

THEME: INNOVATION

PROJECT: NET ZERO TECHNOLOGY CENTRE (NZTC)



The Net Zero Technology Centre focuses on developing and deploying technology to support the energy industry's transition to net zero. Key activities include:

- Solution Centres: Manage technology development programs, adopt and develop new technologies.
- Centres of Excellence: Enhance R&D capabilities in universities and industry, invest in specialized equipment and testing facilities.
- Supply Chain Technology Accelerator Programme: Stimulate supply chain innovation and increase R&D.
- Technology Network Hub: Build relationships with innovation centres and provide market intelligence.

INCLUSIVE GROWTH/SHORT AND MEDIUM TERM OUTCOMES/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)

Delivered in 2023/24:	BUSINESS CASE BENEFIT	MEASURES	TARGET	2022 REVISED TARGETS	TARGET DATE	2022/23	2023/24	
	<p><b>Delivered in 2023/24:</b></p> <ul style="list-style-type: none"> <li>• NZTC has created 585 jobs and safeguarded a further 970 jobs in the energy sector all of which pay at least the Real Living Wage. These jobs have contributed around £150m GVA.</li> <li>• Almost 60% of businesses engaging with NZTC are existing businesses while around 1 in 5 were new start-ups.</li> </ul> <p><b>Benefits to date (up to March 2024):</b></p> <ul style="list-style-type: none"> <li>• There have been 8 school visits to promote the NZTC to date and wider sector opportunities. 20 career ready students have been supported and 72 internships have been hosted.</li> <li>• Over 80% of businesses since their involvement with NZTC are now innovation active businesses.</li> <li>• Nearly 90% of respondents reported having used or invested in net zero/low carbon technologies.</li> <li>• Around 2/3rds of the 154 respondents have undertaken collaborative work with academia or other businesses.</li> <li>• 130 have responded on whether they have since secured investment (loan, grant, private equity). Over 40% of these have done so, with investment of over £52m.</li> </ul>	<b>MATCH FUNDING</b>	Co-investment match funding from the private sector (operations and supply chain)	£174.1m	£220m	2026	£180m	£205m
<b>INCREASE IN GVA</b>		Additional GVA	£8.9bn - £26.9bn	£8.9bn - £26.9bn	2036	£15bn-£20bn	£10bn-£17bn	
<b>NEW TECHNOLOGIES DEPLOYED</b>		Increase the number of new technologies that have been deployed on a first user principle by year 10	10	50	2026	64	162	
<b>COMMERCIALISED SOLUTION CENTRE TECHNOLOGIES</b>		Number of NZTC solution centre funded technologies reaching commercialised phase (TRL9) by year 10	15	45	2026	30	59	
<b>SUPPLY CHAIN PROJECTS FUNDED</b>		Number of supply chain technology accelerated projects co-funded within the 10 years	100	100	2026	57	69	
<b>TECHNOLOGY SCREENED</b>				2,500	2026	2,170	3,135+	
<b>FIELD TRIALS</b>				200	2026	175	159	
<b>THOUGHT LEADERSHIP CONTRIBUTIONS</b>				500	2026	290	350+	
<b>TECHNOLOGY SERVICES PROJECTS</b>				30+	2026	7	11	
<b>MILLION TONNES CO2 p.a. abated by 2030</b>				5	2030	42+	42+	

**THEME: INNOVATION**

**PROJECT: ONE BIOHUB**



Based at the Foresterhill Health campus, the ONE BioHub creates a vibrant Life Sciences cluster and a supportive ecosystem to accelerate the number of spin-outs, new starts and growth companies. The Hub provides space for industry to collaborate and innovate in creating the next generation of products and therapies in known areas of research strength such a biotherapeutics, modern epidemics, medtech, diagnostics and nutrition.

**INCLUSIVE GROWTH/SHORT AND MEDIUM TERM OUTCOMES/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)**

	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	2022/23	2023/24
<p><b>Delivered in 2023/24:</b></p> <ul style="list-style-type: none"> <li>During this reporting period, 17 businesses (41 participants) benefitted from support funded and provided through ONE BioHub, to strengthen the region's Life Sciences ecosystem.</li> <li>Since ONE BioHub opening, a total of 9 events were held with 290 participants including researchers, innovators and entrepreneurs, leaders, and stakeholders.</li> <li>During this reporting period, 6 events were delivered to 168 school students and HE graduates.</li> </ul> <p><b>Benefits to date (up to March 2024):</b></p> <ul style="list-style-type: none"> <li>244 employment opportunities have been delivered via Community Benefits clauses that pay at least the Real Living Wage. This is significantly higher (960%) than the projected numbers (23) at the commencement of the project. This figure includes work placements (15), apprenticeships (16), graduate employment opportunities (1) and general jobs (212).</li> </ul>	LIFE SCIENCES SUPPORT PROGRAMMES	Launch a Life sciences support programme	Deliver	2017	Delivered	Delivered
	ESTABLISHMENT OF COLLABORATIVE BIO-THERAPEUTICS SPACE	Establishment of a 69,000 sq. ft flexible collaborative space	Deliver	2019	Delivered	Delivered
		% occupancy rate of collaborative space by year 5	80%	2025	-	In Progress
	STARTUP AND SPINOUTS	Number of spinouts achieved by year 5	24	2025	-	In Progress
	NETWORKING EVENTS FOCUSING ON COMPANY GROWTH	Number of networking events per annum	4	-	15	24
	INTERNATIONAL COLLABORATIONS	Number of International collaborations in place over 5 years	2	2022	In Progress	In Progress
	GENERATE GVA		£76m - £138m	2047	£17m (including GVA from construction)	£18m

THEME: INNOVATION

PROJECT: ONE SEEDPOD



The project will create a physical hub/centre for the food and drink sector that provides incubator space, product development kitchens and demonstrator space, and will deliver wrap-around support programmes and accelerators to enable and catalyse the sustainable growth of a vibrant sector.

INCLUSIVE GROWTH/SHORT AND MEDIUM TERM OUTCOMES/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)

<p><b>Delivered in 2023/24:</b></p> <ul style="list-style-type: none"> <li>The construction of ONE Seedpod has so far created 416 jobs all of which are paid at least the Real Living Wage.</li> <li>7 apprenticeships have been completed.</li> <li>There have been 11 Construction Careers information and guidance events and 6 Curriculum support activities in primary and secondary schools.</li> <li>During this reporting period (FY 23-24), a total of 228 businesses participated in networking events, creating valuable opportunities for collaboration and industry connections. Additionally, business support programmes provided direct support to 49 businesses, all of which are identified as innovation-active, enhancing their capacity to innovate and remain competitive.</li> <li>In the 2023 Leadership Forum, five participants from four distinct businesses engaged in a structured programme focused on networking, knowledge exchange, and skill development.</li> <li>GVA from construction jobs, jobs created and safeguarded to be included in 2024/25 reporting period.</li> </ul> <p><b>Benefits to date (up to March 2024):</b></p> <ul style="list-style-type: none"> <li>Over 35 start-ups participating in the accelerator programme which is above the project target.</li> </ul>	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	2022/23	2023/24
	<b>ESTABLISH A PHYSICAL HUB</b>	Build and open a 30,000 sq. ft flexible space	Deliver	2021	In Progress	In Progress
	<b>ACCELERATOR</b>	First cohort of 10 start-ups participating in the accelerator programme	Minimum 10 Companies	2020	37	Delivered
		10 start-ups achieved by year 5	2 per year	2025	4	4
	<b>BUSINESS GROWTH</b>	1 growth programme per year with 10 company participants each	1 per year	2021-25	2 growth Prgm. with 17 bus. & 22 participants	2 growth Prgm. with 17 bus. & 22 participants
	<b>BUSINESS GROWTH</b>	Increase in company turnover by min 5% per annum	5% Growth	2025	-	In Progress
	<b>BUSINESS GROWTH</b>	20 companies to have achieved significant sales (10% of turnover) in new markets	20 companies	2028	-	In Progress
			2 (international)		-	
	<b>MANUFACTURING 4.0</b>	4 companies per year investing in advanced processing technology /smart manufacturing – achieving 25% gain in productivity	4 companies	2021-25	-	In Progress
	<b>FOODS OF THE FUTURE</b>	10 companies investing in R&D, 5 of these in collaboration with academia	2 per year	2025	3	5
<b>GENERATE GVA</b>		£69M - £109M	2049	-	-	

THEME: INNOVATION

COMPLETED PROJECT: ABERDEEN SOUTH HARBOUR



This major capital project transformed the capacity of Aberdeen South Harbour through the additional 1.5km of deepwater berths (up to a maximum of 15m depth) to the port estate and can accommodate ships up to 300m in length, a significant increase to the port’s previous capability of 165m. It also has extensive heavy-lift zones, and 125,000m2 of flexible laydown space with expansive project areas. Aberdeen South Harbour officially opened in September 2023 and the expanded port now offers its customers and port users 7.6km of quayside, making it Scotland’s largest berthage port.

INCLUSIVE GROWTH/SHORT AND MEDIUM TERM OUTCOMES/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)

	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	2022/23	2023/24
<p><b>Delivered in 2023/24:</b></p> <ul style="list-style-type: none"> <li>11 completed apprenticeships, 8 school visits to the Harbour with roughly 15 pupils a visit and 6 academy career fairs.</li> <li>248,153 tonnes of cargo passed through Aberdeen South Harbour.</li> <li>7 businesses were involved in exporting activities. (Timber and pipe).</li> <li>12 permanent jobs have been created and a further 2 safeguarded that pay the Real Leaving Wage at the South Harbour since the project began.</li> <li>Estimated increase expenditure of £2.6m from passengers on cruise ships.</li> </ul> <p><b>Benefits to date (up to March 2024):</b></p> <ul style="list-style-type: none"> <li>Delivered 42,000 square metres of quayside hardstanding.</li> <li>Over £380m construction contract supporting an estimated 2,375 construction jobs over the duration of the contract.</li> </ul>	INCREASE IN GVA BY YEAR 20	City Region from 2025	£0.8b	2040	£1m	£299m
		Scotland from 2025	£0.9b	2040	-	-
	INCREASE IN JOBS BY YEAR 20	City Region from 2025	5,550	2040	11	2,378
		Scotland from 2025	7,160	2040	-	-
	CRUISE VESSEL VISITS	From 2025	60	2025	-	43
		From 2030	75	2030	-	-
		From 2035	85	2035	-	-

**THEME: DIGITAL**

**PROJECT: DIGITAL CONNECTIVITY PROGRAMME**



The Aberdeen City Region Deal provides the opportunity to create a sustainable infrastructure from which the region can transform into a world class digital area. At the core is the need to deliver ultrafast connectivity and use this to grow existing businesses; attract further investment; create new businesses; deliver excellent public services; support mobility and protect the environment; and enhance the area's attractiveness as a place to live and work.

**INCLUSIVE GROWTH/SHORT AND MEDIUM TERM OUTCOMES/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)**

Within the Aberdeen City Region Deal, the Digital Theme encompasses work being carried out by various stakeholders, to bring improved digital connectivity to the region, and to nurture innovation in the use of digital technology and connectivity, to bring economic benefits to the region. Within this workstream, the Digital Engagement Team was created with a remit to directly support residents, businesses, and communities, in matters relating to digital connectivity, and to work with all necessary stakeholders to find ways to improve digital connectivity for the Region.

- Delivered in 2023/24:**
- 97.70% of residential dwellings had access to fast internet download speeds (min 30mbps).
  - 85.39% of commercial premises that have access to fast internet download speeds (min 30mbps)
- Benefits to date (up to March 2024):**
- Across all digital projects nearly £30m GVA has been created from construction projects and job creation alone.

THEME: DIGITAL

PROJECT: DUCT NETWORK EXTENSION



The project aims to extend Aberdeen City’s duct infrastructure and provide the necessary foundations for the delivery of the wider digital theme within the City Region Deal, The deployment of the duct network will focus on the strategic road corridors, with an aim to provide connected corridors fit for future growth particularly around Connects and Autonomous Vehicles (CAV’s).

INCLUSIVE GROWTH/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)

<p><b>Delivered in 2023/24:</b></p> <ul style="list-style-type: none"> <li>47 transport systems connected along the duct network route.</li> <li>33km passed enabling effective duct network infrastructure.</li> <li>Phase 2 and Phase 3 delivered by Aberdeen City Council and all employees are 100% paid at least the Real Living Wage.</li> </ul> <p><b>Benefits to date (up to March 2024):</b></p> <ul style="list-style-type: none"> <li>2 communication providers delivered in the local market as per project target.</li> <li>5 construction jobs were created all of which were paid at least the Real Living Wage. In addition a further 5 jobs were safeguarded.</li> <li>17 employment opportunities were delivered via Community Benefits clauses.</li> </ul>	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	2022/23	2023/24
	<b>STIMULATE THE MARKET TO INCREASE COMPETITION</b>	No. of communication providers in the local market	2	2023	2	Delivered
	<b>INCREASE ATTRACTIVENESS TO TECHNOLOGY ENABLERS</b>	No. of organisations attracted to deploy pilot or test solutions	-	-	In Progress	In Progress
	<b>QUICKLY DEPLOYING 5G SMALL CELL</b>	No. of small-cell communication sites, Uptake of 5G and Cost of 5G	To be identified	Post 2026	-	-
	<b>EARLY ADOPTION OF AUTONOMOUS VEHICLES</b>	No. of suppliers testing autonomous vehicles in Aberdeen	-	2025	-	-
	<b>COST-EFFECTIVE ENABLING DIGITAL INFRASTRUCTURE</b>	Connecting transport systems along the duct network route	-	2023	38	47
		Number of duct partners (e.g.: NHS, Police, Universities, etc)	3	2023	3	Delivered
Km passed		-	2023	25km	33km	

THEME: DIGITAL

COMPLETED PROJECT: CITY NETWORK EXTENSION (City-wide Fibre Connectivity)



The project developed an aggregate public-sector model to act as an anchor tenant for full fibre Broadband. City Fibre Holdings and Vodafone invested £59m to provide full fibre to the premises, business, Aberdeen City schools and connect people to vital service provision.

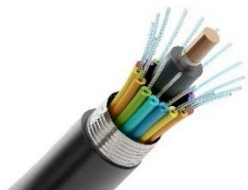
INCLUSIVE GROWTH/ ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)

Benefits to date:	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	CURRENT MEASURE
<ul style="list-style-type: none"> <li>57 public sector sites had been connected and transitioned to the corporate network</li> <li>150 jobs created and 30 safeguarded through the duration of the project.</li> </ul>	PRIVATE SECTOR INVESTMENT	Investment from the private sector in fibre infrastructure	£15m	2021	£59m
<ul style="list-style-type: none"> <li>Increased the number of Internet Service Providers using City Fibre's full fibre network offering greater consumer choice and competitive broadband packages.</li> </ul>	INCREASED AVAILABILITY OF FIBRE TO THE PREMISES IN ABERDEEN CITY REGION	Number of premises in Aberdeen City with access to ultrafast services	90,000	2021	105,000 homes
<ul style="list-style-type: none"> <li>Increased business resilience and productivity as well as improving the ability to work from home through better connectivity.</li> </ul>	TIMING ADDITIONALITY – SECURING A LEVEL OF INVESTMENT SOONER	Direct Network Build Benefits	£25m (over 15 years)	2030	£59m
<p><b>CityFibre have worked with, or supported, several community groups:</b></p>	SCALE ADDITIONALITY – SECURING A LEVEL OF COVERAGE AND FUTURE ROLL-OUT	Network Build in Aberdeen City	km network built	2021	807Km
<ul style="list-style-type: none"> <li>Donation to local youth football club in Aberdeen to participate in the Edinburgh Cup.</li> <li>A collaborated with the Silver City Surfers to ensure digital inclusiveness and deliver a series of digital training sessions to residents living in sheltered housing, helping them to stay connected with loved ones and friends during the pandemic.</li> </ul>	TRANSFORMATION OF ABERDEEN CITY INTO ONE OF THE UK'S MOST CONNECTED CITIES WITHIN TWO YEARS		Deliver	2019	Delivered
<ul style="list-style-type: none"> <li>Sponsorship of CLAN's 'Light the North' trail. This was 50 lighthouses at specific locations in the Northeast of Scotland and Northern Isles. The money raised from the initiative went towards supporting vital cancer support services across the region and helped local artists impacted by the pandemic.</li> </ul>	LAYS THE PLATFORM FOR FURTHER CONNECTIVITY, SUCH AS 5G AND THE INTERNET OF THINGS		Deliver	2030	In Progress
<ul style="list-style-type: none"> <li>A community donation to the West End/Queen's Cross Christmas Lights in December 2021.</li> </ul>	LAYS THE FOUNDATION FOR EXPANSION INTO KEY ABERDEENSHIRE ECONOMIC DEVELOPMENT LOCATIONS		2 programmes of work	2021	In Progress



**THEME: DIGITAL**

**COMPLETED PROJECT: FULL FIBRE INFRASTRUCTURE (Gigabit Connectivity)**



This project aimed to stimulate investment by the private/commercial sector in full fibre within the City Region by delivering new dark fibre infrastructure to public sector sites within key economic areas. It is envisaged that approximately 200-250km of new ducting and fibre will be built in the chosen network footprint. This requires ducts and chamber infrastructure, subducting, and cabling plant to be deployed along the streets in the key target settlement as well as along the key trunk routes between Inverurie, Westhill, Portlethen, Stonehaven and Aberdeen City.

**INCLUSIVE GROWTH/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)**

Benefits to date:	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	CURRENT MEASURE
	<ul style="list-style-type: none"> <li>The dark fibre network stretches for some 275km and links 6 major locations - Aberdeen, Westhill, Stonehaven, Banchory, Inverurie and Ellon as well as the smaller communities in between. This network connects 192 public sector buildings is within reach of 44,000 homes and 1,700 business premises. Dark fibre is unused fibre optic cables within the network. These fibre optic cables can be offered commercially to residents and businesses across the region.</li> <li>The project delivered 3 construction jobs and 7 apprenticeships all of which at least paid the Real Living Wage.</li> <li>5 School Engagements – Invigorating future workforce by running workshops on employability and STEM.</li> <li>5 Activities for Higher Education Students – 2 x placements, 3 x STEM Guest Lectures.</li> <li>Upskilling the workforce – funding provided to upskills project staff with BT PIA accreditations.</li> <li>Supporting other sectors – 2 x donations have been made to charities (Absafe for £2,395.00 and the other to Four Pillars for £2,446.40)</li> </ul>	BUSINESSES AND HOMES WILL HAVE ACCESS TO ULTRAFAST DIGITAL SERVICES	No. of businesses passed by fibre (within 50 metres)	2,433	2022
No. of residential properties passed by fibre (within 50 metres)			9,415	2022	13,250
INCREASED NUMBER OF PREMISES WITHIN ABERDEENSHIRE TO BE ADDRESSABLE BY FULL FIBRE (WITHIN 200 METRES)		No. of urban premises	65,841	2022	10,520
		Number of rural premises	2,657	2022	36,420
INVEST IN ULTRAFAST FIBRE ALONG THE DEVELOPMENT CORRIDORS TO KEY EMPLOYMENT CENTRES AND LEISURE LOCATIONS		Fibre along primary travel to work routes (km)	-	2022	275km
INCREASED NUMBERS OF SCHOOLS WILL HAVE ACCESS TO ULTRAFAST FIBRE		No. of schools	54	2022	55
INCREASED NUMBERS OF NHS PREMISED WILL HAVE ACCESS TO ULTRAFAST FIBRE		No. of NHS premises	53	2022	56



**THEME: TRANSPORT**

**PROJECT: STRATEGIC TRANSPORT APPRAISAL**



The project will deliver a Regional Strategic Transport Appraisal that will support and inform decision-making regarding the prioritisation of future transport investment in the region.

**INCLUSIVE GROWTH/ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS (CUMULATIVE)**

Delivered in 2023/24:	BUSINESS CASE BENEFIT	MEASURES	TARGET	TARGET DATE	2022/23	2023/24
<ul style="list-style-type: none"> <li>Aberdeen Sub Area Model (ASAM) transport model completed and being used for range of projects across the region to assist with future year forecasts for appraisals.</li> <li>Being used as an input to “evidence reports” for each local authority’s Development Plan. <a href="#">The link showcases ASAM information being utilised.</a></li> <li>Noting that ASAM and wider work also fed into Aberdeen Rapid Transit/Bus Corridors work, <a href="#">please see the link for more information.</a></li> <li>Evidence Review for A90/A952 Appraisal completed summer 2023; Case for Change and Preliminary Options Appraisal completed in 2023/24 that linked to improved routes, please see <a href="#">enclosed link for the document.</a> Work has been accelerated and fits with Investment Zone proposals.</li> <li>Other appraisal work, such as the Aberdeen to Laurencekirk corridor study is benefitting from the wider scope of transport planning work being funded by the STA programme,</li> </ul>	<b>REVISED REGIONAL TRANSPORT STRATEGY (RTS), &amp; TRANSPORT INPUT TO DEVELOPMENT PLANS</b>	Completion of the RTS and the SDP	Finalisation of key Regional documents	2020	Delivered	Delivered
	<b>STPR2 AND NPF4 DOCUMENTS REFLECTING NORTH EAST PRIORITIES</b>	Completion of key documents, with content reflecting key North East priorities for transport.	Finalisation of key national documents	2020	Delivered	Delivered
	<b>STRATEGIC INPUT TO CITY CENTRE PLANS</b>	Ensuring City Centre Masterplan and Beach Development framework reflect strategic priorities in the RTS, including walking, cycling and public transport.	Evidence and Business Cases for future City Centre projects	2026	In Progress	In Progress
	<b>DEVELOPMENT AREAS ABLE TO NOT ONLY OPERATE AT CURRENT CAPACITY BUT ALSO TO ACCOMMODATE FURTHER GROWTH</b>	Cumulative Transport Appraisal to support Strategic Development Plan (2019)	Deliver	2026	Delivered	Delivered
		Input to new Development Plans (2029-39)	Support for Development Plans	2026	In Progress	In Progress
		Ongoing support for growth areas	Evidence for Business Cases	2026	-	In Progress
	<b>STRATEGIC INPUT TO IMPROVEMENTS ON KEY TRANSPORT CORRIDORS (A90 NORTH &amp; SOUTH, A96 AND A947)</b>	Input into option appraisals and business cases seeking improvements along these key corridors.	Evidence and Business Cases for future corridor	2026	In Progress	In Progress

## PROJECTS BENEFITS DASHBOARD

demonstrated in the studies Preliminary Options Appraisal report ( <a href="#">see link</a> ).			improvement projects			
	<b>STRATEGIC INPUT TO DEVELOPMENT OF EFFECTIVE GATEWAYS INTO THE CITY</b>	Input into option appraisals and business cases seeking improvements at key gateways and key City Centre routes and active travel	Evidence and Business Cases for future corridor improvement projects.	2026	In Progress	In Progress
	<b>IMPROVED REGIONAL TRANSPORT MODEL (ASAM), MADE AVAILABLE FOR DEVELOPMENT AND PLANNING INDUSTRY</b>	Availability of ASAM14	Completion of audited models	2021	Delivered	Delivered
		Availability of ASAM19	Completion of audited models	2021	-	Delivered
	<b>POST OPENING TRAFFIC AND TRANSPORT DATA COLLECTION, MADE AVAILABLE FOR DEVELOPMENT AND PLANNING INDUSTRY</b>	Availability of survey information	Availability of data upon request from planning / development industry	2020	Delivered	Delivered