

*Proposal to establish a Private Equity Fund
for*

Green

Industry + Innovation + Infrastructure



North Britain
Green Fund 

Cover Image - Newcastle upon Tyne





Northumberland Coast at Craster



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Game of Thrones inspiration



Hadrian's Wall, AD 122, marked the boundary between Roman Britannia and unconquered Caledonia to the north



Northern Britain has a long
history of overcoming
challenges.

Our contribution to the
World's Green Future is next.



imaginatives
THOUGHTFUL FUTURES



FUTURE CITIES | INNOVATION | ENERGY | HEALTH | TRANSPORT | HOMES | ECONOMY

Imaginatives is based in Newcastle upon Tyne, since Roman times a major city in the region from which the Industrial Revolution emerged.

Birthplace of coal, electric light, steam power, steel, ships and chemicals, now world class in digital, knowledge and green industries.

Culturally sound, design inspired, technically savvy and commercially astute Newcastle remains a powerhouse of ideas and action.

Imaginatives brings three decades of global experience to bear. Its professionals were there to pioneer Sustainable Development long before the United Nations goals were formulated. And before it was fashionable.

The economic visions, masterplans and investment propositions created by Imaginatives take projects from concept to completion.

Our work is in complete alignment with UK policy across the political spectrum in respect of both global green energy development and national investment requirements in infrastructure.

Imaginatives covers everything that is required, whether design, engineering, technology, investment, infrastructure, social or other key elements.

The firm is interested in delivering future focussed objectives at scale, with lasting value, that truly make a difference.

The big things, the big challenges and the biggest differences to be delivered in the shortest time.

BUENOS AIRES | DURBAN | LONDON | NEWCASTLE-UPON-TYNE

www.theimaginatives.com





Newcastle



Durham



Edinburgh



Glasgow



Introduction

Imaginatives is a British company created by professionals who have broad and deep global experience in a wide range of investment activities over three decades.

The Company is authorised and regulated by the United Kingdom Financial Conduct Authority and able to provide financial services and investment expertise.

Imaginatives' leadership has pioneered development in a number of areas of Green Industry, Innovation and Infrastructure. This has included creating Britain's first public environmental analysis company and also creating and managing a pure start-up enterprise in Hydrogen Economy which achieved public listing with value of one billion dollars.

Imaginatives also includes leaders with significant experience in successful infrastructure investment such as the pioneering Islamic Development Bank Infrastructure Fund, in which the Kingdom of Saudi Arabia-hosted IDB was the Principal Sponsor, together with the Kingdom as a lead sponsor, alongside a leading Islamic financial group (also a lead sponsor), founded by the late HRH Prince Mohammed Al Faisal Al Saud.

The team has undertaken a significant number of financial transactions on five continents over three decades.

Imaginatives is a private limited company owned by its shareholders. When required, the core team of professionals collaborate with a global network of participating parties.

Like many countries, Great Britain is undergoing transformation of its economy to adjust to a new green future and to upgrade its infrastructure. The UK's ambitious current economic policy, apart from upgrading infrastructure and improving its direct trade relationships, is seeking to rebalance regional economies, emphasising the prospects for the Northern Britain region, which played such a seminal role in the UK's first Industrial Revolution.

This region of United Kingdom is also benefitting from renewed interest in decentralisation of Government, which includes the autonomy granted to the Scottish Parliament and the relocation of Her Majesty's Treasury to NE England, for example.

Post- Brexit, the UK Government has embarked on a programme intent on addressing some of the imbalances which have arisen in the economy. These include attention to initiatives such as the Northern Powerhouse and further measures for levelling up the distribution of living standards, job opportunities and skills in favour of Northern Britain. These measures will go hand in hand with the further expansion of green initiatives.

With the rebalancing of regional economies, in order to exploit better the undoubted continuing importance of Northern Britain's entrepreneurial skills and other human resources, this region of the United Kingdom is blessed with many premier universities, research institutes and industry with a remarkable track record of innovation and a globally significant know-how in all areas relevant to establishment of a future green economy.

Imaginatives has good standing within the research, industry and political worlds of Northern Britain.



Leadership of Imaginatives: Selected past experience



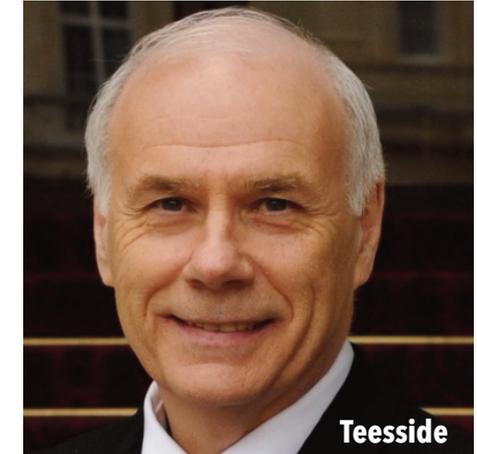
Dr Harry Bradbury
Chairman & CEO



Sir Christopher Edwards
Deputy Chairman



Peter Coward
Finance Director



Paul Booth CBE OBE
Senior Director

Deloitte
Managing Partner

Vice-Chancellor
Newcastle University

PWC
Senior Partner

SABIC UK
Chairman

Plus

- Global corporate finance, investment & advisory experience over thirty years
- Booz.Allen & Hamilton EMEA Leader World Technology Business
- AT Kearney Emerging Markets Leader
- Founder & CEO two multi-award-winning London Stock Exchange-listed Anglo-American green technology groups
- Chief Economic Advisor Bahrain Government
- Professor Yale University
- Professor Newcastle University

Plus

- Principal of Imperial College School of Medicine in London
- Professor Edinburgh University
- Governor Wellcome Trust
- Led major developments Newcastle Science City, the Cultural Quarter and £200m investment programme
- Key roles in knowledge economy
- Boards of One NorthEast (the regional development agency), The Newcastle Gateshead Initiative and International Centre for Life

Plus

- Head Property Tax Division
- Clients included Ineos, Sage, Hiscox, Arriva, Grainger Trust, Pamplona Capital, TR Property Trust, Big Yellow
- Numerous fund raises and refinances (bank consortiums and quoted bonds)
- Structuring international investments and acquisitions
- Significant number sell and buy side corporate transactions

Plus

- European Director of Government Policy Global Chemicals Sector
- Member of the Chemicals Industry Association Council Chairman of the North East Process Industry Cluster (NEPIC)
- Chairman Tees Valley Unlimited Local Enterprise Partnership Board of Governors Teesside University
- Member of TTE Technical Training Group and The National Skills Academy Process Industries
- National Chemical Growth Strategy Partnership as Principal Advisor to the British Government

North Britain
Green Fund 

Leadership of Imaginatives: Selected past experience



John Glen
Senior Director



Michael Lee
Senior Investment Advisor



Judith Agar
Operations Director



Stephen Pringle
Investment Director

Chairman
BIC World

IDB Infrastructure Fund
Dep. Chairman & MD EMP (Bahrain)

UBS
Associate Director

PWC
Corporate Finance

Plus

- Chief Executive Officer Buccleuch Group owned by His Grace Duke of Buccleuch and Queensberry, largest UK private landowner
- Global CFO and Vice President of Finance & Administration of Air Liquide €48 billion market cap Paris HQ business. 48 countries 66,000 employees
- Edinburgh University Masters Degree in Economics

Plus

- Merrill Lynch MD following investment banking assignments in London and Hong Kong
- Director of Corporate Development, Merrill Lynch International Inc. New York
- Chief Executive Officer, Dean Witter Capital Markets-International London
- MD Corporate Finance, Dean Witter Reynolds Inc. New York
- Advisor Financial Markets Bahrain Ministry of Finance & National Economy
- Oxford and Open University graduate

Plus

- Head of Management Services Virgin Money
- HSBC Commercial & Corporate Banker
- Credit & Risk Manager Trinkaus & Burkhardt Germany
- AT Kearney Associate for sovereign governments and major corporations
- Chartered Institute of Bankers, the Association of Corporate Treasurers and the Chartered Institute of Marketing
- Masters degree from Edinburgh University
- MBA Cranfield University School of Management

Plus

- Chartered Accountant with the Big 4, corporate finance, M&A and strategic advisory across the North of England
- Lloyds Banking Group to post acquisition merger of HBOS
- Finance Director Energy Division Buccleuch Estate holding company
- Accounting qualifications and law degree from Newcastle University.

North Britain
Green Fund 



Bamburgh



Alnwick



Private Equity Fund

The leadership of Imaginatives is well-equipped to manage or advise on commercial equity investments in green energy and infrastructure in Northern Britain, whether alone or in partnership with leading investment banks such as PCP Capital Partners, Reuben Brothers and/or leading institutions headquartered in the UK or the USA.

We aim to create a financial structure, whether or not in the form of a classic private equity fund, for the equity investment of US\$1.5-2 billion over the next five years by official and also possibly private sector sources in the Kingdom of Saudi Arabia into the best Northern Britain opportunities in the green energy and general infrastructure sectors. Regardless of the exact financial structure selected, the expected returns and exit time horizons, as well as the means of exits (initial public offerings, trade sales, or financial institutional buyers) for the equity investors, would parallel what would be expected in a private equity fund.

Not only does Imaginatives work day-to-day within this region, but it has a talented team with deep understanding of the complete spectrum of green initiatives, technologies and processes, as well as in general infrastructure projects. It has global experience in the identification, nurturing and long-term development of a wide variety of green and sustainable activities, with demonstrable success, with similar success in identifying, executing and exiting general infrastructure projects.

The leadership has held very senior global positions in both the research world and in industry. It has expertise in every aspect of financial advisory, management and transaction-led programmes.

The team has worked with numerous global companies, investment and development banks, state wealth funds and governments on a wide variety of programmes in inward investment, privatisation, technology management, mergers and acquisitions and significant fund raising.

There are numerous opportunities for private equity investment within Northern Britain at all scales and at all stages in the innovation to commercialisation cycle.

This includes large scale projects which are already at maturity and ready for further investment.

Apart from attractive investment returns, this private equity initiative will also facilitate the accumulation of know-how/intellectual property - not only for use within Great Britain, but globally - so perhaps some investors in the Kingdom of Saudi Arabia will be interested in longer-term equity investment in the investee companies, which might be privately purchased by a Saudi company or by Saudi financial investor(s) or which could be the subject of IPOs in the Kingdom of Saudi Arabia, subject to applicable KSA security market regulations at the time.

North Britain Green Fund envisages managing a US\$1.5-2 billion pool of private equity resources



Green Project and Infrastructure examples

A spectrum of opportunities exist in Northern Britain including investment ready projects, maturing projects and new breakthrough initiatives. Certain opportunities are small scale individual projects, others large scale long term programmes with connectivity of various key elements. Some are immediate big infrastructure projects.

An initial selection of 50 green projects and infrastructure investment opportunities have been identified across Northern Britain, as indicators of potential.

New projects are emerging from the dozen research universities across the region. But many projects are already at scale, a number with significant investment in place, others partially capitalised and investment ready, yet others emerging as serious commercial opportunities.

Simply by way of example, this document highlights fifty projects. Of these, projects such as the BP blue hydrogen initiative have already attracted partners like ADNOC and Masdar. Others, like Clyde Gateway has already attracted £1.5 billion in investment and developed 100,000 square metres of award-winning green business space. And the Envision battery plant forms part of a £1 bn partnership with Nissan.

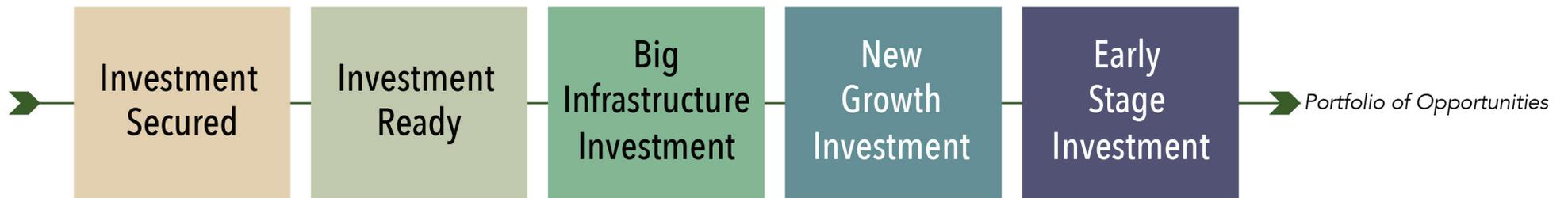
Major green infrastructure developments exist at Port of Tyne near Newcastle, which is a major deep port. It hosts Equinor's flagship operations and maintenance base for what will become the world's largest offshore wind farm development at Dogger Bank, SSE Renewables and General Electric Renewable Energy and has considerable expansion potential.

Elsewhere, the Advanced Manufacturing Innovation district in Glasgow is ready for a further expansion from £150 m plan for its fifth-generation heating network and green innovation park, which already has two institutes of excellence and tier one suppliers like Rolls Royce.

The £3.5 bn Teesport development includes an existing opportunity to acquire PD Ports, a major facility for international trade and the Teesworks site for green industrial development.

Northern Britain has always been the heartland of the UK North Sea Oil & Gas Industry. As we emerge from a hydrocarbon era, Britain is at the forefront of the asset decommissioning industry with significant scope for materials and asset





Examples

- | | | | | |
|---|--|--|--|---|
| <ul style="list-style-type: none"> ▪ Tees Blue Hydrogen (BP, ADNOC, Masdar) ▪ Clyde Gateway ▪ Envision Battery Manufacturing | <ul style="list-style-type: none"> ▪ Port of Tyne Clean Energy Park ▪ Advanced Manufacturing Innovation district ▪ Teesport | <ul style="list-style-type: none"> ▪ Decom N Sea Assets ▪ Net Zero Teesside ▪ Tees Hydrogen Transport Hub | <ul style="list-style-type: none"> ▪ Deep Geothermal Energy, Brine Mining & Energy Storage ▪ Digital era circular economy ▪ Future Vehicles | <ul style="list-style-type: none"> ▪ Faraday next gen batteries ▪ Integrated Smart Energy Lab ▪ Electric Revolution Centre |
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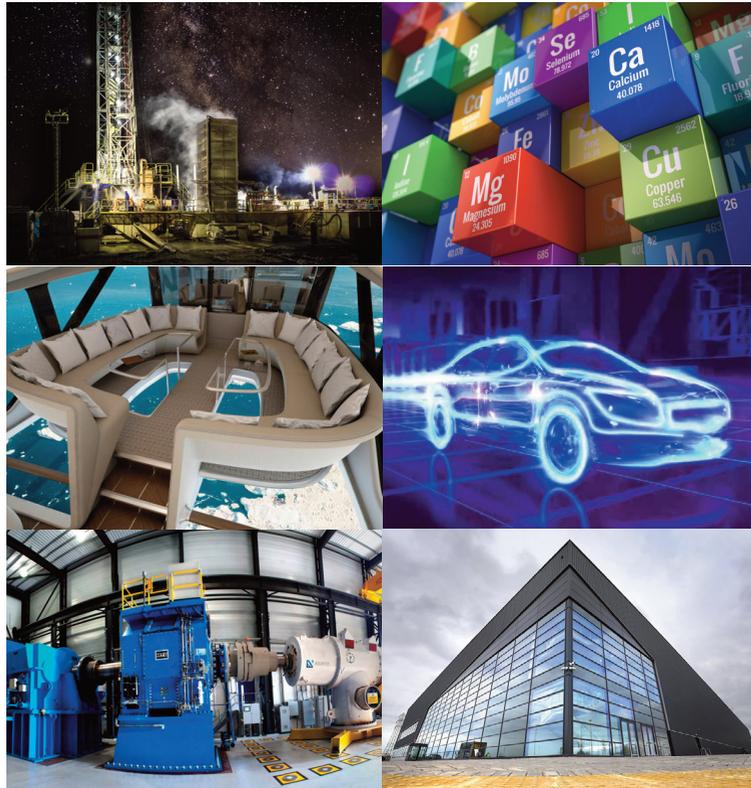
River Clyde



with global enterprise and multinational efforts to implement new transport systems.

In the category of early stage investment, Northern Britain is home to some of the world's finest research institutes, the R&D from which is creating advances in many aspects of the future green economy. Participating in the emergent stages of such research is likely to present fast track opportunity for investment returns in various fields of global importance.

Finally, future living requires well planned expansion of UK's towns and cities. An opportunity exists to design and create an entirely new sustainable city in Northern Britain which incorporates many advanced aspects of a future economy, comparable with work already undertaken by Imaginatives elsewhere.





1 Tees Freeport

£3.2 billion economic build programme as national port and tax efficient hub for global trade and green innovation

2 Centre for Process Innovation

Development, proof, prototype and scale-up of new products and processes and High Value Manufacturing Catapult

3 Applied Graphene Materials

Harnessing the potential of graphene in real-life products and materials including energy and environment applications

4 BP Blue Hydrogen

1GW of 'blue' hydrogen and UK's first hydrogen transport hub

5 White Rose Carbon Capture & Storage

Industry consortium for North Yorkshire carbon capture with sequestration beneath North Sea

6 Gold Hydrogen

Discoveries of naturally occurring hydrogen linked to helium gas fields and elsewhere

7 Future Grid

Northern Gas Networks and partners hydrogen test facility to decarbonise National Transmission System

8 Hydrogen transport

Durham University hydrogen fuelled transport powertrains and decarbonised CHP

9 National Centre for Energy Systems Integration

£20 m Government sponsored improvements to energy efficiency, reduced bills and lowered carbon emissions

10 Geothermal Energy from Mines

Novel simulation and innovative heat storage solutions for use of mine water geothermal heat

11 Marlin Star Floating Energy

Modular, floating renewable energy platform development for remote off-grid communities

12 Tees Hydrogen Transport Hub

Government, industry and research to create real-world transport pilots for net-zero

13 Integrated Smart Energy Lab

Grid emulation, smart grid demand-centric testing, decentralisation and offshore renewable energy

14 The Hebburn Geothermal Project

Water source heat pump geothermal energy from spent mine waters in former coal mine

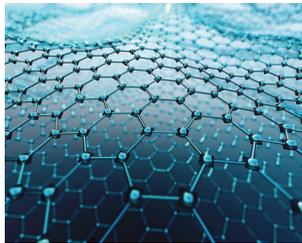
15 Innova Microsolar

New materials and devices for efficient, sustainable conversion of energy from sunlight





TOGETHER FOR OUR PLANET



16 Port of Tyne Clean Energy Park

Equinor flagship operations and maintenance for world's largest offshore wind farm linked to GE Renewable Energy wind turbine blade manufacture at Tees

17 HyDeploy

First users of blended hydrogen for domestic heating and cooking

18 HyNTS Future Grid

Gas Transmission Network offline hydrogen research facility from Northern Gas, Health and Safety Executive and universities

19 National Driving Electric Revolution Centre

UK Power Electronics Motors and Drives for cars, planes, ships, energy, construction and agriculture

20 Envision AESC Battery Manufacturing Plant

Gigafactory linked to Nissan to support battery production in £1.8 billion facility deploying AIoT smart technology

21 Research Hub for Biotechnology in the Built Environment

Living Buildings research integrating architecture, engineering and bioscience from two premier universities

22 Net Zero Teesside

UK's first zero-carbon cluster to capture 10 million tonnes of carbon dioxide emissions for use and storage

23 P&G Sustainable Products

Proctor & Gamble and Durham University breakthrough scientific tools to reinvent performance of everyday products

24 Faraday Battery Project

Newcastle University centre for making electric vehicle (EV) batteries safer, more powerful, cheaper, faster-charging and easier to recycle

25 Blythe Wind Turbines

Border Wind, PowerGen Renewables, Nuon UK and Shell Renewables offshore wind farms development

26 North Sea Decommissioning

DECOM operations with estimates of £14 billion opportunity for Northern Britain to be spent on removal projects in north-west Europe over the next five years

27 British Volt Battery Plant

First Gigaplant based in Northumberland for ethical manufacture of batteries

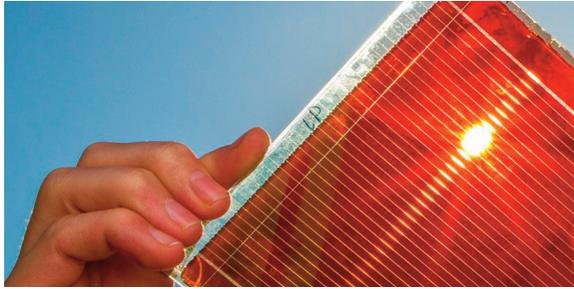
28 Newcastle Science City

The Helix is one of Europe's most exciting innovation hubs including innovation to lead advances in the development of future or 'smart' cities

29 Northumberland Deep Geothermal & Lithium extraction

Deep Superhot Rock Geothermal Energy plus Lithium and other element extraction from Brine Mining





30 Northern Sustainable City

Evaluation of three locations to establish a new major city at the scale of existing major Northern Britain cities, embracing all UN Sustainability goals

31 Advanced Manufacturing Innovation District

Two institutes of excellence, tier one suppliers including Rolls Royce and innovation companies in £150 m net zero park

32 Clyde Gateway

£200 m 20-year programme for Scotland's first Green Regeneration and Innovation District

33 Michelin Scotland Innovation Park

JV between Michelin and Dundee supporting low carbon innovation and electric vehicles development

34 Mossend International Railfreight Park

Low carbon logistics development of national railfreight terminal

35 Orbital Marine Power

Floating tidal technology for endless, predictable, low carbon power in 100 GW global tidal energy market

36 PI Polymer Recycling

Infra-red optical sorting, cleaning and granulation of large mixed rigid plastics for recycling

37 Ili Energy Storage

Portfolio of utility-scale 750 MW capacity battery storage assets for use in pumped-storage hydro schemes

38 Hunterston Port and Resource Centre Park

Deep water port and marine yard for blue and green economy investments in power generation and aquaculture

39 FOREV Electric vehicle Systems

Electric vehicle charging point developments and network build

40 Avondale Waste to Energy

Waste-to-Energy facilities development in Falkirk

41 INEOS Blue Hydrogen

£1 billion conversion of Grangemouth petrochemical plant to run on blue hydrogen, with carbon dioxide capture and North Sea geostorage

42 Inverurie Energy Park

£200 m investment to build green energy power plant and district heating network

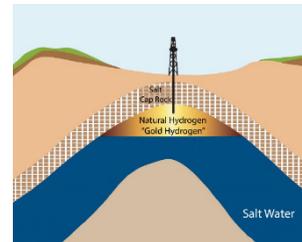
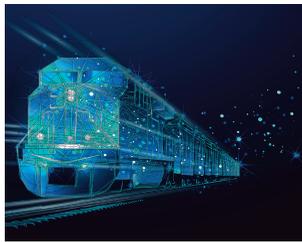
43 Aberdeen Hydrogen Development Programme

£250 m hydrogen infrastructure project with megawatt fuel cell powering of Events Complex in Aberdeen

44 Buccleuch Pumped Storage Hydro

400MW pumped storage hydro scheme on the Glenmuckloch site in Dumfries and Galloway.





45 Red John Pumped Storage Hydro

£495 m pumped storage hydro scheme near Loch Ness

46 National Centre for Resilience

Cross sector partnership from academic institutions, Scottish Government and communities for improvement of resilience to natural hazards

47 Scottish Carbon Capture and Storage

Largest CCS grouping in the UK from Edinburgh University, Heriot-Watt University, and the British Geological Survey

48 Dynamic Coast

Coastal Flood and erosion management and climate change risk programme

49 Yunus Centre for Social Business and Health

Research and conceptualisation of various community-based and health-focused initiatives addressing multiple Sustainable Development Goals

50 COP26 Climate Change

Glasgow conference to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change

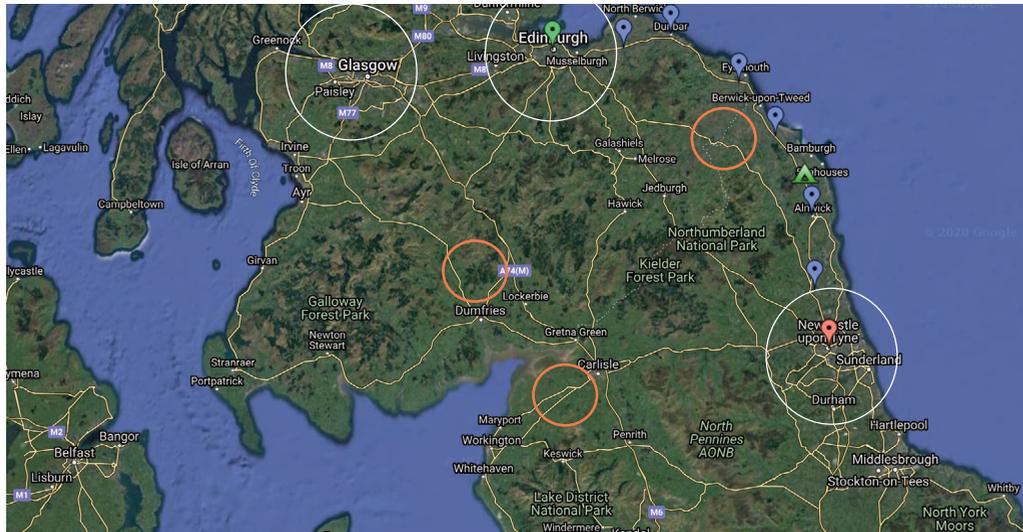


The Border Country: Opportunity for a New Sustainable City

(options under consideration shown in orange)



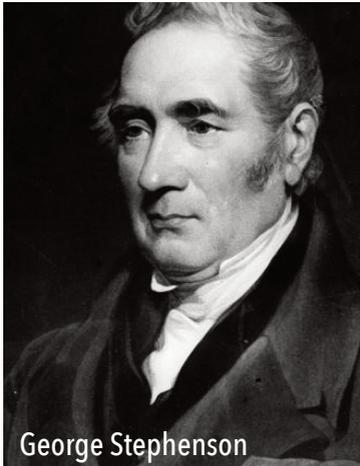
A dozen universities, R&D centres, new economy industry and major manufacturing all within an area of outstanding natural beauty, ancient history and culture



African Sustainable City designed and planned by Imaginatives Group at the size of Manhattan (70 square kilometres)



Northern Britain: *Passionate about Pioneering*



George Stephenson



Robert Stephenson

George Stephenson was called the Father of Railways. His son Robert was considered the greatest engineer of the 19th century. Born near Newcastle both George and Robert pioneered steam engines. Their historic workshop remains in Forth Street in Newcastle.



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Stephenson's Rocket 1829

