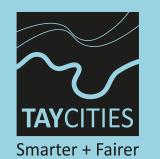
Project update







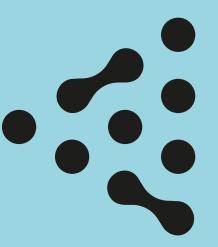






What is Perth West?

Perth West is a unique proposition to integrate low carbon innovation within a single urban development, comprising:



- The Perth Innovation Highway connecting smart city mobility and full fibre strategies with renewable energy sources;
- The Perth Eco Innovation Park with facilities over 25 hectares for advanced logistics and a Living Lab centre to host academic research;

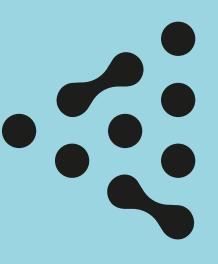
- The DR.ECO solar park connecting 20MW of solar energy into smart grid networks serving the development; and
- The Lamberkin Villages centred around community mobility hubs to promote active travel and wellbeing through blue-green infrastructure and the promotion of the 20 minute neighbourhood.



What is Perth West?

Perth West aims to be a catalyst for the transition to Net Zero across Perth & Kinross and an exemplar project for the UK.

Public demand for active travel options and a better work-life balance is far ahead of current provision. Perth West will deliver skilled jobs in the fastest-growing sector of our economy while also enabling a rethink of the way we live and move around cities.





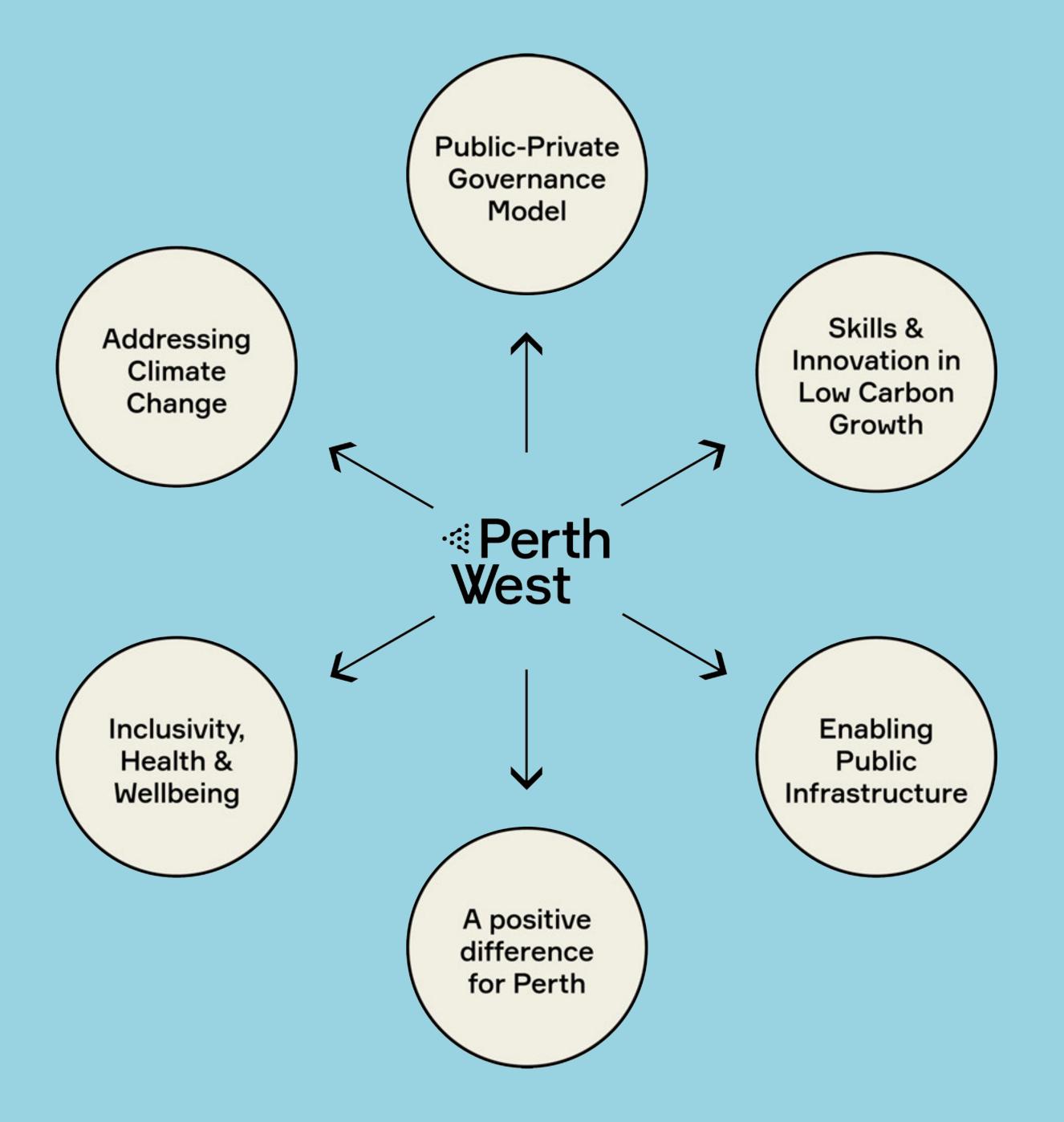
Perth West Context Plan

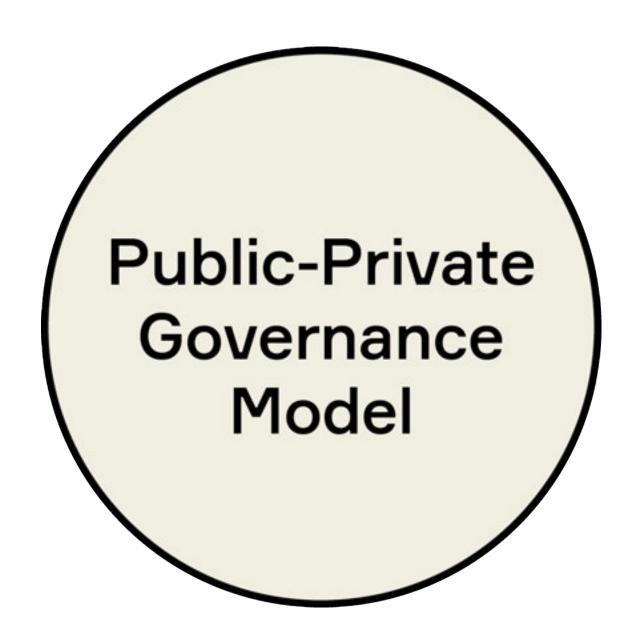
Innovation highway provides:

- Connecting Neighbourhoods
- Low carbon energy
- Digital Platform
- Public transport infrastructure
- Sharing and active travel
- Mobility Hubs (Regional & Neighbourhood)
- Platform for shared and connected autonomous electric vehicles.
- MaaS platform



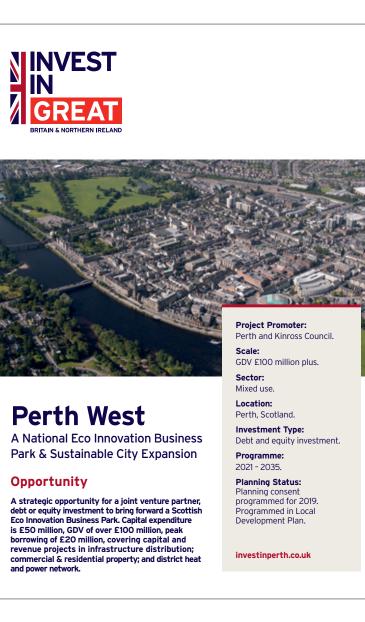
Perth West Vision

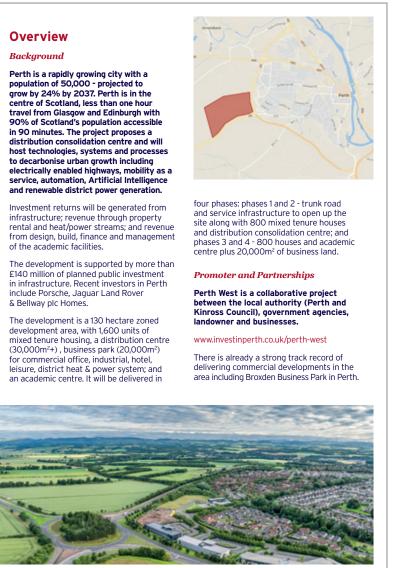


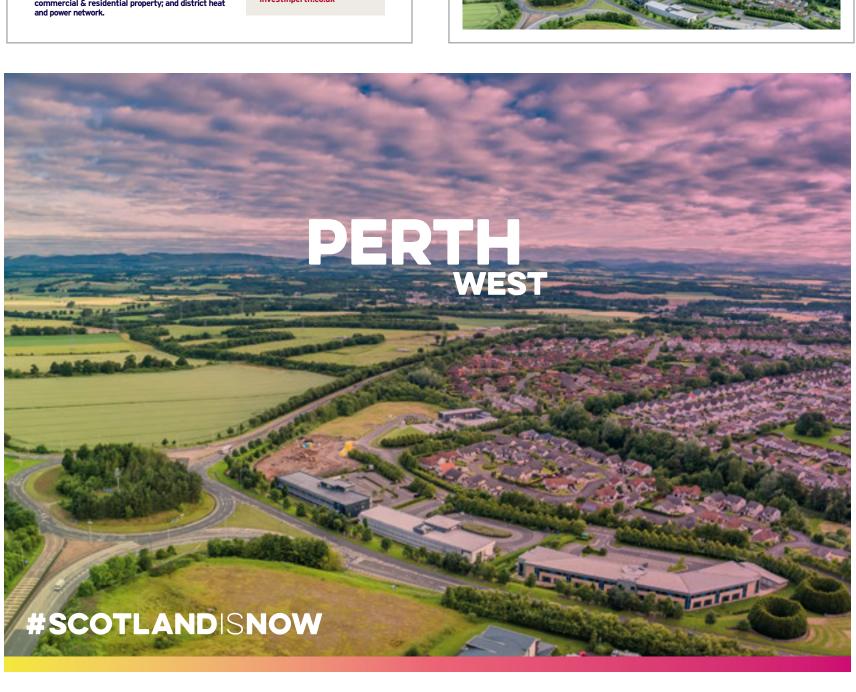


- > To deliver a project to showcase government targets for sustainable development aligned to Perth & Kinross Council's post covid recovery plan and Climate Emergency Action plan requires a Governance model that fosters collaboration between the Public and Private sectors with support from academic research.
- > Perth & Kinross Council have entered a Memorandum of Understanding with the landowner and project promoter and formed a delivery board which is to be expanded to draw in expertise from private energy and transport companies, Universities and government agencies.
- > The University of Edinburgh is supporting the development of a governance model that facilitates private investment, public benefit and future infrastructure.

National Investment Context



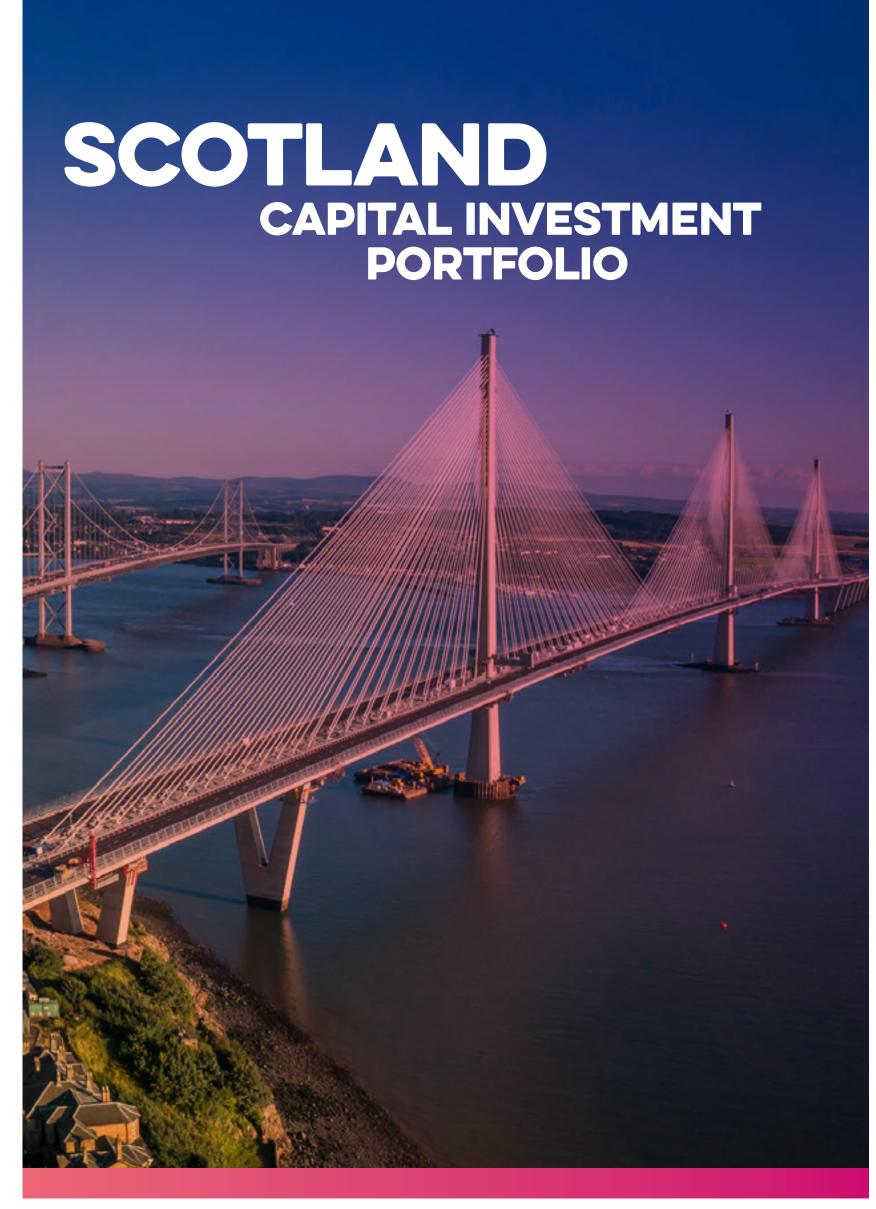




Overview

of the academic facilities.

& Bellway plc Homes.



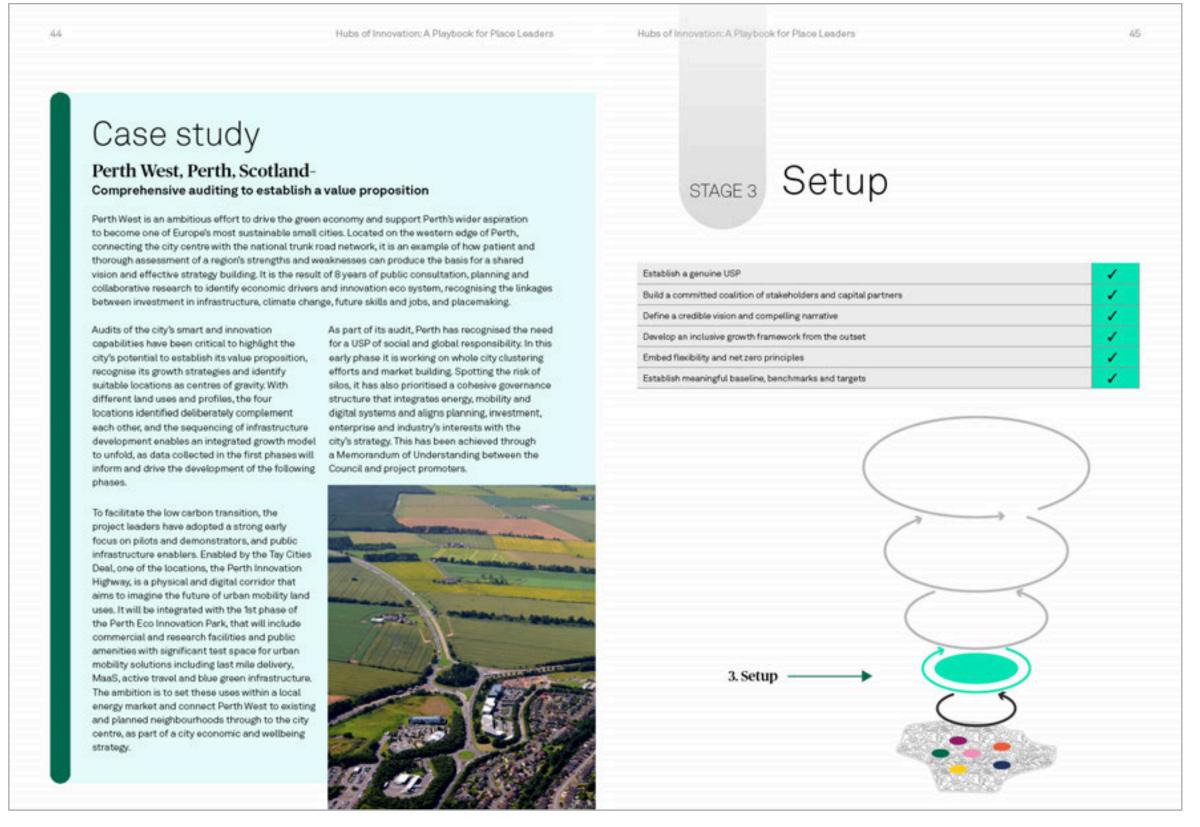




- > Pandemic has embedded home-working with a shift in infrastructure priorities for office workers away from road networks towards robust internet provision, home energy efficiency and local facilities
- The Perth Innovation Highway is a Tay Cities Deal project to embed smart road technology in the main access road connecting Perth West to Perth city centre. Integral to the smart road infrastructure is a gigabit capable full fibre network (DCMS-backed rollout) and a green smart grid (DR.ECO project)
- > The Perth Innovation Highway supports a series of community based mobility hubs to link the physical, digital and energy infrastructure into the residential and commercial site as well as providing local services and facilities.
- ➤ Blue-Green infrastructure combines climate change adaptation with placemaking objectives to support biodiversity within the development

Connected Catapult Places Innovation Hub – a playbook for place leaders

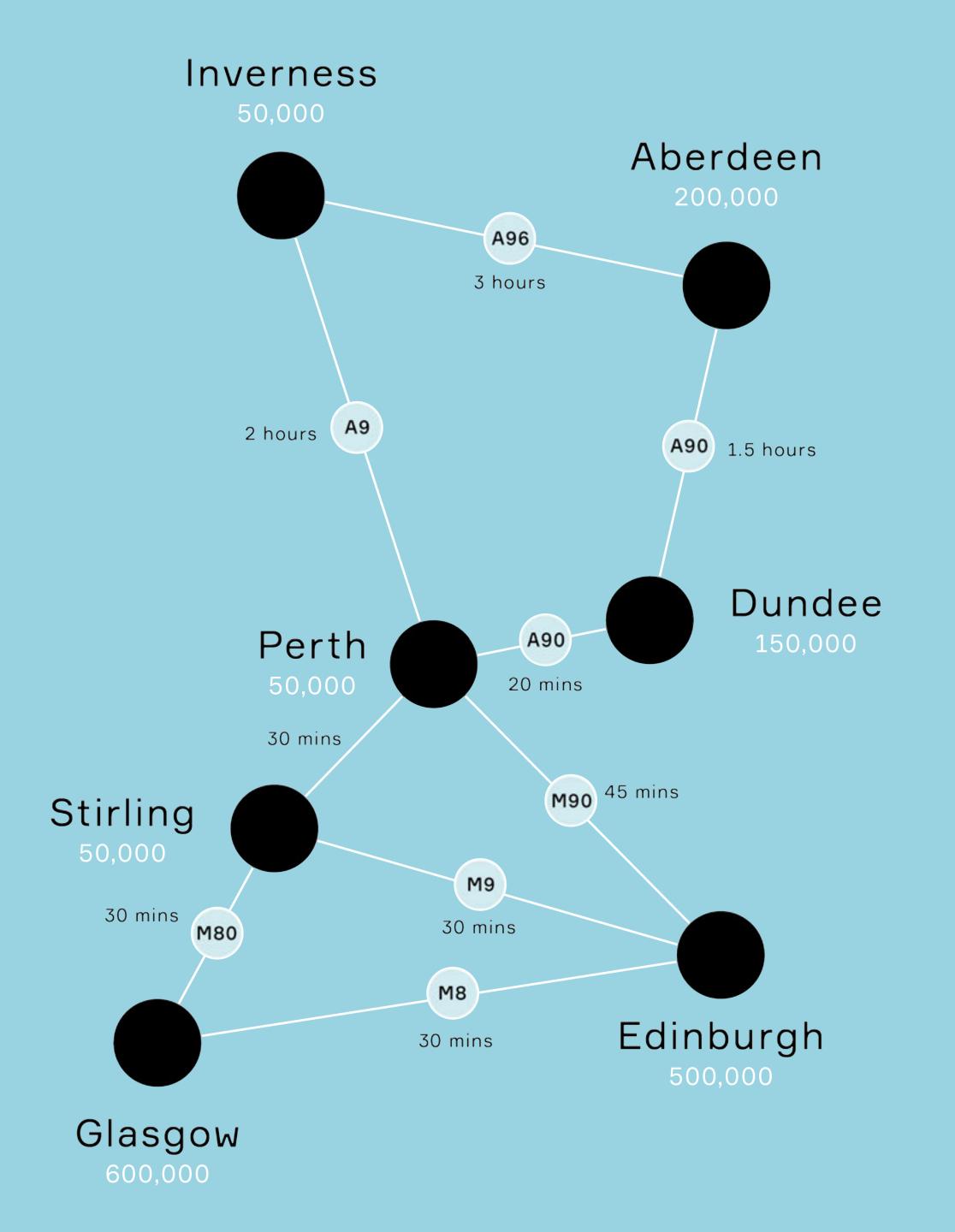




Skills & Innovation in Low Carbon Growth

- The Perth Eco Innovation Park is 25Ha of land with outline consent for employment use at the Broxden roundabout where the A9 (Glasgow/Stirling/Inverness) meets the M90/A90 (Edinburgh, Aberdeen, Dundee) on the western edge of Perth.
- A strategic location to stimulate growth in advanced logistics, distribution and related activity.
- > Central location for a Living Lab centre to integrate academic research and innovation facilities in the advanced logistics, mobility and energy sectors.
- ➤ Working partnerships established with University of Edinburgh (Edinburgh Innovations), St Andrews University (Eden Campus) and Cranfield University (Peterborough PIRI and Milton Keynes MK:U) to integrate research work at Perth West nationally and to enhance the education programme for UHI Perth College.

Scotland's 7 connected cities





- ➤ Forecast economic benefit of £137.4m annual uplift in gross GVA from employment in the high productivity sectors hosted in the Perth Eco Innovation Park
- > Projected to support 2,300 gross jobs (1,080 net additional to Perth & Kinross) once fully developed
- Addressing a deficit in high-skilled employment opportunities in Perth & Kinross
- > Strengthening the education programme available to Perth's school leavers through collaboration with UK-wide universities in the Living Lab
- Catalyst for low carbon growth in Perth & Kinross with knowledge and experience readily transferred across the UK.

The Perth Innovation Highway



The Perth Innovation Highway is the platform for innovation within Perth West. The following is a list of technology that could be deployed:

- IoT connectivity with sensors that monitor and report changing road conditions and WiFi transmitters to provide broadband to vehicles, homes & businesses;
- Glow in the dark roads with photoluminescent paint retaining daylight to enhance road safety;
- Interactive lighting to illuminate only active sections of road;
- Priority lanes for conductive charging of electric vehicles on the move;

- Weather detection with AI-integrated sensors to detect weather conditions and adjust road speed accordingly;
- Traffic detection that both advises drivers in real-time but can also monitor and collate date on road usage patterns to inform future policy.
- Smart traffic signals that utilise AI to manage traffic and pedestrian movements to improve traffic flow which benefits air quality and pedestrian safety.
- Road defect sensors embedded within the road to detect wear and tear with information used to coordinate maintenance as well as informed future construction methods



- > Perth Innovation Highway and Community Mobility Hubs will embed public transport provision and active travel within the development with facilities for EV charging, car sharing, local parcel delivery and carless streets offering residents an alternative to car ownership.
- > Creating a heritage park to commemorate the Battle of Tippermuir will be the cornerstone of a Blue-Green infrastructure that seeks to create net biodiversity gain within the development.
- > Public art, footpaths and cycle tracks will promote community activities and integration.
- An approach to housing tenure that builds a vibrant integrated neighbourhood with digital connectivity to support smart home technology and supported living in the community.

Community Mobility Hubs

Energy

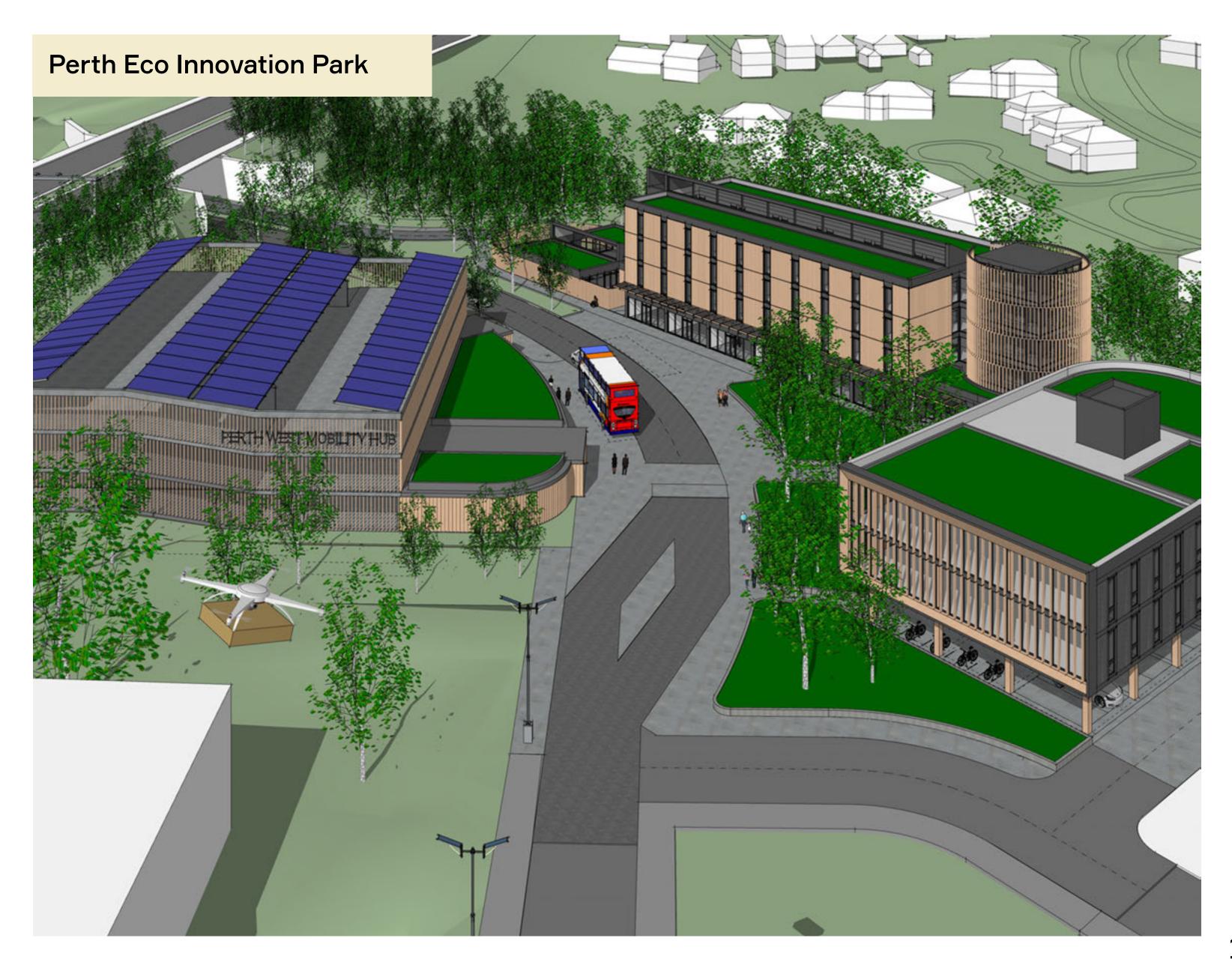
- Connected to DR.ECO solar park and rooftop solar
- Communal battery
- Public/shared EV charging
- Smart-grid for 500 connected houses

Mobility

- Public transport connection
- EV car club / residential parking
- Docked eBikes / eScooters

Community

- Community space
- Café & Play space
- Co-working facilities
- Storage pods & Parcel lockers





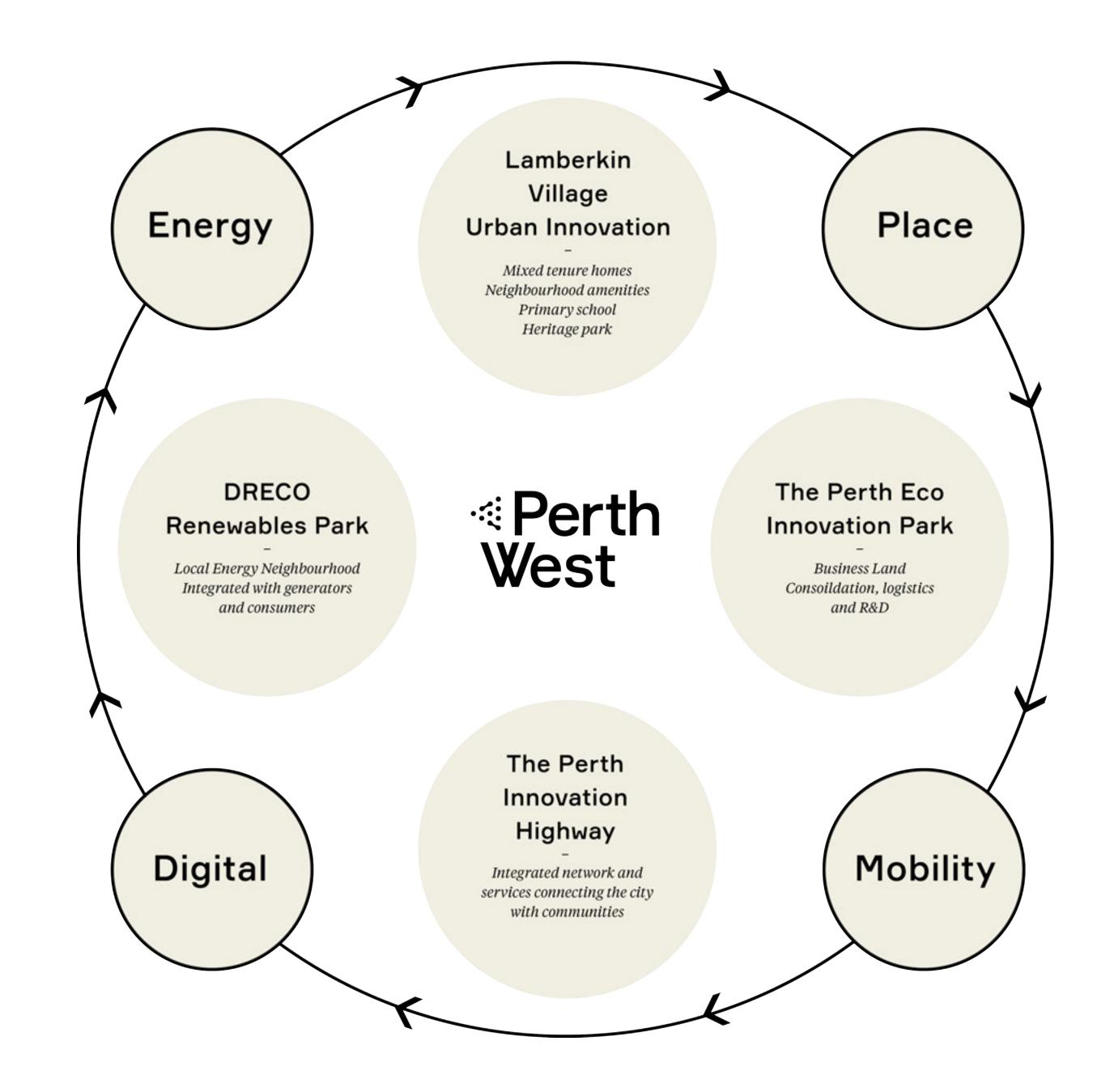
- > Co-development of the DR.ECO 20MW solar park linked to local smart grids hosted at the community mobility hubs.
- Mobility strategy to promote active travel and public transport and an energy infrastructure to support EV charging.
- > Residential development reliant on electricity-based heating solutions and with technology and facilities to support homeworking.
- Integration of blue-green infrastructure to improve biodiversity and wellbeing within the development.

A people and place based approach to new development



Perth West: An Integrated Development

This is brought together through a development concept that seeks to integrate climate adaptation, inclusive growth and place based solutions.



perthwest.com

