GIBE

THE DIGITAL TWIN OF SCOTLAND

BUILDING SCOTLAND'S FUTURE, TOGETHER.

The Digital Twin of Scotland will be a living, evolving virtual representation of Scotland's infrastructure, communities, environment and economy.

Unlike traditional infrastructure models, this will be a national **educational** asset:

BUILT BY LEARNERS | **USED BY LEARNERS** | **CONNECTED TO INDUSTRY**

Students, apprentices, colleges and universities will contribute data, projects, research and innovation into a shared national platform that mirrors the real-world systems shaping Scotland's future.

THE DIGITAL TWIN:

- A national learning environment
- A workforce development platform
- A research and innovation ecosystem
- A collaboration space between education and industry

LEARNING THROUGH BUILDING SCOTLAND

Instead of learning about infrastructure through textbooks, young people will actively help build and improve Scotland's digital future

These pathways will allow learners opportunities to:

- Model transport networks
- Simulate renewable energy systems
- Monitor environmental change
- Design resilient communities
- Explore water and wastewater infrastructure
- Test climate adaptation strategies
- Develop AI-driven infrastructure solutions
- Create digital representations of local assets and communities

Use the Digital Twin of Scotland to model integrated energy systems connecting renewable generation, energy storage, data centres and community heating networks

Every project contributes to a growing national asset

Preparing Scotland's future workforce to design, build and operate smarter, sustainable infrastructure

BUILT BY LEARNERS. POWERED BY EDUCATION. SHAPING SCOTLAND'S FUTURE.

EDUCATION | EXPERIENCE | EMPLOYMENT

A CONNECTED PATHWAY.
REAL IMPACT. LIMITLESS POTENTIAL.

In partnership with Bentley Education

Advancing Infrastructure.
Empowering Education.