Solving for the SDGs

Workshop Prep & Objectives

Prep time: 10 – 15 minutes

The workshop aims to analyze the indivisible whole of the United Nations Sustainable Development Goals, understand the nature of the interlinkages, and then provide practical and user-friendly tools to help achieve the goals. The workshop will focus students on transformative thinking, momentum, and action through the utilization of framing tools that help identify, define, and solve for the greater sustainability challenges of our time.

1. **Display the lesson slides for the class and create a discussion about what they already know about the UN SDGs and introduce key framing tools to identify and define problems and their solutions.** Ask students the guiding questions in the PowerPoint slide notes.

2. The workshop activity is best to do on a **large whiteboard or a posterboard using sticky notes and** can easily be displayed to allow for groups to work together in an open discussion.

3. **Follow the instructions** in the lesson on how to create a problem/solutions tree and how the situation relates to the SDGs. The slide notes at the bottom of each slide will have instructions on how to create the problem/solutions tree.

SDG & Curriculum Alignment

Prep time: 10 – 15 minutes

Key Learning Outcomes and Curriculum Alignment:

- **English Language Arts and Literacy:** Participate in collaborative conversations with diverse partners about topics and texts. Follow agreed-upon rules for discussions. Use words and phrases acquired through conversations, reading and being read to, and responding to texts. Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning.
- **Social Studies - People, Places, and Environments:** The study of people, places, and environments enables us to understand the relationship between human populations and the physical world.
- **Science - Earth and Human Activity:** Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. Things that people do can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things.

SDG Alignment

Flexible and adaptive lesson

Lesson plans are designed to be flexible and responsive to the evolving needs of your classroom. Lessons are editable and customizable to meet the different individual student and classroom contexts. A PowerPoint version with teacher instructions and a printable PDF lesson are available for download.

The Workshop

Lesson duration: 45 - 60 minutes

1. **Split into groups of 3-5** and prepare a posterboard or whiteboard with sticky notes for the exercise.

2. **Pick one of the scenarios from the "SDG Challenges"** form to use for the problem/solution tree exercise.

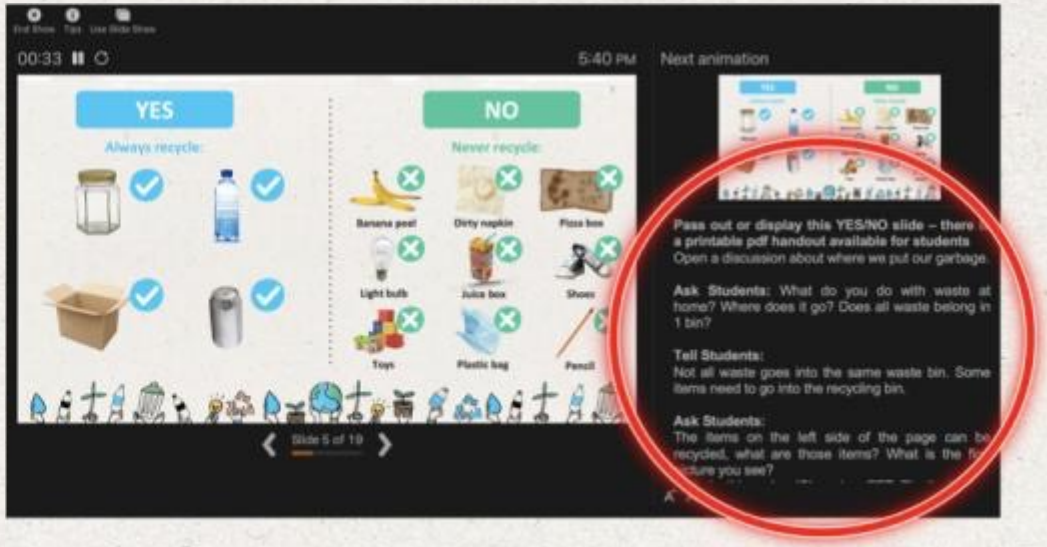
3. **Begin to map out the problem/solution tree** in groups and apply one or more of the SDGs to the problem/solution they identify for their SDG challenge.

4. **When finished with the problem/solutions tree** have the groups define their solutions pathway with a "solutions statement" they think will best solve for the core problem and contribute to the SDGs. Have the groups present their findings to the rest of the class.

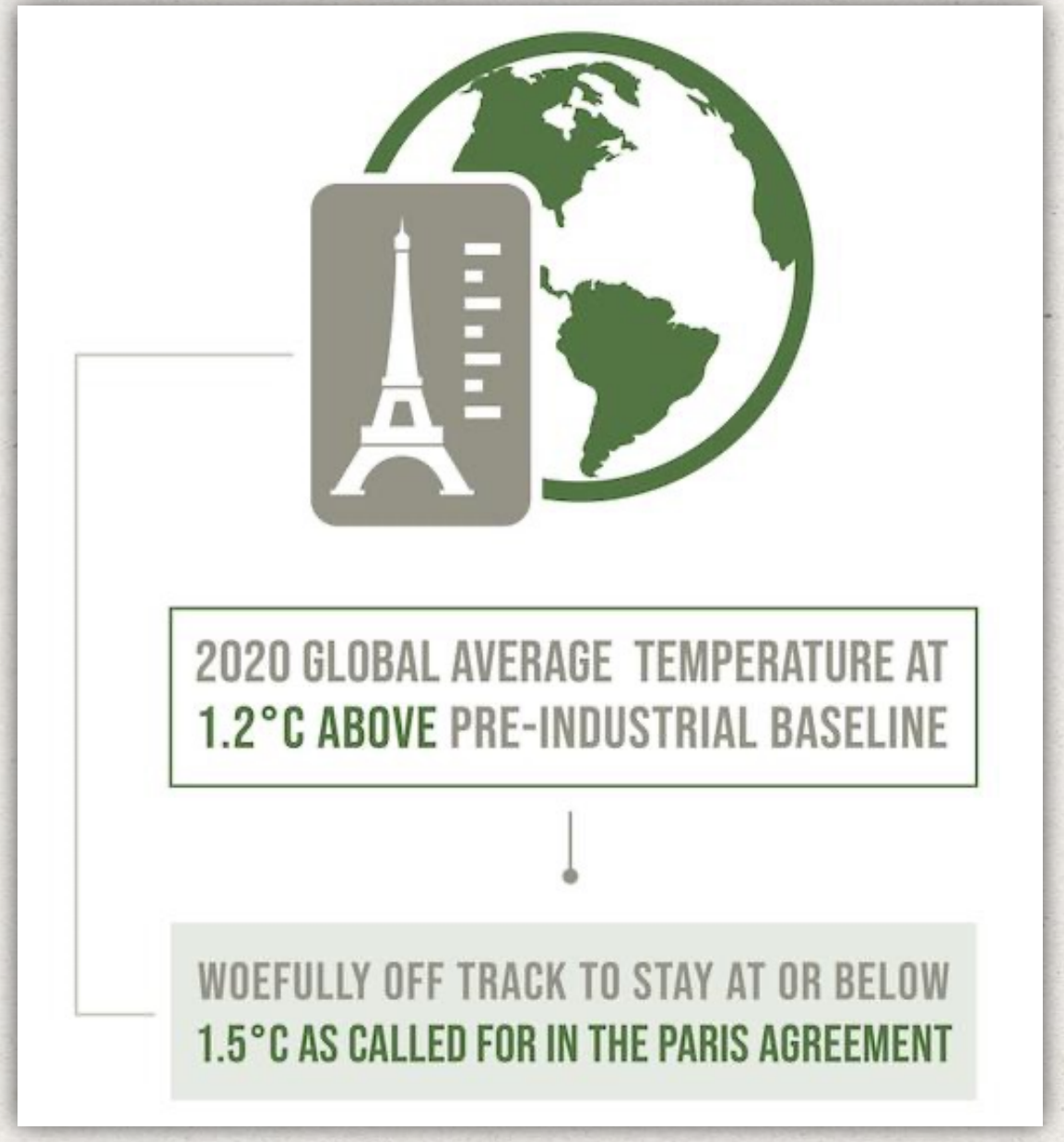
Prepare the PowerPoint presentation

When you are ready to present the lessons to your class click on **Slide Show** on the top menu bar then select **Presenter View.** In Presenter view, you can see your notes as you present while the audience see only your slides.

The notes appear in a pane on the right. The text should wrap automatically, and a vertical scroll bar appears if necessary. You can also change the size of the text in the Notes pane by using the two buttons at the lower left corner of the Notes pane.




There is
NO Planet B



THE CLIMATE CRISIS CONTINUES, LARGELY UNABATED

THE

GLOBAL POVERTY RATE

IS PROJECTED TO BE

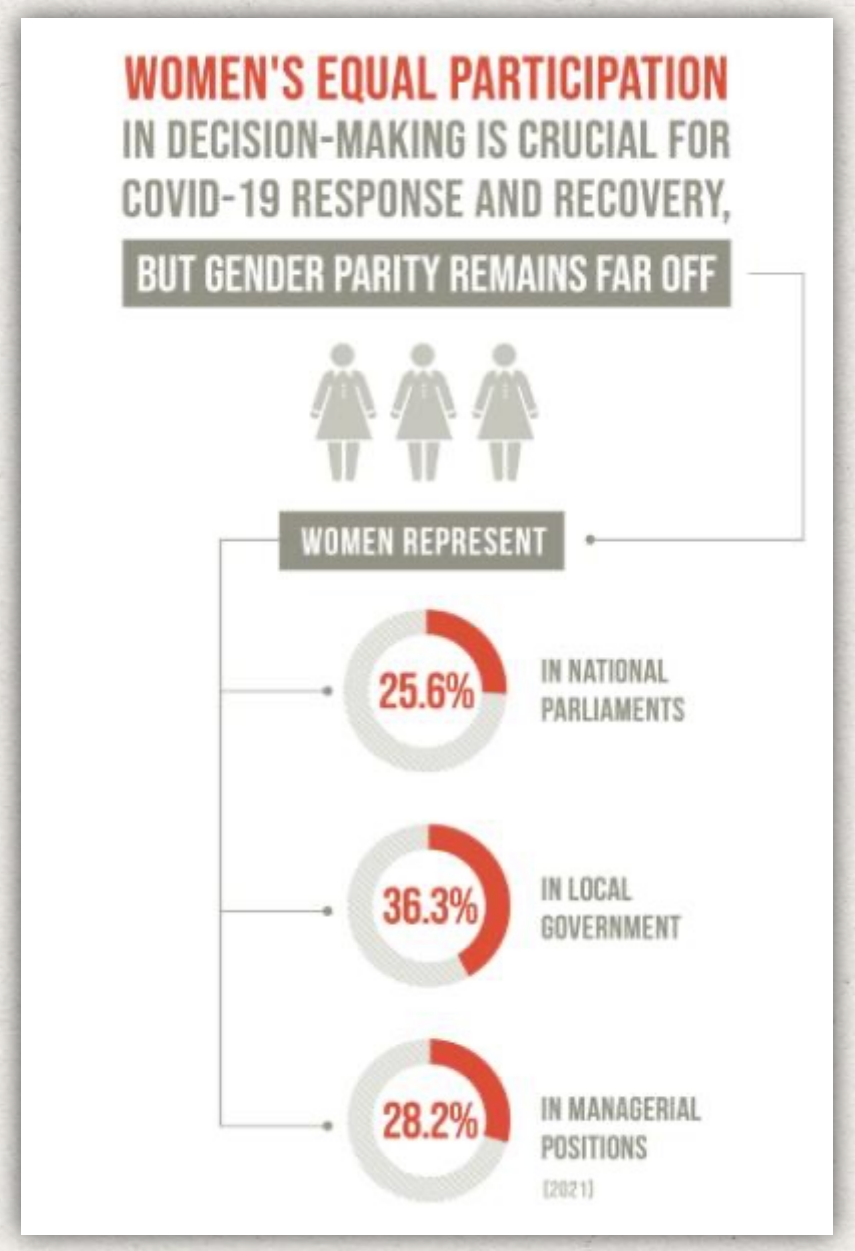
7% IN 2030

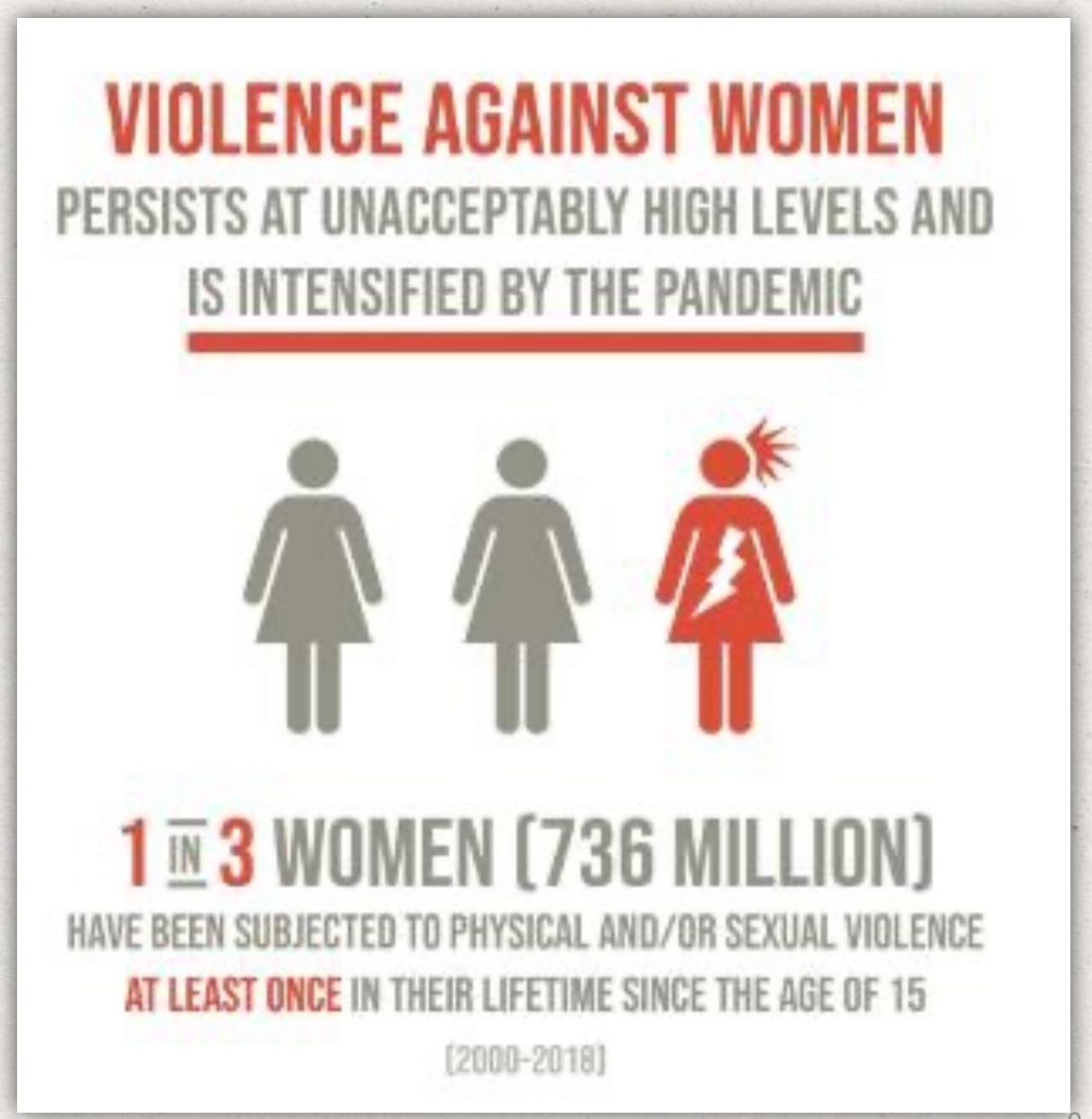
MISSING THE TARGET
OF ERADICATING POVERTY

FIRST RISE IN EXTREME POVERTY

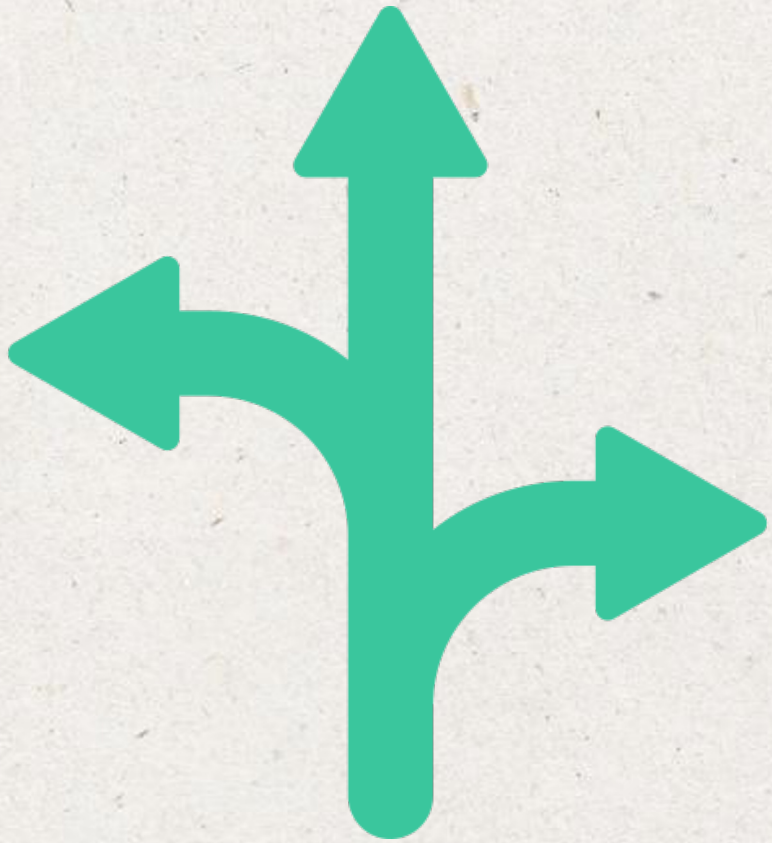
IN A GENERATION

AN ADDITIONAL **119-124 MILLION PEOPLE** WERE
PUSHED BACK INTO **EXTREME POVERTY** IN **2020**


WOMEN'S EQUAL PARTICIPATION
IN DECISION-MAKING IS CRUCIAL FOR COVID-19 RESPONSE AND RECOVERY,
BUT GENDER PARITY REMAINS FAR OFF
WOMEN REPRESENT
25.6%
IN NATIONAL PARLIAMENTS
36.3%
IN LOCAL GOVERNMENT
28.2%
IN MANAGERIAL POSITIONS
(2021)


VIOLENCE AGAINST WOMEN
PERSISTS AT UNACCEPTABLY HIGH LEVELS AND IS INTENSIFIED BY THE PANDEMIC
1 IN 3 WOMEN (736 MILLION)
HAVE BEEN SUBJECTED TO PHYSICAL AND/OR SEXUAL VIOLENCE
AT LEAST ONCE IN THEIR LIFETIME SINCE THE AGE OF 15
(2000-2018)

HOW TO CHANGE




1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
THE GLOBAL GOALS
For Sustainable Development
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE AND JUSTICE STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS


PEOPLE
"We are determined to end poverty and hunger, in all their forms and dimensions, and to ensure that all human beings can fulfill their potential in dignity and equality and in a healthy environment."
PROSPERITY
"We are determined to ensure that all human beings can enjoy prosperous and fulfilling lives and that economic, social and technological progress occurs in harmony with nature."
SUSTAINABLE DEVELOPMENT GOALS
PLANET
"We are determined to protect the planet from degradation, including through sustainable consumption and production, sustainably managing its natural resources and taking urgetn action on climate change, so that it can support the needs of the present and future generations."
PEACE
"We are determined to foster peaceful, just and inclusive societies which are free from fear and violence. There can be no sustainable development without peace and no peace without sustainable development."
PARTNERSHIP
"We are determined to mobilize the means required to implement this Agenda through a revitalized Global Partnership for Sustainable Development, based on a spirit of strengthened global solidarity, focused in particular on the needs of the poorest and most vulnerable and with the participation of all counties, all stakeholders and all people."

169 Targets

Go into detail on exactly what needs to be achieved across social, environmental, and economic aspects

230 Indicators

Highlight key data sets for governments to monitor with a view to achieving the goals

14.1	By 2025, prevent and significantly reduce marine pollution of all kinds.
14.2	By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts.
14.3	Minimize and address the impacts of ocean acidification including through enhanced scientific cooperation at all levels.
14.4	By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices.
14.5	By 2020, conserve at least 10 per cent of coastal and marine areas.
14.6	By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing.
14.7	By 2030, increase the economic benefits to Small Island developing States and least developed countries from the sustainable use of marine resources.
14.a	Increase scientific knowledge, develop research capacity and transfer marine technology
14.b	Provide access for small-scale artisanal fishers to marine resources and markets
14.c	Enhance the conservation and sustainable use of oceans and their resources by implementing international law as reflected in United Nations Convention on the Law of the Sea

14.1.1	Index of coastal eutrophication and floating plastic debris density
14.2.1	Proportion of national exclusive economic zones managed using ecosystem-based approaches
14.3.1	Average marine acidity (pH) measured at agreed suite of representative sampling stations
14.4.1	Proportion of fish stocks within biologically sustainable levels
14.5.1	Coverage of protected areas in relation to marine areas
14.6.1	Progress by countries in the degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing
14.7.1	Sustainable fisheries as a percentage of GDP in small island developing States, least developed countries and all countries
14.A.1	Proportion of total research budget allocated to research in the field of marine technology
14.B.1	Progress by countries in the degree of application of a legal/regulatory/policy/institutional framework which recognizes and protects access rights for small-scale fisheries
14.C.1	Number of countries making progress in ratifying, accepting and implementing through legal, policy and institutional frameworks, ocean-related instruments that implement international law, as reflected in the United Nation Convention on the Law of the Sea, for the conservation and sustainable use of the oceans and their resources.


16. Peace & Justice, Strong Institutions
1. No Poverty
2. Zero Hunger
3. Health & Wellbeing
4. Quality Education
5. Gender Equality
6. Clean Water & Sanitation
7. Affordable & Clean Energy
8. Decent Work & Economic Growth
9. Industry, Innovation & Infrastructure
10. Reduced Inequalities
11. Sustainable Cities & Communities
12. Responsible Consumption & production
13. Climate Action
14. Life below Water
15. Life on Land
17 PARTNERSHIPS FOR THE GOALS


13 CLIMATE ACTION
14 LIFE BELOW WATER
7 AFFORDABLE AND CLEAN ENERGY
15 LIFE ON LAND
Environmental
6 CLEAN WATER AND SANITATION
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
8 DECENT WORK AND ECONOMIC GROWTH
11 SUSTAINABLE CITIES AND COMMUNITIES
17 PARTNERSHIPS FOR THE GOALS
1 NO POVERTY
16 PEACE, JUSTICE AND STRONG INSTITUTIONS
5 GENDER EQUALITY
Social
Economic
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
10 REDUCED INEQUALITIES
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE


How do we achieve the SDGs and ensure no one is left behind?

The Problem Tree

Effect

Causes

Negative Statements

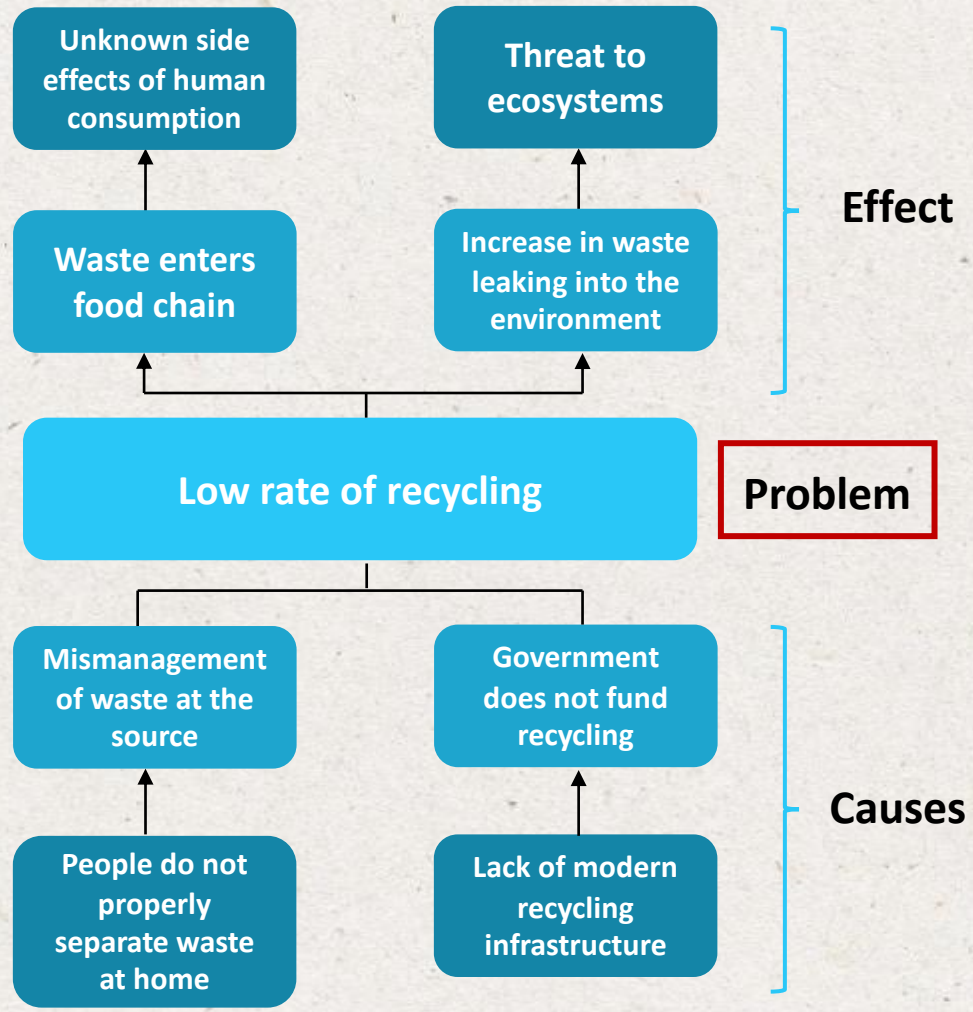
Solutions Tree

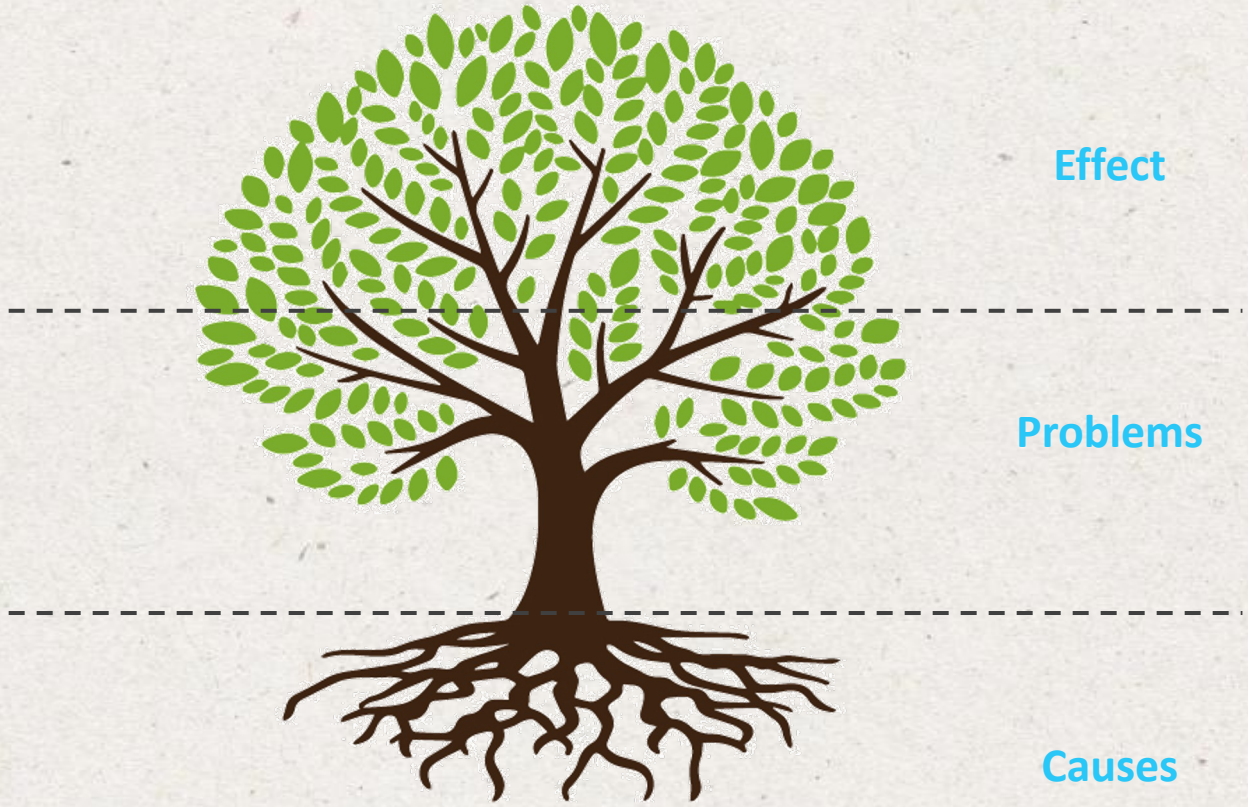
Ends

Means

Positive Statements

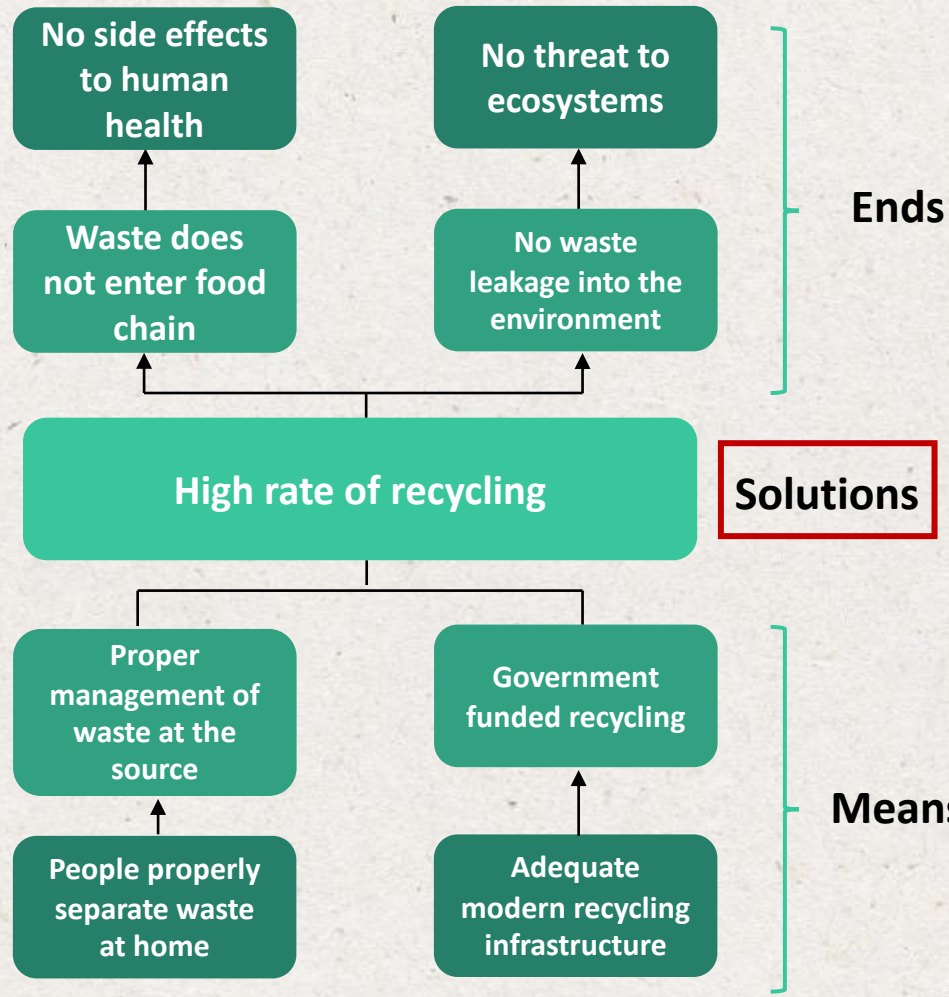
The Problem Tree

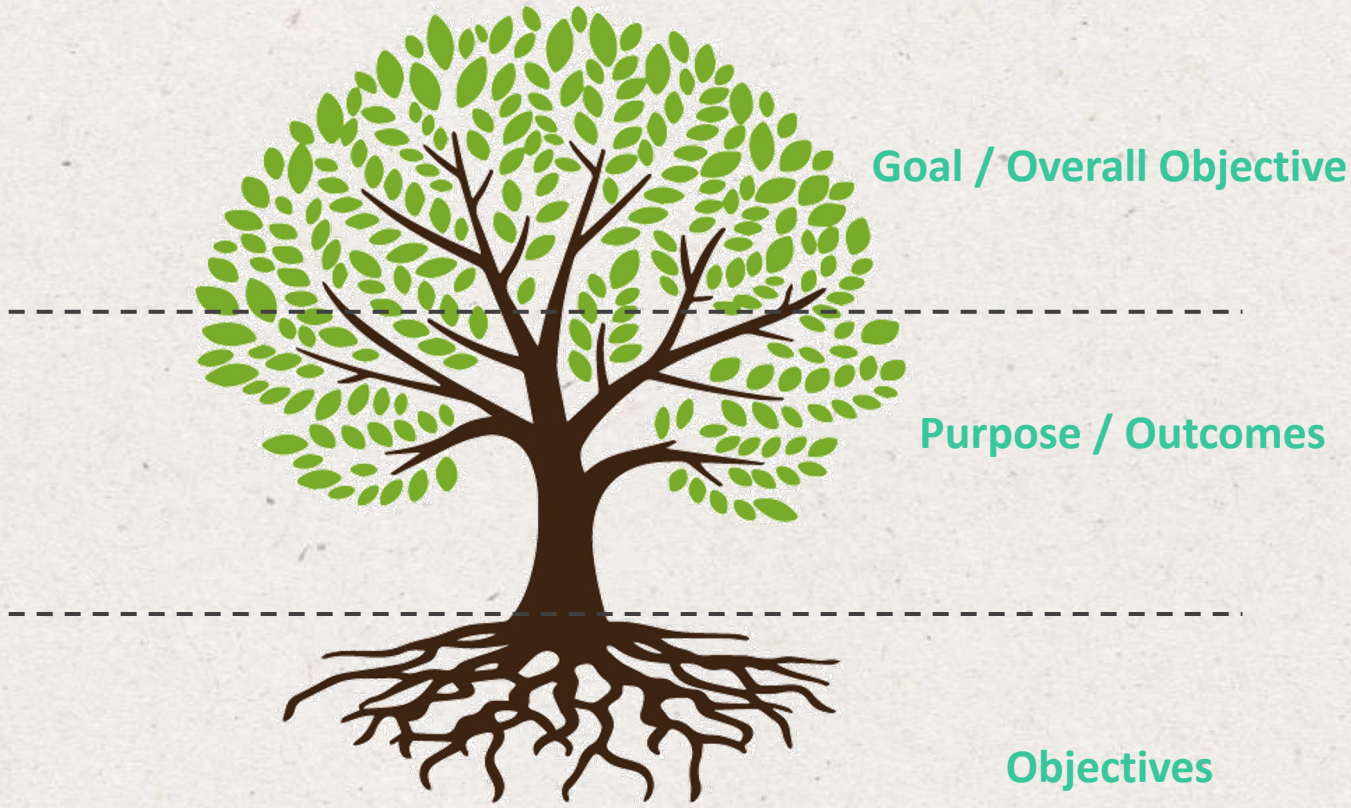




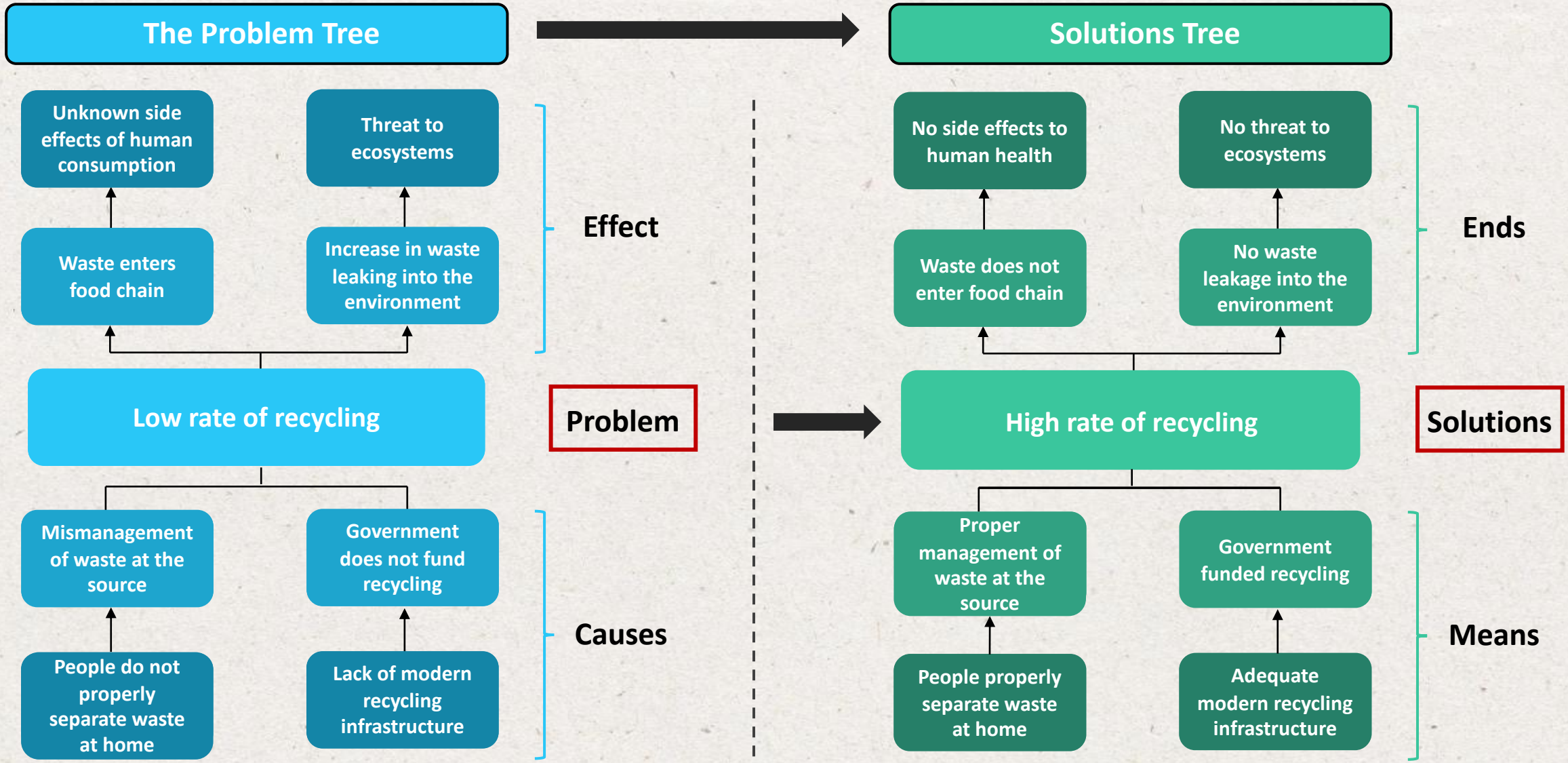
Problem Statement (Negative): There is a low rate of recycling.

Solutions Tree





Solution Statement (Positive): There is a high rate of recycling.

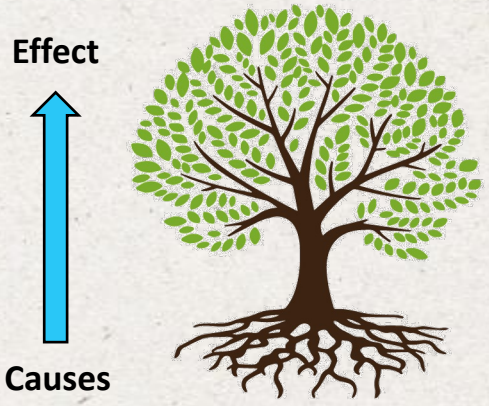


Problem Statement (Negative):
There is a low rate of recycling.

Solution Statement (Positive):
There is a high rate of recycling.

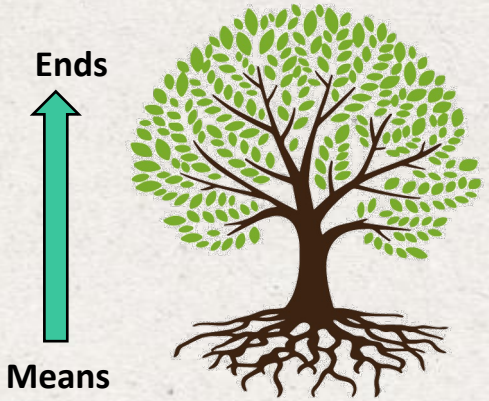
1. **Choose a sustainability challenge scenario from the handout**

2. **Create a problem tree and define the problem**



Negative Statements

3. **Create an objective tree and define the solution**



Positive Statements

4. **Select a preferred intervention and connect it to the SDGs it addresses**