Picking 'Wholes'

Thinking in Systems Workshop

for The Center for Internet and Society (CIS)

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Dealing with complex, messy, real world problems requires an entirely different skill set and capabilities as the problem perceived may not be the problem to solve. This workshop is an experiential learning opportunity to gain such abilities through finding sensitive solutions that will transform the situation. The pedagogy involves experiential and collaborative learning through short assignments / lectures / discussions / doing and making activities. Groups will explore selected problems to find worthwhile solutions.



The workshop will take up a real world problem and provide an experiential journey through the *Systems* landscape, highlighting the relevant concepts along the way. Topics covered will include.

>>>Day 1

- → Why Wholes
 - Synergy / Emergence
- → Relationships
 - ◆ Emergence / Stocks, Flows & Feedback Loops
 - Mapping
- → Anticipation
 - Consequences / What if
- → Insights
 - ◆ Opportunities
 - Finding Purpose
 - Finding the real problem / issues. Larger Purpose, littler purpose/s
 - Finding Direction
 - Finding Leverage

- → Decision
 - ◆ Assessments / Judgements
 - ◆ Desirable / Feasible / Viable

→ Imagining Solutions

• Possibles / Opportunities / Visualise / Sketch / Concepts / Hypotheses

→ Validation

- ◆ Prototype
- ♦ Make / Do /Test
- → Create / Act

Venue requirements

- Flexible furniture chairs and tables may need to be rearranged in different ways for different activities.
- Softboards to pin up charts etc.
- White board with color markers.
- Projection facility.

Materials

A basic list which will allow presentations as well as quick model making when necessary will include:

- **PVC pipe (approx. 15mm X 4m) 1 pc**. (Please get this, we will need it for a session).
- Chart papers 10 sheets
- A4 size paper 100 sheets
- Colored markers 3 set
- Post-its 3 set of different colors
- Stapler 2
- Punch 2
- Scissors 2
- Paper cutters 2
- Cardboard / corrugated board 0.5m X 0.5m, 3 sheets
- Ice cream sticks 1 box
- Rubber bands 1 box
- Plasticine (clay) 3 blocks
- Cloth 1.5 m
- Metal wire 2 m

- Cello tape 2 nos (10mm + 25mm)
- Fevicol 2 tubes

Reading list and references

SYSTEMS

Donella H Meadows – Thinking in Systems Publisher: Chelsea Green Publishing Co.

http://www.oss.net/dynamaster/file_archive/040324/48c97c243f534eee32d379e69b0 39289/WER-INFO-73.pdf

http://donellameadows.org/archives/dancing-with-systems/

http://donellameadows.org/archives/leverage-points-places-to-intervene-in-a-system/

Helsinki Design Lab – Recipes for Systemic Change

Download from

http://www.helsinkidesignlab.org/peoplepods/themes/hdl/downloads/In_Studio-Recipes_for_Systemic_Change.pdf

MAPPING

https://www.systemsorienteddesign.net/index.php/giga-mapping/100-giga-mapping

http://www.systemsorienteddesign.net/index.php/giga-mapping

http://www.dubberly.com/concept-maps/creating-concept-maps.html

https://ncase.me/loopy/

https://medium.com/disruptive-design/tools-for-systems-thinkers-systems-mapping-2db5cf30ab3a