



Drafting an emerging picture

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Community & UN SDG(s): Quality Education – 4, Responsible Consumption and Production – 12, Climate Action - 13

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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

Most children nowadays in school have access to a mobile phone, whether it be iOS or Android. Because of this, they shouldn't have any issues navigating the application.

The themes include the imperative for educational integration to support curriculum needs and the necessity for an accessible and user-friendly platform catering to a diverse user base. Local relevance is important, emphasizing content that speaks to Saskatchewan's environmental context. Scalability is an essential feature, as it should adapt to various student levels (grade 5-8 range), while fostering community engagement through collaborative tools. Recognizing potential internet access limitations, the inclusion of offline capabilities ensures accessibility for all students, ultimately enabling the project to effectively fulfill its mission.

- ☑ Are you almost there?
- ☐ Are there big gaps?

There are a lot of websites and learning tools that helps mostly **adults** calculate their carbon footprint, but nothing that would help children in the Grade 5-8 range, this is where I want to come in and help bring the small, but large gap.

What is the range of skills? If their interests and/or skills are diverse, could it cause conflict or distraction? No "skills" are required for this app, as this will be a simple calculator that allows the user to select and input various things. The application will also give tips and popups depending on what they pick. The prime focus of this project is on SDG 12 and 13, with a lot of it also going to 4, which is Quality Education.

Achieving integration

Look at all the pieces of your configuration

What level of integration and interoperability has been achieved?

There are a lot of websites that cater to a lot of very young children or adults, and applications that primarily cater to adults. There is nothing in the "in-between" stage, grades 5-8 which can be seen crucial to properly learning good life aspects.





Where are there big gaps

Gaps include the need for age-appropriate content, user-friendly interfaces, interactive educational tools, and the integration of local environmental data. Addressing these gaps will help create a more comprehensive learning experience and promote sustainability and environmental responsibility among these students.

Balancing the polarities (Current state)

How is the configuration balanced with respect to each polarity?

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Synchronous >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		<><<<<> Asynchronous Discussion Forums and Message Boards
Participation >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		<<<<<<< kreak representation
Social media platforms		Data Visualization Software
		Environmental Impact Metrics
Group >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		<<<<<<<< d>Individual
Collaborative Carbon Calculators		Inputting their own data for how they travel etc.
Community Events		
How well does this balance fit your community?	Since I want to mainly achieve quality education for children in the grade 5-8 range, this is a good balance.	

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 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<>>>>> AsynchronousNew asynchronous tools?
Participation >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<<<<<<< Reification Tips and videos for the user
Group >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<><<<<<< > Save progress for each "calculation done"

MVP notes

- **MVP 1:** Make a simple carbon footprint calculator with user inputs and selectable blocks.
- MVP 2: Add user's ability to show tips for their choices and videos to help out.
- **MVP 3:** Export data to share with people and them able to save their progress for each calculation.



