

INNOVATE4IMPACT

TECHNOLOGY SOLUTION PLAN

From Problem to Technology-Based Solution

Students first identify an SDG challenge, gather evidence, then use this plan to develop their technology solution before moving into **prototype building, testing, business modelling and pitching**.

Team Name: _____

SDG: _____

Project Title: _____

1. OUR PROBLEM

What problem are we trying to solve?

Who experiences this problem?

Where does the problem occur?

Why does this problem matter?

2. OUR EVIDENCE

What evidence shows that this is a real problem?

- ☐ Survey
- ☐ Interview

- ☐ Observation
- ☐ Statistics
- ☐ Online research
- ☐ Expert advice
- ☐ Community feedback
- ☐ Other: _____

Key evidence:

1.

2.

3.

3. OUR CHALLENGE QUESTION

Complete the sentence:

How might we _____ so that
_____?

Our final challenge question:

4. OUR TECHNOLOGY IDEA

What technology-based solution are we proposing?

What will our solution do?

What makes our idea different or better?

5. TECHNOLOGY CHECK

Which technologies could we use?

- ☐ Artificial Intelligence (AI)
- ☐ Mobile App
- ☐ Website/Web Platform
- ☐ Robotics
- ☐ Sensors/Internet of Things (IoT)
- ☐ Data Analytics
- ☐ Machine Learning
- ☐ Digital Mapping/GIS
- ☐ Renewable Energy Technology
- ☐ 3D Printing
- ☐ Virtual/Augmented Reality
- ☐ Other: _____

Why is this technology appropriate?

6. HOW WILL IT WORK?

Describe the solution step by step.

Step 1

Step 2

Step 3

Step 4

Step 5

7. OUR USERS

Who will use our solution?

What do they need?

What might make the solution difficult for them to use?

How will we make it accessible and easy to use?

8. SOLUTION SKETCH

Draw your solution below.

Show:

- What it looks like
- How users interact with it
- Where technology is used
- How it solves the problem

[DRAW / DESIGN AREA]

9. OUR MINIMUM VIABLE PRODUCT (MVP)

We do not need to build the complete solution immediately.

What is the simplest version we can create and test?

Our MVP could be:

- ☐ Prototype
 - ☐ App mock-up
 - ☐ Website prototype
 - ☐ Working model
 - ☐ Robot
 - ☐ AI demonstration
 - ☐ Digital campaign
 - ☐ Data dashboard
 - ☐ Physical product
 - ☐ Other: _____
-

10. TESTING OUR IDEA

Who will test our solution?

What will we ask them?

1.

2.

3.

What will we measure?

What would make us improve or change the solution?

11. IMPACT PLAN

What change do we want to create?

Who will benefit?

How will their lives, community or environment improve?

What will we measure?

Impact Area	What will we measure?
People	
Environment	
Community	

Economic	_____
Behaviour	_____

12. COMMUNITY ACTION & CAMPAIGN

Technology alone may not solve every problem.

What community action could support our solution?

Could we run a campaign?

- ☐ Social media campaign
- ☐ School campaign
- ☐ Community event
- ☐ Awareness campaign
- ☐ Recycling/clean-up activity
- ☐ Fundraising
- ☐ Advocacy
- ☐ Other: _____

Our campaign message:

How will we use media to create awareness?

- ☐ Video
- ☐ Social media
- ☐ Website
- ☐ Podcast
- ☐ Poster/graphics
- ☐ News/media
- ☐ School/community presentation

13. BUSINESS & SUSTAINABILITY

Who would pay for or support the solution?

Possible customers or partners:

How could the solution generate income or funding?

How will we keep the solution running after the competition?

14. RISKS & RESPONSIBLE TECHNOLOGY

What could go wrong?

Risk	How will we address it?

Does our solution need to consider:

- ☐ Data privacy
- ☐ Online safety

- ☐ AI ethics
 - ☐ Accessibility
 - ☐ Environmental impact
 - ☐ Cost
 - ☐ Digital inclusion
 - ☐ Security
 - ☐ Other: _____
-

15. OUR SOLUTION PITCH

Complete the five-sentence pitch:

The Problem

We discovered that...

The People

This affects...

The Solution

Our technology will...

The Impact

This will help to...

The Difference

Our solution is different because...

16. TEAM READINESS CHECK

Before presenting our solution, can we answer YES?

Question	Yes/No
Is the problem real?	☐
Do we have evidence?	☐
Have we identified the users?	☐
Does technology have a clear purpose?	☐
Have we developed a prototype/MVP?	☐
Have we tested our idea?	☐
Have we considered feedback?	☐
Can we measure our impact?	☐
Have we considered sustainability?	☐

Have we considered responsible technology?	☐
Have we planned community action?	☐
Have we created a media/campaign strategy?	☐

FINAL QUESTION

If our solution succeeds, what will be different in the world?

OUR GOAL:

Problem → Technology → Action → Impact

Innovate4Impact: Young Minds. Bold Ideas. Technology for Impact.