TP&E

Transport Planning & Engineering

The Active Travel Engineering Consultancy

Contents

WE'RE A SOCIAL ENTERPRISE
socialenterprisescotland.org.uk

Who are TP&E

TP&E is a leading active travel engineering consultancy, established by Cycling Scotland in 2006. We apply all-round engineering excellence to the specific field of infrastructure for walking, wheeling and cycling to benefit people and the environment.

As a social enterprise our profits go directly towards supporting projects to expand active travel all over Scotland and TP&E provide a free advisory service to community groups.

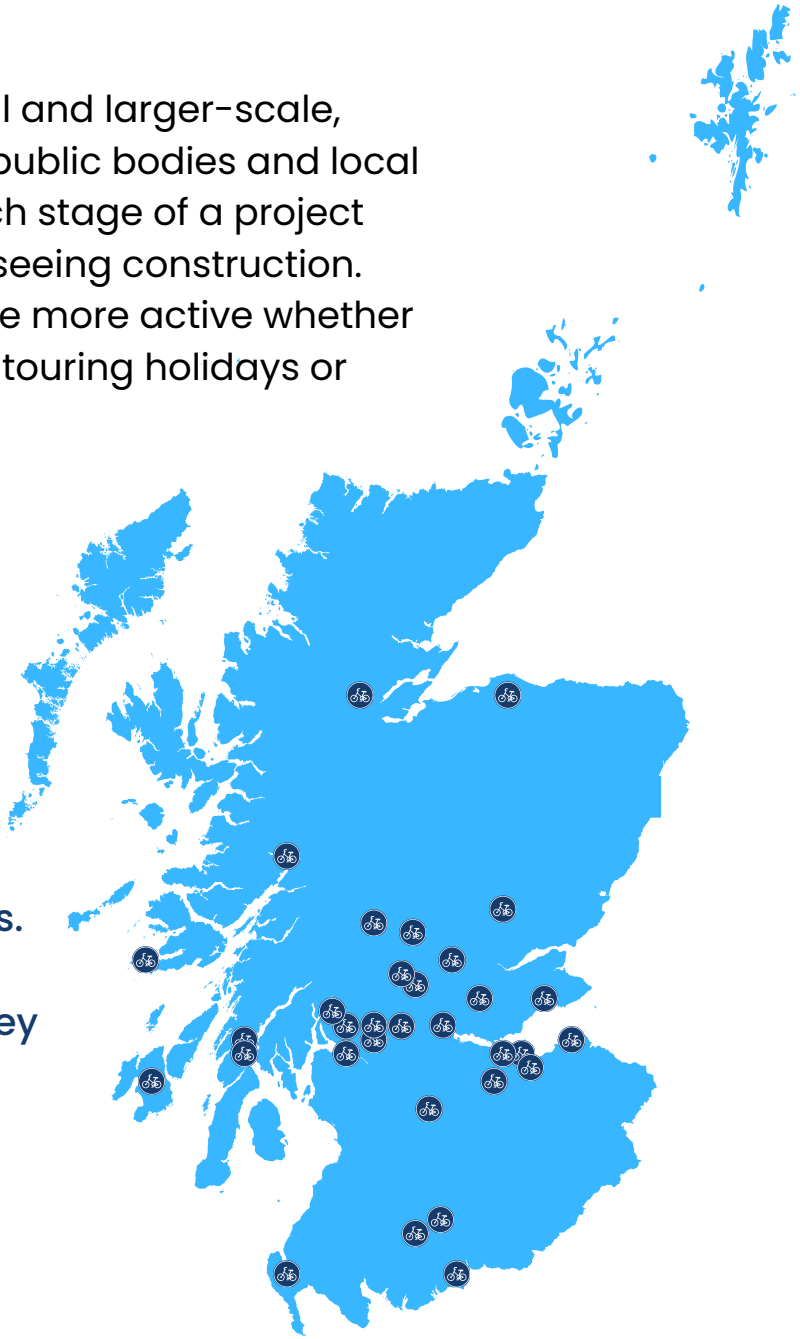
Our specialisms include:

- Active travel network planning
- Active travel route development
- Safe Routes to Schools
- Traffic calming and management
- Cycle / pedestrian interchange with other modes
- Cycle routes and trip end facilities
- Non-motorised user audit and review
- Signage strategies
- Cycle design guidance
- Community Engagement
- Acting Principal Designer
- Planning applications
- Path agreements
- Contract management
- CDM Regulation roles

Who are TP&E

We are a skilled and passionate team working on a variety of small and larger-scale, rural and urban projects. We work with community organisations, public bodies and local authorities right across Scotland. We guide our clients through each stage of a project through providing advice on funding, to design solutions and overseeing construction. Our team care about the work they do in supporting everyone to be more active whether that is through walking or cycling their daily commute, to enjoying touring holidays or enabling disabled people to cycle.

Our vision is for Scotland to have a transport network and built environment that meets the needs of all users and in which cycling and walking are positive travel and leisure choices rather than secondary considerations.

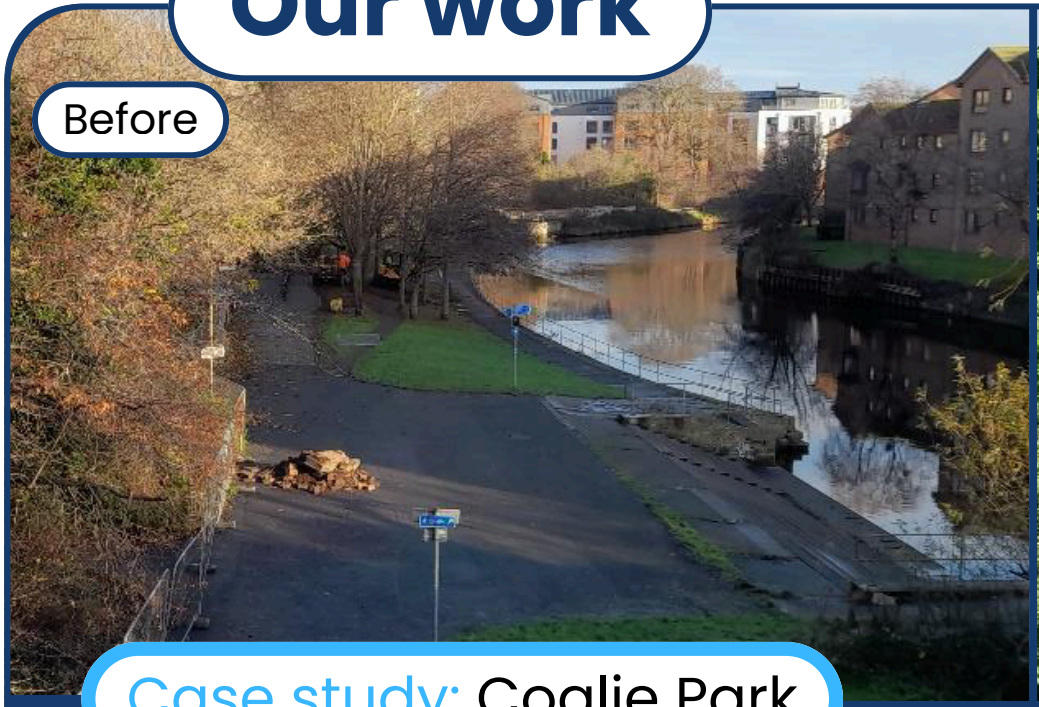


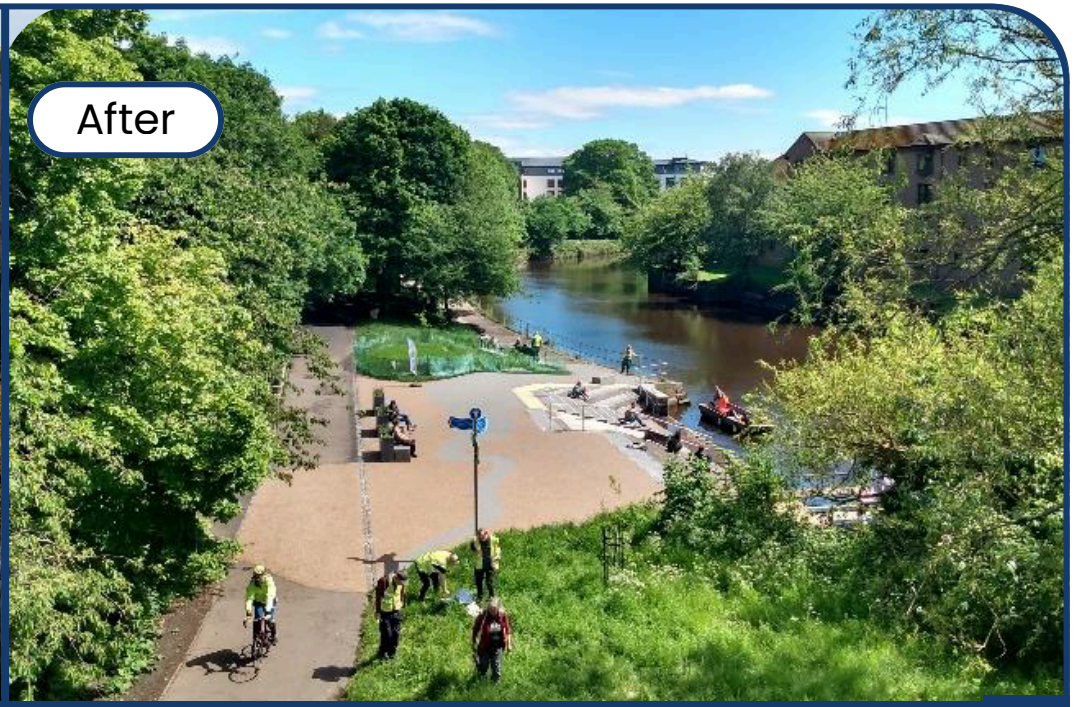
> "It's always about the people. We always have to ask ourselves. Who is this for? Who am I helping to use this so that they will have a good experience or maybe even take a journey that they otherwise wouldn't take."

Vincent

Assistant Engineer

Our work



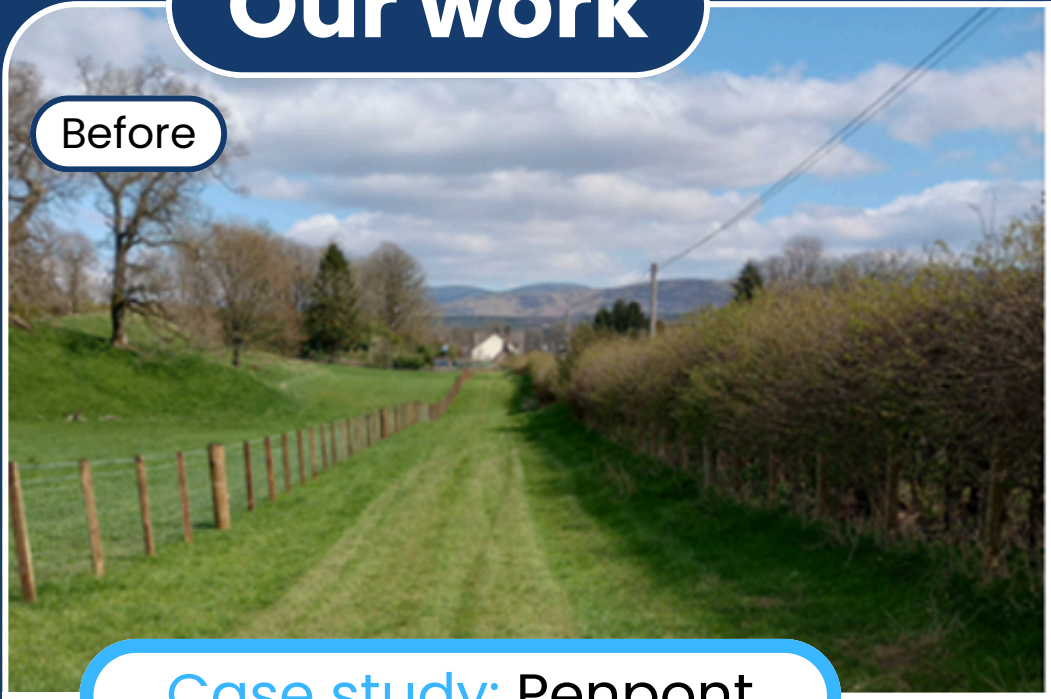


Case study: Coalie Park

TP&E were commissioned to take forward several concept ideas and design a space that separated the passage of different route users to provide safe options of movement. A set of old concrete steps used for access to the river were repaired and improved seating and cycle parking were introduced.

The removal of car parking, except disabled parking has provided space available to be used for a pop-up café. An imprint of the Water of Leith river course was laid in resin stone as a feature with picnic facilities set back from the path to enable the views to be enjoyed.

Our work

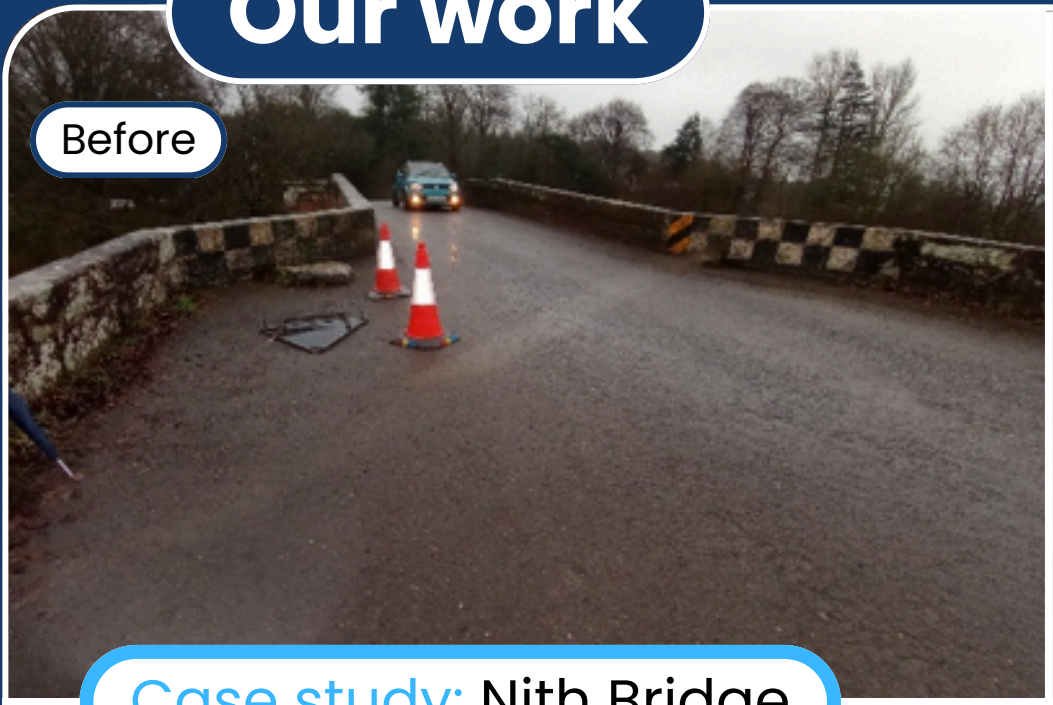


Case study: Penpont

In late 2019, TP&E were invited to take forward a 2018 feasibility study to establish an active travel route between Penpont and Thornhill in Dumfries and Galloway. Penpont is a pretty spot in the depths of the Galloway Hills. The larger village, Thornhill was less than 3 miles away but walking and cycling along the A702 was not advisable as it is a heavily trafficked timber haulage route and so there was no alternative than to use a car between the 2 villages.

As a green field site, there was no existing infrastructure to rely on. The design and construction of road crossings, ramps and agricultural requirements enabled the route to accommodate the requirements of the path users and the adjacent farmers. The first and second phases have been delivered with the next phase developing shared access over an 18th century bridge.

Our work



Case study: Nith Bridge

The third and final phase of the Penpont to Thornhill project in Dumfriesshire focussed on creating a traffic controlled separated route for pedestrians and cyclists over the 18th century Nith Bridge. The bridge is a Category A listed stone arch bridge that previously had no footways or signal control.

This has now been updated to provide safer pedestrian and cycle links across the bridge with a shuttle signal system installed to allow improved safety for all road users whilst still respecting the structure's historic character.

The works complete the 4km route from Penpont to Thornhill enabling walking and cycling to be taken from a busy strategic timber route. The route has opened up the opportunity for the local community to travel between the 2 villages in a safe, direct and attractive environment creating a fully accessible route.

Our work

Case study: Dreelside

TP&E were commissioned to upgrade a town path running adjacent to Dreel Burn in Anstruther, Fife. The access point by Dreel Tavern had previously consisted of a cobbled path with old concrete steps in an area that had become overgrown. To allow improved access for walking, wheeling and cycling a ramp was designed in the limited space to maximise access and provide a direct route to the tranquil nature haven by the river.

The ramp was constructed with the use of sleeper and steel post retaining walls and gabion baskets to provide a safer point of access for all abilities down to the burn.

Being in a tidal area, the construction of the ramp had to embrace the cycles of the moon, the wet winter, and storms as well as the logistics of working adjacent to a pub with limited space.

Our work

Case study: Kinloch Rannoch

A path along the edge of the River Tummel had previously been too difficult for many people to reach and to traverse along the riverside path due to the poor access, gradient and surface.
The work was carried out over a 700m corridor site. Clearing the old trod path to widen the corridor enabled a 2.5m asphalt surface path to be laid. A section of the route runs through a mature silver birch woodland so the alignment and construction of the route were designed to offer optimal tree protection through a cellular construction and avoiding the requirement to remove any trees.

A redundant site in the centre of the village offered the opportunity to design and construct a short ramp down onto the desire line, further opening up the route to the public.
The construction of a robust, traffic-free route now enables walkers, cyclists and others to access and share the path all year round.

Our work

Case study: George V Park

Alterations and upgrades of established routes can be as much of a priority as designing and building new infrastructure. In the heart of Edinburgh, NCN 75 joins the old Leith freight line as it heads north out of the city centre. King George V Park is the junction point where the route enters the Rodney Street railway tunnel and as a result this section is the lowest point in the area. Frequent flooding renders the route difficult to use and at worst - inaccessible.

The works were designed and built to raise the path through this low area and create a large swale to enable the water to be shed off the path and offer more surface area for it to infiltrate into the surrounding ground. Recent wet weather has tested the design and shown that it now offers a dry route through the park and onwards along the National Cycle Route for prolonged periods of time.

Our work

Before

Case study: Scottish Canals

Over the past 5 years, the Forth + Clyde and Union canals received extensive work to open up the canal towpaths to all users.

After

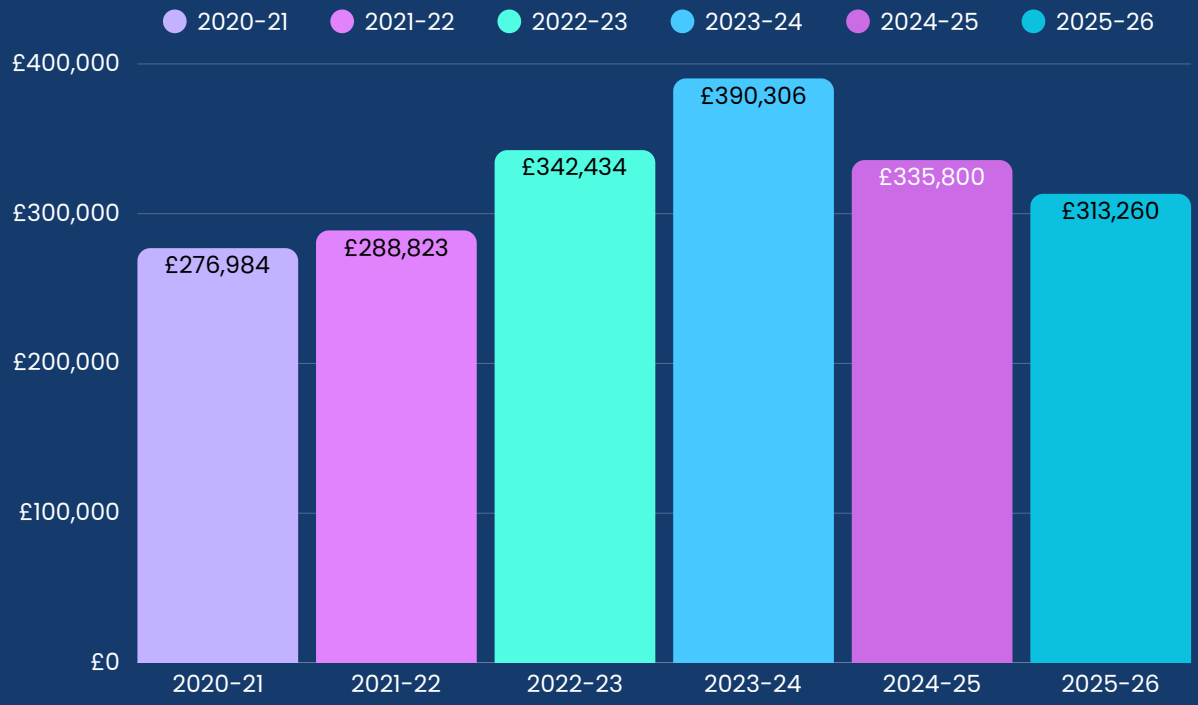
Our work

Case study: Scottish Canals

As part of this work we were required to also ensure that misuse of the canal system did not also occur.
This was done through surveying and adjusting all access controls along the 43km network.
All this work was carried out in the autumn and winter months of each year to minimise the impact on towpath users and to maximise the opportunity to site clear prior to the bird nesting season.

Since 2020...

TP&E's annual revenue

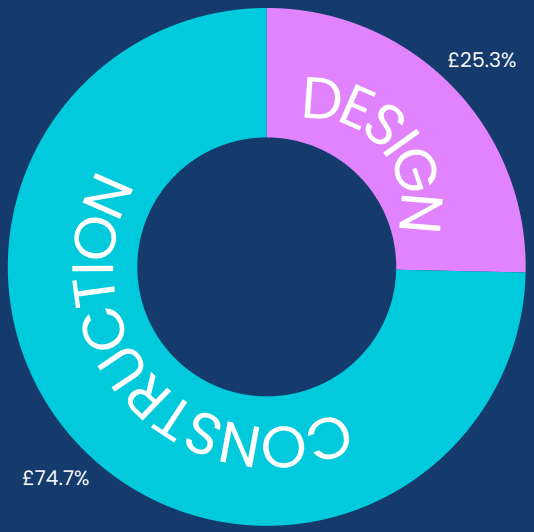


Over £1.6 million in revenue

16 local authorities consulted with

Over 61km of active travel paths upgraded and built

39 new projects designed >>> **23 new projects built**



Design costs form 25.3% of the overall project cost, with construction costs being 74.7%

Our partners

PENPONT KEIR TYNRON KPT DEVELOPMENT TRUST

LOCH LOMOND & THE TROSSACHS NATIONAL PARK

Scottish Outdoor Access Network

EDINBURGH & LOTHIANS GREENSPACE TRUST

Walking Scotland

Perth and Kinross COUNTRYSIDE TRUST

Scottish Canals

Walk Wheel Cycle Trust

Work with us

We are always interested in speaking to engineers who have a passion for the environment. Active travel and making spaces with people in mind is what we do.

If you are interested in working with us please get in touch by sending your CV to info@tpande.org

"I feel like I have an impact and play an influential role in the outcome of a project. You get to see your design come to life before your eyes and then see people using it. I appreciate that it gives me a connection to the end user which engineers wouldn't always get."

Reuben
TP&E Engineer