

Ayrshire
**Digital
Economy**



5G

*Innovation
Region*

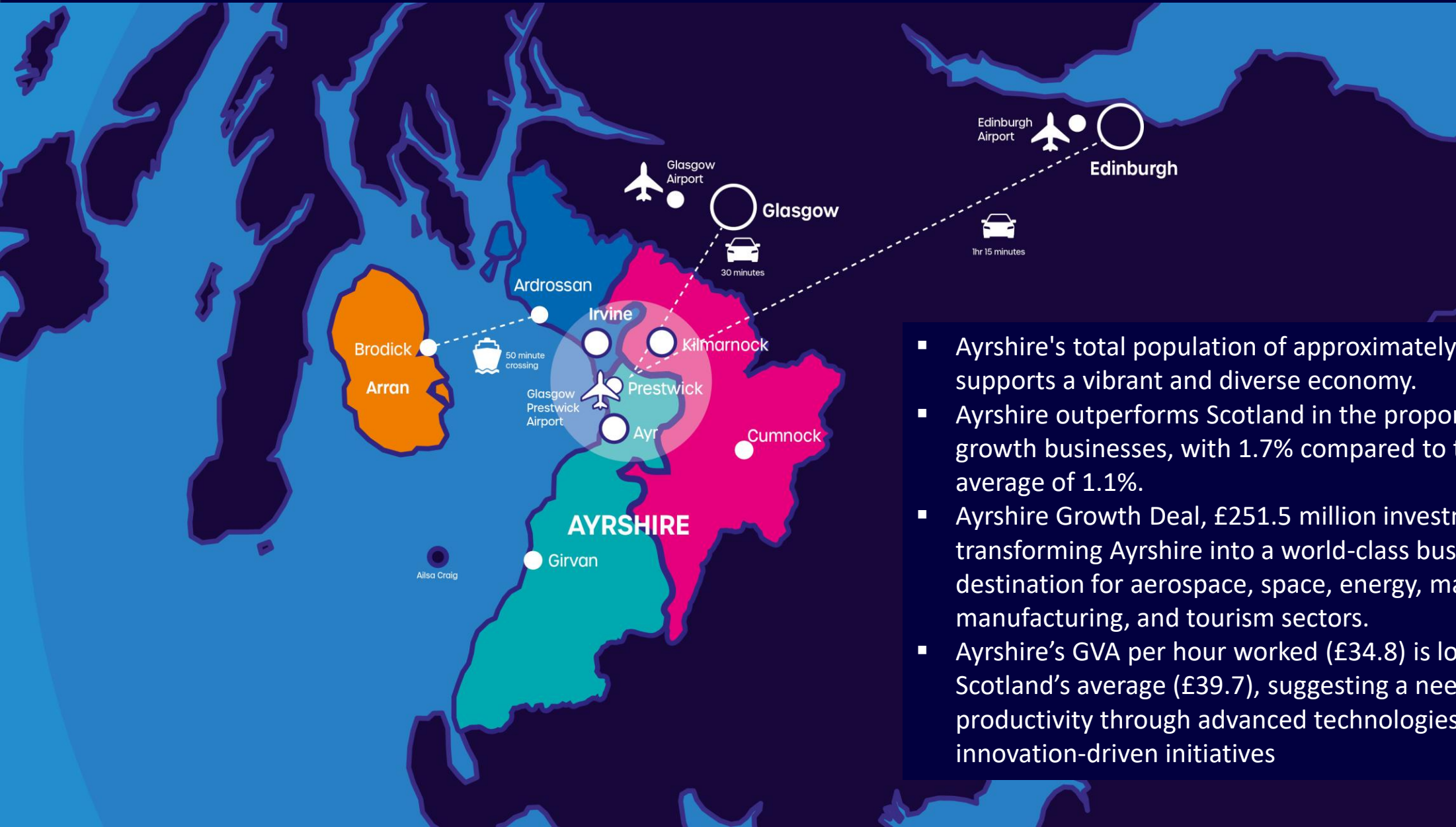


Ayrshire 5GIR Update Agenda

- Regional Economic Strategy
- Digital Economy Framework
- 5G Innovations Region Overview
- Ecosystem Development
- Strategic Partnership
- Sustainability Plan

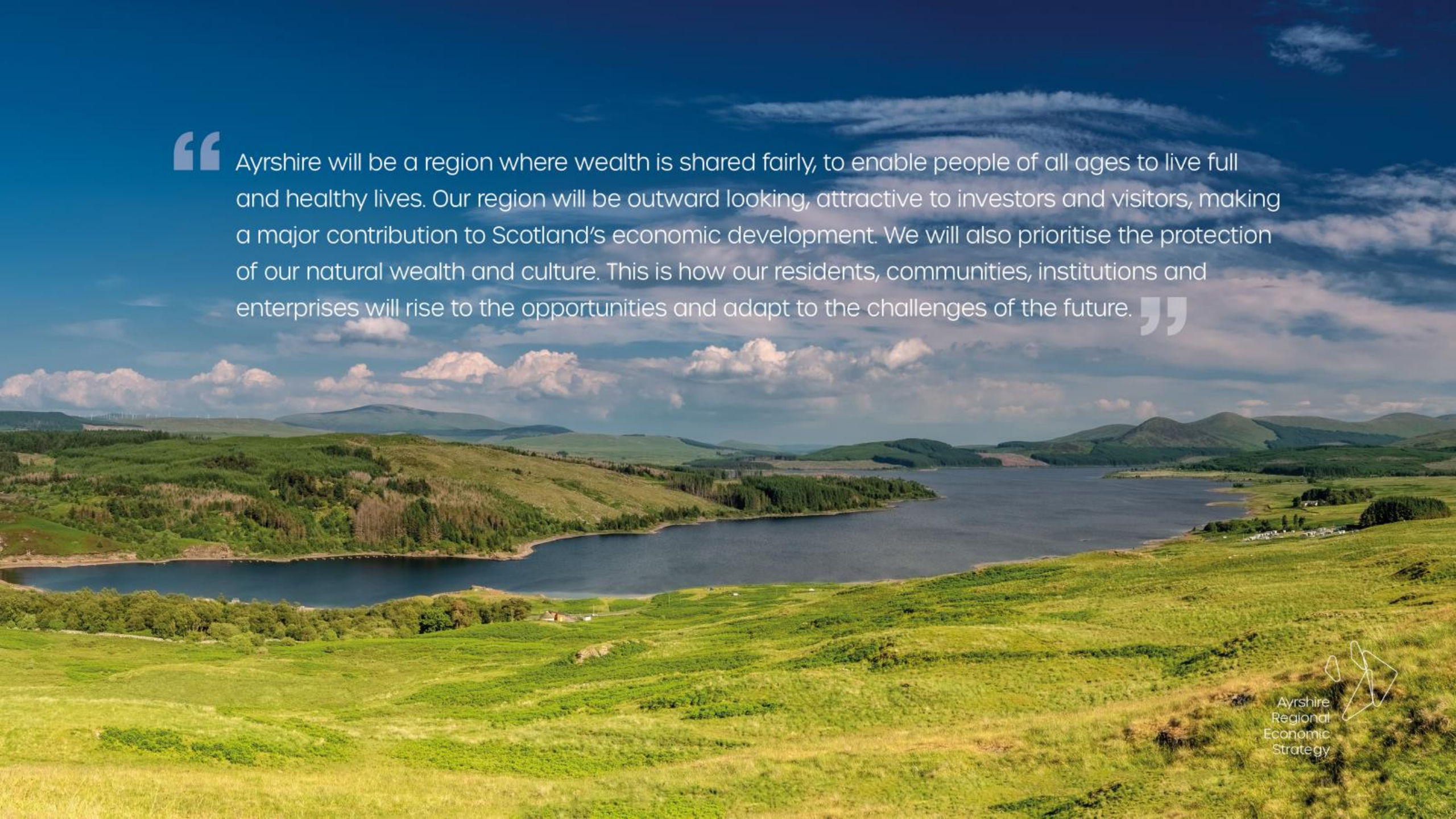


Ayrshire Region



- Ayrshire's total population of approximately 368,650 supports a vibrant and diverse economy.
- Ayrshire outperforms Scotland in the proportion of high-growth businesses, with 1.7% compared to the national average of 1.1%.
- Ayrshire Growth Deal, £251.5 million investment aimed at transforming Ayrshire into a world-class business destination for aerospace, space, energy, marine, manufacturing, and tourism sectors.
- Ayrshire's GVA per hour worked (£34.8) is lower than Scotland's average (£39.7), suggesting a need to boost productivity through advanced technologies like 5G and innovation-driven initiatives

“ Ayrshire will be a region where wealth is shared fairly, to enable people of all ages to live full and healthy lives. Our region will be outward looking, attractive to investors and visitors, making a major contribution to Scotland’s economic development. We will also prioritise the protection of our natural wealth and culture. This is how our residents, communities, institutions and enterprises will rise to the opportunities and adapt to the challenges of the future. ”









Ayrshire
Regional
Economic
Strategy

Six Themes

	Support for enterprise
	Fair work
	Innovation
	Good health and wellbeing
	Stronger places and communities
	Enhancing natural capital

Six Workstreams

	Skills
	Clean growth
	Digital Economy
	Aerospace/Space
	Visitor Economy
	Food and drink



Ayrshire
**Digital
Economy**

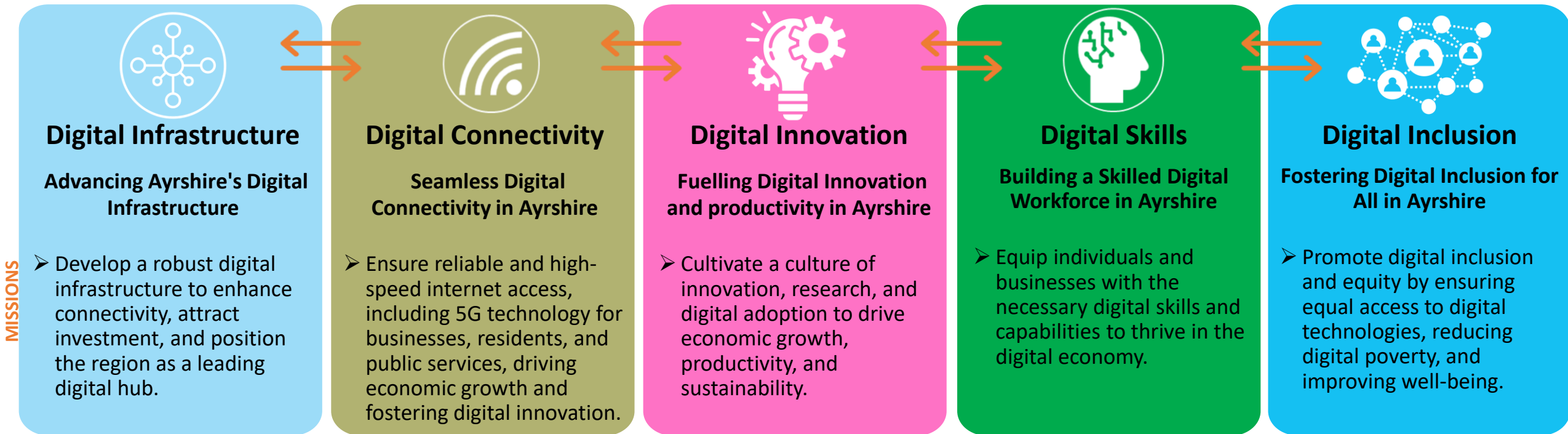
A Path Towards Smart
Connected Places and Digital
Manufacturing

The graphic features a central text 'Ayrshire Digital Economy' in white on a dark blue background. To the left, a dense cluster of colorful lines radiates outwards. To the right, several colorful, irregular shapes are scattered, resembling stylized outlines of buildings or abstract forms.

Ayrshire Digital Economy Framework



Vision: Transforming Ayrshire into a digitally inclusive region that embraces innovation, fosters economic growth, and enhances the quality of life for all residents while positioning itself as a leading destination for digital investment and collaboration.



Three cross-cutting themes: Empowering digital champions, leveraging data-driven decision-making, and embracing sustainability for a thriving and inclusive digital economy in Ayrshire.

Ayrshire
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Department for
Science, Innovation,
& Technology

UNIVERSITY OF THE
WEST of SCOTLAND
UWS

Ayrshire
College



NMIS
Digital Process
Manufacturing Centre



The
Scotland
5G Centre

vodafone

FarrPoint



East Ayrshire Council
Comhairle Siorrachd Àir an Ear



North Ayrshire Council
Comhairle Siorrachd Àir a Tuath

south
AYRSHIRE
COUNCIL
Comhairle Siorrachd Àir a Deas



Ayrshire's flagship 5G project driving connectivity innovation and adoption across the region.

5G ECOSYSTEM

1.



Advanced Manufacturing

2.



Aerospace Innovation with 5G

3.



SME IoT/5G Adoption

4.



5G for Tourism Events

5.



Immersive learning

£3.8m
funding from DSIT

10+
Project partners
& counting

5
Project streams
across Ayrshire's
key sectors

£1.25k
Worth of additional
investment secured
already

Ayrshire 5G Innovation Region Projects

Innovation Hubs Approach Projects

Leveraging Ayrshire's sectoral strengths by creating three Regional Strategic Wireless Innovation Hubs



Project 1 - Advanced Manufacturing

This project, led by NMIS and hosted at Scotland's Digital Process Manufacturing Centre, aims to showcase the transformative effect of wireless connectivity and digital technologies in advanced manufacturing.

Enabling Technologies: 5G MPN, real-time data sharing, automation, immersive AR/VR.



Project 2 – Aerospace Innovation with 5G & ORAN

This project, Led By UWS aims to create a wireless factory of the future to demonstrate the uses and benefits of 5G MPN within Aerospace & Engineering in the Prestwick Aerospace Cluster. This will provide an anchor to drive innovation and investment

Enabling Technologies: 5G MPN in a Box and Open Radio Access Networks (ORAN)



Project 3 – Business 5G & IoT Adoption

This project, led by S5GC, delivers grant funding to businesses to showcase advanced wireless technologies. Focus areas include Manufacturing, Food & Drink, and Life Sciences, driving awareness, adoption, and industry transformation.

Enabling Technologies: IoT, AWS adoption, challenge-based innovation.



Project 4 – 5G for Tourism and Events

This project explores how 5G connectivity can enhance operational efficiency at events, improving safety, real-time data sharing, and processes. It also focuses on developing insights to understand how public access to 5G can be improved in the future.

Enabling Technologies: Enhanced operational Wi-Fi connectivity, real-time data sharing, and event optimisation.



Project 5 – Immersive Learning

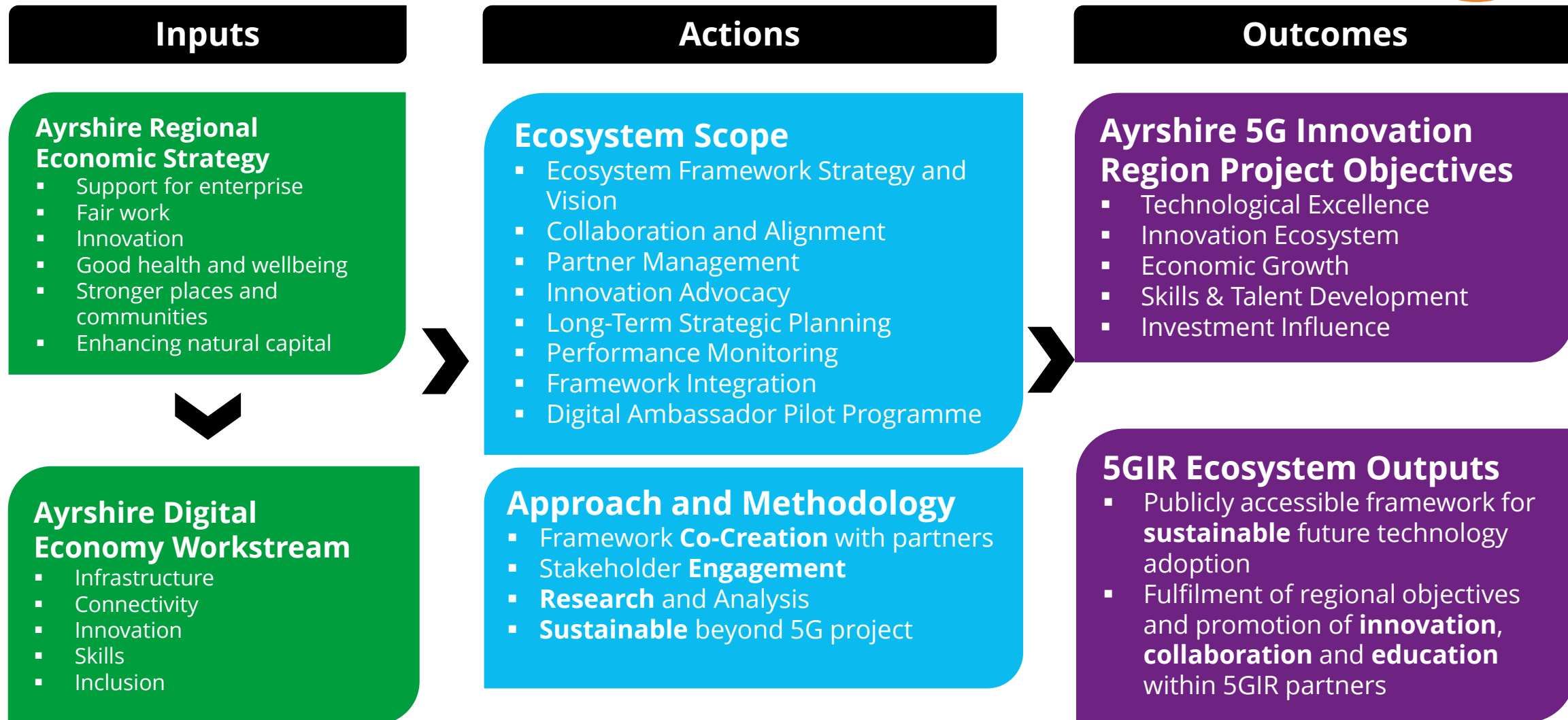
Led by Ayrshire College, this project uses 5G technology to deliver immersive AR/VR experiences, enhancing education, upskilling students, and supporting advanced manufacturing through a 5G-enabled extended campus.

Enabling Technologies: 5G-enabled AR/VR, extended campus, real-time collaboration.

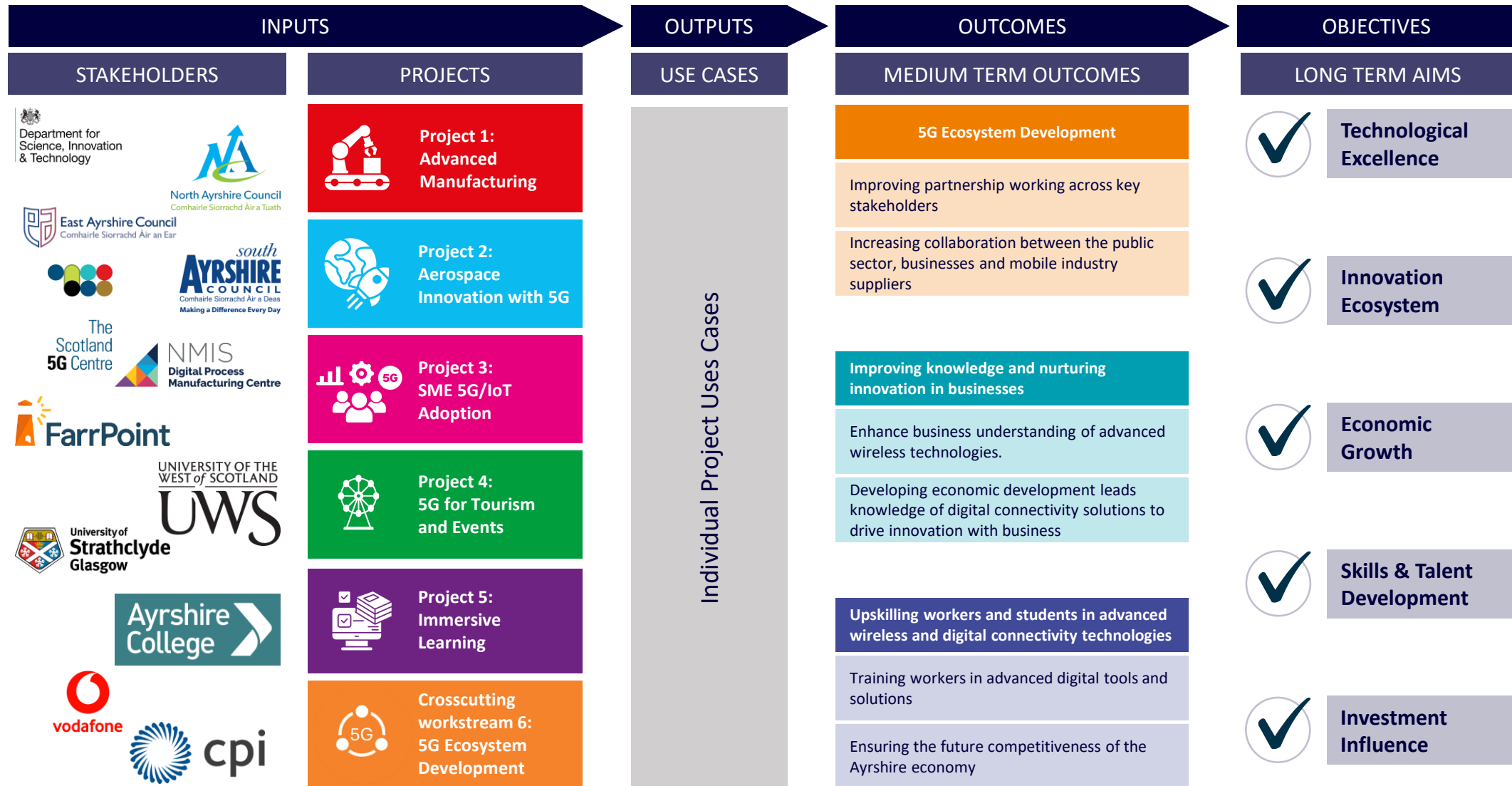


Cross Cutting Workstream 6 – 5G Ecosystem Development

This overarching workstream is aimed at fostering the development of a 5G ecosystem within Ayrshire. Through increased collaboration and stakeholder engagement, this will drive innovation, upskill businesses and influence future investment into the region.



Ayrshire 5G Innovation Region Benefit Realisation Framework





Industry Impact



Vodafone In Ayrshire

5GIR – Strategic Technology Partner



Vodafone's Role Within The 5GIR Programme



Trusted partner delivering 5G mobile private networks

- Deployment of 5G MPN within DPMC
- “Pop Up 5G MPN” for UWS with pre-loaded use cases



Supporting use case creation through collaboration

- Participating and delivering workshops with partners to develop 5G use cases
- Bringing together a global partner ecosystem



Supporting digital skills and technology adoption

- Boosting digital skills through education workshops and support programmes for schools, business and communities



Strategic innovation partnership beyond the 5GIR

- Ensuring scalability and repeatability of use cases across industry
- Support benefits realisation through technology adoption
- Continue to innovate and develop new technologies and applications based on user requirements and industry challenges.



Building A Regional Innovation Ecosystem

Fostering partnerships and collaboration to drive technology adoption across industry, academia, and public sector organisations.



Future-proofing Ayrshire's businesses & communities with cutting-edge connectivity, skill development and innovation



National Manufacturing Institute Scotland

Driving the future of manufacturing through innovation. Vodafone & NMIS have deployed a best-in-class 5G MPN to help drive the next wave of manufacturing use cases



Scotland 5G Centre

S5GC & Vodafone deployed a 5G Mobile Private Network (MPN) to enable businesses and academic researchers to test new 5G enabled products and solutions

Vodafone
Connectivity
Partner



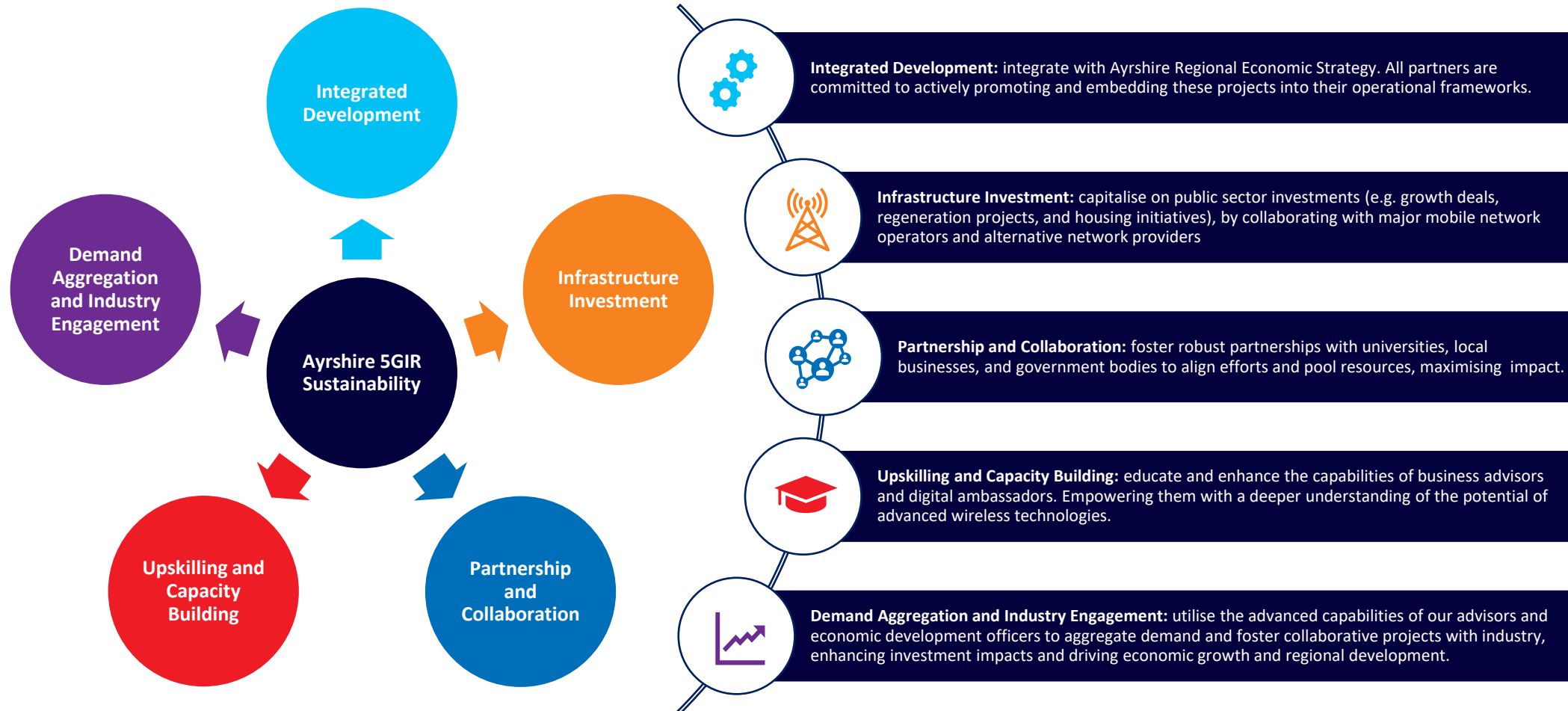
Ayrshire - 5G Innovation Region.

In collaboration with partners, this programme is set to enhance the adoption of 5G technologies and applications, fostering a transformative impact across various sectors.



Ayrshire 5G Innovation Region Sustainability Plan

Looking to the next stage in the project development, work is being undertaken, focussed on the long-term sustainability of the project beyond March 2025, based around our 5-Point Sustainability Plan:



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