

## 1 Topic Selection

You will first need to make an individual decision for where you would like to source your topic for your case study. You will then be placed into a group based off of this decision. Your options are as follows.

- If this is your first case study for the course, you will pick one of the studies from chapter 7 in the [Mathematics for Sustainability](#)<sup>1</sup> textbook. You can access this text for free by logging in with your CSU credentials.
- If this is your second case study for the course, you can choose a study from chapter 7 in the [Mathematics for Sustainability](#)<sup>2</sup> textbook, or you can choose a topic from CSU Spur's [CSU Impacto](#)<sup>3</sup>.
- If this is your third case study for the course, you can choose a topic from CSU Spur's [CSU Impacto](#)<sup>4</sup>, or you can pick a topic of your choosing. Your topic should be motivated by a data set that already exists (such as from [Data \(dot\) gov](#)<sup>5</sup> or the [Colorado Information Marketplace](#)<sup>6</sup>).

In your group, answer the following questions regarding your proposed topic. The questions are meant to help you begin thinking towards the requirements of the final presentation rubric.

1. Enter the full names of everyone in your group.
2. Select the primary source of your proposed case study.
  - o Mathematics for Sustainability Textbook
  - o CSU Impacto
  - o Other (please specify):
3. What is the title of your proposed case study?
4. How will you frame the sustainability question or issue being addressed in your proposed case study? What do you anticipate your stance being on the question/issue? Be as specific as possible!

<sup>1</sup>[link.springer.com/book/10.1007/978-3-319-76660-7](http://link.springer.com/book/10.1007/978-3-319-76660-7)

<sup>2</sup>[link.springer.com/book/10.1007/978-3-319-76660-7](https://link.springer.com/book/10.1007/978-3-319-76660-7)

<sup>3</sup>[csuspur.org/csu-impact/](http://csuspur.org/csu-impact/)

<sup>4</sup>[csuspur.org/csu-impact/](http://csuspur.org/csu-impact/)

<sup>5</sup>data.gov/

<sup>6</sup>[data.colorado.gov/](http://data.colorado.gov/)

## 2 Outline Presentation

This is a space to begin answering questions that should be addressed in the presentation in order to meet the requirements of the final presentation rubric. The focus of this outline is to develop the content of your presentation, not the visual representation or time management of your presentation.

Some of the questions may be repeated from the previous activity. Please answer all questions, as some details may have changed for your group over time.

1. Enter the full names of everyone in your group.
2. Select the primary source of your proposed case study.
  - o Mathematics for Sustainability Textbook
  - o CSU Impacto
  - o Other (please specify):
3. Are there secondary sources that you plan to use? If so, list them here.
4. What is the title of your case study?

- 3

8. What concepts from the “Connecting” topics are relevant for your case study? Are there any concepts in this area that we did not discuss in class that you will need to learn more about?
9. What concepts from the “Changing” topics are relevant for your case study? Are there any concepts in this area that we did not discuss in class that you will need to learn more about?
10. What concepts from the “Risking” topics are relevant for your case study? Are there any concepts in this area that we did not discuss in class that you will need to learn more about?

11. What concepts from the “Deciding” topics are relevant for your case study? Are there any concepts in this area that we did not discuss in class that you will need to learn more about?

### 3 Draft Presentation

This is a space to begin integrating the content from your outline into presentation form. The focus of this draft will be to effectively communicate the content from your outline in your presentation, including the visual representation and how you will manage your allotted time between your group members.

1. Enter the full names of everyone in your group.
  
2. What medium will you use for the main delivery of your presentation? Think about what will be most effective for communicating the information you want to share in the time allotted for your group.
  - Blackboard/whiteboard
  - Slideshow (PowerPoint) ([Template<sup>1</sup>](#))
  - Poster (Overleaf) ([Template<sup>2</sup>](#))
  - Other (please specify):
3. Start organizing your content for your chosen medium. In the space below, identify tasks that need to be completed outside of class, or questions needing to be addressed during next class.
  
  
  
  
  
  
  
  
  
  
4. How will you split the presentation between your group members? Provide a tentative schedule for your presentation, including the names of your group member, the portions of the presentation they are responsible for, and the amount of time they have for those portions.

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<sup>7</sup>[brand.colostate.edu/templates/](http://brand.colostate.edu/templates/)

<sup>8</sup>[www.overleaf.com/read/szgcdvtcsvpj#4d4ac4](http://www.overleaf.com/read/szgcdvtcsvpj#4d4ac4)

## 4 Finalize Presentation

This is a space to finalize your presentation by working through the checklist provided. Reference your draft as necessary.

1. Enter the full names of everyone in your group.

2.

- We have finalized our presentation on our chosen medium, or have discussed a plan with our instructor for how to do so before presentation day.
- We have finalized our presentation schedule, and every group member knows what they are responsible for presenting, and how long they have to do so.
- We have scheduled a time to practice our presentation as a group before our presentation day.
- We have checked our final presentation against the final presentation rubric and feel confident that our work will meet our goals for our final score.
- We do not have any questions about the logistics (e.g., projecting a PowerPoint or other use of technology) of how we will present.