**Level 2 Advanced Activity:**

**Application of Strategic Foresight Tools**

# **Application activity**

Working individually or in small groups, students will:

1. Choose a sustainability-related challenge or work on a real-world-inspired scenario.
2. Analyse external drivers of change by applying STEEP and/or
3. Sketch possible scenarios using the Three Horizons framework.
4. Conclude with a class discussion on how the tools applied can inform more adaptive, sustainable decision-making in engineering contexts.

**Suggestions for sustainability-related challenges:**

* Designing sustainable urban transport systems (SDG 11)
* Transitioning to circular materials in construction (SDG 12)
* Decarbonising energy infrastructure in coastal cities (SDG 7 and 13)
* Engineering for climate-resilient agriculture (SDG 2 and 13)

**Suggestion for a real-world-inspired scenario:**

*Imagine you are part of an engineering consultancy tasked with future-proofing the water infrastructure of a growing coastal city. Rising sea levels, population growth, and water pollution are major concerns. Your team is using strategic foresight to inform long-term planning.*