Drafting an emerging picture

Name:	Bhargav Taraviya , Trupalkumar Ukani
Community & UN SDG(s):	**SDG 15**: Life on Land – Protecting forests and biodiversity. **SDG 13:** Climate Action
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Instructions:
Using your researched information fill out the flowing comparing the current state of the art with what you think new (software) innovations could bring to the community

Covering the orientations	
Compare the left-hand column of the document "Technology configuration inventory" table with the right-hand column of the document "Community characteristics & orientation" table. What do you notice about the match (or mismatch) between your dominant community orientations and the current configuration of tools?	
How well does the technology inventory cover the orientations? What themes emerged from both the community orientations and the technology configuration from your colleagues' notes	- Match/Mismatch Between Community Orientations & Technology Configuration - The technology inventory aligns well with the need for data visualization and reporting but lacks automated data collection.
☐ Are you almost there? ☒ Are there big gaps?	- Data must be manually updated, increasing the risk of outdated information. - No real-time data pipelines—Power BI reports rely on static or manually updated sources. - Limited interactive learning tools for students and industry professionals.
What is the range of skills? If their interests and/or skills are diverse, could it cause conflict or distraction?	- **User Groups:** Students (middle/high school, junior college) - **Skill Levels:** basic familiarity with technology **Potential Conflicts:** - Some users may struggle with Power BI's advanced features. - The dashboard should balance complexity and simplicity, offering both basic and detailed views.
Achieving integration	
Look at all the pieces of your configuration	
What level of integration and interoperability has been achieved?	- Power BI effectively visualizes deforestation data. - Manual data entry is a major limitation—no direct API integrations.
Where are there big gaps	- No automated data collection—users must manually gather, clean, and upload datasets.

	- No built-in collaboration tools—feedback and discussions must happen externally. - No interactive knowledge-sharing feature for students and researchers.
Balancing the polarities (Current state)	
How is the configuration balanced with respect to each polarity?	
Synchronous >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> …Synchronous tools? - None (No real-time discussion or collaboration tools integrated)	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Asynchronous** …Asynchronous tools? - Power BI dashboards, Google Drive for document sharing
Participation >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> …Participation tools? - None (No live Q&A, discussion boards, or collaboration tools)	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Reification** …Reification tools? - Structured Power BI dashboards, reports
Group >>> …Group tools? - Shared access to Power BI dashboards via shareable links	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Individual** …Individual tools? - None (No personalized views or user-specific dashboards)
How well does this balance fit your community?	The platform is heavily focused on structured reports and data visualization but lacks real-time collaboration, participation tools, and personalized user experiences.
Solution seeking	
In the new configuration, do you want your choice of tools to affect the polarities of your community in ways that differ from the current configuration? Which way?	
Synchronous >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> …New synchronous tools? - Introduce live Q&A forums, expert commentary, or integration with external communication tools (Teams, or forums).	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Asynchronous** …New asynchronous tools? - Maintain Power BI reports but explore scheduled update reminders or easy-to-upload data templates.
Participation >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> …New participation tools? - Add collaborative note-taking, discussion forums, or expert feedback features.	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Reification** …New reification tools? - Keep structured dashboards but introduce annotated reports with expert insights.
Group >>> …New group tools?	<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< **Individual** …New individual tools?

- Enable shared workspaces for researchers and students to work together.	- Allow user-customized dashboard views for different experience levels (students vs. professionals).

MVP notes

Primary focus: Deliver a functional Power BI dashboard with clear, manually updated deforestation data visualizations.

Essential features:

- Multi-page Power BI dashboard showing deforestation trends.
- Manually updated data sources that users can replace with the latest datasets.

Future Enhancements:

- Introduce collaborative tools (forums, expert commentary, and user discussions) to improve engagement.