

Shifting the Tides

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What product/service/process are we going to create and why?

Problem?:

Water Meter Malfunctions

WHY?:

“One per cent of the time, the electronic reader doesn’t get picked up,” Spackman told the city’s auditing committee.

Some of those customers have claimed they’ve received water and waste water bills of up to \$4,000 a month, many times more than what they’d normally be charged.

PRODUCT OR PROCESS:

A more reliable meter for residents

Timeline

Feb.15 - Proposal

Feb.27 - Finish Research

Mar.6 - Finish Analysis

Mar.20 - Finish Prototype

Apr. 3 - Finish Presentation

Research

<http://calgaryherald.com/news/local-news/one-per-cent-of-calgary-water-metering-malfunctioning-city-officials>

https://www.youtube.com/watch?v=M9nVkSZ6_H4

<https://www.youtube.com/watch?v=7BH1ciW-pZ0&feature=youtu.be>

Pros and Cons of all meters on the market

Analysis

Why are the meters malfunctioning?

What can change?

What process needs to change?

How will this affect the customer?

Prototype Creation

A new type of meter:

- Reliable
- Accurate
- Cost-effective

Presentation

Showing how this new meter is better and will save customers time and money

New Process of taking the reading

. Working as a group you will create a proposal to be presented to the class. This proposal should include:

- The frame of your design challenge
- Your timeline for the design challenge
- 1. Research
- 2. Analysis
- 3. Prototype creation
- 4. Presentation

- Group decision and planning process
 1. You will take the feedback from the class and use this to evaluate and potentially improve your proposal
 2. The final submission will include your overall proposal including the changes made
 3. Submit the assignment as per the instructor's instructions
 4. Late assignments will lose marks at 5% per day unless approved by the instructor
 5. to a maximum of 4 days. After 4 days, the assignment will receive a 0.

Rubric

Proposal Presentation (Out of 100)

Description of your design challenge – /10 Timeline of your plan - /5

Descriptions of each stage of planning - /20 Group planning and process – /5

Descriptions of each stage of process - /25 Overall presentation - 20

Contribution/feedback to peer presentations - /15 Proposal (Out of 75)

Description of your design challenge – /10 Timeline of your plan - /5

Descriptions of each stage of planning - /20 Group planning and process – /5

Descriptions of each stage of process - /25 Integration of peer feedback - /10