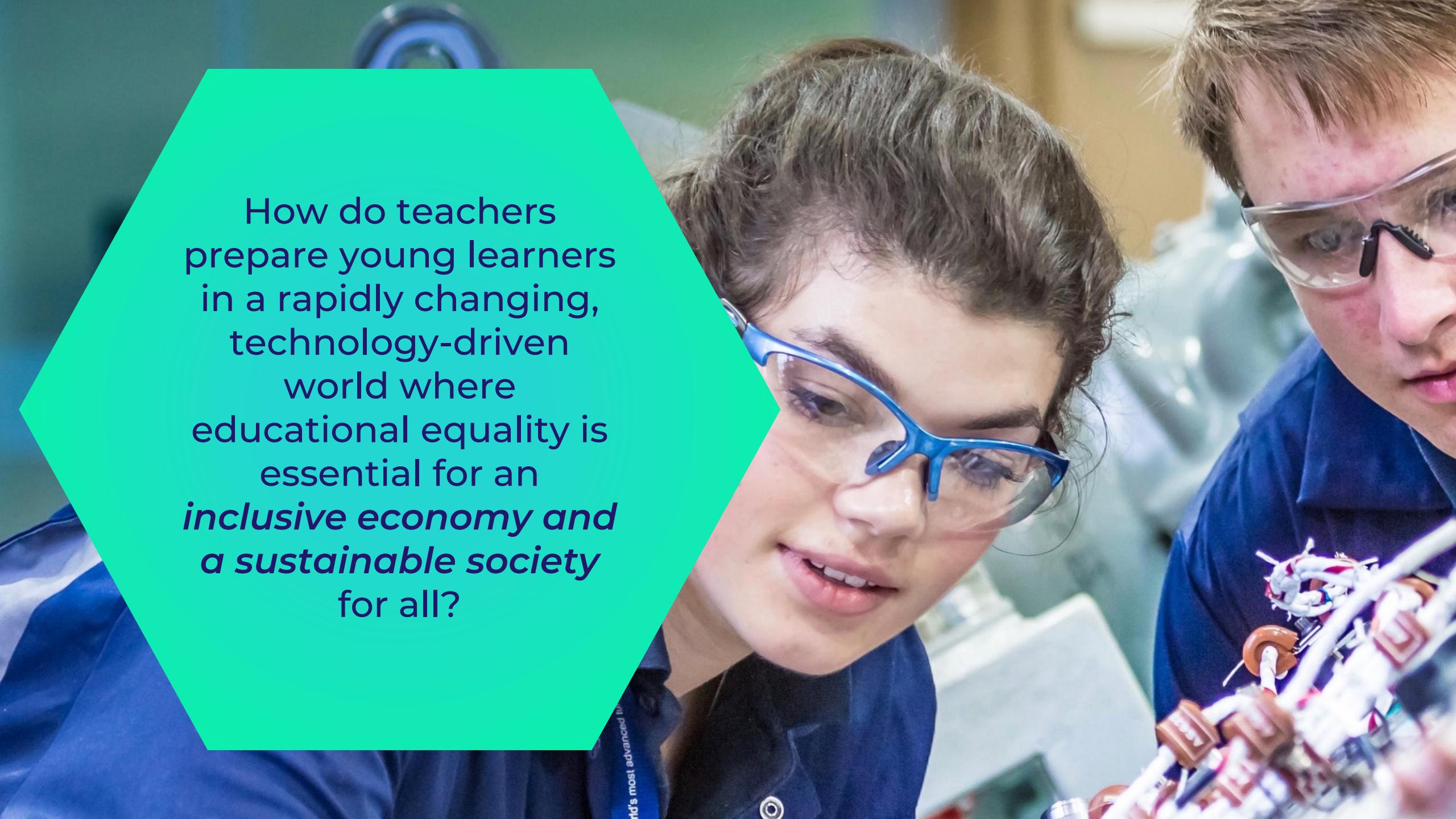


The role of networking in driving regional collaboration

Scott Atkinson

Education manager – Wales and Scotland

Royal Academy of Engineering



How do teachers
prepare young learners
in a rapidly changing,
technology-driven
world where
educational equality is
essential for an
inclusive economy and
a sustainable society
for all?

The Connecting STEM Teacher programme 2011-2023

National network of 50 school
hubs

A community of 7000 schools

1,000 teacher collaborations
each year

1 million students experience
STEM teacher CPD

Engineering themed
resources





1

Network formation and structure

2

Network meetings

3

Appropriate for location and context

4

Working with school leadership teams

5

Effective network leadership

Welsh Valleys Engineering Programme 2018

Employer Engagement Project 2022

17 companies located in South
Wales

74 secondary and primary schools
participating

12 student-centred projects with
engineering focused activities

5650 students engaged

Engineering challenges for primary schools



Thales: digital forensics

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Thales: the Internet of
Things

[Read more](#)



Vishay: assembly line

[Read more](#)



Tata Steel: upcycled
structures

[Read more](#)



Zimmer Biomet: bionic
Barbie

[Read more](#)



ORE Catapult: offshore
renewable energy

[Read more](#)



Morgan Sindall: net zero
schools

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Teacher Guide

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Engineering challenges for secondary schools



Panasonic: weather station

[Read more](#)



Panasonic: toughbook

[Read more](#)



Concrete Canvas: bridge
building

[Read more](#)



General Dynamics: payload

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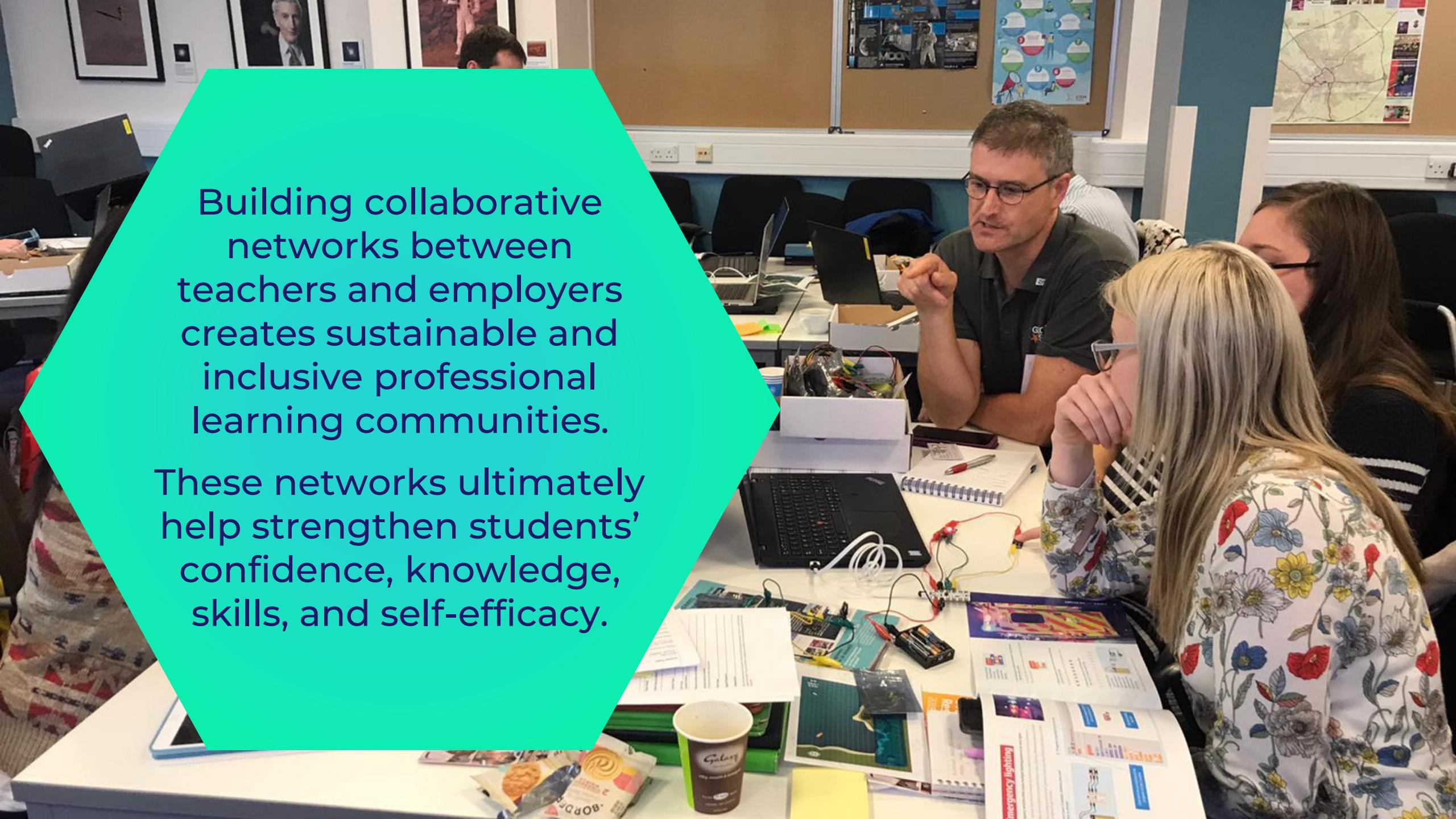
Safran Seats: egg drop

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Teacher Guide

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Building collaborative networks between teachers and employers creates sustainable and inclusive professional learning communities.

These networks ultimately help strengthen students' confidence, knowledge, skills, and self-efficacy.

What's next?

for regional schools' programmes in the West Midlands, Scotland and Northern Ireland

Expand funding partnerships

Recruit local lead teachers

Employer linked STEM projects and experiences

Monitoring and evaluating

