



Lodz University of Technology

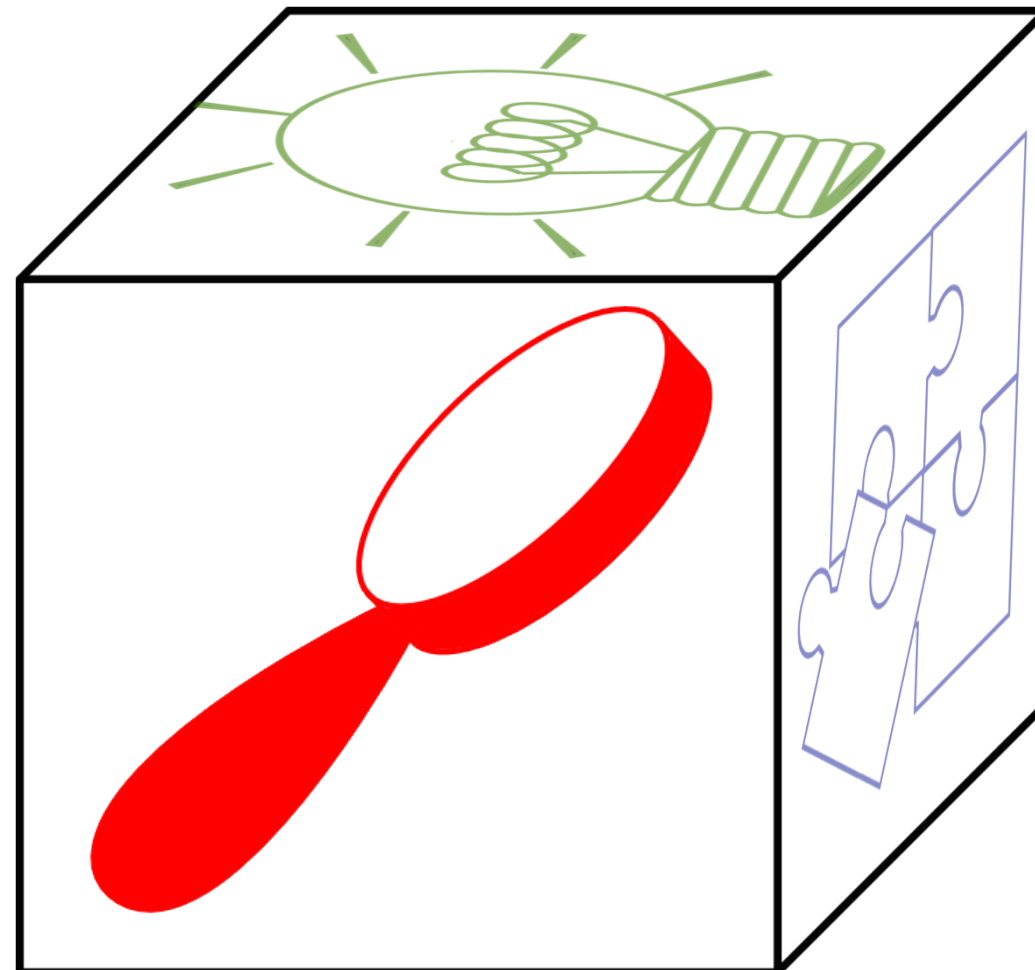


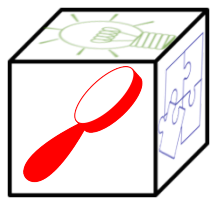
# DESIGN THINKING DICE “TUL”KIT

*« Roll the DICE and  
let your imagination and motivation  
do the rest »*

*Designers: Laurent Babout, Andrzej Romanowski*

# DISCOVER STEP





# 1. Understand the challenge

Brainstorm the challenge by going through different aspects of the discussion presented on the card.

**Team activity / Practiced during DT course – repeated for team project (if possible with mentor)**

Write title of the project

.....

.....

.....

.....

Take 5 minutes to read carefully the

→

description and extract key features from it

Key statements, constraints, barriers

Write your new title (if needed)

How might we .....

.....

.....

.....

The challenge review may have changed your view on the project.

↑

If you want to rewrite the challenge with HMW title, do it above

Additionally, the description should raise questioning, especially about what you would like to know more about...

Share your knowledge on the go... You may be familiar with the topic or similar one (e.g. reading,

↓

personal experience, beliefs). Capture all your assumptions.

We want to know more about...

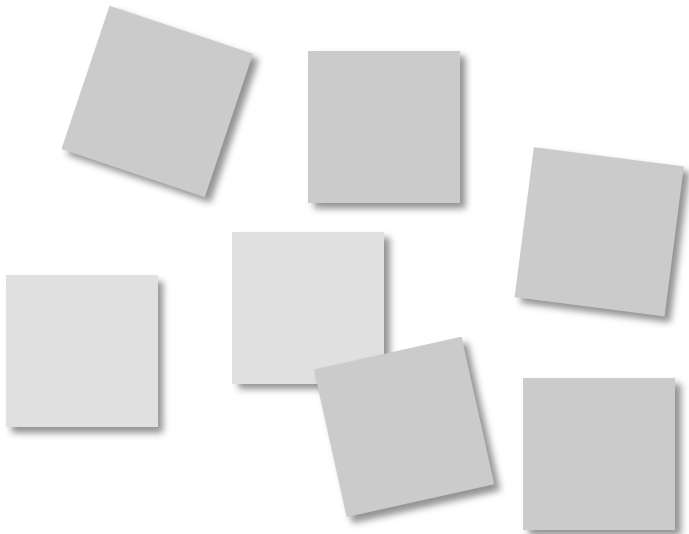
Our personal experience/background tell us that ...

## 2. Restructure your thoughts and search for documents

One aspect of gathering information to the topic is to go through critical reading. This sheet helps structuring your thoughts.

**Team activity-on its own/ Practiced during DT course – team on its own (but checked by mentor) / Use Post-its**

Select keywords for your future research

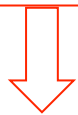
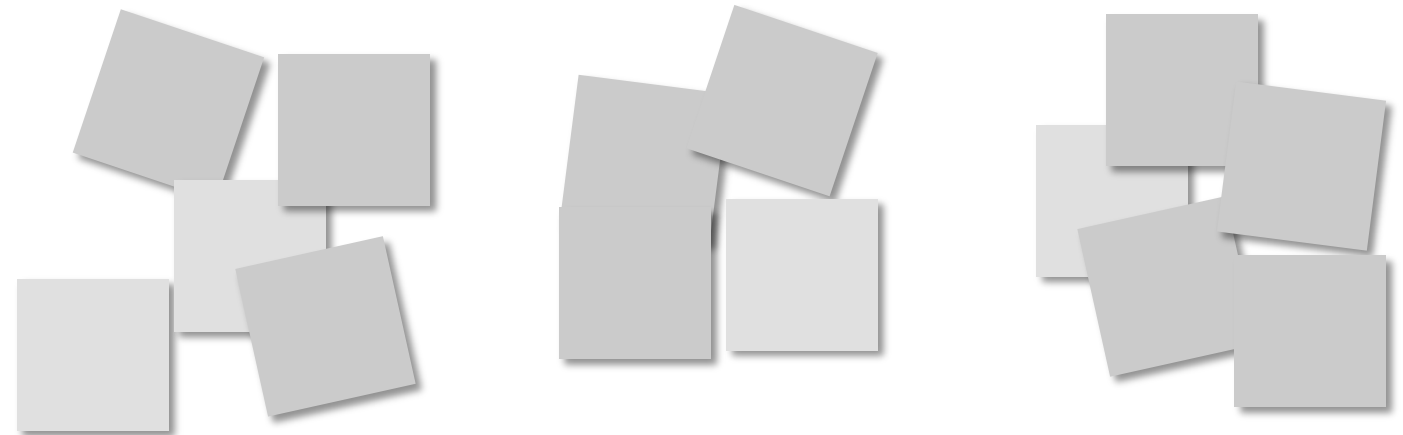


If list  
too exhaustive,

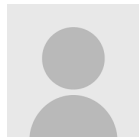
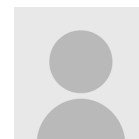
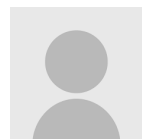
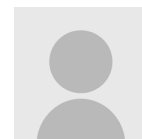
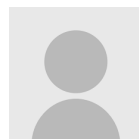
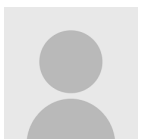


do grouping

Find similarities: separate keywords into labeled groups/categories



Split the search between team members: define who will search on what

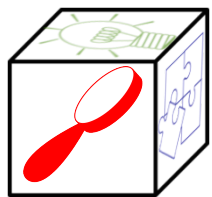


Hint:

*Look for documents in newspapers, books, but also from scientific libraries / patent database (e.g. Scopus, Web of Science, Google Scholar...)*

Set a common deadline to report your findings to your team and your mentor(s):

*Delivery in ..... days*



### 3. Prepare for empathy task – identify participants

30-45 min

*Problems always involve people and take place in special scenes. You will need to look for obvious users and also less obvious ones from the first glance. Also identify places of inspiration. Think wide.*

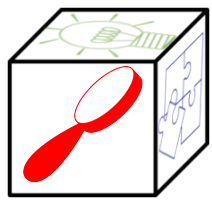
**Team activity / Practiced during DT course – repeated during meeting with mentor / Can use post-its**

Cross-mapping:  
rewrite list of  
keywords /topics  
from previous step  
and associate them  
to people  
(stakeholders) and  
places

**Category names of End users (EU), Experts (EXP), Extreme users EXT), Inspiring locations (IL) / Analogous settings (AS)**

|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Keywords</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |

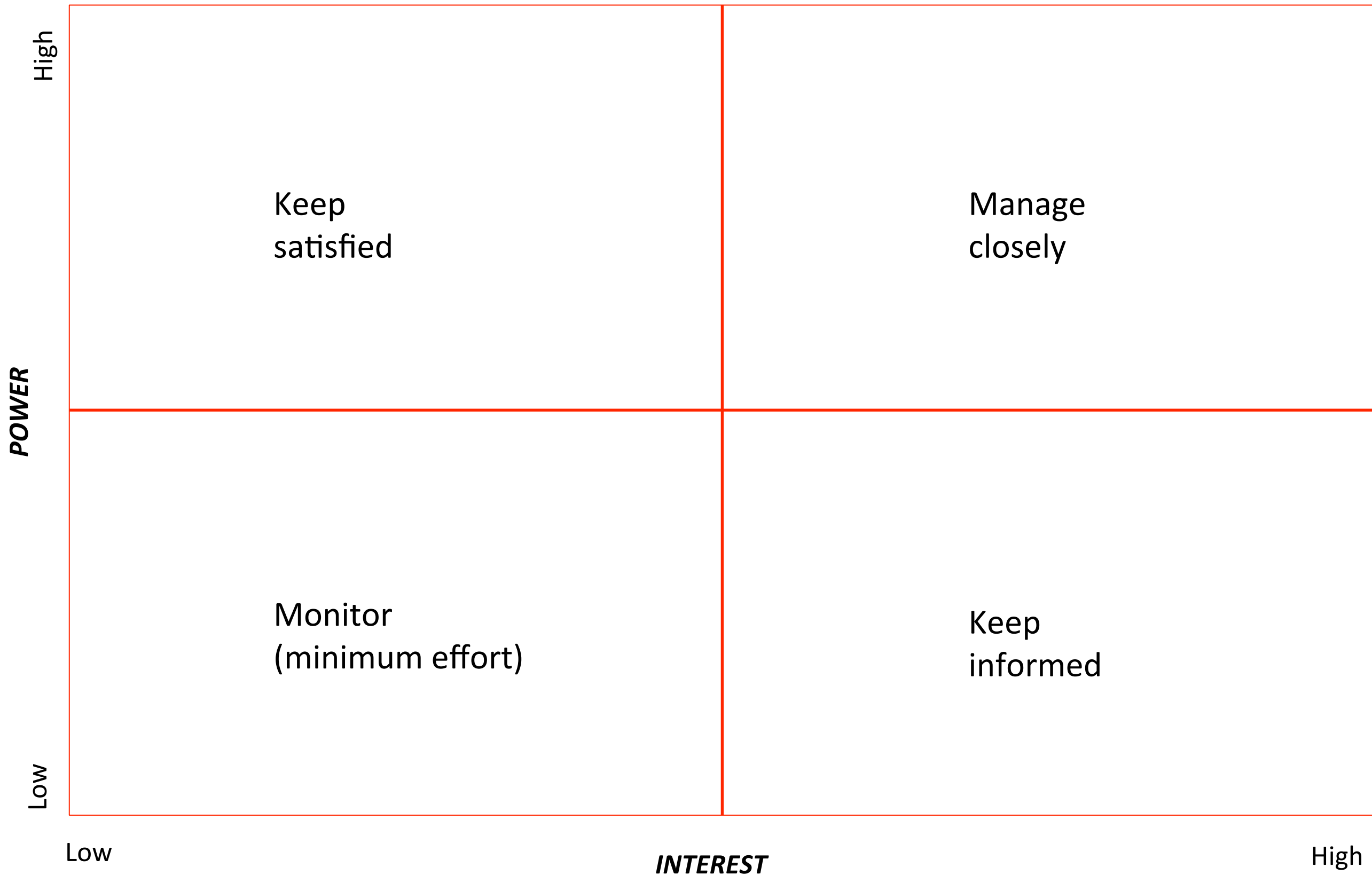
HINT: If you cannot get in touch with all participants or visit all places, prioritize the participants / places based on highest crossing ranking.



## 4. Stakeholder map

*Problems always involve people and take place in special scenes. You will need to look for obvious users and also less obvious ones from the first glance. Also identify places of inspiration. Think wide.*

***Team activity / Practiced during DT course – repeated during meeting with mentor / Can use post-its***



## 4. Prepare for empathy task – questioning scenario

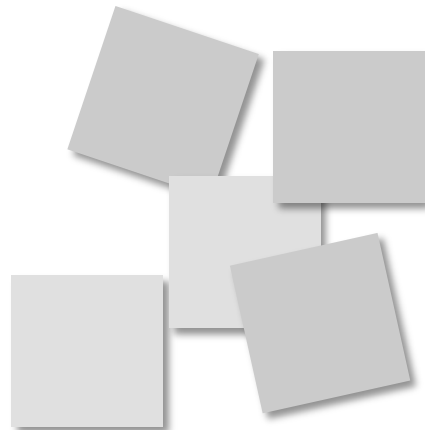
Once users or inspiring places have been selected, thoroughly imagine the meeting by setting your question guide so as to grab information about people's activity, feelings, or the actions you will carry out to gain inspiration in this place.

**Team activity / Practiced during DT course – team on its own / Photocopy card (if # interview >1)**

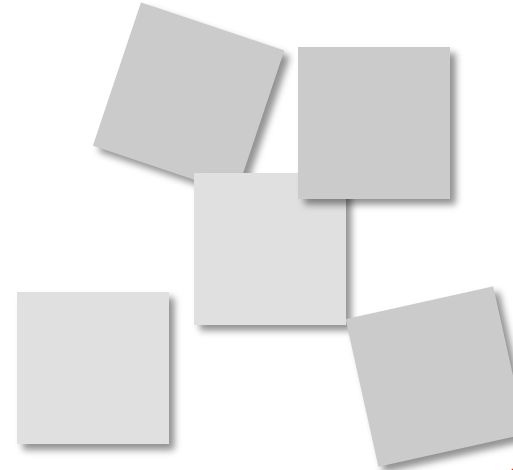
Questions: go from specific to broad. Look for open-ended questions, avoid yes/no questions

User details

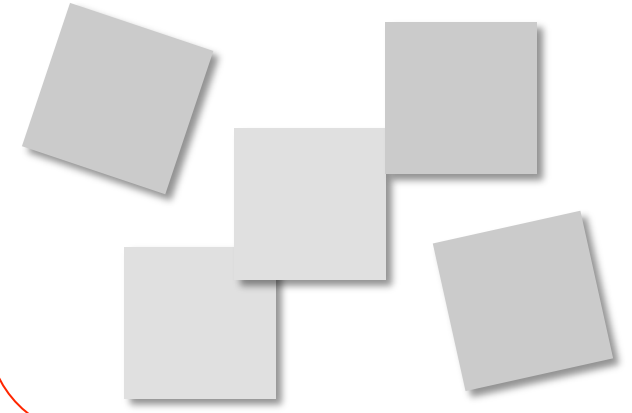
Start specific: begin with questions the participant is comfortable answering



Go broad: target feeling-related questions



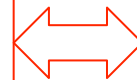
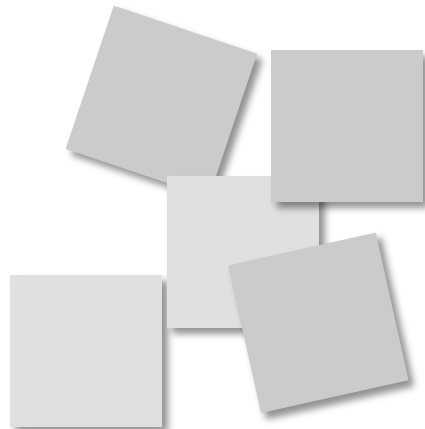
Probe deep: "what if..." questions to foster reflection or go deeper in a key subject revealed during conversation



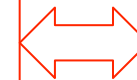
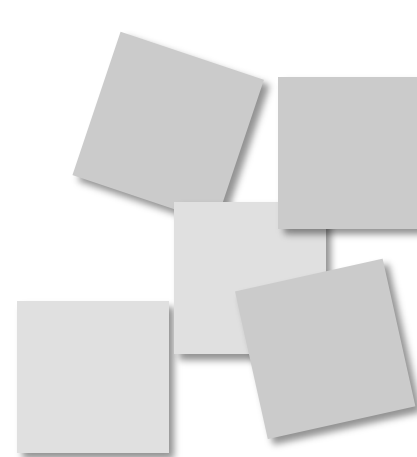
Attitude: during visit to inspiring location, try to plan the things to see and the things to do. Good knowledge of the scene is strongly recommended. Consider about a pre-visit to get familiar with the place before field-trip session. Also, do you plan to meet with users on site? If so, do they qualify to section above or do you consider a less formal/more intuitive meeting, questionnaire? Again questions need planning.

Details about inspiring place

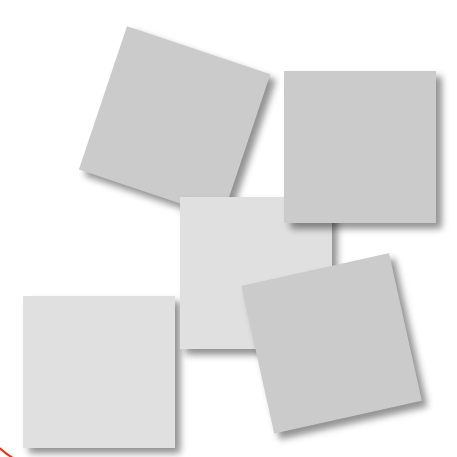
Things to see:

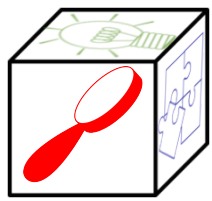


Things to do:



People to meet/interview:





## 5. Prepare for empathy task – pack your rucksack!

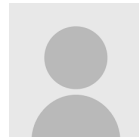
Continue to carefully plan your visits by setting roles/assign responsibilities and agree on things to bring to facilitate this research task.

**Team activity / Team on its own / Photocopy card (if # interview >1)**

Interviewee/place name:

address, date and time:

Split roles between team members: define who will do what during interview/visit (normally, no more than 3 team member needed)



Rucksack content:

- question guide
- project details
- notepad and pens
- post-it notes
- thank-you gifts (if necessary/applicable)
- Tools to take pics, shoot movies
- 
- 
- 

**IMPORTANT:** after each interview, meet and do a transcript of the interview so as to make sure that you will have captured your learning. This is the starting point of the second *DICE* step: **INTERPRET**