

Human-Computer Interaction

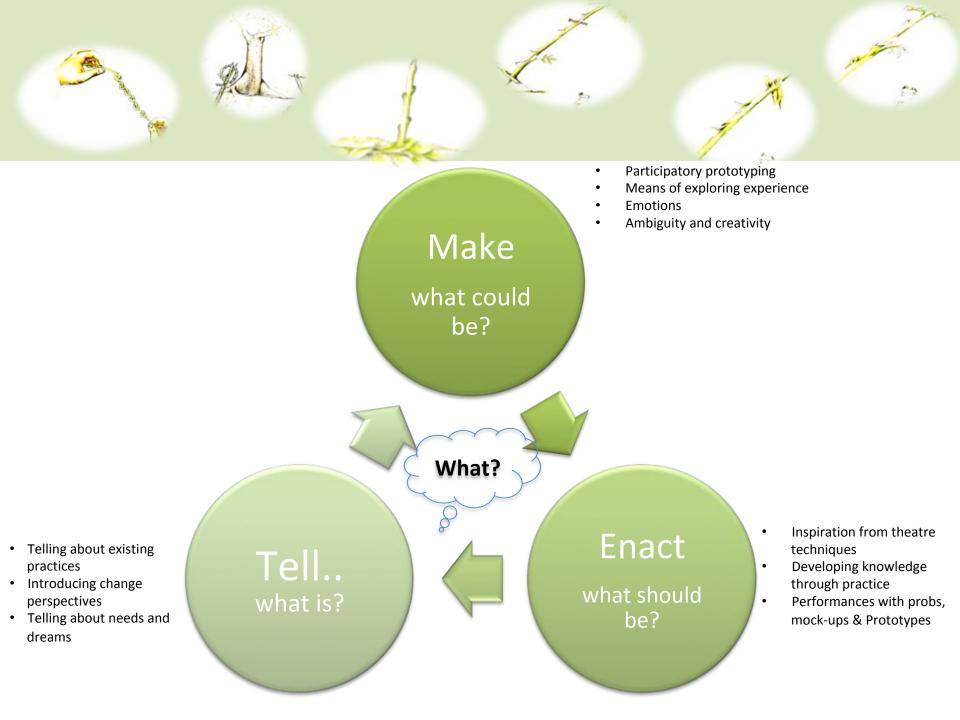
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Introduction to Design Basics (continued) Design Tools

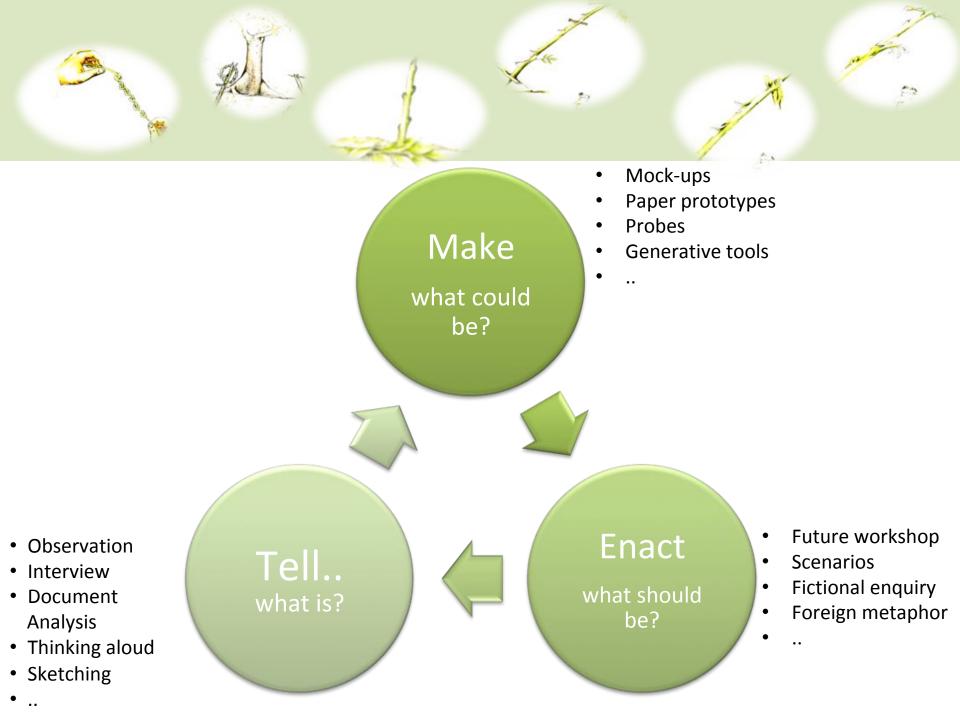




Tools and Techniques

- Document analysis
- Interviews
- Observations
- Future workshop
- Thinking aloud
- Walkshop
- Persona
- Oral narratives and Stories
- Sketching
- Fictional enquiry

- Prototypes and mockups
- Brainstorming
- Storyboard
- Role play
- Probes
- Scenarios
- Card sorting
- Foreign metaphor (what if?)
- Diaries





Case studies

eToro: Indigenous Botanical Knowledge Management System Toro: Sketching and Forest walks



Collecting livelihoods... food and medicine etc.



Activity based platform for knowledge transfer between elder and younger ...hunting techniques making huts and medicinal characteristics of the plants

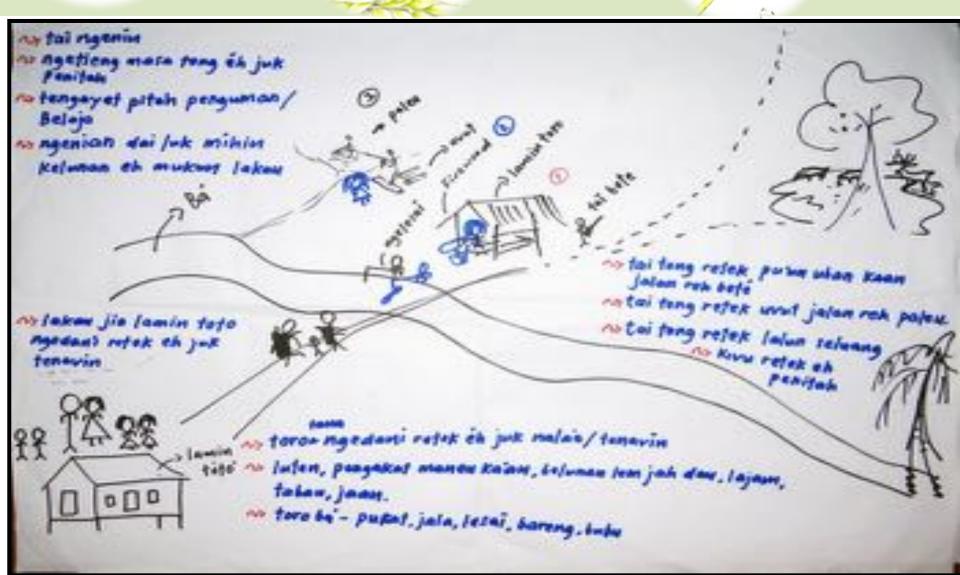


Loss of knowledge;

- Rapid change in the way of Penans' life
- Reluctance of elders to transmit IK to uninitiated youth

Problem: Loss of knowledge and Loss of Identity, "If you don't know about the plants, you are not a Penan"

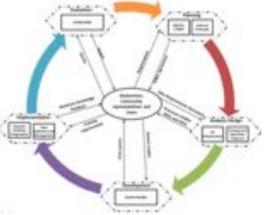
Sketching to explore the contextual variables



Community empowering methodology



Inclusive Design



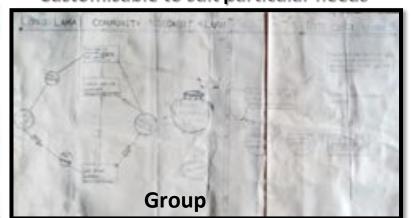
Safeguarding their interest

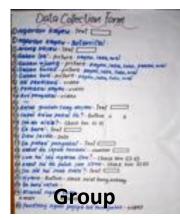


Group









Individual

Group



Collaborative design of meta-data

Sign Language: Digitisation and Documentation Sketching













We are from the same group. I'm alone, very very hungry and I have only water to survive. I am going to the river in this direction. Follow me and if you have anything to eat please bring along....





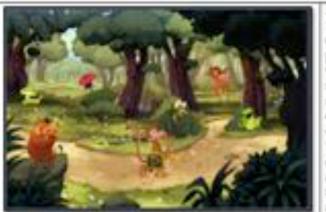
Card sorting: Oroo sign categorisation







Oroo' Treasure Hunt



Menu Page

For the menu page, there ago only one button which is play button for user to enter the game. The background music is natural sound of minforest. When user click on the animals, sound of each animal will be played. User can avoid to meet the dangerous in rainforest such as snake and bee by recognize the sound of each animal from the game.



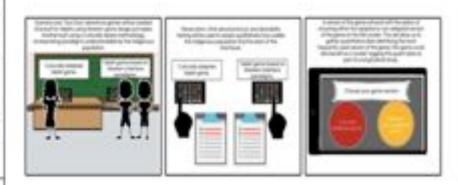
Level Page

This page is level page to let user to choose the level they want to play. The levels are locked until user have passed each of the level.

User can click on "take our quirt" button and proceed to the quir page.

Proposal: Oroo' low-cost innovation game

Scenario one



- Scenario one: Two Oroo' adventure games will be created: One built for tablets using Western game design principles. Another built using a culturally aware methodology, incorporating puradigms understandable by the indigenous population.
- Observation, think aloud protocol, and desirability testing will be used to assess qualitatively how usable the indigenous population find each of the interfaces.
- A version of the game will exist with the option of choosing either the adapted or non-adapted version of the game at the title screen. This will allow us to gather quantitative data identifying the most frequently used version of the game, this game could also be left as a "probe" logging this quant data as part of a longitudinal study.

Persona and Paper prototyping



Within less than 15 minutes 89 sms texts created one third in Malay and the rest in English.

Sample sms:

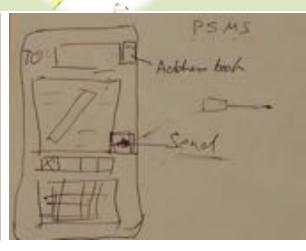
"What are you doing?"
"Let's meet at the river"
"what do you mean?"

PO-SMS: App Screen Layout Design



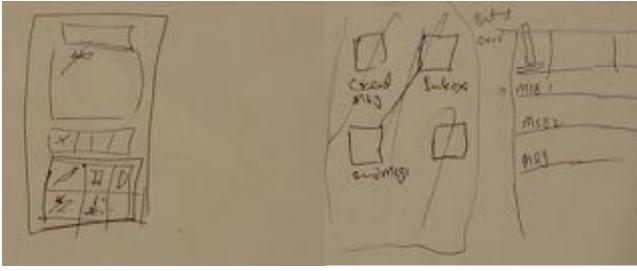














THANK YOU

