# Week 7 Milestone Worksheet

## SECTION A: Before Your Team Meeting

### Step 1: Restate your team's problem statement

Please write **your team's** agreed-upon **problem statement** from Week 6 here:

| Step 1: My Team's Problem Statement |
| --- |
| **Climate change poses a significant threat to ecosystems, economies, and human societies worldwide. Rising temperatures, extreme weather events, and the depletion of natural resources disproportionately impact vulnerable populations. Addressing climate change requires innovative, scalable solutions that both reduce emissions and help communities adapt to its effects.** |

## Step 2: Bad Idea Brainstorm

**BEFORE** you meet with your team, conduct a **Bad Idea Brainstorm** with yourself. **List at least 10 bad ideas** for how you might solve your problem. You can get completely ridiculous.

*For example: Sharks with laser beams in their heads who burn up microplastics in the ocean, bees that telepathically communicate in order to tutor children who don't have access to quality education, etc.*

**The dumber the idea, the better!** The purpose of this is to get your mind open to generating ideas without fear of them being wrong, dumb, or bad. *(Stay in divergent thinking.)* Need help? You can get inspiration from: http://labs.jackpine.co/projects/FirstBadIdea/

**1. A giant inflatable Earth that floats in the sky to block the sun.**

**2. A global team of penguins trained to plant trees in remote areas.**

**3. Giant solar-powered windmills that can be placed in the ocean to absorb CO2.**

**4. A magic machine that turns all fossil fuels into flowers.**

**5. A global ocean spray system that cools the air by creating giant clouds of mist.**

**6. A cloud machine that makes it rain on demand to counteract droughts.**

**7. A worldwide system of giant vacuum cleaners to suck up excess CO2 from the atmosphere.**

**8. A "climate change-freezing" fridge that stores cold air for the planet's benefit.**

**9. Space stations that dump carbon into black holes for good.**

**10. A worldwide eco-friendly "climate change gym" where people work out by generating energy.**

## Step 2: Individual Bad Ideas

1. A network of floating solar farms that use ocean currents to self-position and generate power.
2. A cloud-based platform for global carbon-tracking where individuals and businesses can report their emissions and receive real-time feedback.
3. A machine that converts ocean plastic into clean energy to combat both pollution and climate change.
4. A community-based energy-sharing app where people can trade excess renewable energy.
5. A "carbon footprint" app that links to your home appliances and suggests eco-friendly alternatives in real-time.
6. A solar-powered drone system that helps with reforestation by planting seeds in hard-to-reach places.
7. An algorithm that automatically adjusts cities' air conditioning systems based on real-time environmental data.

## Step 3: Possible ideas

Next, **list at least 5 "possible ideas" to address your problem.** These do **NOT** have to be good ideas. The only constraint is that they should be at least theoretically possible. They should involve some sort of technology (either a piece of software like an app or algorithm or a physical device such as a robotic fish or machine that scans your DNA). You're still in Divergent thinking here, so don't judge your ideas as good or bad.

| Step 3: Individual Possible Ideas |
| --- |
| **1. A world where everyone wears hats that automatically change color when CO2 levels rise.**<br>**2. A robot that goes door-to-door offering free tree planting to offset carbon footprints.**<br>**3. Global weather machines that cool down hot spots by creating giant "cloud blankets."**<br>**4. A virtual reality game that lets people simulate climate change impacts and act as world leaders making decisions.**<br>**5. A fleet of "sunshields" that orbit Earth to block the sun's rays directly.**<br>**6. Sending all CO2 emissions into a black hole in space to "delete" them.**<br>**7. A giant Earth-sized air conditioner built by assembling smaller ones globally.**<br>**8. Trains powered by the enthusiasm of climate change activists.**<br>**9. A "recyclable planet" where everything, including people, gets recycled into new resources.**<br>**10. A yearly global day of "climate freeze," where everyone stops emitting carbon for 24 hours to reset the Earth's systems.** |

**!!! PLEASE BRING THE ABOVE WORK WITH YOU TO YOUR TEAM MEETING.**


**Please go back to Savanna and continue with your learning content. You will be prompted on when to return to complete Section B.**

# SECTION B: Team Meeting Output

## Step 4: Meeting Date, Time, & Location

Please list when and where your team meeting took place.

| Step 4: Meeting Date, Time, & Location |
| --- |
| A. Date:Dec 8 sun<br>B. Time: 8:15 to 10:45<br>C. Location: Abrihot Library |

## Step 5: Meeting Attendees

Please list who attended your team meeting, and their primary role.

| Step 5: Meeting Attendees |
| --- |
| 1.Natnael Tewodros<br>2.Abraham Alemayehu<br>3. Eleni Ayalew<br>4. Kenenisa jaleta<br>5.Fenet Leta<br>6. Lidiya Endale |

## Step 6: Bad Idea Brainstorm (Team)

Everyone should share several of their previously bad ideas from Step 2 above. Then as a team, you must **generate at least 10 more new bad ideas.**

*Remember, the dumber the idea, the better!* This is to help you work as a team to be non-critical.  after every idea is shared.

| Step 6: Bad Ideas (Team) |
| --- |
| **1. A world where everyone wears hats that automatically change color when CO2 levels rise.** |
| **2. A robot that goes door-to-door offering free tree planting to offset carbon footprints.** |
| **3. Global weather machines that cool down hot spots by creating giant "cloud blankets."** |
| **4. A virtual reality game that lets people simulate climate change impacts and act as world leaders making decisions.** |
| **5. A fleet of "sunshields" that orbit Earth to block the sun's rays directly.** |
| **6. Sending all CO2 emissions into a black hole in space to "delete" them.** |
| **7. A giant Earth-sized air conditioner built by assembling smaller ones globally.** |
| **8. Trains powered by the enthusiasm of climate change activists.** |
| **9. A "recyclable planet" where everything, including people, gets recycled into new resources.** |
| **10. A yearly global day of "climate freeze," where everyone stops emitting carbon** |

**for 24 hours to reset the Earth's systems.**

## Step 7: Possible ideas (Team)

Next, everyone should **share at least 2 of their possible ideas from Step 3 above.** Your team then needs to come up with at least **5 new "possible ideas" to address your problem.** The only constraint is that they should involve some sort of technology (either a piece of software like an app or algorithm, or a physical device such as a robotic fish or machine that scans your DNA.

You're still in Divergent thinking here, so don't judge any ideas as good or bad. Again, it helps to say **"thank you"** after every idea is shared.

| Step 7: Possible Ideas (Team) |
| --- |
| **1. A self-sustaining city model that uses vertical gardens, renewable energy, and water conservation systems to counteract climate change.**<br>**2. A mobile app that connects people to local green initiatives, offering rewards for climate-conscious behavior like planting trees or using less energy.**<br>**3. An eco-friendly building material made from recycled plastic waste that can absorb CO2.**<br>**4. A system of smart grids that adjusts energy use across cities in real-time to reduce carbon emissions and optimize efficiency.**<br>**5. A marketplace for trading renewable energy credits between individuals and small businesses.**<br>**6. A global eco-friendly transportation app that incentivizes carpooling, electric vehicles, and cycling.**<br>**7. A drone swarm that can detect forest fires early and deploy firefighting measures automatically.** |

## Step 8: Narrowed Ideas

Your next task is to **narrow your choices,** which will put you in a **convergent thinking mindset.** You should discuss and debate this and try to reach a consensus on **3 ideas for a solution** (or partial solution) to your problem that your team will consider working on for the rest of Month 2. These ideas can be totally new, the same, or variations from ideas you've already come up with.

Remember that they should involve some sort of technology *(either a piece of software like an app or algorithm, or a physical device such as a robotic fish or machine that scans your DNA).*

You will not have to build the solution out. But you will have to create some type of basic prototype (if it is a device) or a set of wireframes (if it is an app/software). You will not have to actually create the technology or code.

| Step 8: Top 3 Ideas (Team) |
| --- |
| **1.AI-Driven Smart Agriculture App**<br><br>**2. Autonomous Ocean-Cleaning Robot**<br><br>**3.Carbon-Storing Pavement** |

## Step 9: Selected Solution

Lastly, your team must agree on one idea for a solution (or partial solution) that you will work on for the rest of Month 2.

Remember, the solution should involve some sort of technology and be possible to create—but feel free to make it very ambitious! You will have to create some type of basic prototype (if it is a device) or a set of wireframes (if it is an app/software). You will not have to actually create the technology.

*You must find a fair way to reach a consensus with your group, including a discussion in which everyone's voice can be heard.*

| Step 9: Team's Final Selected Solution Idea |
| --- |
| **Ocean Cleaning Robot**<br>**Reason: Combines innovation, environmental impact, and technological feasibility** |

## Step 10: Action Items

In your meeting for Week 8, you will need to share work on a **prototype** or **wireframes**. Please list out here what specific people will do to contribute to this before the next meeting.

| Step 10: Action Items |
| --- |
| **PERSON / COMMITTED**<br>**1.Research and Conceptualization: Natnael Tewodros, Abraham Alemayehu**<br>**2.Wireframe/Design Development: Eleni Ayalew, Lidiya Endale** |

**3.Prototype Sketch/3D Model: Kenenisa Jaleta, Fenet Leta**

**4: Presentation Preparation: Natnael Tewodros, Lidiya Endale**

**5: Feedback and Revisions: Entire Team**

## SECTION C: Reflections

### Step 11: Team Roles

Relist your team members' names and their primary roles.

| Step 11: All team members & their roles |
| --- |
| **1.Natnael Tewodros — Project Manager (primary); Data Analyst (backup)** |
| **2.Eleni Ayalew & Fenet Leta — Product Manager (primary); UX/UI Designer (backup)** |
| **3. Lidiya Endale - Kenenisa jaleta** |
| **Research Lead (primary); AI Specialist (backup)** |
| **4.Abraham Alemayehu** |
| **Technical Lead (primary); Web Developer (backup)** |

## Step 12: Reflections

Please share your personal reflections on your experience with your team so far.

### Step 12: Team Process Reflection

**A. What is working well with your team?**

**Answer: Everyone participated actively in the meeting. Clear roles were assigned, and everyone is clear on their responsibilities**

**B. What is one good thing that happened during your team meeting?**

**Answer: We successfully agreed on a solution and assigned tasks to each team member.**

**C. What is one thing your team could do better in the next meeting?**

**Answer: One thing our team could do better in the next meeting is to start on time to ensure we stay focused and productive.**

**D. Are you experiencing any concerns or frustrations with your team? If yes, what can you personally do to lessen the concern/frustration?**

**Answer: Yes, I'm a bit concerned about meeting deadlines. I can help by setting clear timelines and regularly checking in with the team to ensure progress.**

**E. How would you rate your ability to communicate with your team members on a scale of 1 to 4? (1=extremely poor and 4=excellent)**

**Answer: 3**

**F. Overall, how satisfied are you with how well your team is working together? (On a scale of 1 to 4, with 1=extremely poor and 4=excellent)**

**Answer: 2**

**G. Is there anything else you'd like to share about your team and their process?**

**Answer: I really value the team's teamwork, creativity, and different perspectives. It makes the project enjoyable and effective**

## Once you have completed this worksheet:

1. Export/convert to .pdf.
2. Rename it per the instructions.
3. Upload to Savanna as your Milestone 7 Submission.
4. **Celebrate a job well done!**