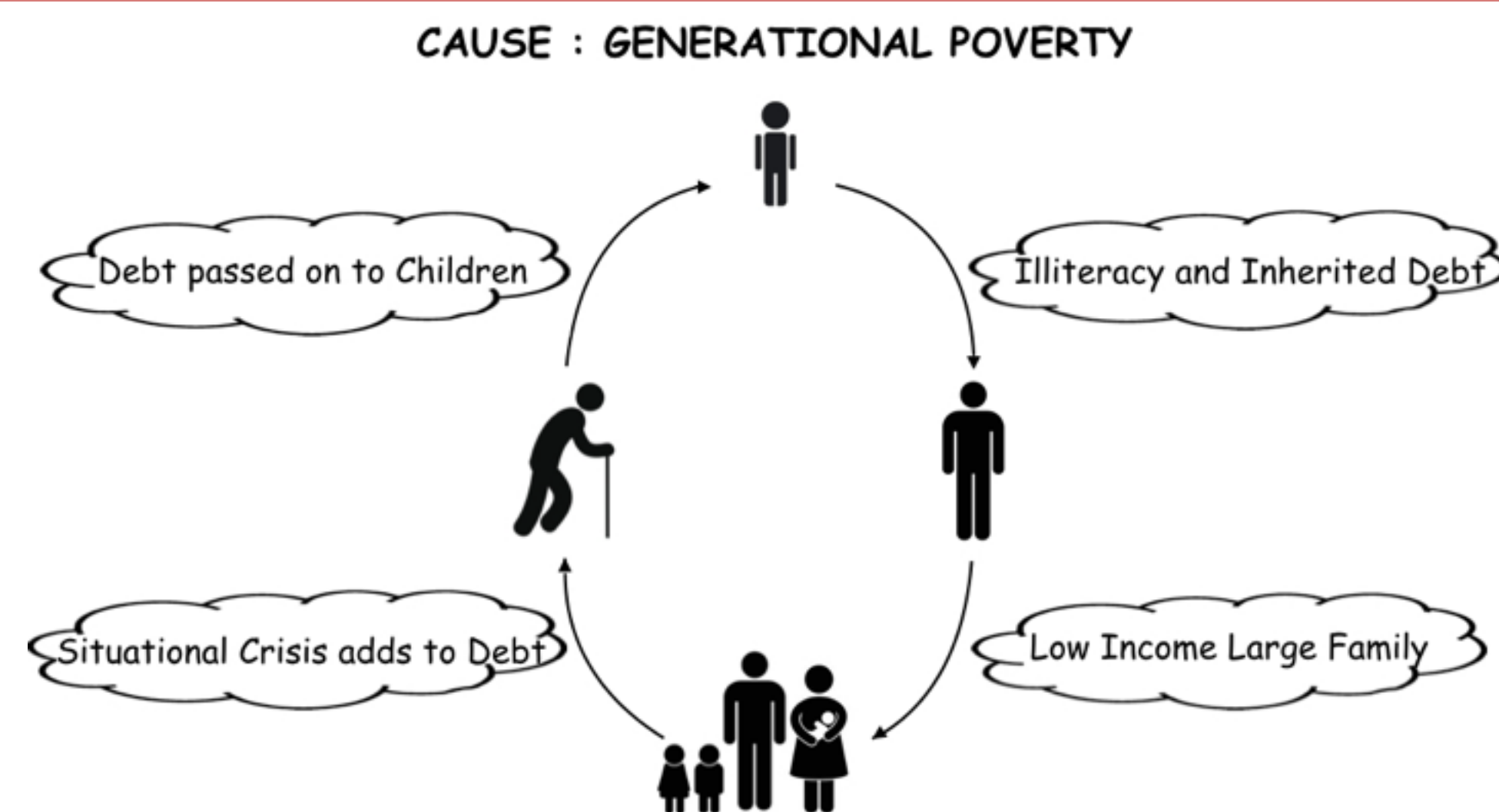


ADOPTION AND DIFFUSION OF INFORMATION IN SOCIAL NETWORKS

Anikate Singh - Joshua Manoj - Chitra Raman - Devin Luco - Yan Guo

Supervised by Joshua Blumenstock

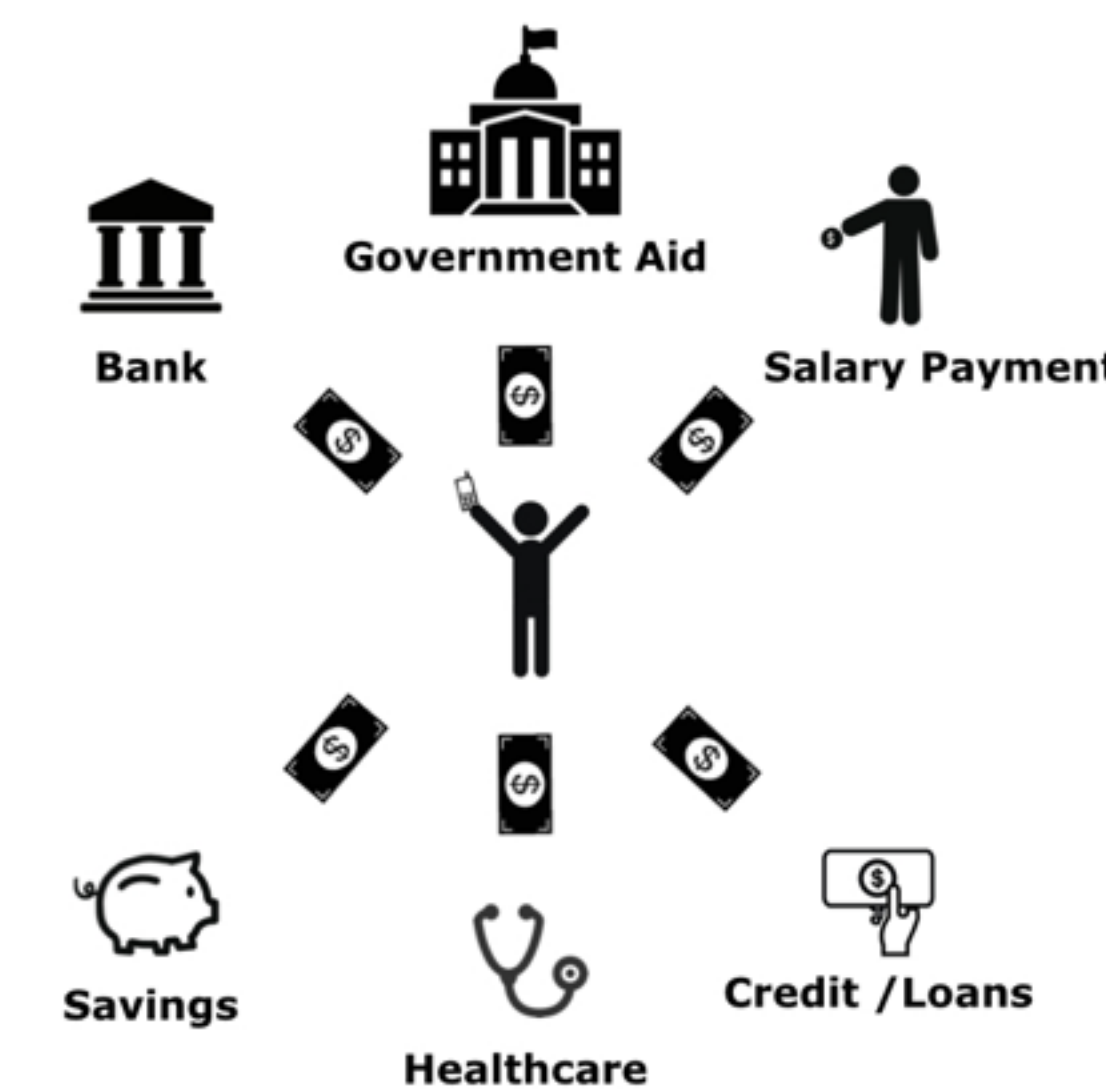
THE CHALLENGE



People recover from poverty but keep falling back because of

- Health problems
- Financial setbacks
- Unavailability of any risk mitigation options

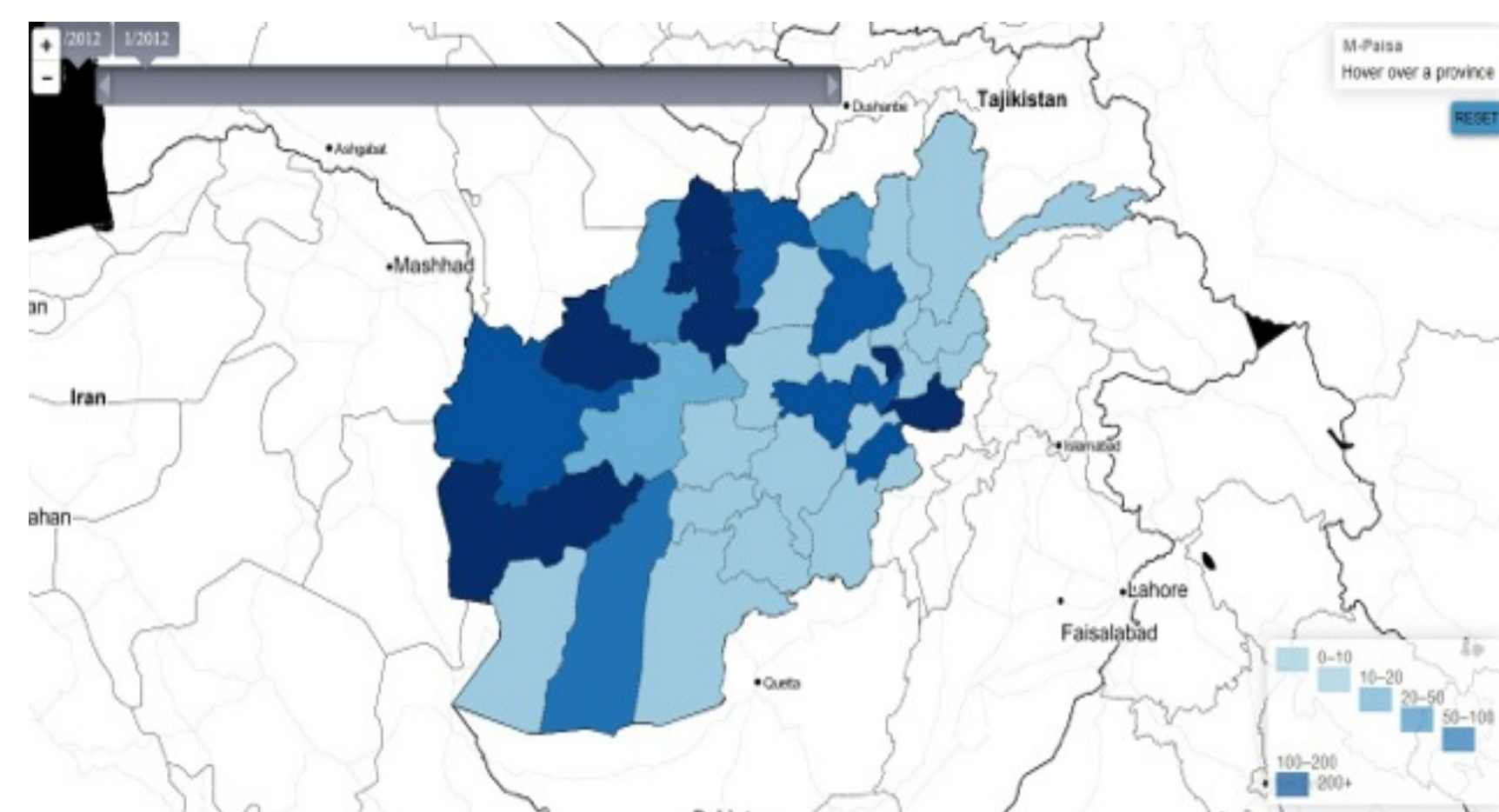
THE OPPORTUNITY



Accessibility to Financial tools

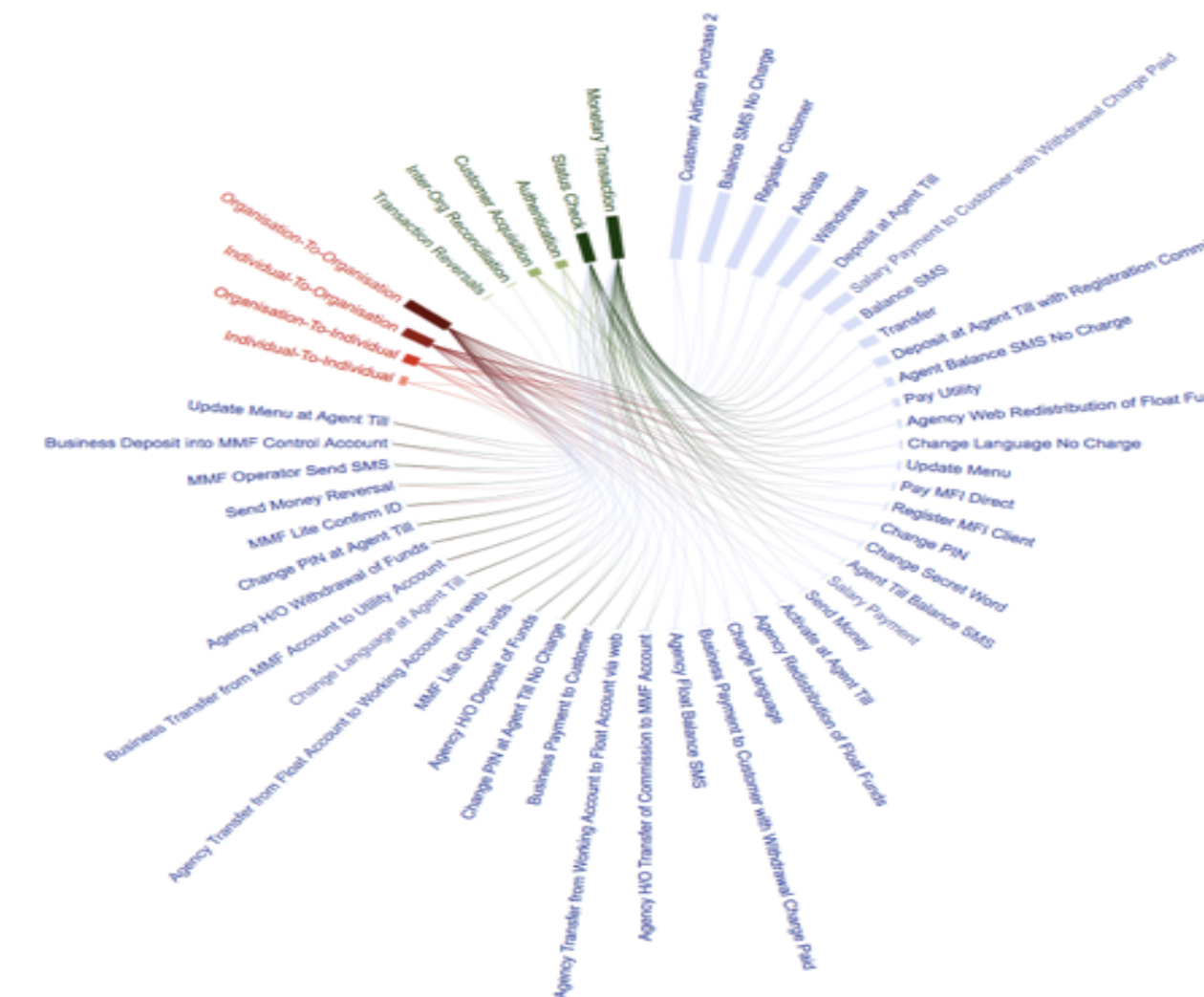
- Move away from cash economy
- Assist in making economic gains
- Risk mitigation through reliable access to credit
- Delivering aid without corruption

THE SOLUTION



Geospatial Map with overlay

- Show spread of mobile money adoption through Afghanistan
- Intuition about user engagement by visualizing changes in transactions/user over time
- Allow users to see the above trends for each province

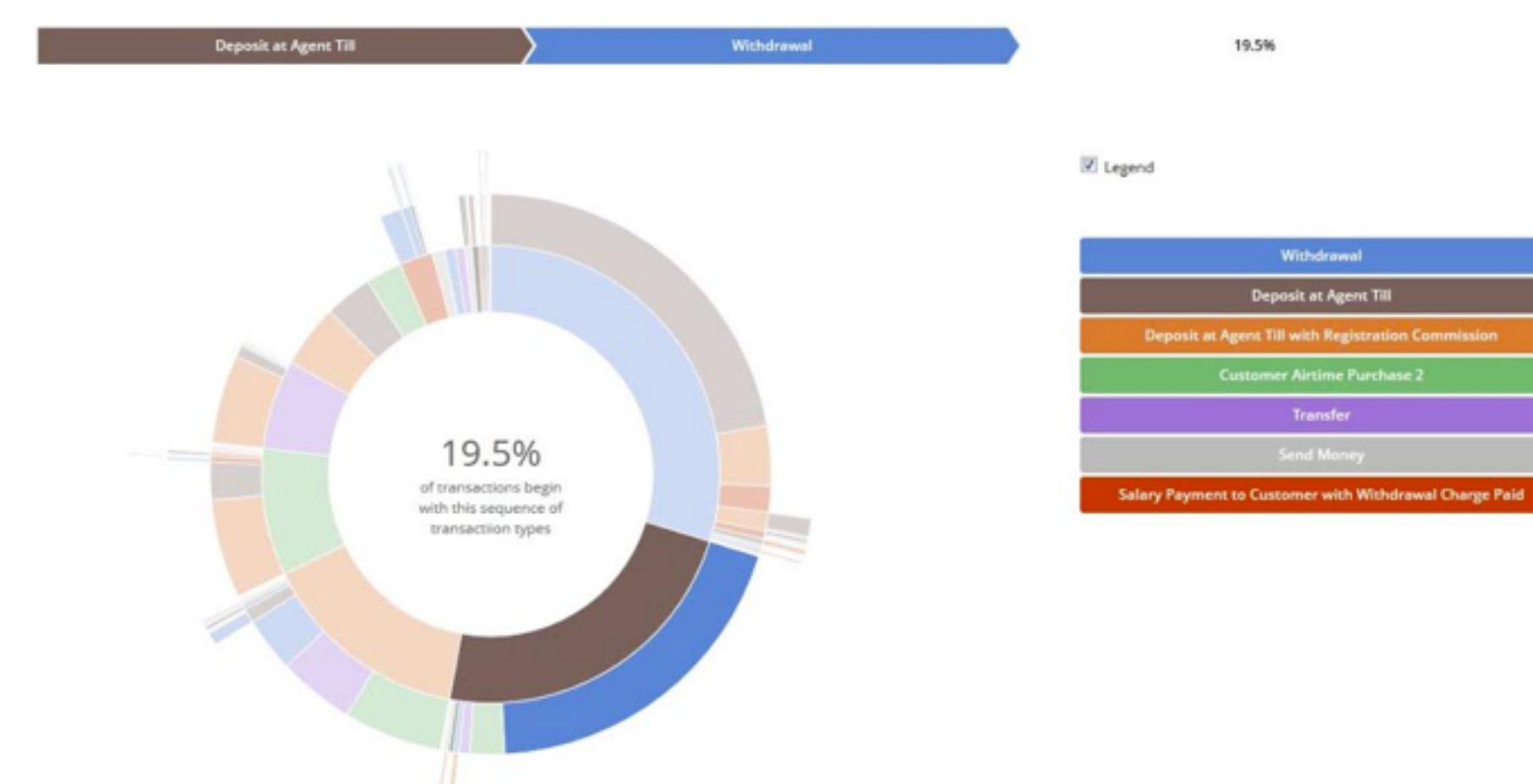


Chord Diagram for hierarchical data

- Shows users the different MPAISA services in use
- Allows users to understand what the different services mean via sub groupings
- Gives intuition about who uses these services

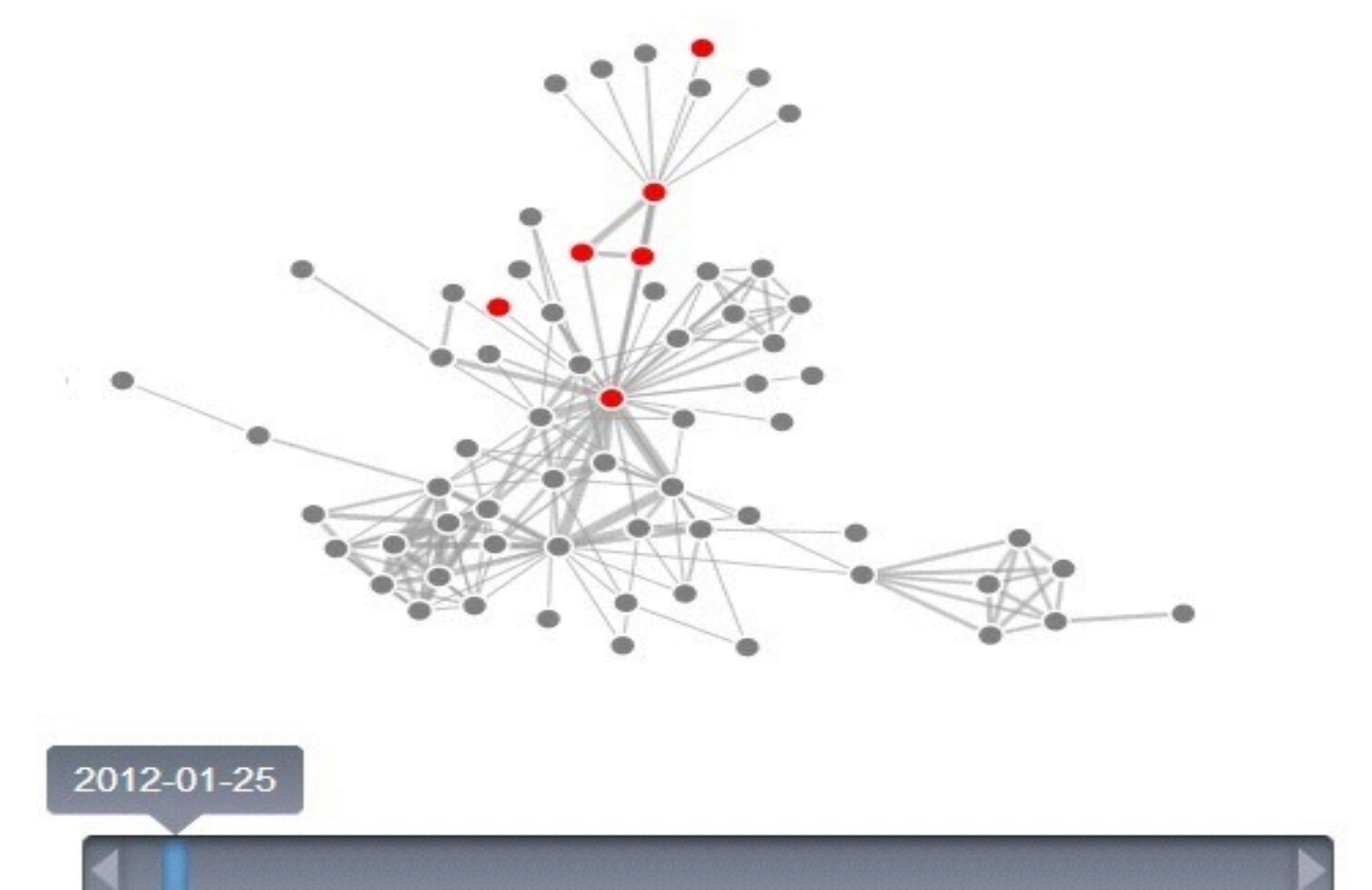
Sunburst Diagram :

- Chronological adoption of different MPAISA services over time by different users
- Helps in discovering adoption mechanisms
- High percentage chronologies might reveal interesting behavioral patterns

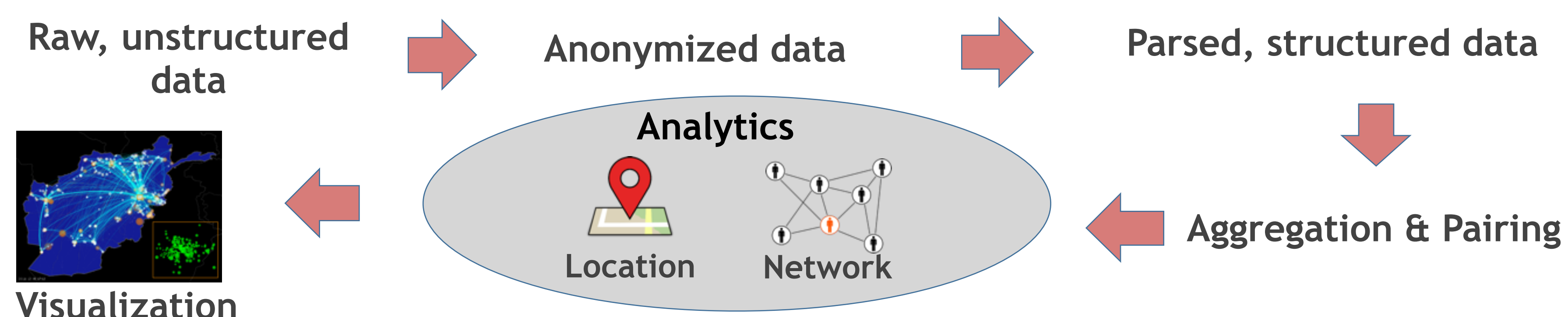


Force Directed Graph over time:

- User stories - Tracking the lineage of MPAISA adoption to verify if newer adopters received recommendations from existing users in their call network.
- Assists in verifying word of mouth adoption patterns



DATA PIPELINE



TECHNOLOGIES USED



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