

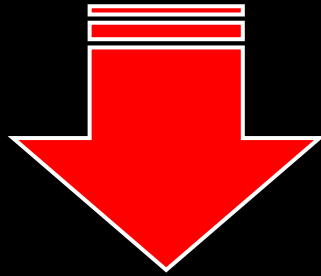


# AI Hackathon

**THE CHALLENGE**

# We have 5 years to go!

*We, the Heads of State and Government and High Representatives, meeting at the United Nations Headquarters in New York from 25-27 September 2015 as the Organization celebrates its seventieth anniversary, have decided today on new global Sustainable Development Goals.....*



*.....Paris, France, 17 June 2024. None of the seventeen Sustainable Development Goals (SDGs) are on track to be achieved by 2030, and only an estimated 16% of the SDG targets are progressing.*



**On average, globally, only 16% of the SDG targets are on track to be achieved by 2030, with the remaining 84% demonstrating limited or a reversal of progress**

## Problems to Solve 2025

Teams can choose to solve a problem from any of the 5 UN SDG categories

You can choose your own problem to solve or use one of our suggestions as inspiration.

Focus on something achievable in the time that you have.

**Key:** Your problem to solve and how it relates to the UN SDGs must be clearly articulated - and the solution must address that problem.

## Problems to Solve categories

### People

We are determined to end poverty and hunger, in all their forms and dimensions, and to ensure that all human beings can fulfil their potential in dignity and equality and in a healthy environment.

### Planet

We are determined to protect the planet from degradation, including through sustainable consumption and production, sustainably managing its natural resources and taking urgent action on climate change, so that it can support the needs of the present and future generations.

### 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.

### 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 revitalised Global Partnership for Sustainable Development, based on a spirit of strengthened global solidarity, focussed in particular on the needs of the poorest and most vulnerable and with the participation of all countries, all stakeholders and all people.

## Problems to Solve 2025

This deck is full of ideas for problems to solve and how AI might be used.

You can:

- use these as inspiration or bring your own passion project
- join or form a team around a problem to solve on Day 1
- form a team with others and agree a problem to solve ahead ahead of the event – you must disclose any work you have done before Day 1 of the Hack

Do you have your own problem to solve but **would like some help** finding a subject matter expert or the right datasets?

**Ask in the Q&A [here](#)**



# AI Hackathon

**HARNESSING AI FOR SOCIAL GOOD –  
POTENTIAL USE CASES**

*You are welcome use these examples  
to build your own problem to solve /  
solution ideas – or think of your own*

The logo for AI Hackathon features a series of stylized, overlapping shapes in shades of green and blue, resembling a network or a cluster of data points, positioned above the word "Hackathon" in a bold, green, sans-serif font.

# Hackathon



## PEOPLE

As a nation we are known for our quality food exports, yet **we struggle to feed our own people** and our nutrition levels remain stubbornly low.

Inspiration:  
[ReFood](#)



# Hackathon

## Kaitiakitanga



Embracing our connection to the land and surrounding natural environment fulfilling our roles as custodians.

## PLANET

**There is no technology without the environment** - How can we use these toolsets to help us embrace our connection to the land and surrounding natural environment fulfilling our roles as custodians.

<https://www.spira.nz/spira-store/p/re-food-by-emily-king>

Te Korowai o Waiheke

Muriwai Environmental Trust



The logo graphic for the AI Hackathon, featuring a stylized 'X' shape composed of various colored dots and lines in shades of green and blue.

# Hackathon



## PROSPERITY

**Upskilling** and reskilling our workforce in AI and related technologies can be the key to career mobility and better quality of life - how do we answer through engagement with a broader audience and surfacing all the resources that are out there?

**Accessibility:** AI has the potential to exacerbate the existing digital divide that exists - how do we address universal accessibility and enable the Te Tiriti claim: Wai 3311

Inspiration:  
[Fibre Fale](#)



The logo for AI Hackathon, featuring a stylized 'X' made of green and blue dots and lines, followed by the word 'Hackathon' in a green, sans-serif font.

# Hackathon



## PEACE

How can technology help us to bring communities together around common goals, heal rifts, improve inclusion and equity?



# Hackathon



## PARTNERSHIP

How do we use technology to help us work together across borders to achieve these goals?

Think about knowledge sharing, capability sharing, collaboration



# AI Workshopathon

## HARNESSING AGENTIC AI FOR SOCIAL GOOD

### – POTENTIAL USE CASES

*You are welcome use these examples  
to build your own problem to solve /  
solution ideas – or think of your own*



# Imagine a Future Transformed by Agentic AI

- AI that understands your needs perfectly
- Seamless interactions that feel personalised
- Communities united through innovative technology
- Solving real-world issues with creative solutions

*Don't just do things better – do **BETTER** things!*





## PEOPLE

# Streamlining public service delivery

Think about:

- Personal agent for victims, witnesses and the accused going through the court system
- Personal agent for patients going through the complex public health systems
- Personal agent helping people deal with grief - the complexities of immediate needs and the ongoing impact of losing a loved one





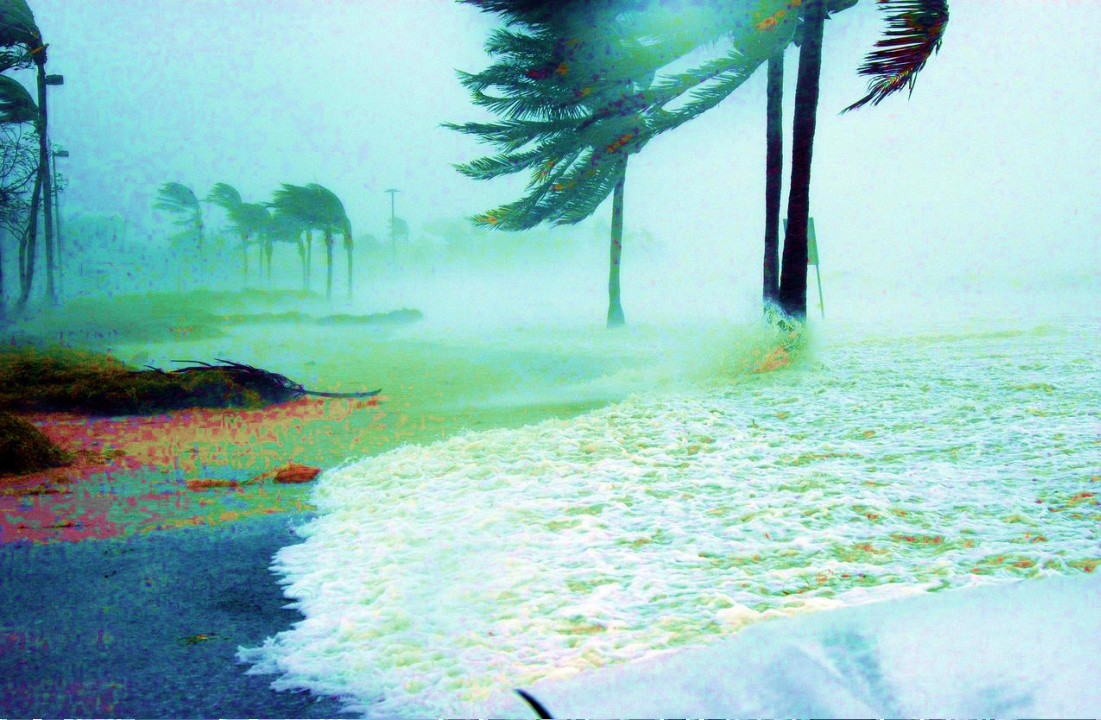
# PROSPERITY

## Improving accessibility for marginalised communities

### Think about:

- personalised learning experiences – not just education, but also everyday things.
- real-time translation and interpretation services





# PLANET

## Enhance crisis decision-making and WARNINGS

Think about:

- **Real-time Flood Warning Systems:** AI-driven systems like Auckland's MOATA real-time flood warning system provide timely and accurate information about potential flooding events. Agentic AI could help authorities use this information in better and faster - issuing evacuation orders or deploying emergency services
- **Disaster Response Coordination:** AI can analyse vast amounts of data from various sources, including social media, satellite imagery, and emergency calls, to provide a comprehensive overview of a crisis. Agentic AI could help coordinate response efforts more effectively, ensuring that resources are allocated where they are needed most - and with the right information
- **Predictive Analytics for Natural Disasters:** AI can predict the likelihood and impact of natural disasters such as earthquakes, hurricanes, and wildfires – Agentic AI could help authorities educate, prepare and respond more effectively, potentially saving lives and reducing damage





# PEACE

## Facilitate community engagement by amplifying citizen voices

Think about:

- **Take the temperature** – analyse and aggregate public opinions from social media, surveys, and other sources to provide a comprehensive understanding of community needs and concerns
- **Engagement** - organising and promoting community events, ensuring that everyone has the opportunity to participate and contribute
- **Wellbeing** - Mental health support through personalised interventions.





# PARTNERSHIP

## Bring Societal values to life – Fast Fashion

**Think about:**

**Help me to choose Sustainable Fashion:**

- Identify optimal brands
- Show consumers the information that allows them to make sustainable, ethical choices and avoid supporting exploitation

**Real-Time Feedback:**

- Give real-time feedback on the sustainability of my choices.
- Online shopping with an Agent highlighting products that are more sustainable and suggest alternatives that have a lower environmental impact – and buys them for you.

**Agentic AI**  
Detailed Use Case Example:

# **Supporting people going through the court system**



# Our systems are not perfect...



1 in 5 New Zealanders will experience a diagnosable mental health issue this year – and next year and every year – sometimes it will be me, and sometimes it will be you...

Bureaucracy has a bad habit of asking us to make life changing decisions and actions at times when we are least able to make those decisions

The impact on victims, witnesses and the accused, and their families is recognised in law - The impacts on mental health and resulting reduced cognitive function can have to long lasting impacts on families and finances.

It also impacts the quality of justice itself...





# Additional cognitive load

**Heightened Awareness of Danger:** Survivors may experience a constant sense of being on guard, easily startled, and hypervigilant to potential threats.

**Loss of Confidence:** Traumatic experiences can erode self-esteem and confidence, leading to feelings of vulnerability and helplessness.

**Difficulty Sleeping:** Insomnia, nightmares, and other sleep disturbances are common reactions to trauma, disrupting the body's natural sleep-wake cycle.

**Depression:** Depression, characterized by persistent sadness, loss of interest in activities, and fatigue, can be a significant consequence of trauma.

**Anxiety:** Anxiety disorders, such as generalized anxiety disorder or panic disorder, can develop as a result of the heightened state of arousal and fear associated with trauma.

**Post-traumatic Stress Disorder (PTSD)** PTSD is a specific condition that can develop after a traumatic event, involving intrusive memories, avoidance behaviors, negative changes in mood and thinking, and hyperarousal.

**Guilt and Shame:** Survivors may experience feelings of guilt about their actions during the traumatic event or feel shame about the event itself.

# Additional cognitive load

## Impacts individuals, and the quality of the justice process

- Victims and witnesses of crime can experience **significant mental health impacts** due to the stress and trauma of legal proceedings.
- The **Victims' Rights Act 2002** ensures that victims receive support and information about their cases
- Additionally, research has examined the **credibility and reliability of witnesses** with mental health conditions, highlighting challenges in how their testimony is perceived in court
- **Support services exist to help victims navigate the justice system**, including protection orders and counselling
- Additionally, “secondary victimization”, where victims feel further harmed by the **legal process or media coverage**, can worsen their distress
- Studies show that **Māori and individuals from deprived neighbourhoods** are more likely to experience serious reactions to crime

# Added uncertainty...

## **AUGMENT / PARTNER with – not replace Victim Support specialised court staff**

- Advisors explain the process and what to expect
- Provide assistance
- Assure victim's rights
- Keep victims informed about the case
- Helps victims participate in court proceedings
- non-availability from time to time, especially in high volume courts

### **I've received a Summons**

Where do I need to go?

When do I need to be there?

Are there rules I need to follow?

Will I have to see them in Court?

What will they ask me?

Who else will be there?

Will I feel safe?

Who can I talk to?

Need to take time off work

Organise childcare

Will I get paid? (loss of income)

How do I get there and how will I know which room?

When should I arrive?

What should I wear?

What happens next, do I need to stay?





# Agentic AI - reducing cognitive load



AI Forum  
New Zealand  
Te Kāhui Atamai Ihiko o Aotearoa



## **Follows each person through the whole process**

- Diary management, changing appointments and reminders
- Connecting with experts and help (Victim Support, Legal Aid, the Police)
- Ask any question, any time (the court process)
- Scribe for conversations (so I can remember what was said)
- Journey planner
- Form filling
- Connect to mindfulness and wellbeing support
- Connect to financial advisors (e.g. Citizens Advice Bureau, Bank, etc.)