



# WELCOME TO 2050!

Print, cut, and use these challenge and AI capability cards for  
Lesson 3: What Could Technology Do?

CHALLENGE CARD

## **CLEANER CITIES**

CHALLENGE CARD

## **MENTAL HEALTH AND WELLBEING**

CHALLENGE CARD

## **CLEANER ENERGY AND CLIMATE ACTION**

CHALLENGE CARD

## **ACCESSIBLE EDUCATION FOR ALL**

CHALLENGE CARD

## **ENDING LONELINESS**

CHALLENGE CARD

## **PROTECTING WILDLIFE**

CHALLENGE CARD

## **FOOD FOR THE FUTURE**

CHALLENGE CARD

## **FAIR AND EQUAL COMMUNITIES**

CHALLENGE CARD

## **HEALTHY OCEANS**

CHALLENGE CARD

## **SAFER DIGITAL SPACES**

CHALLENGE CARD

## **CREATIVE COMMUNITIES**

CHALLENGE CARD

## **AGE-FRIENDLY FUTURES**

## AI CAPABILITY CARDS

### Natural Language Processing (NLP)

AI that can understand, interpret, and produce human language — like talking, writing, or answering questions.

## AI CAPABILITY CARDS

### Predictive Analytics

AI that uses past data to make smart guesses about what might happen next.

## AI CAPABILITY CARDS

### Machine Learning

AI systems that improve over time by learning from data and feedback.

## AI CAPABILITY CARDS

### Generative AI

AI that creates new content — such as images, music, stories, or designs — based on prompts.

## AI CAPABILITY CARDS

### Computer Vision

AI that can 'see' and make sense of images or videos.

## AI CAPABILITY CARDS

### Robotics

Robots that can move, lift, build, carry, or perform physical tasks — often guided by AI.

## AI CAPABILITY CARDS

### Recommendation Systems

AI that suggests things you might like based on your behaviour or preferences.

## AI CAPABILITY CARDS

### Emotional AI

AI that can detect and respond to emotions using voice, facial cues, or text patterns.