



Community characteristics & orientation

Name: Rishabh Prasad
 Community (UN SD goal): Goal 11 – Sustainable Cities and Communities
 Date: 2021-10-05

Instructions

Research the community you are most interested in exploring using links from the UN Sustainable Goals website (<https://www.un.org/sustainabledevelopment/>) and others. In your exhaustive research, answer the following.

Community characteristics		
Community life-cycle (current state)		
Where is your community in its life-cycle?	What you need to focus on:	Special needs
<input type="checkbox"/> Just forming Need basic tools to connect, but not sure from there	Research and/or discuss the potential of some basic tools with members, explore what ideas it might give them, and see what they might bring in with them.	
<input checked="" type="checkbox"/> Self-designing Information stage, but with a strong sense of what it wants to accomplish	Contribute ideas to the design. Analyze systematically the implications of their community design for technology, infrastructure, and technology skills.	Most municipalities have introduced recycling programs which actively collect recyclables from households. However, recycling is heavily contaminated with various waste which causes trucks to be redirected to landfills. Recycling problems can be leveraged by technology to understand common sources of contamination and create targeted educational campaigns to improve the state of recycling
<input type="checkbox"/> Growing & restless Ready to add new functionality to its tool configuration	Try to make this a community reflection and self-design event. Does their restlessness suggest a major change, such as a transition to a new platform?	
<input type="checkbox"/> Stable and adapting Just needing some new tools	How much disruption will the community tolerate? How will the new tools be integrated into or affect existing practices?	
Constitution		
Diversity: How diverse is the community?		
Topic	Your notes	



What are the different types of members and what are their levels of participation?	<ul style="list-style-type: none"> - Municipality / Waste Management Workers who handle recycling collection - City of Regina workers who analyze sources of contamination <p>This projects North Star customer are the waste management workers. The goal is to give waste management workers a tool to analyze the state of recycling in the City of Regina.</p>
How spread apart is it in terms of location and time zones?	The focus of this project will be the City of Regina as a pilot project. The city is divided into several zones of waste collection which is collected bi-weekly on their individual day.
What language(s) do members speak?	This application should be accessible to individuals in any language. However, the focus will be English.
What other cultural or other diversity aspects may affect your technology choices?	

Openness: How connected to the outside world is your community?

Topic	Your notes
<p>How much do you want to control the boundaries of your community? Does your community need</p> <p><input checked="" type="checkbox"/> To be private/secure</p> <p><input type="checkbox"/> Open boundaries</p> <p><input type="checkbox"/> Both private & public spaces</p>	<p>The purpose of this application is to provide consumable analysis for waste management organizations, so the community boundary will be private.</p>
How does your community need to interact with other communities? Do you need common tools for sharing and learning with them?	The waste management community interacts with the community of people who participate in recycling. It is important for waste management companies to share the knowledge they have gained from the state of recycling now with the public and educate them to improve upon its current state.

Technology aspirations

Technology savvy, tolerance, & constraints: What are your community's technology interests and skills and patience thereof? What are the constraints imposed by technology factors?

Topic	Your notes
How interested is your community in technology?	The community is interested in developing their Recycling Program by introducing technology. As seen in recent press releases, the City of Regina is partnering with Prairie Robotics to ensure there is less contamination present in recycling through methods of automation, machine learning, and technology.
What is their capacity for learning new tools?	Their capacity to learn new tools seems to be at an intermediate level. They require a tool that is intuitive and natural to understand to improve upon the work they are already doing. This application should not provide the community with a hard and new set of rules to understand, but rather a medium to guide their work towards small iterative steps towards improvement within the recycling program.
What is the range of skills? If their interests and/or skills are	This community has an average level of experience with technology. At this time, this community should not have any issues with their experience on the app.



diverse, could it cause conflict or distraction?	
How tolerant are members of the adoption of a wide variety of tools?	The City of Regina is welcoming of new technology to improve recycling as we have seen with the partnership between the city and Prairie Robotics.
How many technological boundaries are they willing to cross, e.g. sign in to more than one web-based tool, learn to use new tools, or give up old favorites? This helps you understand what level of integration you need.	Hardware is already integrated within the recycling trucks to generate data for recycling collection within the city. However, there is no component being used which is readily available to view the data which is being collected. Integrating a visual dashboard will allow the community to view the state of recycling. Our hope is that the information displayed is valuable and simple to consume for the community to make a change towards a greener future.
What are your members' technology constraints (e.g., bandwidth, operating systems, etc.)?	As this dashboard will be a web application. It is important that they have a computer / smart phone and stable internet connection. From my research till now, this community should not have issues with using this application
How much time are members able to be online and from where (office, home, field)? Some people have limited online time, or are able to be online only in specific locations. Others are always on. Very diverse situations can affect participation	Viewing the dashboard will be a routine check on the day following a day of recycling collection. Information will be visible all the time, however, I believe it is only necessary to view the data the day following collection

Community orientation

Relevance to community: Use the range from 0 (no relevance) to 5 (high relevance) to determine what matters most to the community. Look at these from the perspectives of the different types of members (under "constitution"). Also discuss the "value-added" to each member group

0	1	2	3	4	5	Orientations	Variants	Key activities/your notes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Meetings Many communities place a great emphasis on regular meetings where members engage in shared activities for a specific time. Meetings, and the visible participation of members, assert the community's existence	<input type="checkbox"/> Face-to-face/blended <input checked="" type="checkbox"/> Online synchronous <input type="checkbox"/> Online asynchronous	I believe meetings are important and likely will be through online meetings to ensure the information that is displayed is valuable for each zone of recycling collection. The meetings are often difficult to schedule with this city and likely will be held very occasionally.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Open-ended conversation Some communities maintain ongoing conversations as their primary vehicles for learning. Open-ended conversations are	<input type="checkbox"/> Single-stream discussions <input type="checkbox"/> Multi-topic conversations	As this community, is built off of an government organization. Informal meetings will not be likely.



						common when a community is co-located and people keep the conversation going as they “bump” into each other.	<input checked="" type="checkbox"/> Distributed conversations	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Projects In some communities’ members want to focus on particular topics, go deep, and collaborate on projects to solve problems or produce useful artifacts. Learning is not just a matter of sharing knowledge or discussing issues. Members need to do things together in order to develop their practice. Projects usually involve a subgroup within the community	<input type="checkbox"/> Practice groups <input checked="" type="checkbox"/> Project teams <input type="checkbox"/> Instruction	Community members will be responsible of using the application on their own and assessing whether the previous collection day was useful or not.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Content Some communities are primarily interested in creating, sharing, and providing access to documents, tools, and other content. Valuable and well-organized content is a useful resource for members	<input type="checkbox"/> Library <input type="checkbox"/> Structured self-publish <input type="checkbox"/> Open self-publish <input type="checkbox"/> Content integration	Not applicable. All data that is used will be retrieved from data collection which takes place automatically on the truck
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Access to expertise Some communities create value by providing focused and timely access to expertise in the community’s domain, whether internally or externally. Communities with this orientation focus on answering questions, fulfilling requests for advice, or engaging in collaborative, just-in-time problem solving	<input type="checkbox"/> Questions & requests <input type="checkbox"/> Access to experts <input type="checkbox"/> Shared problem solving <input type="checkbox"/> Knowledge validation <input type="checkbox"/> Apprenticeship & mentoring	Not applicable.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Relationships Some communities focus on relationship building among members as the basis for both ongoing learning and being available to each other. This orientation emphasizes the interpersonal aspect of learning together. Communities with this orientation place a high value on knowing each other personally, emphasizing networking, trust building, and mutual discovery	<input type="checkbox"/> Connecting <input checked="" type="checkbox"/> Knowing about people <input type="checkbox"/> Interacting informally	It is important for this community to build healthy relationships with the public as it deals with household recycling. Communication between the city and the public requires trust, clarity, and is important for it to be conveyed most importantly in an un-offensive manner. It is important for this platform to cultivate trust and education to



								work towards improved recycling habits.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Individual participation Learning together happens in the context of a group, but it is realized in the experience of individuals. People bring different backgrounds, communication styles, and aspirations to their participation in a community. People have different levels of commitment, they take on different roles, and they use tools differently	<input checked="" type="checkbox"/> Levels of participation <input type="checkbox"/> Personalization <input type="checkbox"/> Individual development <input type="checkbox"/> Multi-membership	It is important to create an application for this community which develops a learning environment for everyone. It is important to display the data in an intuitive manner, however, it is vital for the community to feel engaged and provide feedback while using it for its success.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Community cultivation Some communities are happy with loose self-organization and unplanned evolution, while others thrive on attention to community cultivation. They have a need to reflect on the effectiveness and health of the community to make things better, joined with a willingness to work on it	<input checked="" type="checkbox"/> Democratic governance <input type="checkbox"/> Strong core group <input checked="" type="checkbox"/> Internal coordination <input type="checkbox"/> External facilitation	It is important for the community to understand the health of the recycling program within the city and work towards a sustainable future. The application should leverage the cities aspirations of a greener future.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Service context In some cases, serving a specific context becomes central to the community's identity and the ways it operates. They may live inside an organization, whose charter their practice needs to serve. They may have a mission to provide learning resources to the world or to recruit members widely. Or they may seek interactions with other communities whose domain complements their own	<input type="checkbox"/> Organization as context <input type="checkbox"/> Cross-organizational <input checked="" type="checkbox"/> Other related communities <input checked="" type="checkbox"/> Public mission	The app should encourage the community to involve themselves with the public and provide targeted education for effective change. There needs to be an abundance of trust and encouragement involved for communities to work together and resolves concerns with heavy contamination discovered within the city.

Scratchpad (other interesting insights, questions/answers, etc.)

The goal is to provide a visual for the data which is collected and stored from the trucks based on collection zones within the City of Regina. Our hope is that the city can identify sources of contamination properly and determine plans of education to make the recycling program more effective.