jump will never fly

Experiences I bring to this session:

1. facilitating / presentation skills
2. knowledge about design thinking
3. Educational advisor

I excel at:

1. Providing educational advice
2. Being enthusiastic
3. finding something positive

I excel less at:

1. time management
2. Writing nice (:))
3. Order things

This is important to me:

That people feel safe enough to say / ask questions / try new things

This really makes me happy:

If you leave today with something new to try out.

PASSPORT

Photo:

Favorite quote / saying / life motto:

"I've never tried that before, so I think I should definitely be able to do that."

Experiences I bring to this session:

1. design thinking knowledge
2. collabs with diverse stakeholders
3. a few workshops under my belt

I excel at:

1. chatting
2. asking questions
3. cracking up jokes

I excel less at:

1. quick maths
2. inaction
3. lack of clarity

This is important to me:

community-engaged & participatory education + research!

This really makes me happy:

working with Ankie!

TRANSDISCIPLINARY LEARNING TRAJECTORY (TLT)

GOAL

To equip WUR teachers with the knowledge, skills, and attitudes to facilitate and **integrate transdisciplinary education** into their curriculum.

WHY?

ALIGNS WITH NEW VISION ON EDUCATION

TLC AS EXPERTISE CENTER FOR TRANSDISCPLINARY LEARNING

GIVING TEACHERS THE FISHING ROD!

PERSONAL DEVELOPMENT & RESPONSIBILITY SKILLS

FOR WHOM?

Course coordinators and teachers at WUR

Only requirement: bringing a **course as case study** where to implement your newly acquired knowledge and skills.

PROGRAM

A 2-year trajectory that includes...

- **Training** sessions
- Direct **integration** of real-life assignments in your course

... and starting 2 times a year.

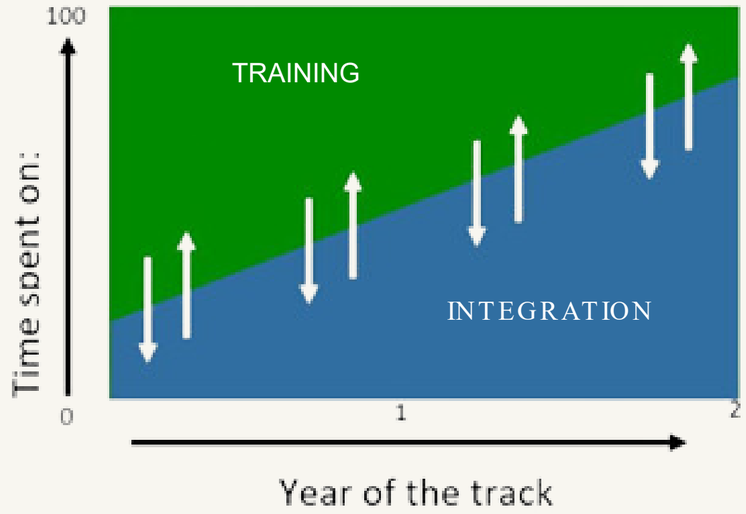


Image: modified from WUR's EngD Design for AgriFood and Ecological Systems

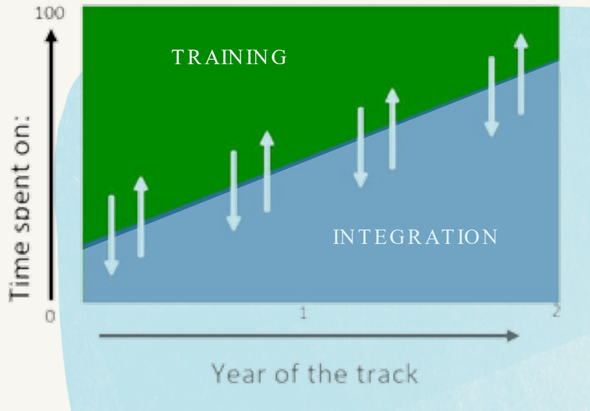
A BIT MORE IN DETAIL...

TRAINING

6 sessions, half-day

SESSION 1	SESSION 2	SESSION 3	SESSION 4	SESSION 5	SESSION 6
THE BASICS	LEARNING ACTIVITIES (SUCH AS DESIGN THINKING!)	STAKE-HOLDER INTERACTION AND INVOLVEMENT	SETTING & ASSESSING	GROUPWORK SUPERVISION	PITCHES & CELEBRATION

+ Intervision sessions
+ 1-on-1 sessions

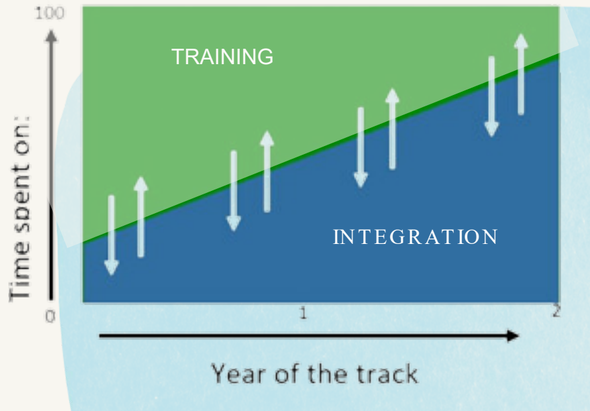


A BIT MORE IN DETAIL...

INTEGRATION

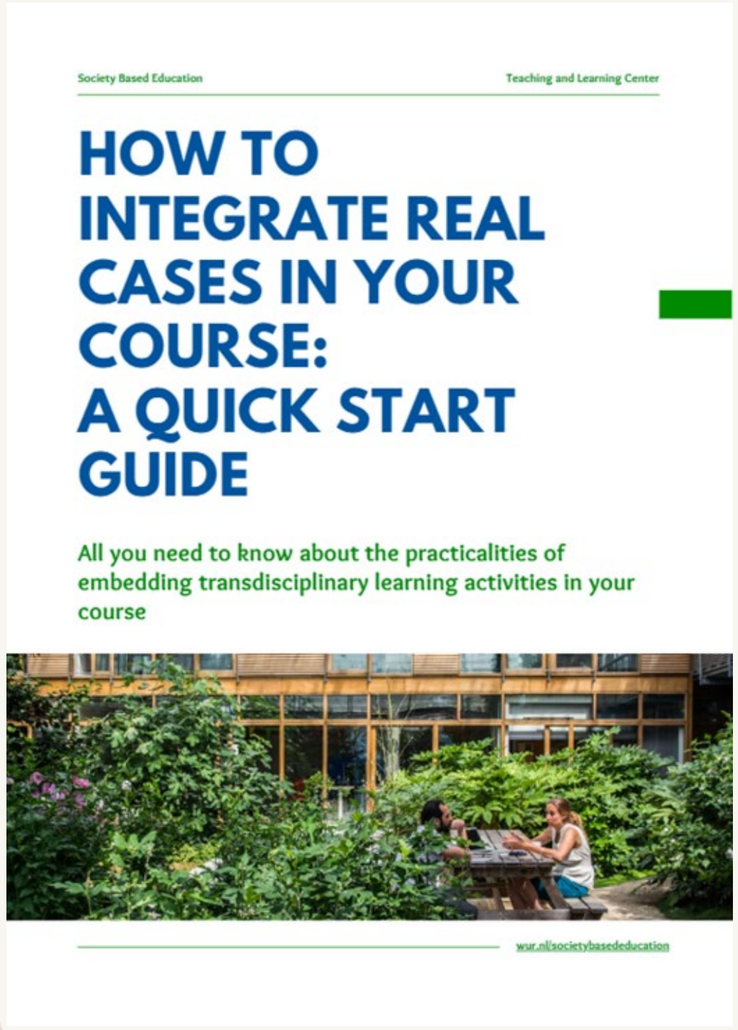
Guidance and support in finding, developing, and facilitating real-life assignments for their course.

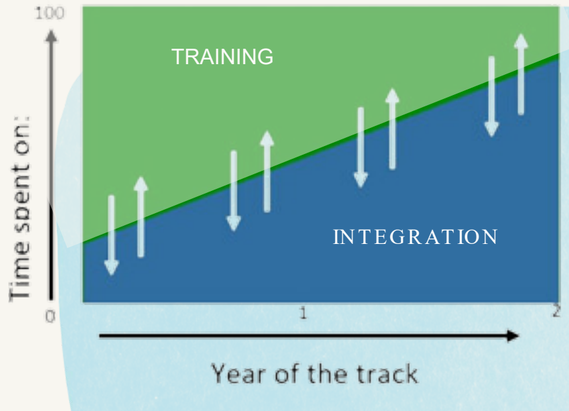
ROUND 1	ROUND 2	AFTER
FULL SUPPORT AND CO-LEADING THE PROCESS OF PROJECT ACQUISITION AND STAKEHOLDER MANAGEMENT	SUPPORT AND ADVICE, TEACHER LEADS THE PROCESS	NETWORK SHARING (RECIPROCAL) COMMUNITY OF PEERS



WHAT ACTUALLY IS INTEGRATION?

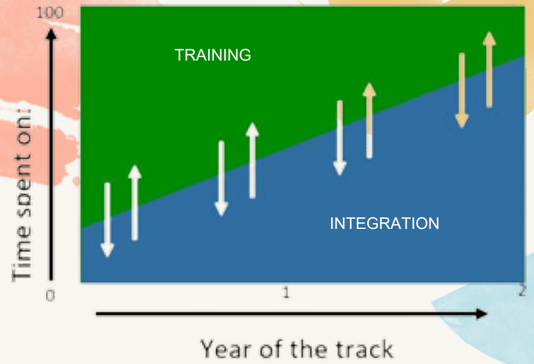
FIND OUT WITH OUR QUICK START GUIDE





EXAMPLE TRAJECTORY

E.G: upcoming round, course in period 1



1st year

Session 1 | Session 2 | Session 3 | Session 4 | Session 5 | Session 6

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Intake meeting TLC

Planning, organization, and execution of real-life assignments for your course, in close collab with TLC (100% support)

Course | Evaluation

2nd year

Intervision 1 | Intervision 2 | Final celebration

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Prep meeting TLC

Support and advice from TLC during planning, organization, and execution of TL assignments (50% support)

Course | Evaluation

WHAT NOW?

- Getting feedback and input from teachers and staff
- Setting up a flexible pilot: start in 2025

DO YOU WANT TO INTEGRATE TRANSDISCIPLINARY LEARNING IN YOUR COURSE?

SCAN THE QR-CODE!

OR SEND AN EMAIL TO SBE@WUR.NL

TRANSDISCIPLINARY LEARNING ACTIVITIES (SBE INTRANET)

DESIGN THINKING DOCUMENTS

DESIGN THINKING

10 1

"DESIGN THINKING IS THE SEARCH FOR A MAGICAL BALANCE BETWEEN BUSINESS AND ART; STRUCTURE AND CHAOS, INTUITION AND LOGIC, CONCEPT AND EXECUTION, PLAYFULNESS AND FORMALITY, CONTROL AND EMPOWERMENT"

– Idris Mootee

WHAT IS IT?

Design Thinking is a methodology (a set of tools & a way of working) that you can use within a course with trans- and/or interdisciplinary learning.

CORE PRINCIPLES

HUMAN-CENTRIC

LEARN BY TRYING

SHORT AND CYCLICAL

VISUAL

CONTEXTUAL

THE DESIGN THINKING PROCESS

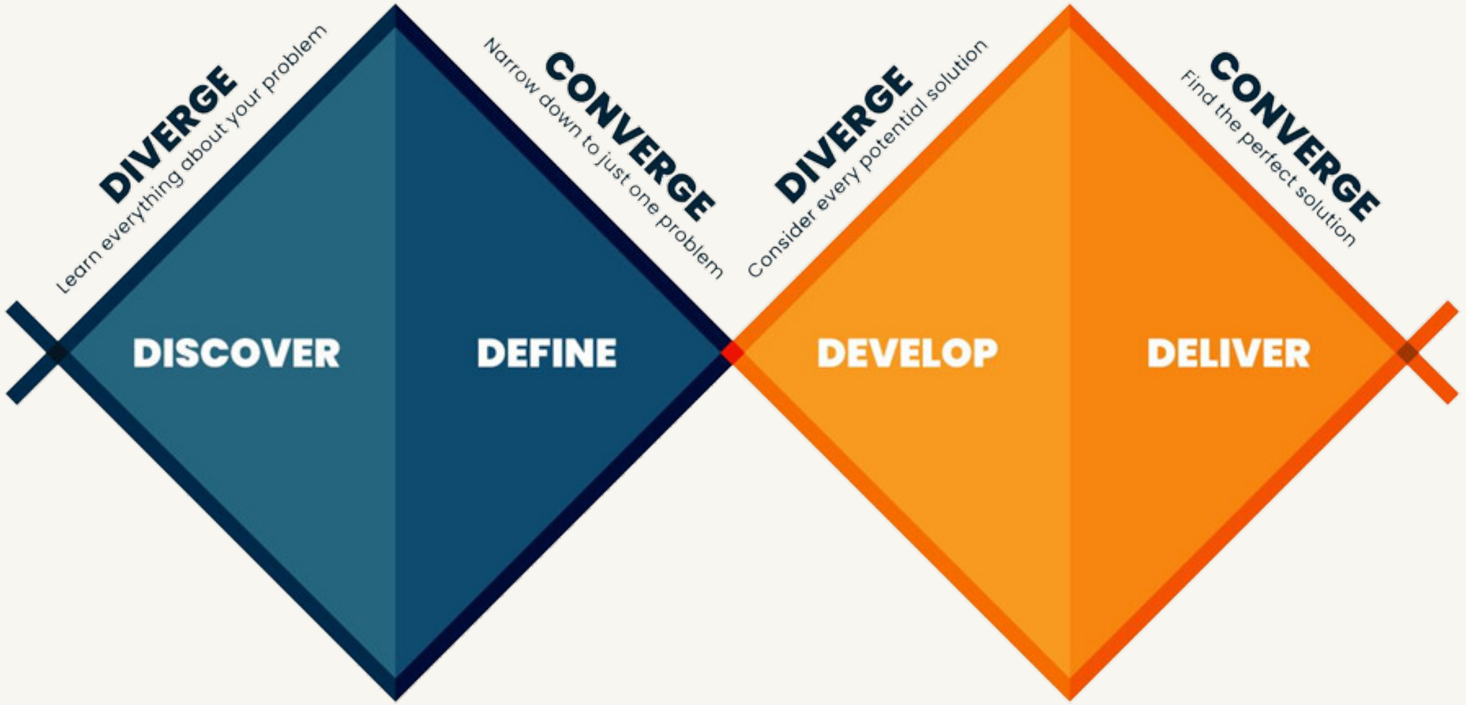


Image source: Aan de slag met design thinking

STAGES OF A PROJECT

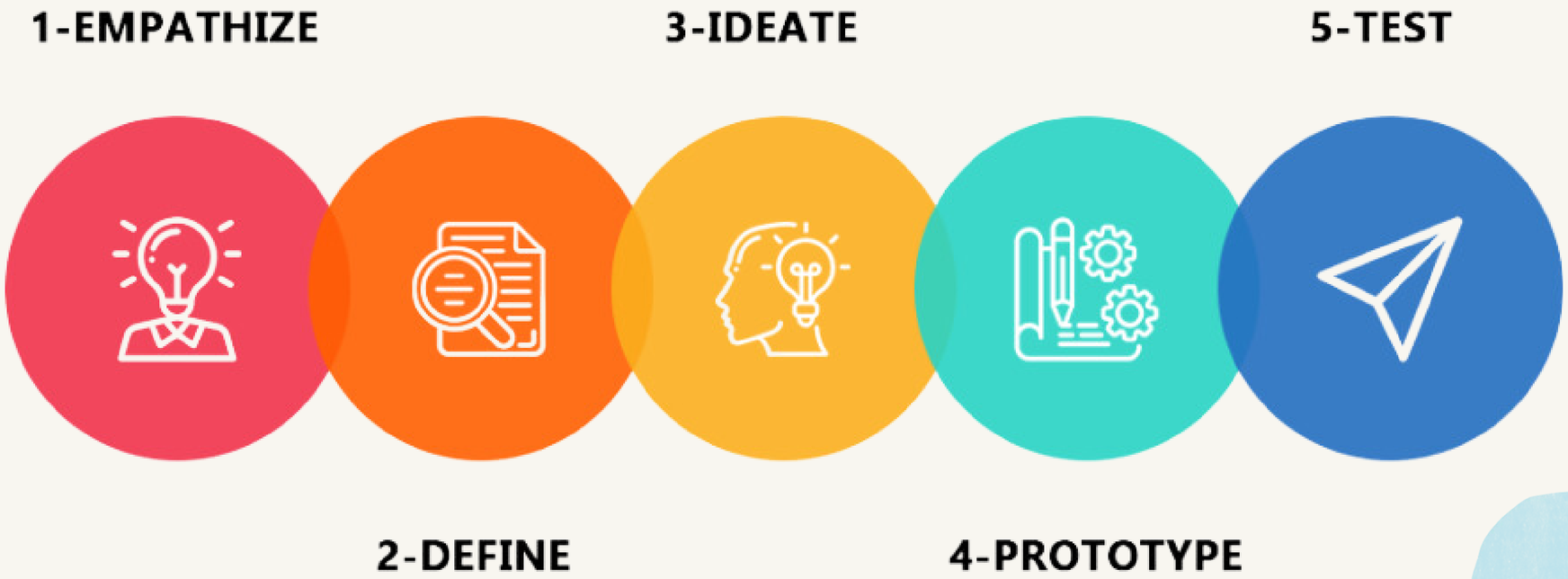


Image source: Vethavarshini S

DESIGN THINKING IN TRANSDISCIPLINARY EDUCATION

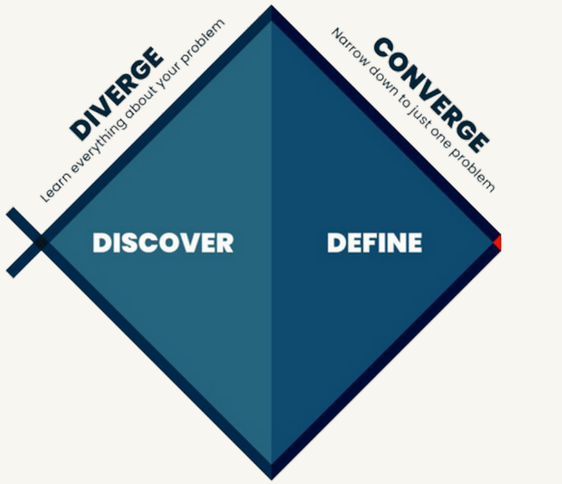
- d.school at Stanford University
- Hogeschool Zeeland (HZ)'s Innovation Studio: The Garage
- WUR: Master's Metropolitan Analysis, Design, and Engineering

LET'S GET TRANSDISCIPLINARY! (SORT OF)

THE EXERCISE

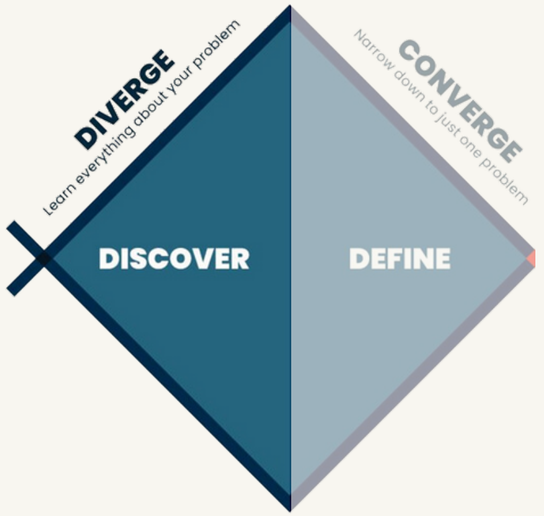
AN ISSUE OR CHALLENGE THAT CIVIL SOCIETY IS FACING

ROLEPLAY

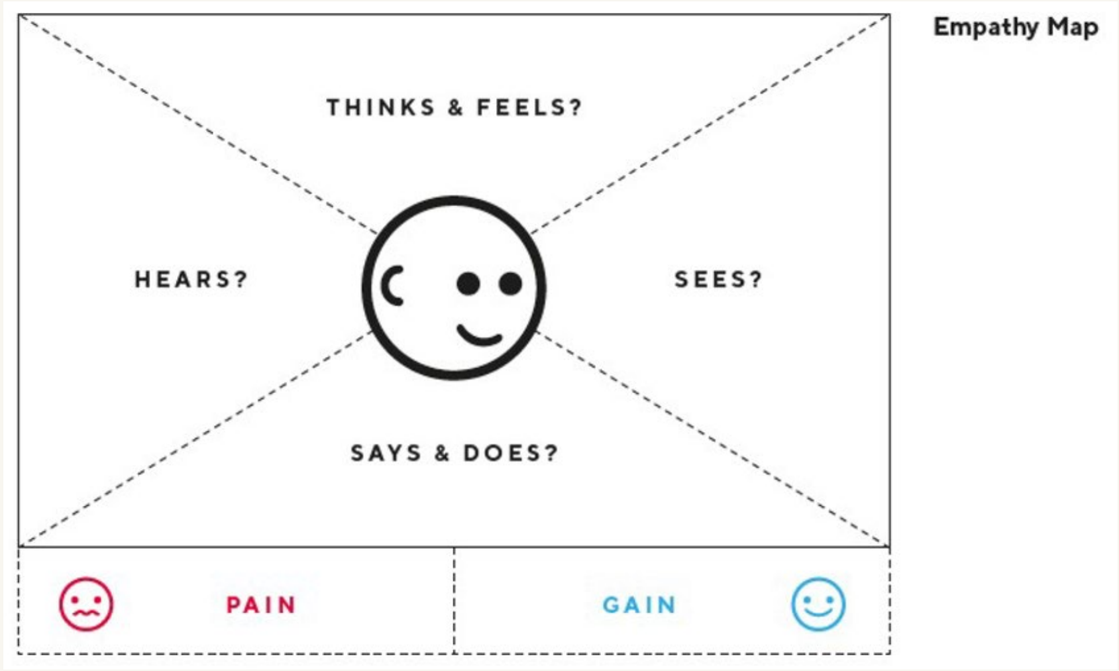


A PROBLEM STATEMENT

THE EXERCISE: EMPATHISE PHASE



- Method: Empathy Mapping
- Find some local challenges on your table
- Tip: use sticky notes!



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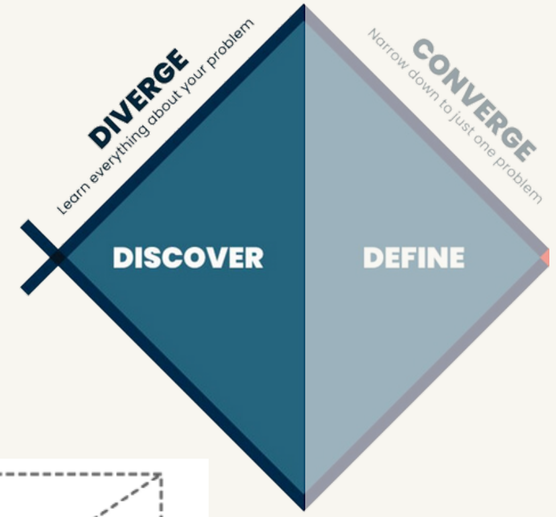

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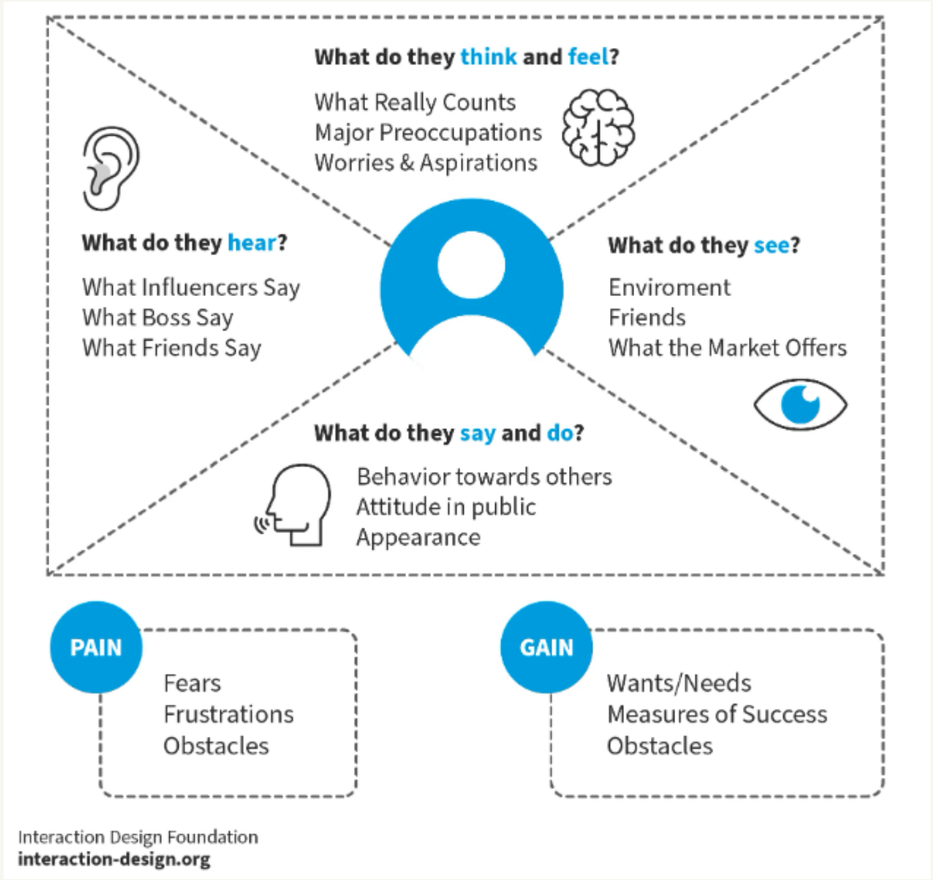
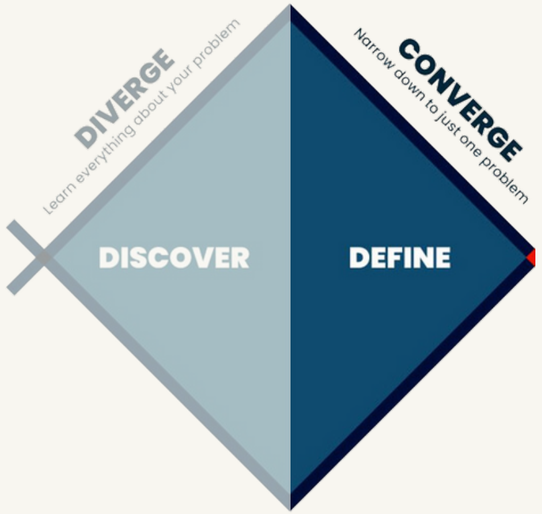
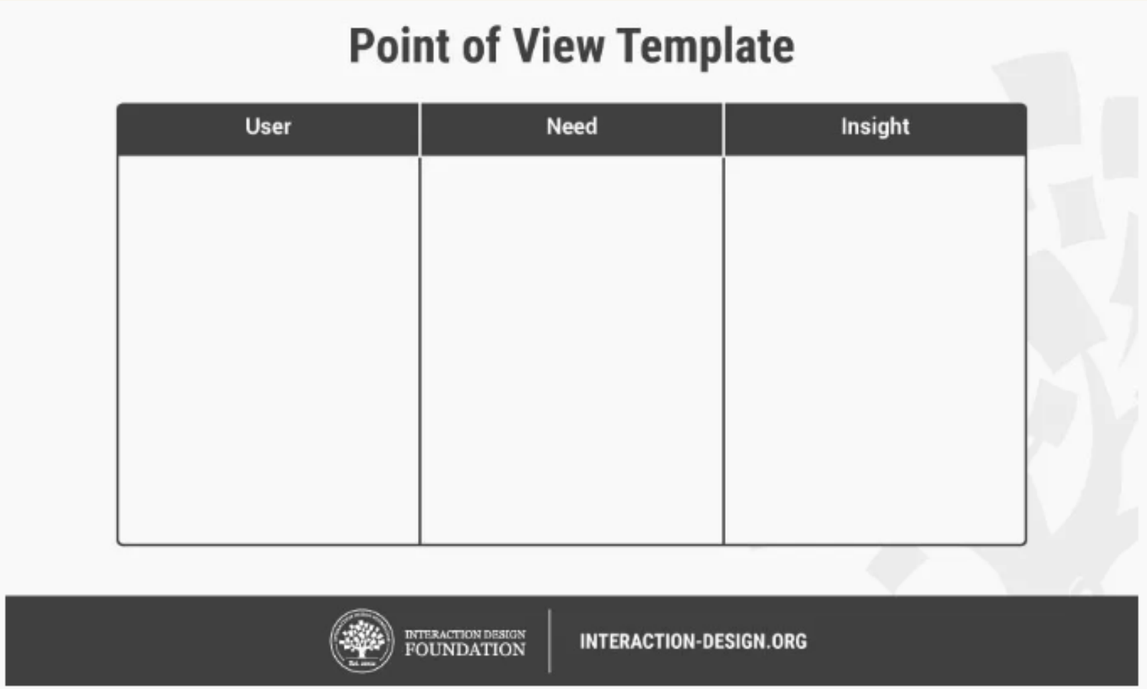


THE EXERCISE: DEFINE PHASE



- Sensemaking: from raw data to meaningful and actionable problem statement

- User + Needs + Insights = POV



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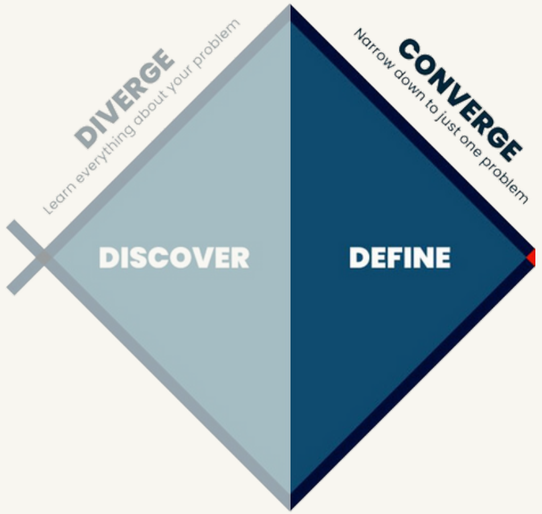

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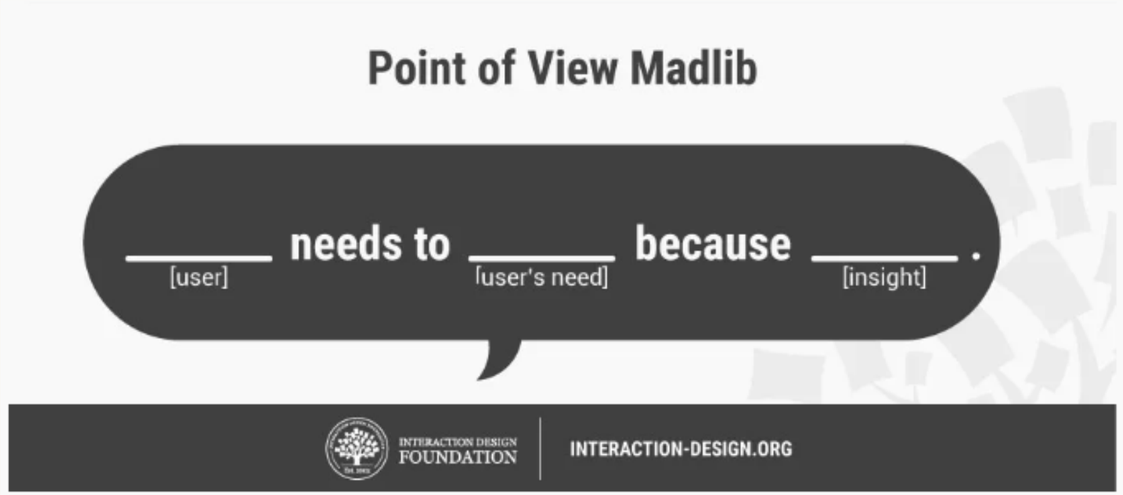

WRAP - UP

WHICH DYNAMICS ENSUED?

DID YOU CO-CREATE?

WHAT WOULD YOU DO NEXT?

HOW CAN YOU USE THIS IN YOUR CONTEXT?

THANK YOU

REACH OUT ANYTIME!

sbe@wur.nl

Intranet: Society Based Education

QUICK START GUIDE

TRANSDISCIPLINARY
LEARNING ACTIVITIES

DESIGN THINKING
MATERIALS

SHOW INTEREST IN TLT