# Hopeful AI Futures

# WELCOME
# TO 2050

## Case Study Carousel

Use these short case studies
in Lesson 3 to inspire students
before they create their own
2050 visions.

# AI IN GREEN CITIES

## TODAY

Today, AI helps cities monitor traffic and reduce energy waste. Smart sensors adjust streetlights and optimize bus routes.
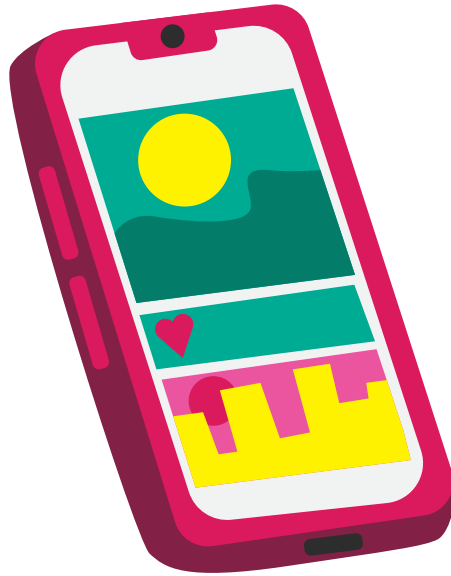
## EMERGING

Emerging systems can predict pollution and adjust infrastructure before problems occur. Urban planners use AI simulations to design greener cities.

## 2050

By 2050, AI might manage entire city ecosystems—balancing human, plant, and wildlife needs for cleaner air and happier communities.

**DISCUSSION PROMPTS:**
✳ What challenge is being solved?
✳ Who benefits most from this technology?
✳ How could this evolve by 2050?

# AI IN
# MENTAL HEALTH

## TODAY

AI chatbots and apps support people with anxiety or depression by offering coping strategies and crisis help.
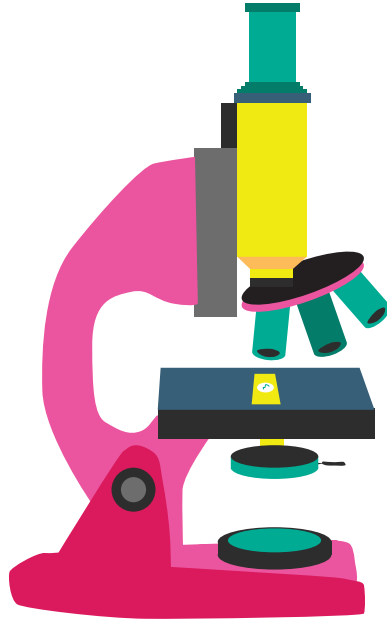
## EMERGING

New systems analyze voice tone or text patterns to detect early signs of stress or burnout, helping people access support sooner.

## 2050

By 2050, AI companions and networks could promote wellbeing by fostering empathy, social connection, and mental resilience in every community.

**DISCUSSION PROMPTS:**
* What challenge is being solved?
* Who benefits most from this technology?
* How could this evolve by 2050?

# FUTURE OF LEARNING

## TODAY

AI tools personalize learning by suggesting exercises or quizzes based on students' progress.
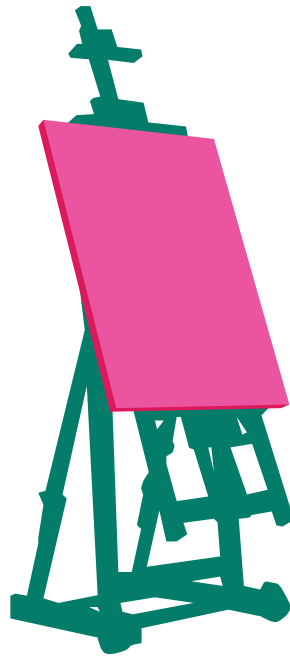
## EMERGING

Adaptive platforms combine data from many sources to build unique learning journeys and provide real-time feedback for teachers.

## 2050

By 2050, every learner could have a digital learning partner—an AI mentor that supports creativity, curiosity, and lifelong growth.

### DISCUSSION PROMPTS:
✳ What challenge is being solved?
✳ Who benefits most from this technology?
✳ How could this evolve by 2050?

# AI IN
# CREATIVITY

## TODAY

AI can generate images, music, and text to help artists experiment and express ideas faster.
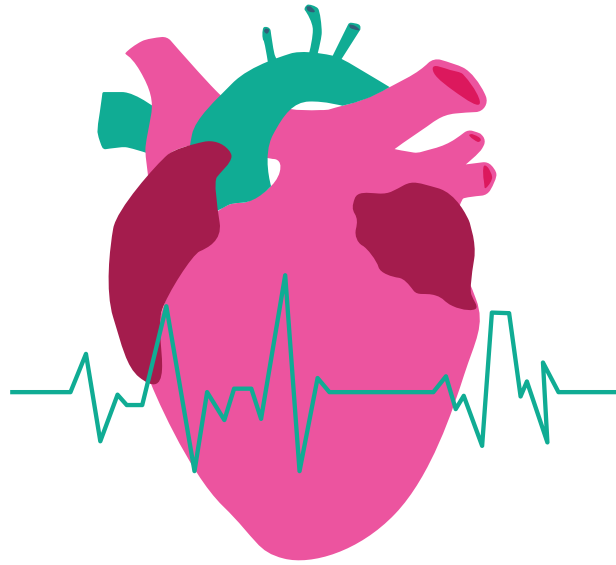
## EMERGING

Collaborative AI tools are allowing humans and machines to co-create stories, art, and inventions that neither could make alone.

## 2050

By 2050, creative AI might act as a cultural bridge—helping people share art across languages, abilities, and experiences worldwide.

**DISCUSSION PROMPTS:**
* ✳ What challenge is being solved?
* ✳ Who benefits most from this technology?
* ✳ How could this evolve by 2050?

# AI IN
# HEALTHCARE

## TODAY

AI scans medical images to detect diseases earlier and assist doctors with diagnosis.

## EMERGING

Predictive models are helping prevent illness by identifying risks based on lifestyle and genetics.

## 2050

By 2050, AI may support global health systems that ensure personalized, accessible care for everyone—no matter where they live.

**DISCUSSION PROMPTS:**
✳ What challenge is being solved?
✳ Who benefits most from this technology?
✳ How could this evolve by 2050?