#### Methods

Methods are intended to guide collaborative work during four phases of a systemic design and/or foresight project

**Look** – Scan the environment and organization for information and experience

Adapt — Evaluate and reflect on action to learn and iterate



Frame – Build a shared map of challenges and actions



**Generate** — Create and enact prototypes to improve the situation

#### Systemic Design Methods

Systemic design methods are intended to guide collaborative work during four phases of a systemic design project

**Look** – Scan the environment and organization for information and experience

Adapt — Evaluate and reflect on action to learn and iterate



Frame — Build a shared map of challenges and actions



**Generate** – Create and enact prototypes to improve the situation

## **Rich Picture**



5. Tell the story





1. Sketch acturs and elements

Pressure Reports on

3. Show abstract ideas metaphorically

#### **Systems Map**









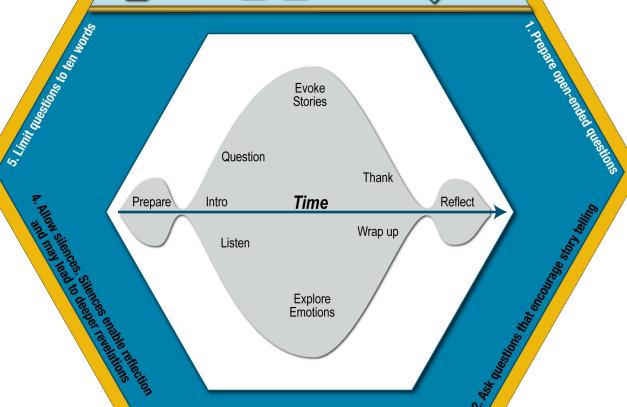
3. Important influences on the main system are shown outside the main system boundary

#### **Interview for Empathy**









3. Listen for suprises. What differences and inconsistencies are revealed?

#### **Reflection on Action Space**



5.48 facilitator cluster post-it







nost in

3. Explain the purpose of each category to the group

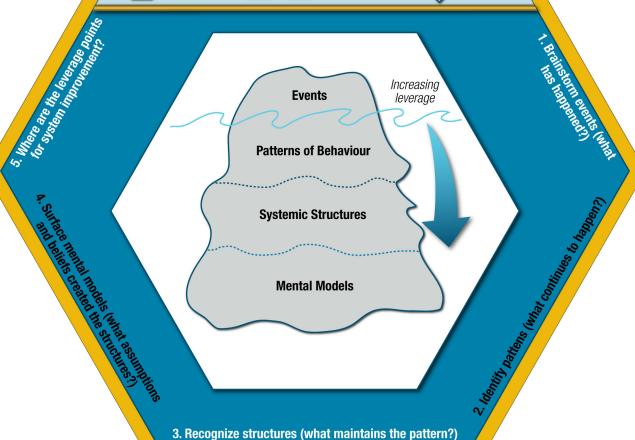
# **Iceberg Diagram**





5 - 9 People





## **Empathy Map**







S. Summarica a top 3 list for

A. Draw a Ly

Persona Name
Think? Feel?
Hear? See?

Hopes? Fears?

3. Fill in each box using a combination of evidence and imagination

1. Give your persona a name

reofines and flam

#### **Participatory Prototyping**





3 - 6 People



Make Tell **Enact** 3. Enact a scenario that brings your idea to life

### Causal Loop Diagram







symptomatic solution inverse proportional proportional problem side effect symptom proportional inverse delay fundamental solution

Hest variables and significant

ing influ

3. Mark time delays with parallel lines

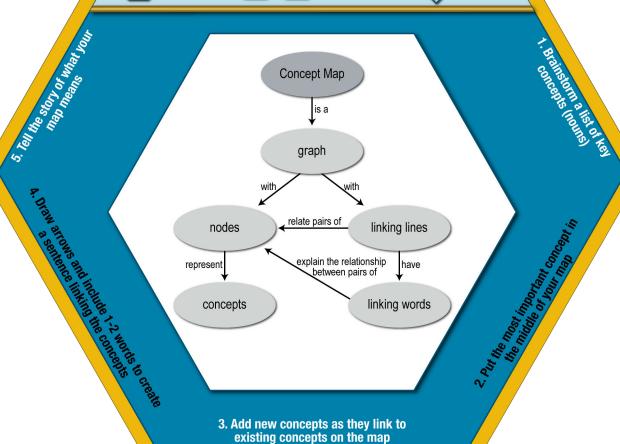
# Concept Map





- 5 People





# **Keep Asking Why**







or Causes sur until

Why 1?.....Symptom

Why 2?.....Symptom

Why 3?.....Symptom

Why 4?.....Symptom

Why 5?....Root Causes

1. Henriky an issue ye deep.

ndents depth sking mm.

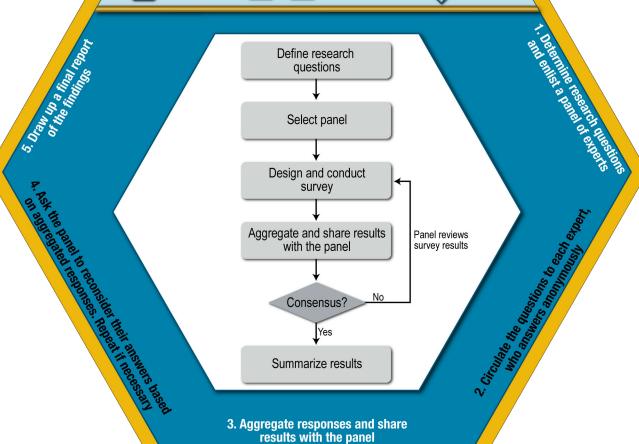
3. Consider the response. Ensure you understand what you are being told before asking 'why?' again

## Delphi









# **Six Thinking Hats**





- 30 People





Blue Hat thinking considers the process of thinking and the use of the other hats

White Hat thinking considers information requirements (facts and figures) without judgment



Yellow Hat thinking considers positive implications - what is good, useful, correct

> Green Hat thinking calls for creativity in ideas, concepts and approaches



Red Hat thinking considers emotions, feelings, and impressions, without judgment

Black Hat thinking considers negative implications - what is wrong, incorrect, in error



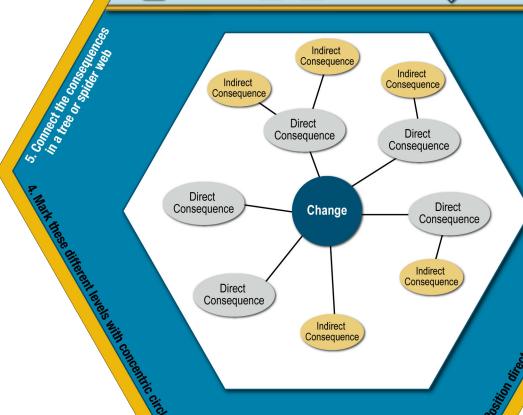
3. Capture the comments that are being raised on flip chart paper

#### **Future Wheel**









3. Brainstorm and position indirect consequences resulting from the direct consequences

Change and pro

utside of the ch

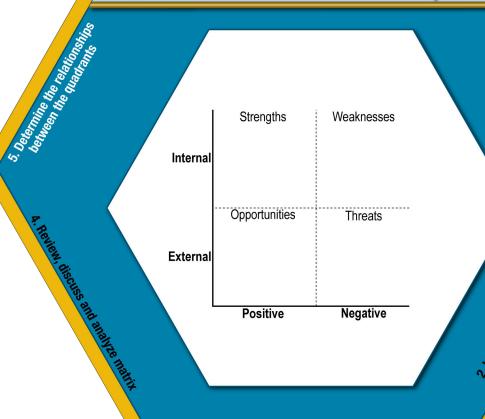
# **SWOT Analysis**







1. Define nom objective



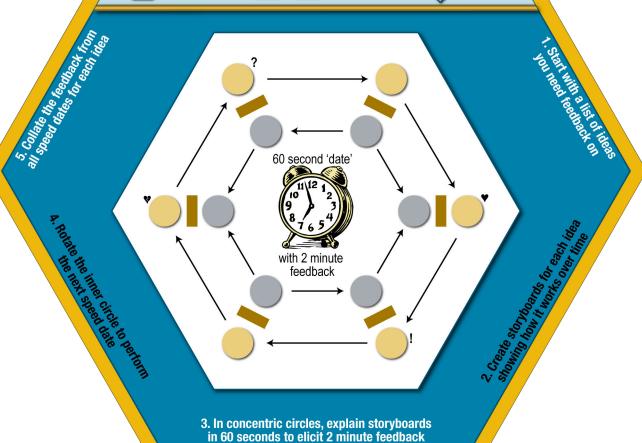
3. Organize into a 2x2 matrix

# **Speed Dating**







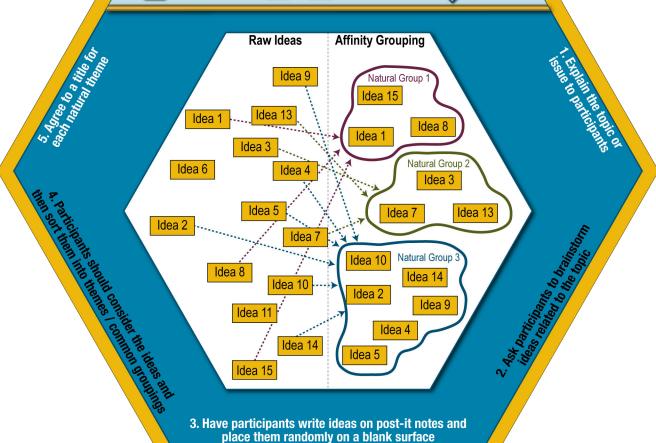


## **Affinity Diagram**









# **Card Sort** 30 Min 5 People Frame Simple Sort 1 Complex Sort 2 Sort 3 Verbose Deceptive Honest Visual 3. Ask them to speak out loud while they work to understand their thought process

## **World Cafe**

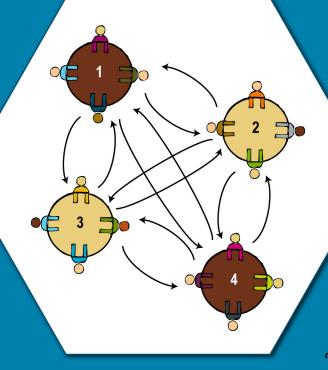






back on completions

A. Repeat steps 2 and 3 a



3. Ask participants to provide additional input / feedback on their new topic

1. Seat people at the

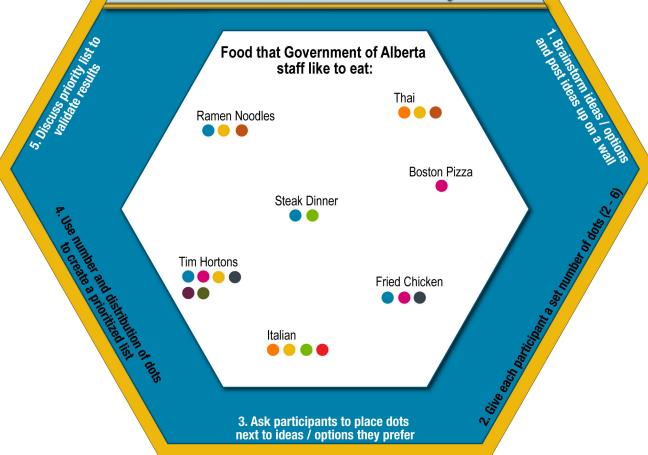
other stay at their tax

### **Dotmocracy**









#### **Ethnographic Research**









3. Conduct the interview in pairs (one interviewer and one recorder)

the thous of the interview list

ermission Seek

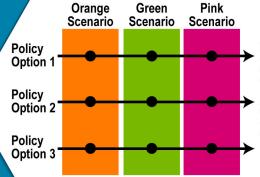
# **Wind Tunneling**







to be rounsights to adapt the options



Implications

- Success
- Failure
- · Contingent on scenario

#### **Actions Plans**

- Do Now
- Reject
- Monitor future events and Contingency Planning

he Dolicy or str

2. 10e

3. Each group tests a policy option in their scenario

## **Back-Casting**



Present





Vision of what we want

Wind to the Local Laboratory to achieve this vision?

Future

Future

Tards from the happen to

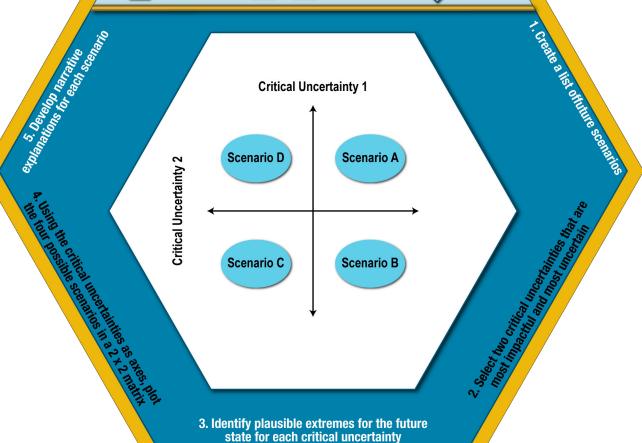
3. Define future visions using either scenarios or principles

## **Scenario Matrix**







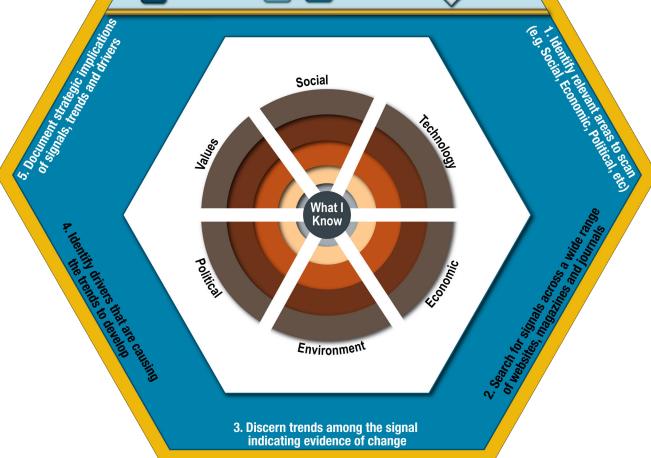


# **Horizon Scanning**







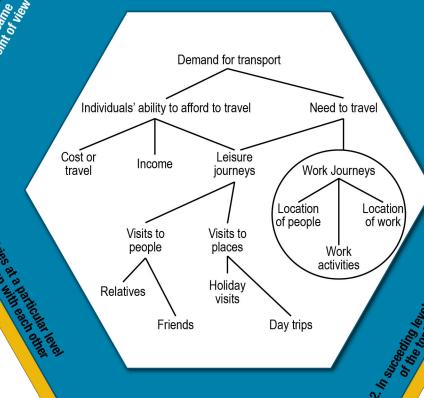


#### **Relevance Tree**









3. At each level, show how entries are connected to an item in the preceding level.

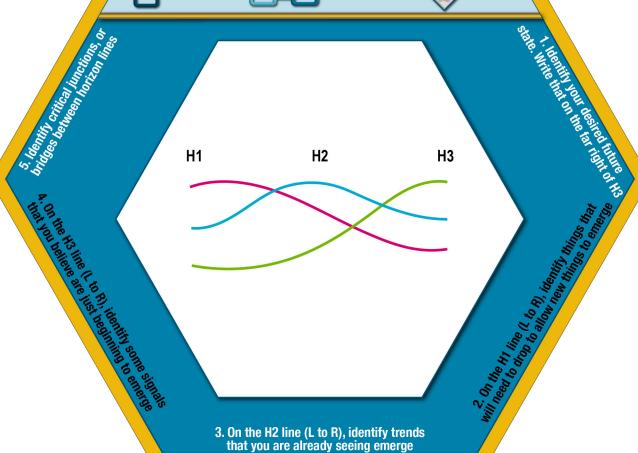
Thentity a high sis

## **Horizons**







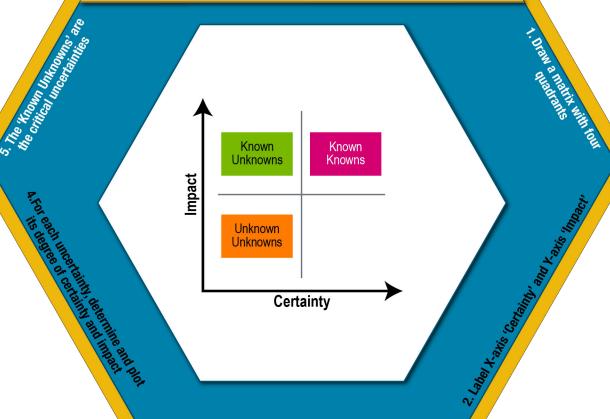


# **Critical Uncertainties**









3. Label the quadrants as shown in diagram

# **Cross-Impact Analysis**







identy sets over sensitivy and

**Initial Probability** E1 E4 **Event** E2 **E3** E1 X 0 2 E2 X 3 0 **E3** 3 X 2 0 E4 X

3. In the second column, rank the initial probability these events will occur in the future

1. Draw & Chart with Com

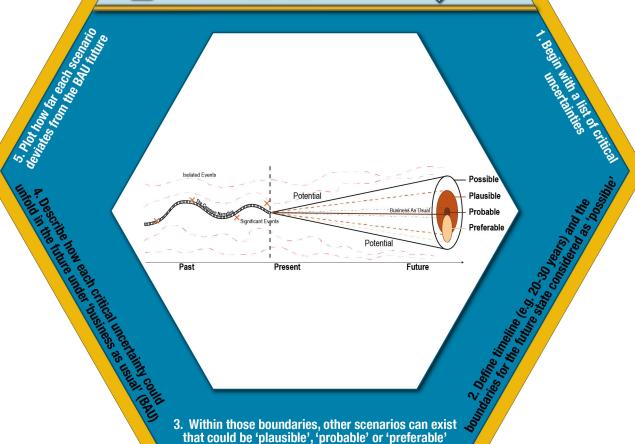
or Low, Meding Dose

# **Cone of Plausibility**









## **Heat Map**

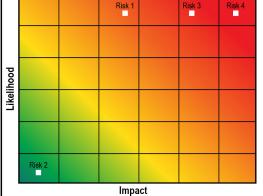






5.48888 where the main risks are

Strategic Risks Risk 1



3. Rate each risk's likelihood of occurence and impact of occurence. Multiply the likehood by the impact

### **Influence Diagram**







Increase of top Increase in actors playing eco-friendly zombies in burial practices movies Increase in Increased popularity of consumption of Increase in mad zombies in raw meat and cow disease BRAAIINS!!!! popular culture Increase in hipster brain cuisine

3. Add elements to your workspace, each time asking how it influences and is influenced by others.

#### **Trend Radar**





1 - 3 People



