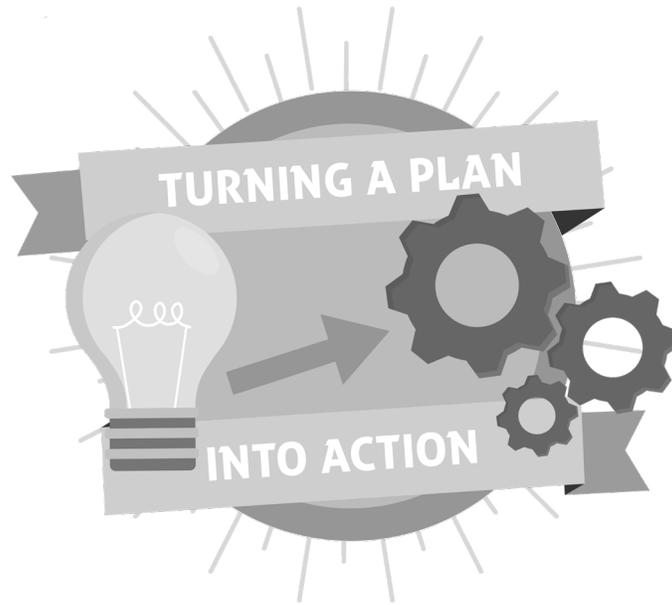


EXAMPLE PROJECT

Water Conservation



Data Jam

1. What problem are you trying to solve?

Residential water use has been increasing since 2005.

2. Who is the target audience you need to reach to bring about change?

Residential water use includes golf courses, so I will focus on golf course managers and golfers who can encourage the golf course to conserve water.

3. Do some research on how other people may have addressed the problem you identified. Brainstorm solutions and list three potential ideas you could design, build, or create. One of these might be the solution you proposed in your Water Conservation Data Jam project Report.

a. Some golf courses are planting types of grass that require less water to grow. I could research this and make a flyer for golf course managers.

b. Many golf courses have been designed so that the areas surrounding the fairways and greens are left in a natural state with native plants that don't require much extra watering. I could work with the Native Plant Society to make a video about this solution for golfers.

c. Rooftop rainwater harvesting systems could be put on the clubhouse and other buildings around the golf course. Water collected in these systems could be used to water the area of the golf course near the buildings. I could research and make an informational poster about the benefits of rainwater harvesting systems, including how much money could be saved, and show it to golf course employees and golfers.

EXAMPLE PROJECT

4. What constraints (or limiting factors) are important to consider when creating your solution (i.e., cost, safety, time, access to materials, etc.)? Fill out the T-chart to analyze the constraints that may affect each of the solutions you listed in question 3. Then, circle the solution you listed in question 3 that you think is the most feasible.

POSSIBLE CONSTRAINT	HOW WOULD THIS AFFECT MY SOLUTION IDEAS?
<i>Cost</i>	<i>If the solution is expensive, golf courses won't do it.</i>
<i>Time</i>	<i>I need to show how the solution might save time for the golf course.</i>
<i>Safety</i>	<i>The solution needs to be safe for golfers using the course.</i>

5. How will you know that your solution is successful? List one or two measurable criteria you can use to determine success.

- a. I give my informational poster about rooftop rainwater harvesting systems to a golf course manager and get her/him to consider rooftop rainwater harvesting systems.*
- b. A golf course installs a rooftop rainwater harvesting system and reduces their water use over time.*

6. Create your solution. For example, you could build a prototype or model, or you could make a graphic or public service announcement. If your solution is a prototype or model, take a photo of your solution, and submit it as a separate attachment. Write a descriptive caption for your project below. For a public service announcement, make sure to include: (1) the main idea of your solution, (2) key points, (3) a memorable title, and (4) a catchphrase.

Descriptive captions for projects should be written here, and photos should be submitted separately.

EXAMPLE PROJECT

7. Test your solution and report your results here. Did you meet the criteria for success you listed in question 5? What worked well? What could have gone better?

I talked with the manager of a local golf course. She asked me if a rooftop rainwater harvesting system could be installed by their grounds crew or if they would need to hire someone else to install and maintain it. I didn't know the answer to this question, so I did more research and called her to let her know that the systems are simple and can be installed by people with basic construction experience.

This golf course installed a small rain barrel system as a test of the concept near one of the side doors. They added a sign telling golfers what it was. The manager said that a lot of golfers have talked to her about it and seem very interested. She is considering adding a larger system.

8. Imagine you received a grant for \$1,000 and also had unlimited time. With the constraints of money and time removed, describe changes you would make to your solution.

I'd hire a graphic designer to make the flyer look amazing. I would also write to rainwater harvesting system companies to see if they would donate their systems or give us a big discount to encourage more golf courses to install the systems.