

STEM Provision in the Highlands & Islands: Overcoming Barriers of Geography and Scale

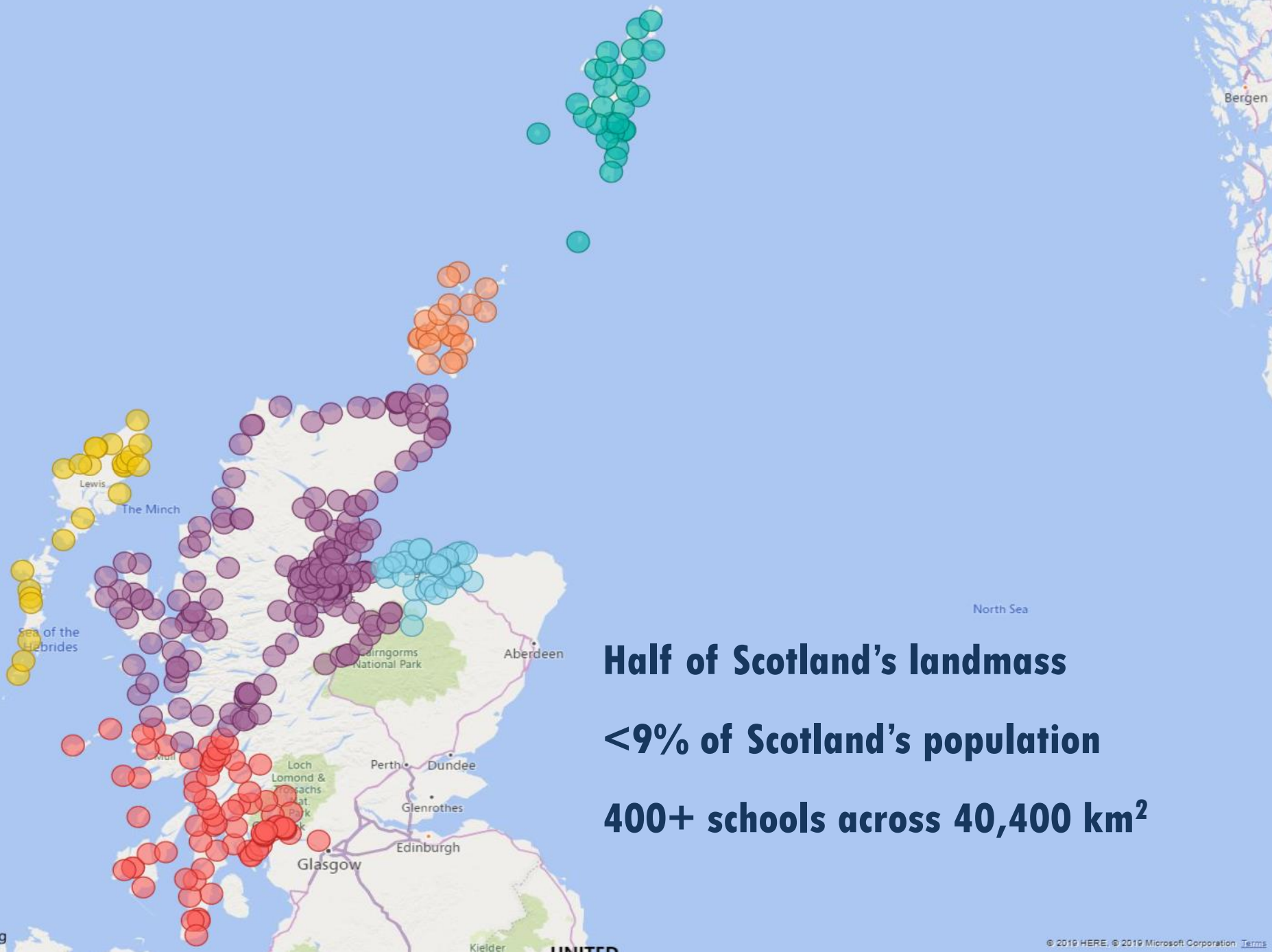
Dr Emma Robertson



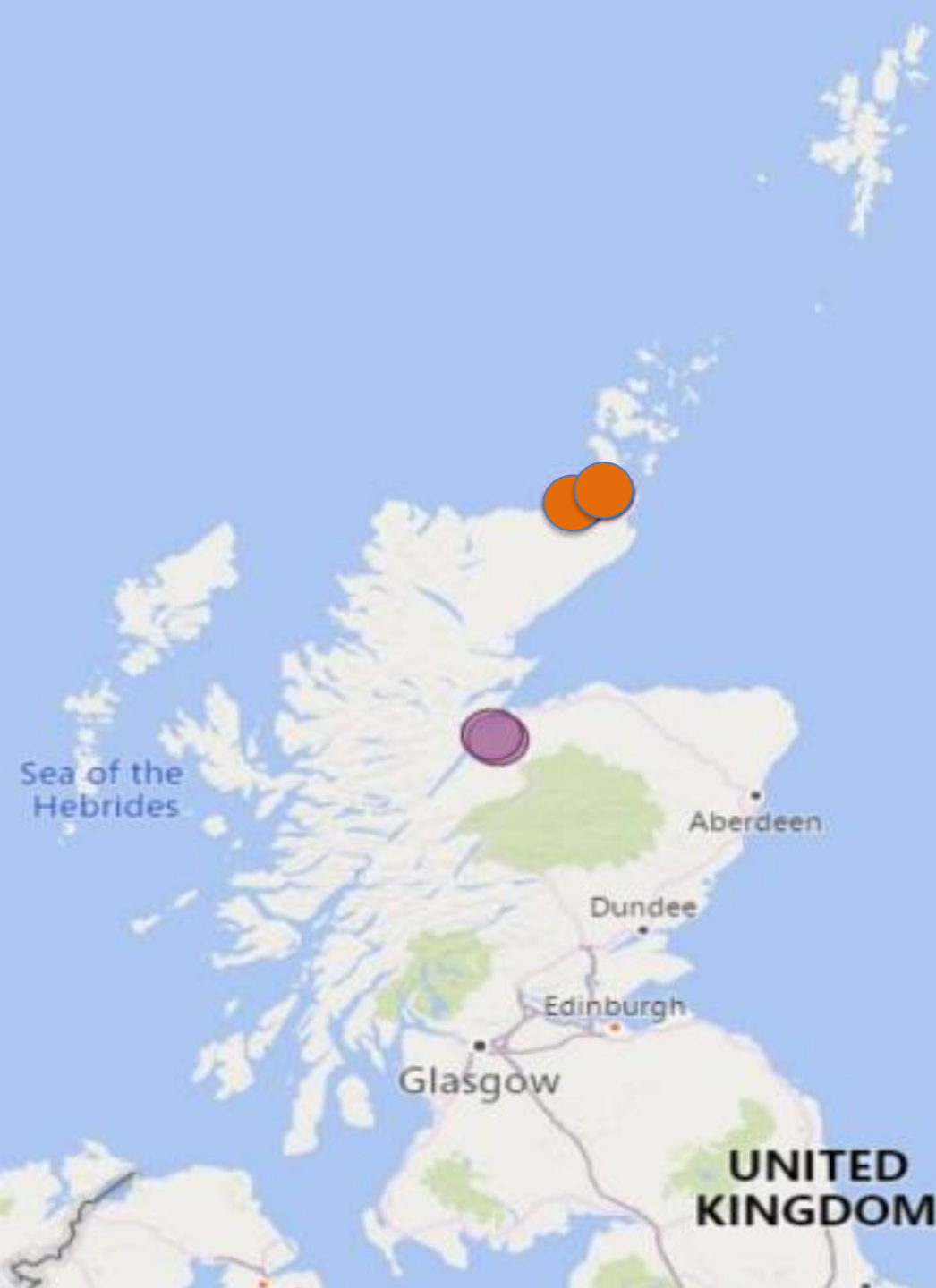




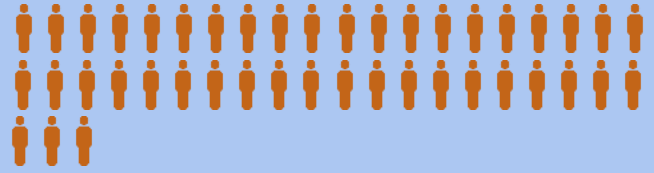




**Half of Scotland's landmass
<9% of Scotland's population
400+ schools across 40,400 km²**



Miller Academy Primary (P7)



Crossroads Primary (P7)



Milton of Leys Primary (P7)



Daviot Primary (P7)





Highlands and Islands Enterprise
Iomairt na Gàidhealtachd 's nan Eilean



University of the
Highlands and Islands
Oilthigh na Gàidhealtachd
agus nan Eilean

Skills
Development
Scotland



SCIENCE
SKILLS
ACADEMY

Our Goals

1

**ESTABLISH NETWORK
OF STEM
EDUCATION ROOMS**

2

**ALIGN STEM ACTIVITY
IN THE
HIGHLANDS AND ISLANDS**

3

**ATTRACTING STEM EXPERTS
TO THE
HIGHLANDS AND ISLANDS**

Our Requirements

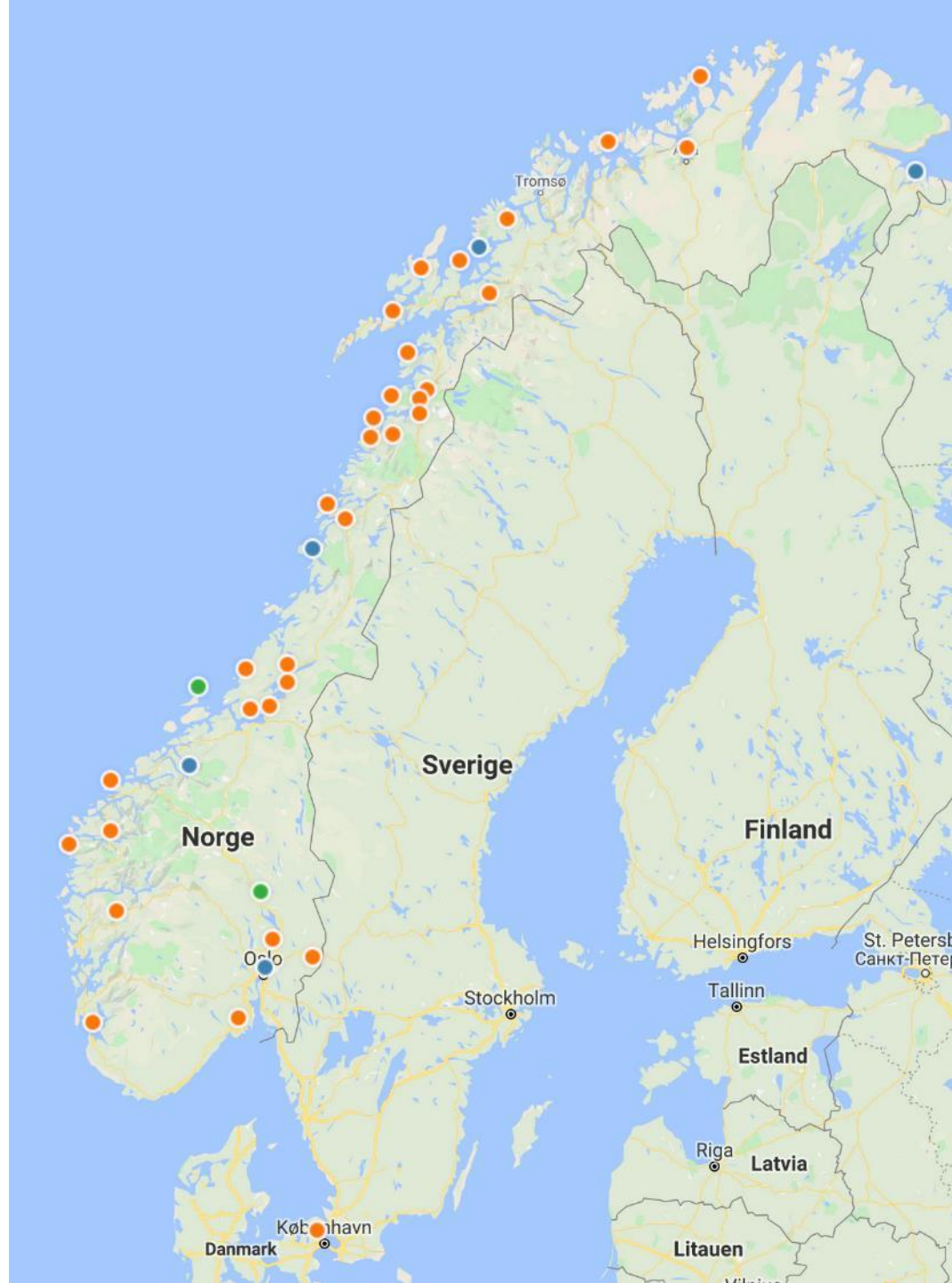
- **Remote schools hard to access**
- **Adaptable (rural vs city)**
- **Experience of establishing STEM education rooms**
- **High quality & inspiring STEM activities**
- **Great learning experience & high learning outcomes**

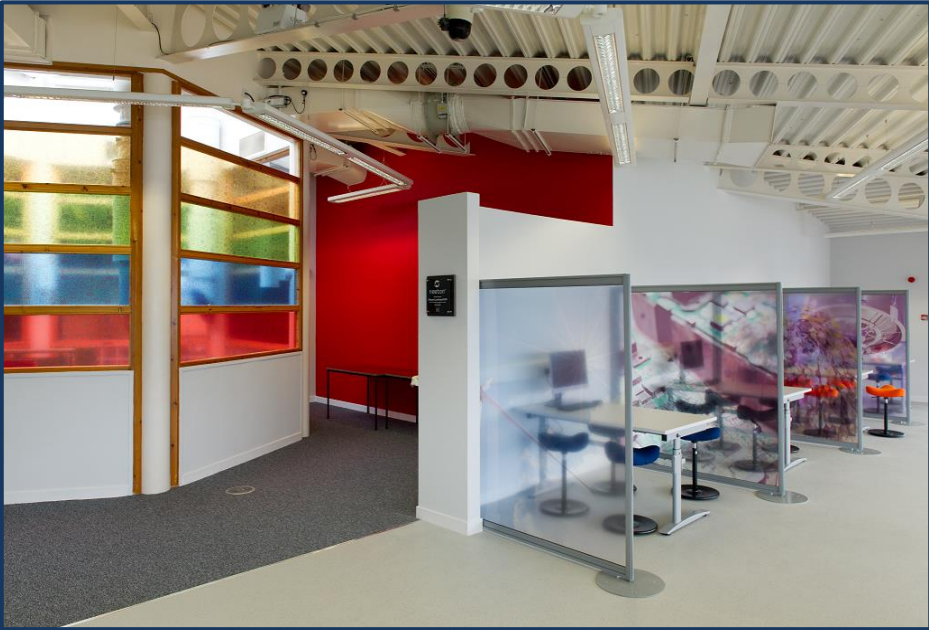
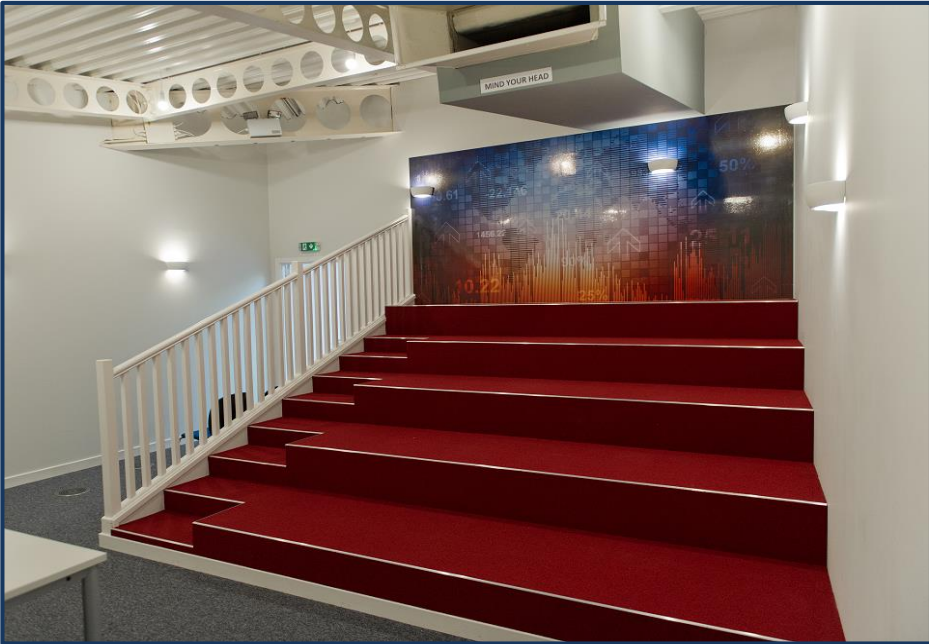


FIRST Scandinavia



newton®





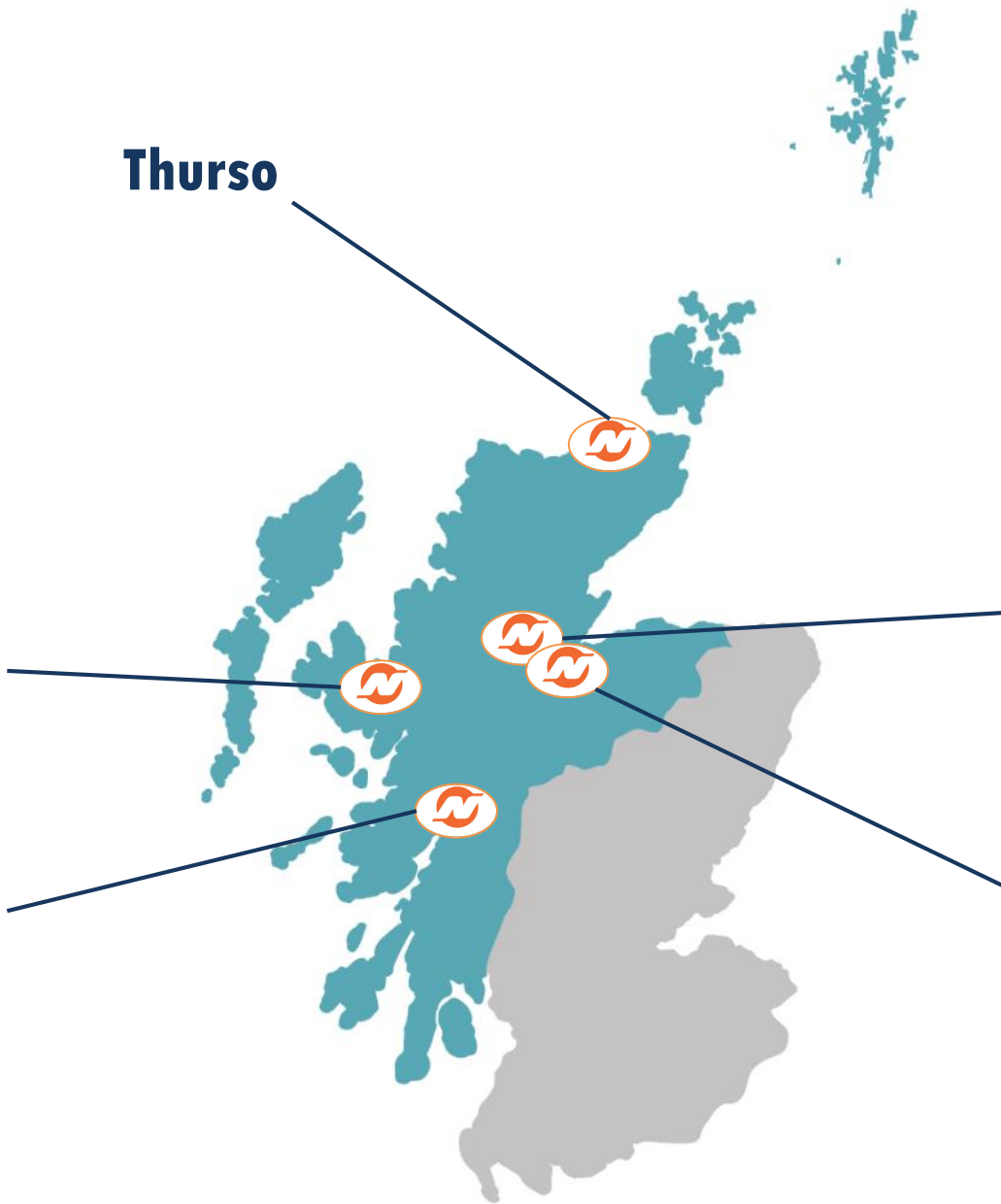
Thurso

**West Coast
& Skye**

Fort William

Dingwall

Inverness







**SCOTLAND'S CURRICULUM
FOR EXCELLENCE**
Putting learners at the heart of education



**STEM
Career
Pathways**



Dedicated Delivery Team



and.....



Package of STEM Activity

School pupils
(Early Years,
Primary,
Secondary)

**Extra
Curricular**

Teacher CLPL

**Family
Science
Capital**

**Community
Outreach**



1

NEWTON ROOM NETWORK

- 2 operational
- 1 under refurbishment
- 2 planning stage

4

AWARENESS OF STEM CAREERS

- Reflect local sectors
- Videos & marketing

2

INSPIRING STEM ACTIVITIES

- 6 Newton Modules
- Delivery team

5

PACKAGE OF STEM ACTIVITY

- Partners
- STEM experts & deliverers

3

STUDY STEM SUBJECTS

- Curriculum links

ENGAGE WITH ALL SCHOOLS ACROSS THE REGION

- 1886 pupils
- 289 adults

PARTNERS



FUNDERS



SUPPORTERS

