

Best Practices and Recommendations for Digital Inclusion through Resilient Infrastructure

CoLRN: A Community-based Vision for Local Resilient Networks



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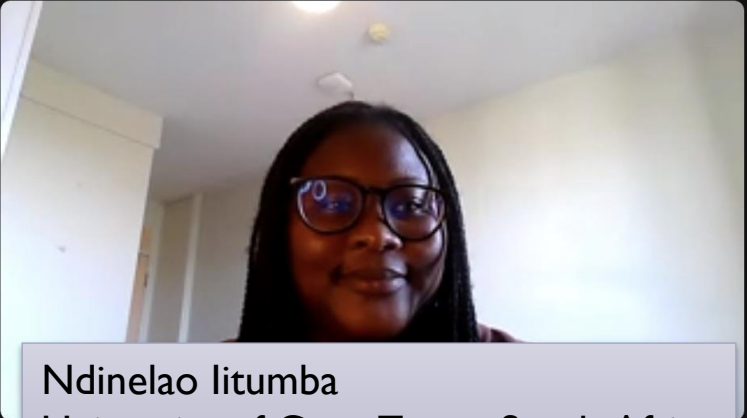
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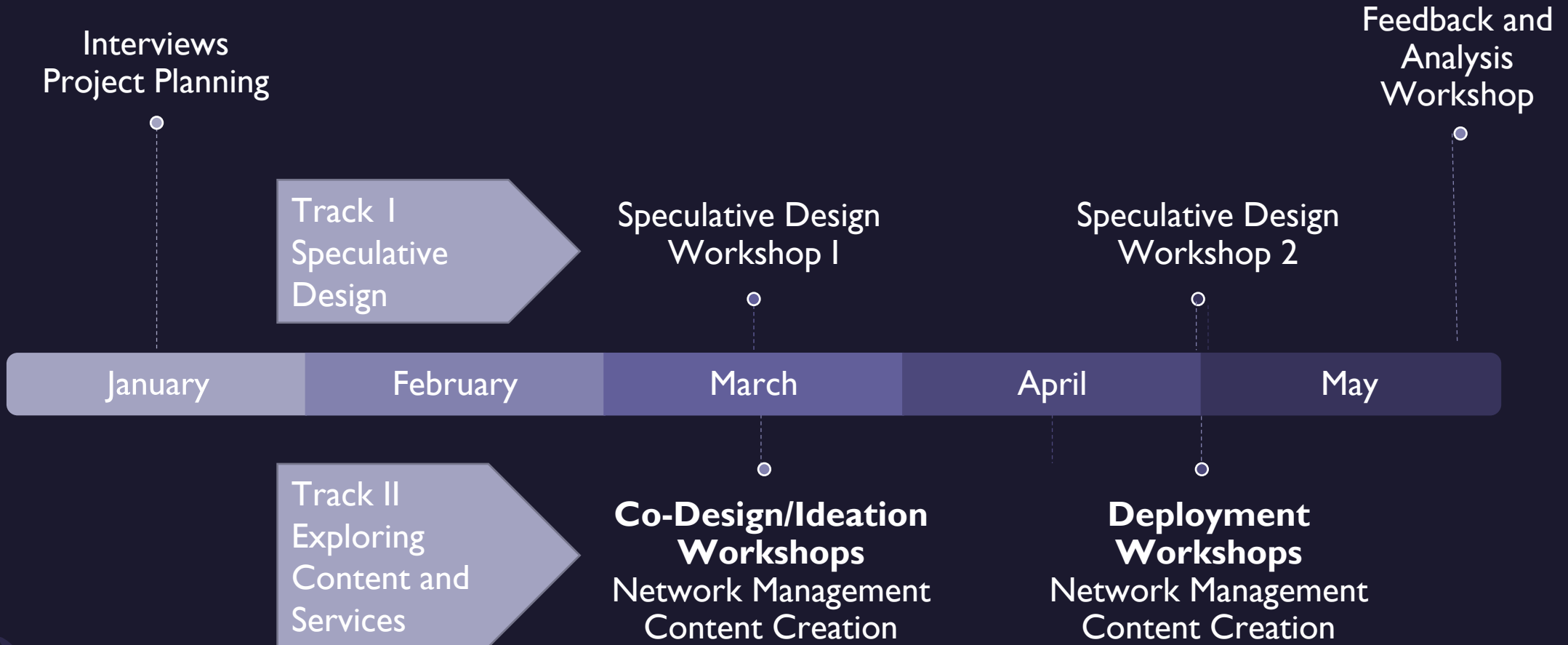


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Project Activities



Speculative Design Workshops

- The workshops were designed to understand the idea of "network resilience" in the communities
- Participatory co-design methods enabled us to identify both strengths and challenges within the network in the community.
 - Parallel realities/ world building
 - Situated utopian and dystopian scenarios



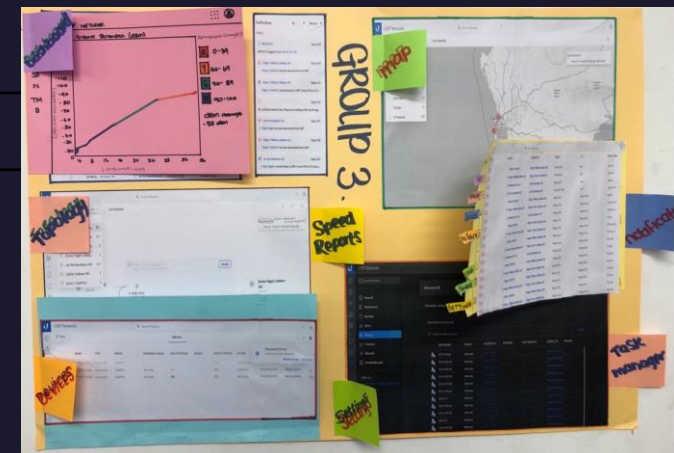
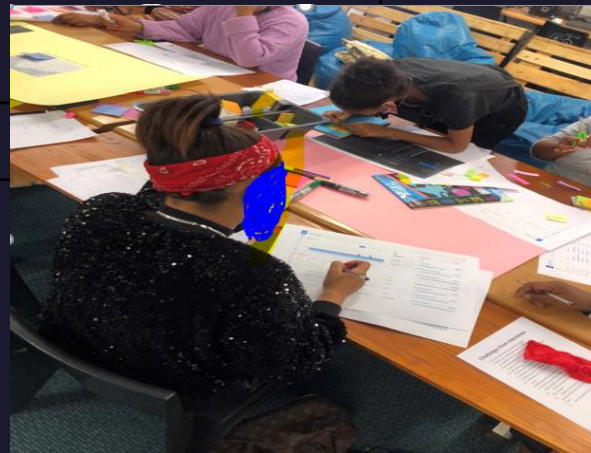
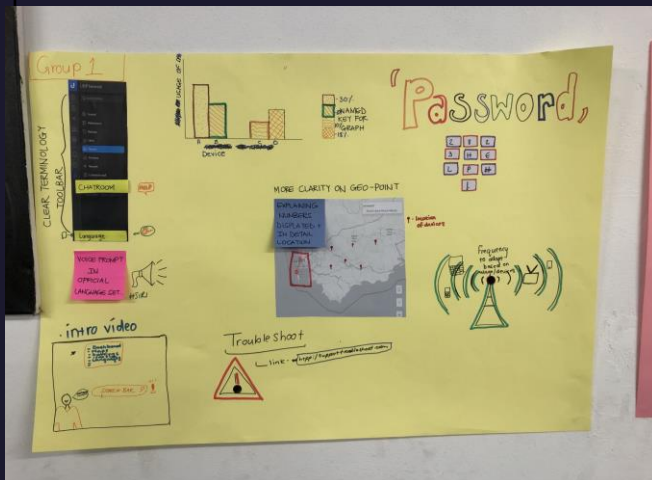
Network Management for Community Wireless Networks

Methods

- Current and prospective network operators
- Interviews: to find current NM challenges, experiences
- Co-design workshop: to understand challenges and prototype solutions in both mature and nascent
- Deployment Workshop: Exploring possible improvements to suitability of RadiusDesk/MeshDesk:

Findings

- Challenges with existing NM interfaces e.g icons, terminologies, and finding devices
- Access to an eco-system of experts, formal and informal training, Infrastructure sustainability & power cuts interfering with the controllers
- Adhoc equipments, troubleshooting resources not suited to level of expertise available



Content Creation and Dissemination

- The workshops were facilitated to encourage community members for co-creation and co-production of content on the ground.
- PAPAD software was the fostering artifact utilized for content creation and archiving knowledge.
- Findings: Established new ideas on content creation e.g community podcasts



Some Futures

Janastu: <https://janastu.org/>

iNethi: <https://www.inethi.org.za/>

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Speculative Design

- Community Visions for Resilience
 - Local Health Library as a Service
 - Co-located social activities, craft making and learning.
 - Self sustaining network by mobilizing and engaging within community.

Co-Design, Co-Deploy

- Rethinking Network Management Interfaces – usability and configurability
- Local Content Creation and Dissemination – podcasts, iNethiRadio, inclusion