Drafting an emerging picture

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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	The dominant community orientations are Relationships, Community Cultivation which all have high relevance rated as 5.
	Relationships are being built with the City of Regina's Cart Smart program. They intend to begin informing households who have contaminated with a postcard. This card contains information about the contaminant that was detected and educates households to avoid placing these items in their recycling. This form of automatic and standardized education method is important; however, this is not enough as outside communities do not completely understand the significance of contamination. The next step towards improvement in education and building trust is to demonstrate progress, goals, and objectives with clarity of knowledge.
	Community Cultivation is being addressed by collecting recycling data rigorously for every household through Prairie Robotics platform. The value of this data can be improved if it is also used to actively monitor the health of recycling on a regular basis. This would give waste management workers an opportunity to participate willingly and asynchronously to understand the severity of contamination, but also to create steps towards improvement within the city.
	Service Context is being addressed by the community's openness to introduce new technologies to have larger outreach and understanding of recycling within the city. The biggest improvement here is for municipality and waste management workers to gain a clear understanding of state of recycling actively by transforming data into knowledge in order to properly guide the city towards sustainability.
☐ Are you almost there? ☒ Are there big gaps?	The community is new and as a result is in a stage of data collection. The next step of this process is to absorb, create connections, and build experiences which builds on information and will cultivate knowledge of the recycling stream within the community. Improvement of the community orientations largely rely on waste management workers to first being able to build a clear knowledge base which they can use to monitor and educate the city with actionable goals. Observations and analysis need to be encouraged in order to building clear goals and objectives supported by knowledge which people can trust in the program and work together towards sustainability.

What is the range of skills? If their interests and/or skills are diverse, could it cause conflict or distraction?	The community has a moderate level of technological skill and experience. Therefore, it is important that the technological solutions provided are highly discoverable and usable. The solution should build on information that they are already familiar with to encourage participation and reduce distraction.

Achieving integration

Look at all the pieces of your configuration

What level of integration and interoperability has been achieved?	The level of integration is still new and thus data is primarily just being collected. There is a large opportunity here to build upon the data and integrate solutions which extract valuable information and encourage growth of knowledge about the recycling program.
Where are there big gaps	The current gap is building an active knowledge base for waste management workers which is readily available. It is important to integrate such technology to improve their understanding and build a clear vision of how the community can lead the City of Regina towards sustainability.

Balancing the polarities (Current state)

How is the configuration balanced with respect to each polarity?

Synchronous >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<<<< **Asynchronous**
Meetings	Dashboard for viewing individual contamination sources
Regular data collection through Trucks	Waste Wizard Tool for quick recycling education

Participation >>>>>>>>>>>>>>	<<<<<<<<<<<<<<< **Reification**
Understanding contamination sources	Postcards

Group >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<<<<<<<<<< **Individual**
Building educational campaigns	Recording Observations of Improper Recycling

How well does this balance fit your community?	Asynchronous and Individual participation could be improved if information was simpler to absorb for the community. Availability of information would improve the willingness for individuals within the community to learn further and grow their knowledge about the recycling program.

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 >>>>>>>>>	<<<<<<<<<<<<<<<<<<<<<<< **Asynchronous**
Dashboard to view after a collection day occurs	Active Dashboard to Observe Progress at any given point

Participation >>>>>>>>>>>>>>>>>>	<<<<<<<<<<<<<<<<<<< **Reification**
Encourage observing and analyzing information to strengthen knowledge about the recycling program	Intuitive and interactive base of information to absorb
Group >>>>>>>>>>>>>>>>>>>>>>>	<<<<<<<<<<<<<<<<<< **Individual**
Promote further conversation during meetings and events with clearer knowledge of progress being made	Ability to clarify and understand the performance of recycling individually. Gives power to the individual to take responsibility as the information is readily available

MVP notes

MVP 1:

- Ensure the architecture is highly usable and discoverable for waste management workers given their technological skills.
- Ensure it promotes iterations and is able to conform to user feedback and improvements in the future

MVP 2:

- Display information that is useful and desirable to reflect upon by waste management workers.
- Keep usability in mind when developing these components

MVP 3:

- Ensure any displayed information is calculated and analyzed without error.
- Build architecture that is resilient so that waste management workers never have to worry about the accuracy of the information.