

# HIGH SPEED UK : I02

Infrastructure Diagrams illustrating HSUK/TartanTrax proposals for development of Scottish network

- I02A Existing Scottish network
- I02B HSUK/TT Proposed Passenger Works
- I02C HSUK/TT Passenger Works Classified
- I02D HSUK/TT Proposed Freight Works
- I02E HSUK/TT Freight Works Classified
- I02F HSUK/TT Proposed Electrification
- I02G *awaiting publication*
- I02H HSUK/TT Intercity & Local Network
- I02I HSUK/TartanTrax Intercity Services
- I02J HSUK/TartanTrax 'Tube Map'
- I02K Current Government Proposals (CP974)

April 2024 Update

**HSUK/TARTAN TRAX  
EXISTING SCOTTISH  
RAIL NETWORK**

**I02A**

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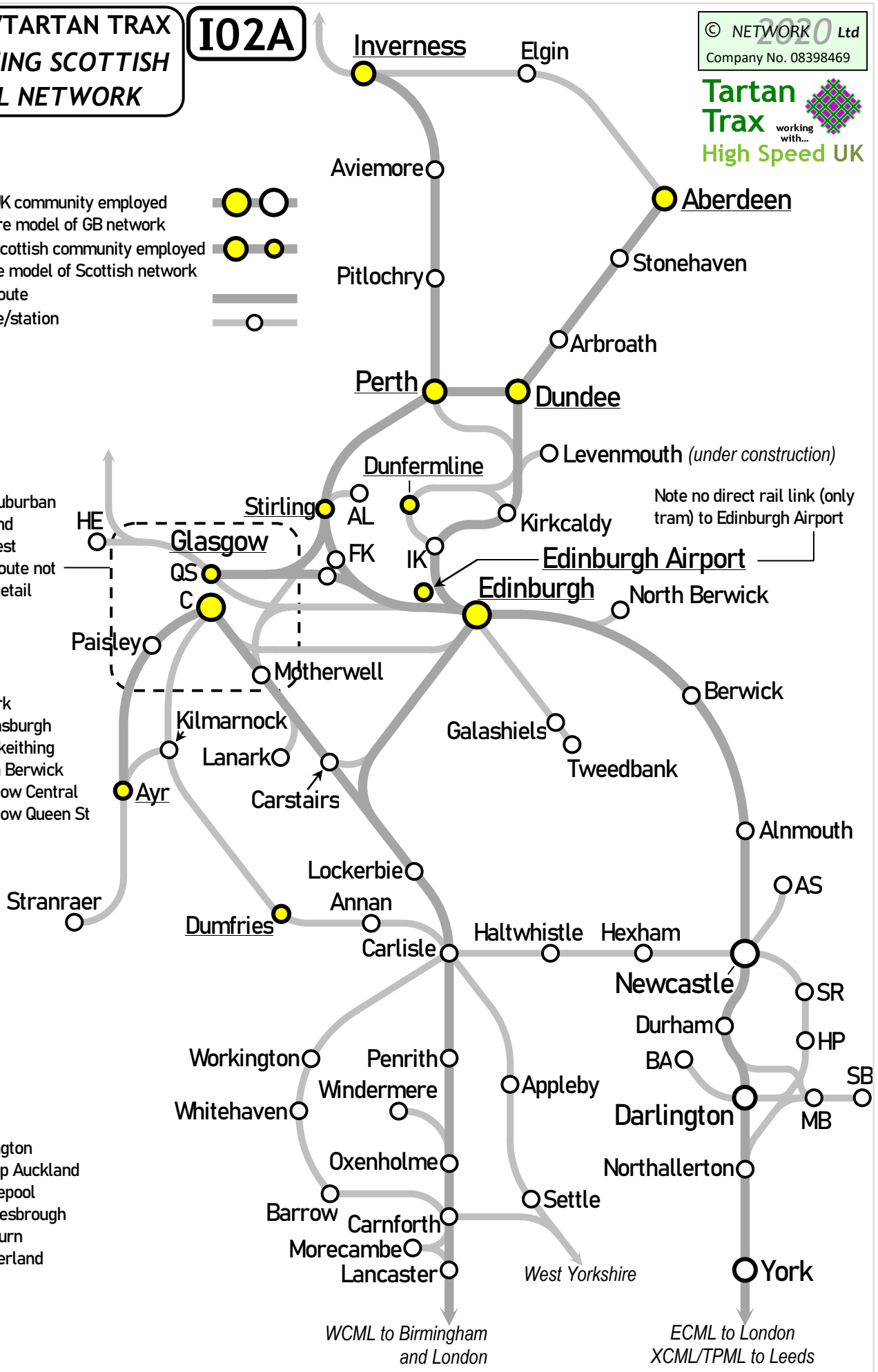


- Principal UK community employed in 55-centre model of GB network
- Principal Scottish community employed in 11-centre model of Scottish network
- Principal route
- Other route/station

Glasgow suburban network and onward West Highland route not shown in detail

- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick
- C Glasgow Central
- QS Glasgow Queen St

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland



**HSUK/TARTAN TRAX  
PROPOSED MAJOR  
WORKS/UPGRADES**

**I02B**

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HSUK operating on...

- New (high speed) line █
- Restored line █
- Upgraded line █
- Existing line, no major upgrade required ## █
- New/modified/existing station served by HSUK ○ ○ ○
- Other route/station ○

## Route electrified where necessary

Future 'Crossrail' link between rail networks to north & south of Glasgow shown indicatively

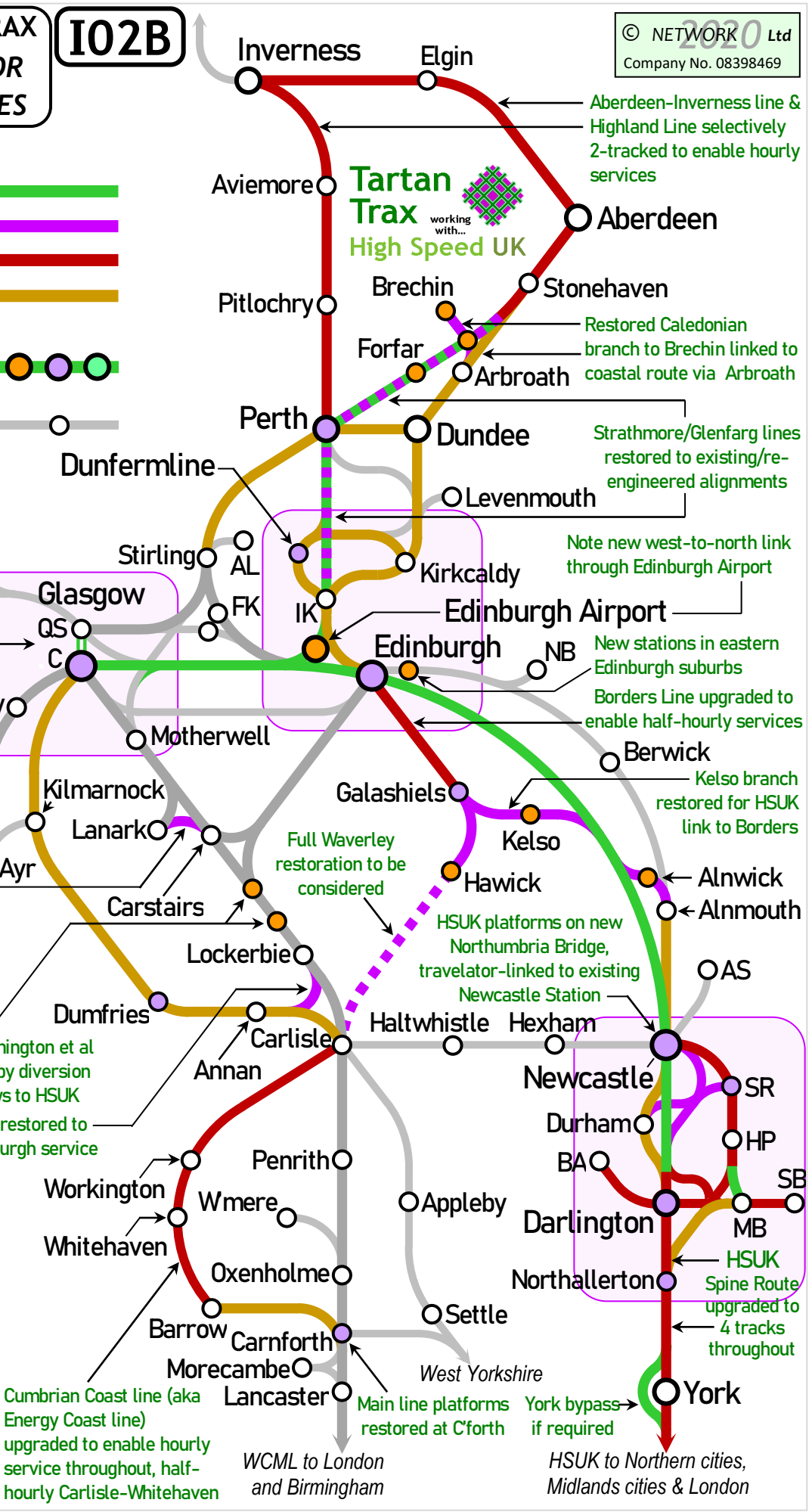
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick
- C Glasgow Central
- QS Glasgow Queen St

Restored south-to-east curve for direct Lanark-Edinburgh service

New stations at Beattock, Symington et al exploiting capacity released by diversion of time-sensitive trunk flows to HSUK  
Caledonian route via Annan restored to enable direct Dumfries-Edinburgh service

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland

Only works necessary for HSUK 'Demonstrator Timetable' intercity services illustrated



Cumbrian Coast line (aka Energy Coast line) upgraded to enable hourly service throughout, half-hourly Carlisle-Whitehaven

WCML to London and Birmingham

HSUK to Northern cities, Midlands cities & London

# HSUK/TARTAN TRAX CLASSIFICATION OF PASSENGER WORKS

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**Tartan Trax** working with...  
**High Speed UK**

- New/upgraded civils infrastructure itemised in estimate: A5, A6, A3, A4
- New or upgraded station: (circle icons)
- Lines req<sup>d</sup> electrification only, no major civils, for HSUK intercity network operation: Z37
- HSUK trunk Anglo-Scottish freight route & terminal: (blue line)
- HSUK on ex<sup>d</sup> electric route, no major civils: (grey line)
- Other local routes, no major civils: (grey line with circle)

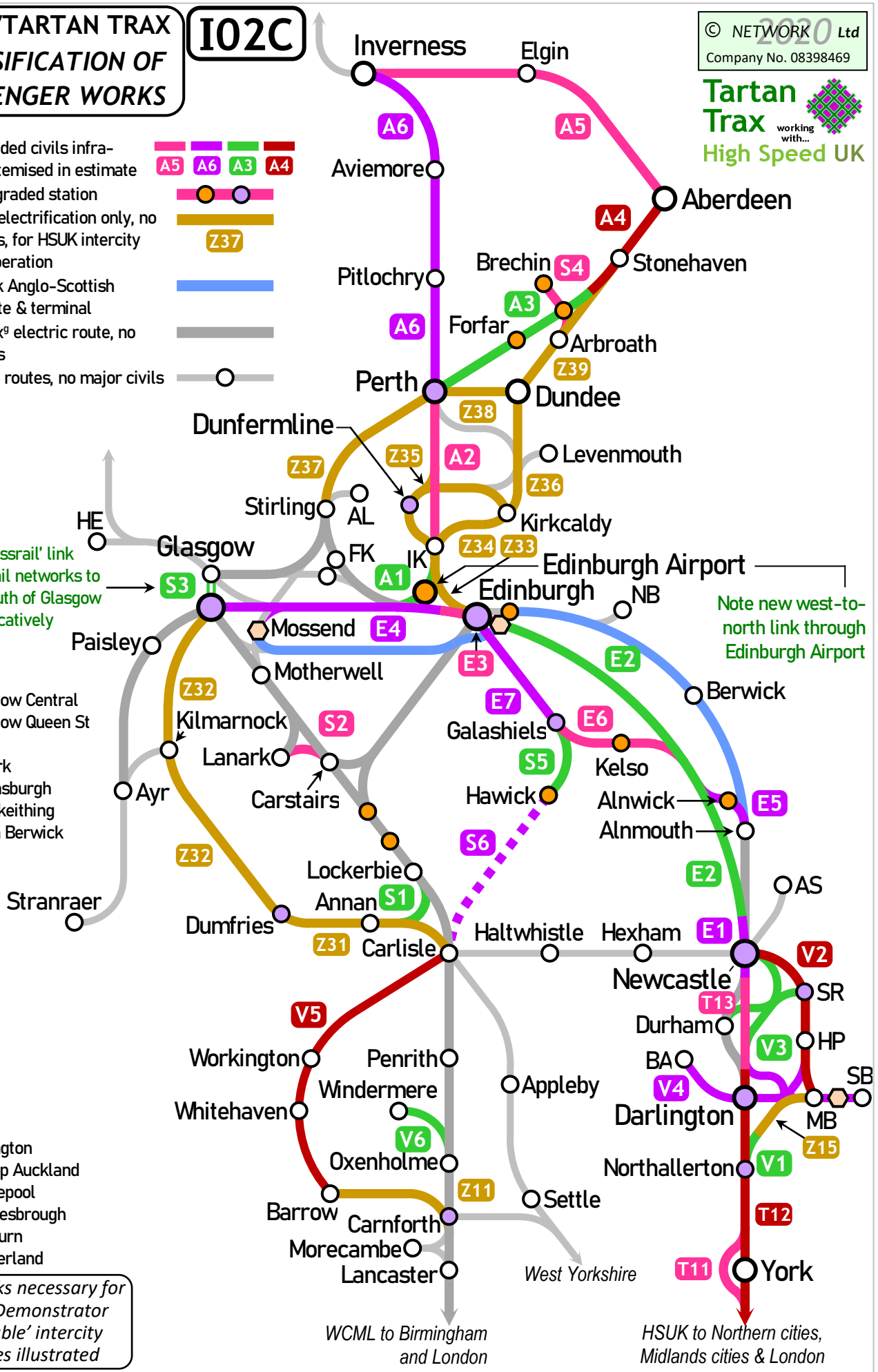
Future 'Crossrail' link between rail networks to north & south of Glasgow shown indicatively

Note new west-to-north link through Edinburgh Airport

- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland

Only works necessary for HSUK 'Demonstrator Timetable' intercity services illustrated



WCML to Birmingham and London

HSUK to Northern cities, Midlands cities & London

**HSUK/TARTAN TRAX  
PROPOSED FREIGHT  
WORKS**

**I02D**

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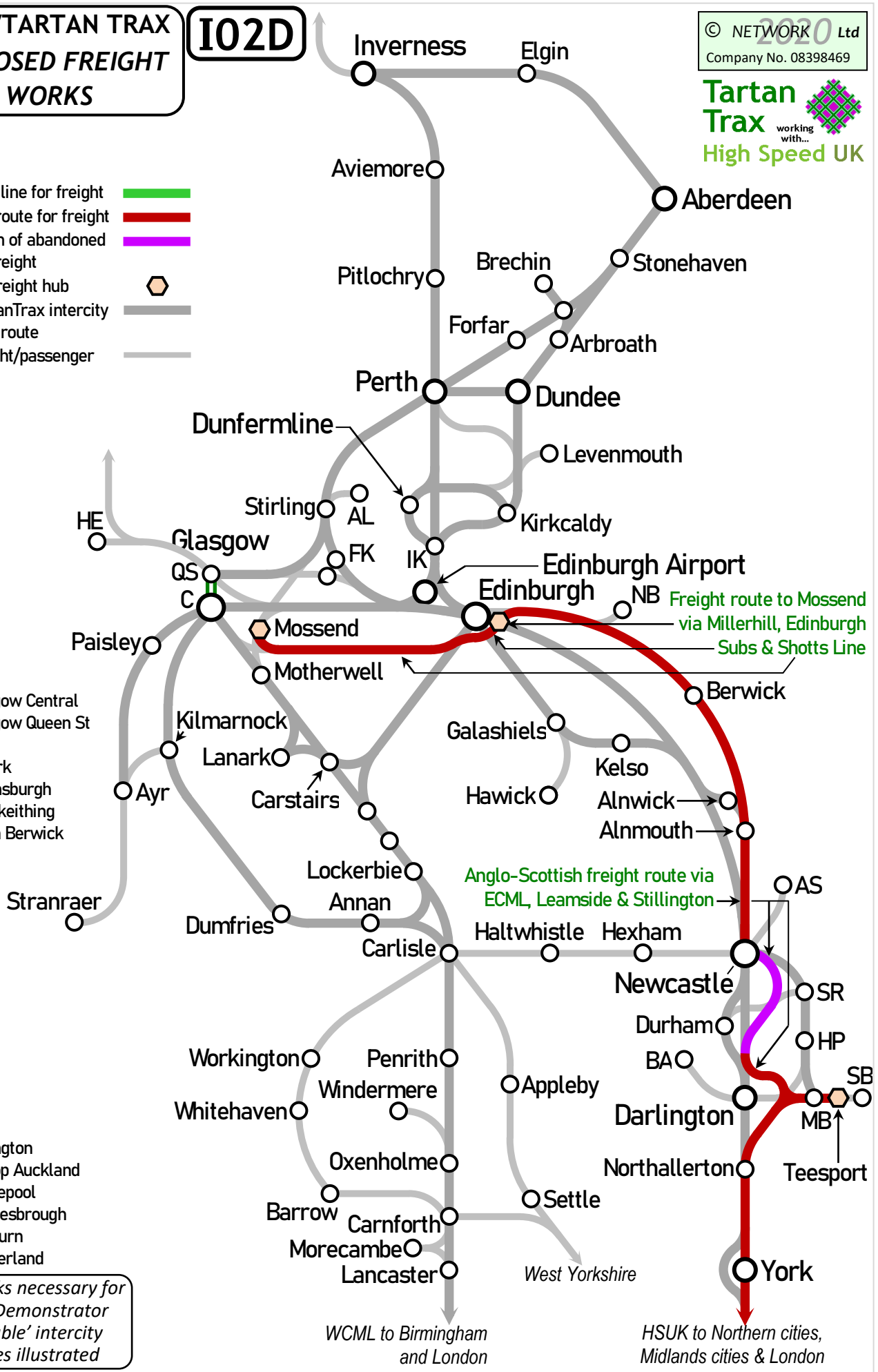
**Tartan Trax** working with...  
**High Speed UK**

- New-build line for freight █
- Upgraded route for freight █
- Restoration of abandoned route for freight █
- Principal freight hub ○
- HSUK/TartanTrax intercity passenger route
- Other freight/passenger route

- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland

Only works necessary for  
HSUK 'Demonstrator  
Timetable' intercity  
services illustrated



Freight route to Mossend  
via Millerhill, Edinburgh  
Subs & Shotts Line

Anglo-Scottish freight route via  
ECML, Leamside & Stillington

WCML to Birmingham  
and London

HSUK to Northern cities,  
Midlands cities & London

# HSUK/TARTAN TRAX CLASSIFICATION OF FREIGHT WORKS

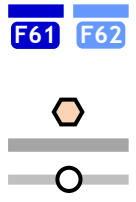
**I02E**

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**Tartan Trax** working with...  
**High Speed UK**



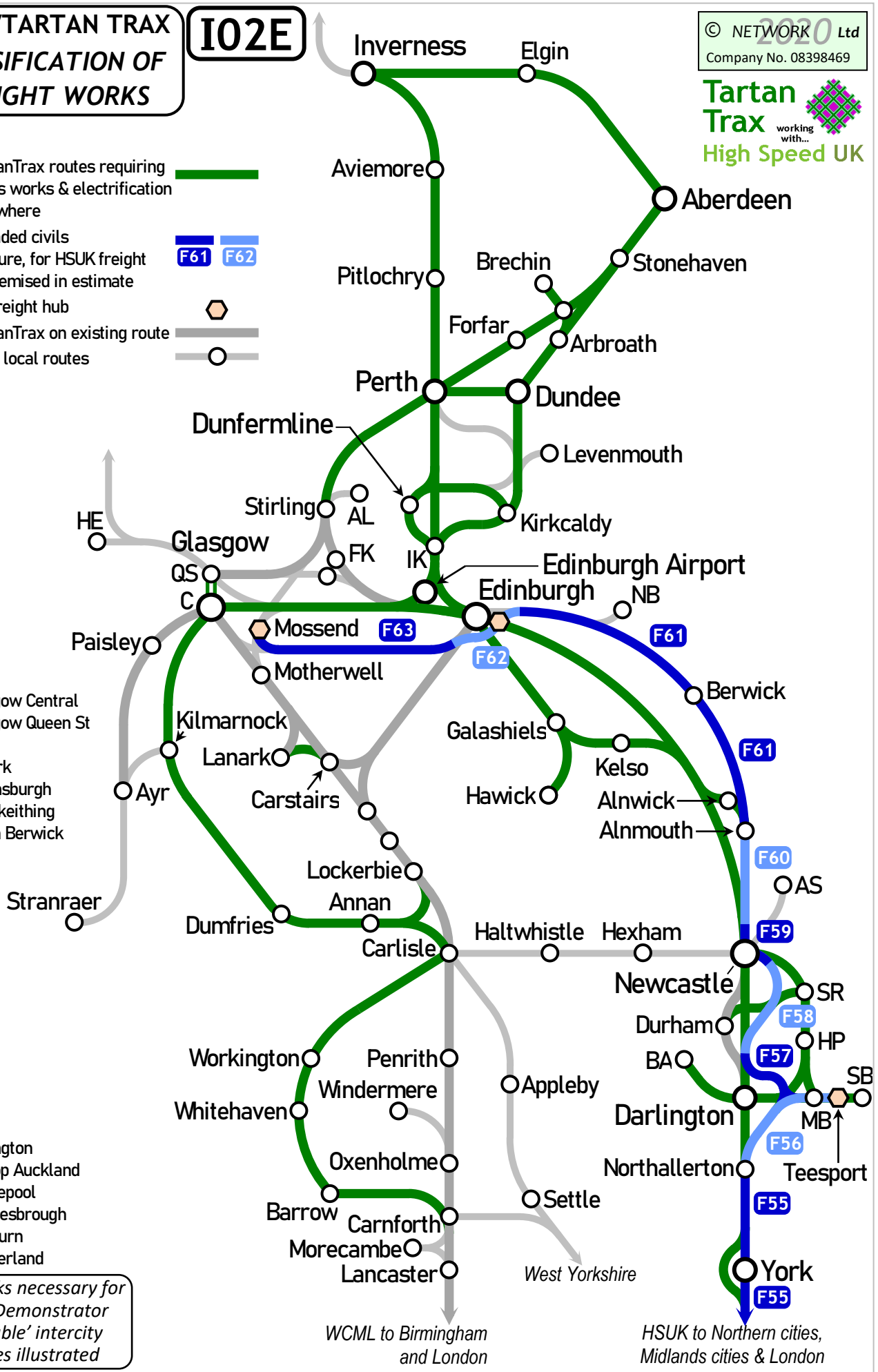
- HSUK/TartanTrax routes requiring major civils works & electrification listed elsewhere
- New/upgraded civils infrastructure, for HSUK freight network, itemised in estimate
- Principal freight hub
- HSUK/TartanTrax on existing route
- TartanTrax local routes



- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland

Only works necessary for HSUK 'Demonstrator Timetable' intercity services illustrated



WCML to Birmingham and London

HSUK to Northern cities, Midlands cities & London



**HSUK/TARTAN TRAX  
PROPOSED NETWORK  
ELECTRIFICATION**

**I02F**

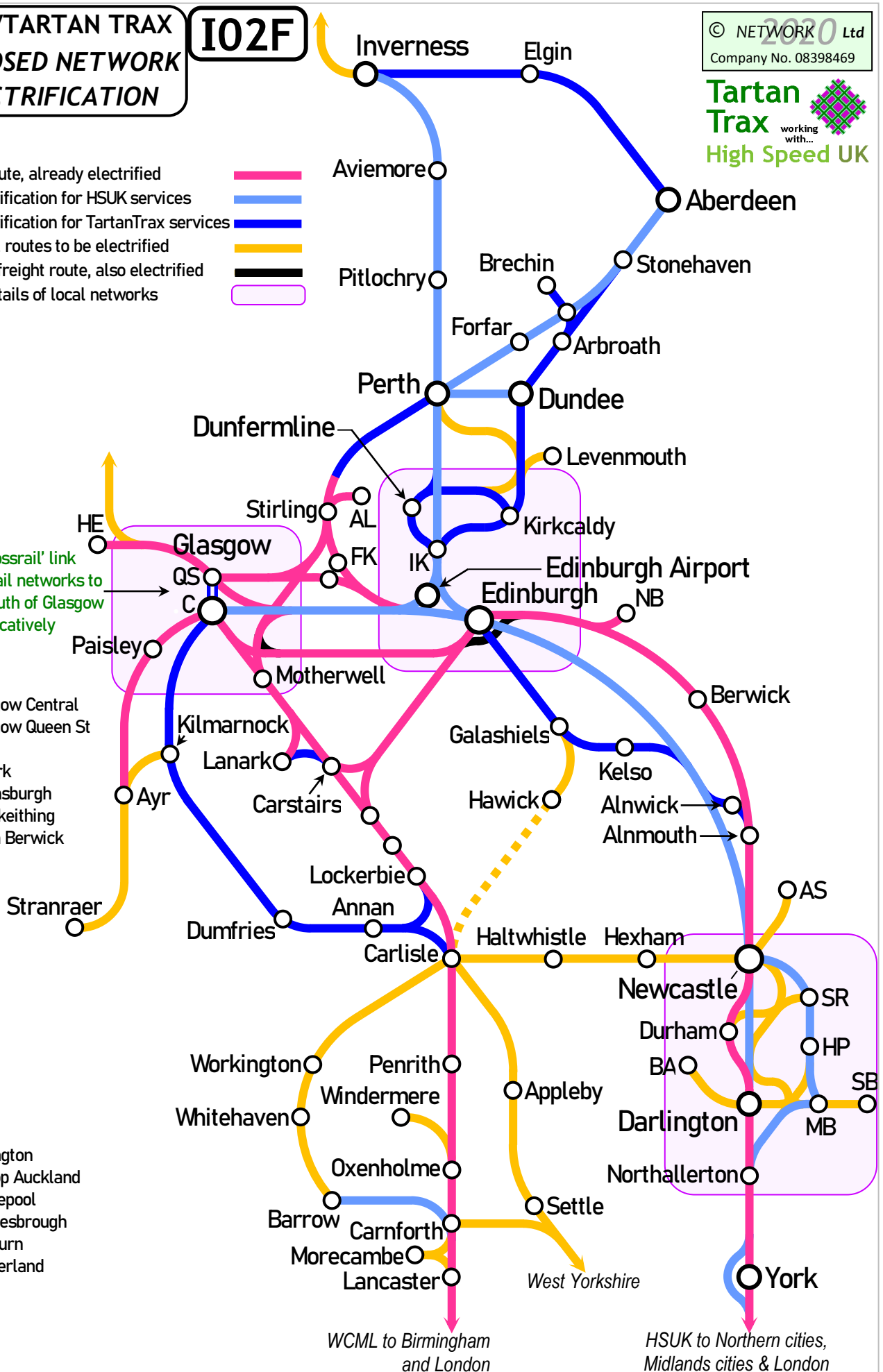
- Existing route, already electrified
- New electrification for HSUK services
- New electrification for TartanTrax services
- Other local routes to be electrified
- Dedicated freight route, also electrified
- Further details of local networks



Future 'Crossrail' link between rail networks to north & south of Glasgow shown indicatively

- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland



WCML to Birmingham and London

HSUK to Northern cities, Midlands cities & London

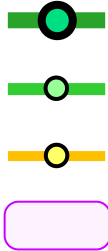
**HSUK/TARTAN TRAX  
PROPOSED LOCAL &  
INTERCITY SERVICES**

**I02H**

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Primary Scottish intercity network & HSUK Anglo-Scottish trunk route  
Other HSUK i/c route & TartanTrax regional route/station served  
TartanTrax/Network North local passenger services (selected)  
Further details of local conurbation networks



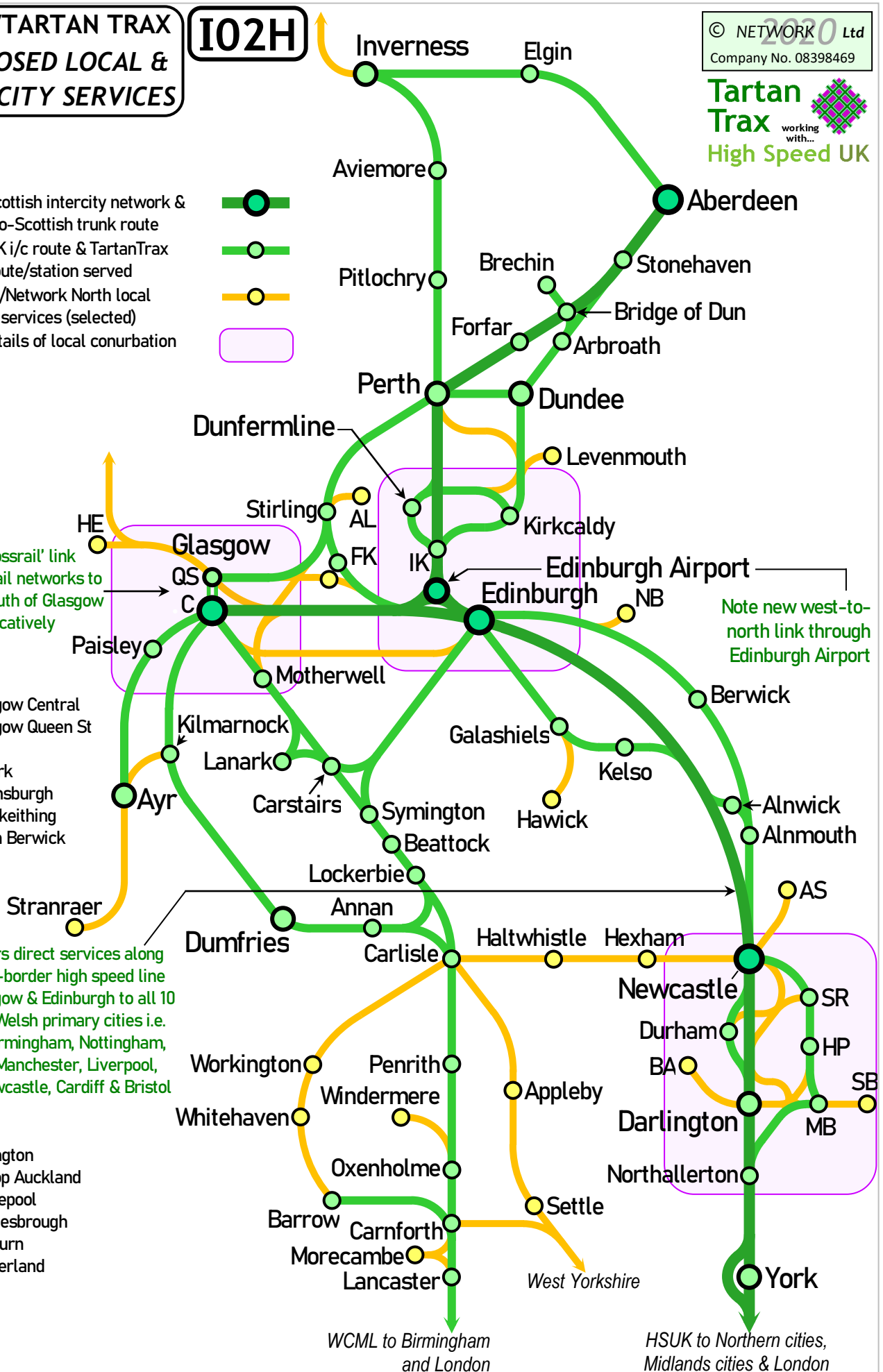
Future 'Crossrail' link between rail networks to north & south of Glasgow shown indicatively

Note new west-to-north link through Edinburgh Airport

- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- NB North Berwick

HSUK offers direct services along new cross-border high speed line from Glasgow & Edinburgh to all 10 English & Welsh primary cities i.e. London, Birmingham, Nottingham, Sheffield, Manchester, Liverpool, Leeds, Newcastle, Cardiff & Bristol

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland



WCML to Birmingham and London

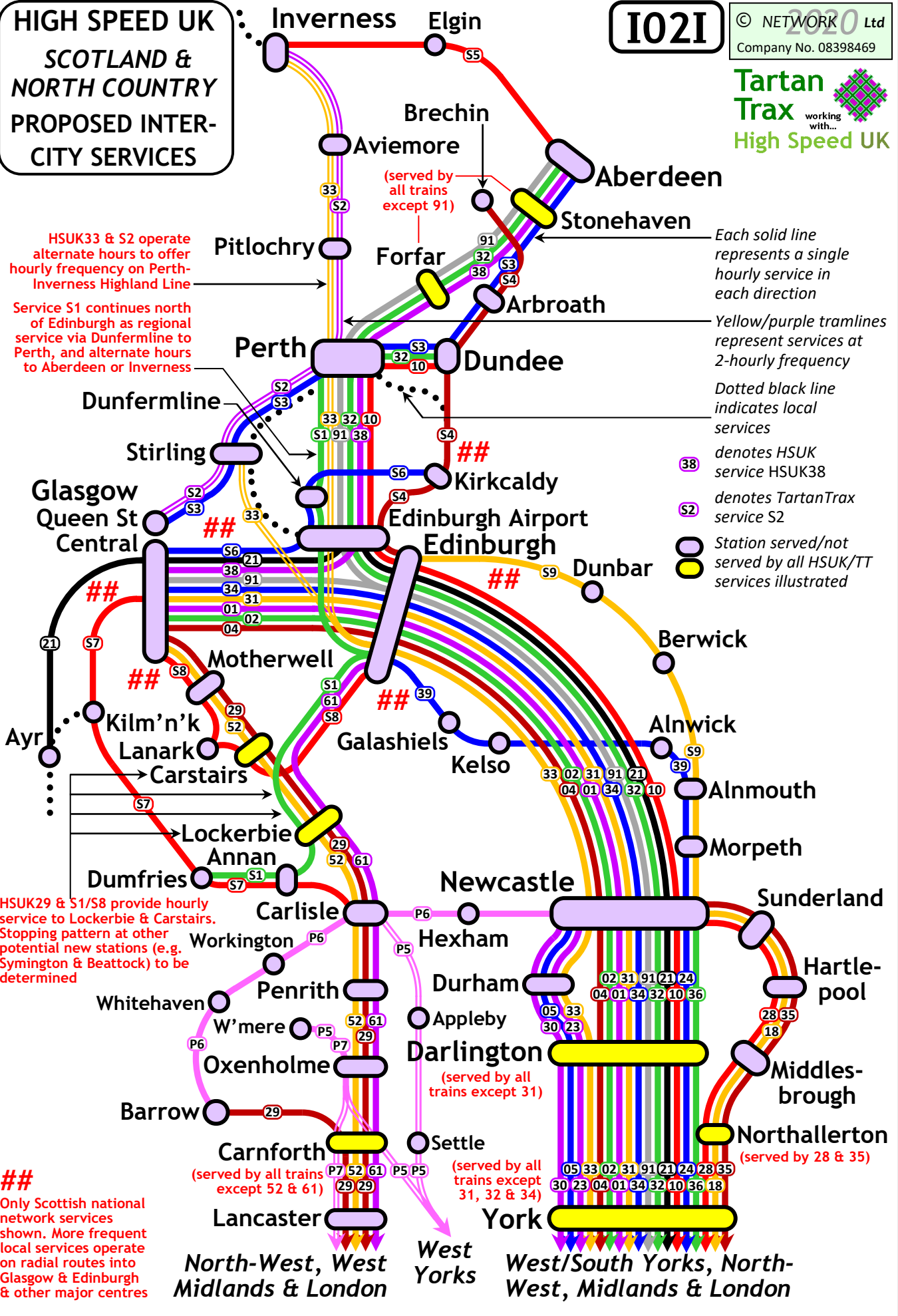
HSUK to Northern cities, Midlands cities & London



**HIGH SPEED UK  
SCOTLAND &  
NORTH COUNTRY  
PROPOSED INTER-  
CITY SERVICES**

**I02I**

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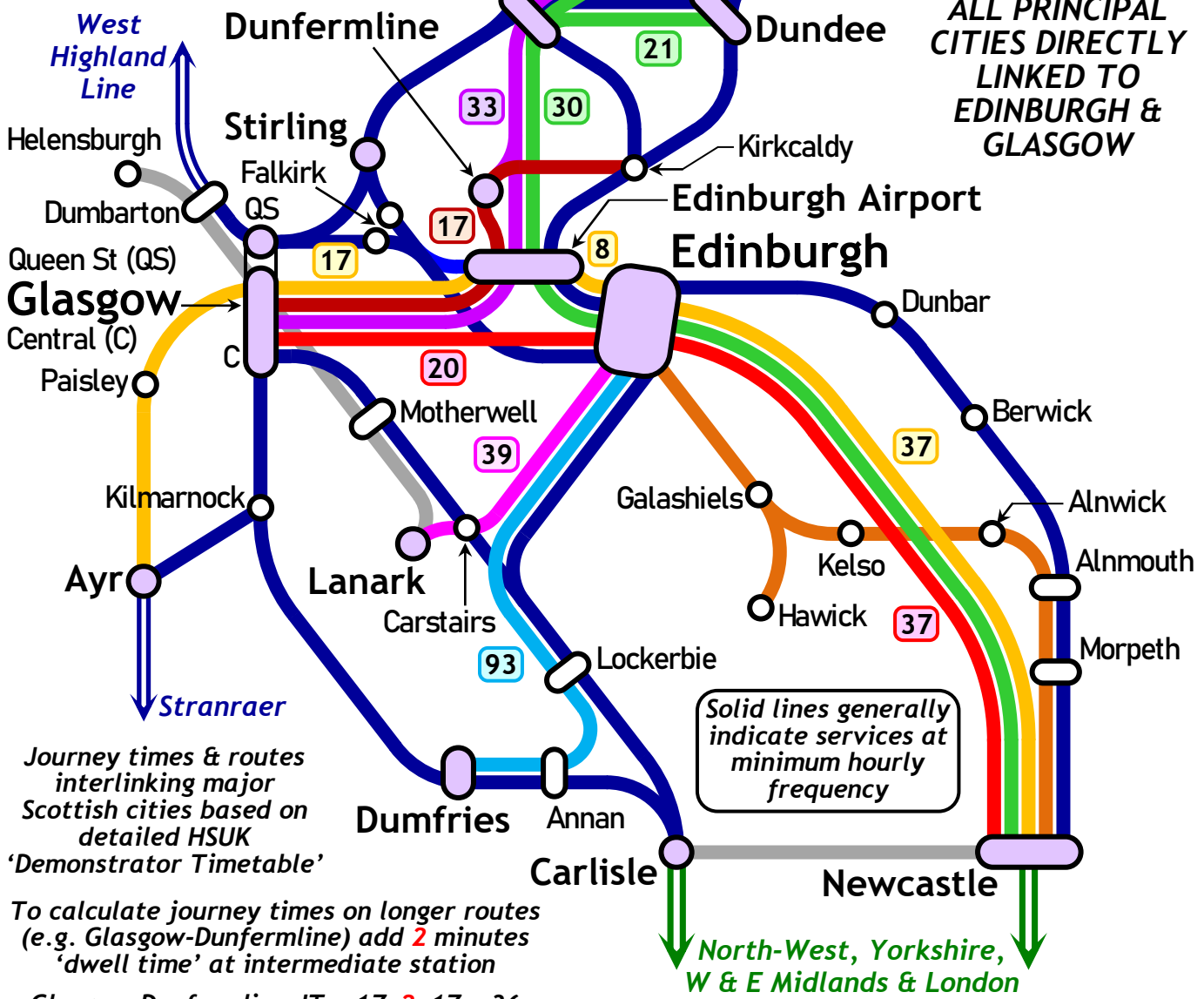




**I02J**

*Kyle Line & Far North Line*

- Selected journey times (mins) between principal Scottish communities
- Other Scottish community
- Core HSUK/TT intercity routes between principal Scottish communities
- Classic Scottish route, no major enhancement (other than electrification as nec<sup>y</sup>)
- New local link
- Enhanced 'Waverley' route
- Peripheral Scottish route
- Primary HSUK route to other UK region



**HSUK/TT SCOTTISH TUBE MAP**  
ALL PRINCIPAL CITIES DIRECTLY LINKED TO EDINBURGH & GLASGOW

*Journey times & routes interlinking major Scottish cities based on detailed HSUK 'Demonstrator Timetable'*

*To calculate journey times on longer routes (e.g. Glasgow-Dunfermline) add 2 minutes 'dwell time' at intermediate station*  
*Glasgow-Dunfermline JT = 17+2+17 = 36*

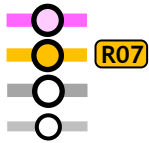
*Solid lines generally indicate services at minimum hourly frequency*

*North-West, Yorkshire, W & E Midlands & London*

**HSUK/TARTAN TRAX  
CURRENT OFFICIAL  
'IRP-LITE' PROPOSALS**

**I02K**

- HS2 on existing lines
- IRP-Lite scheme/new station
- Principal passenger route
- Other freight/passenger route



**Note:**  
'IRP-Lite' comprises latest Government rail development proposals as set out in Command Paper CP946

Glasgow suburban network and onward West Highland route not shown in detail

- C Glasgow Central
- QS Glasgow Queen St
- AL Alloa
- DF Dunfermline
- FK Falkirk
- HE Helensburgh
- IK Inverkeithing
- LK Lanark
- NB North Berwick

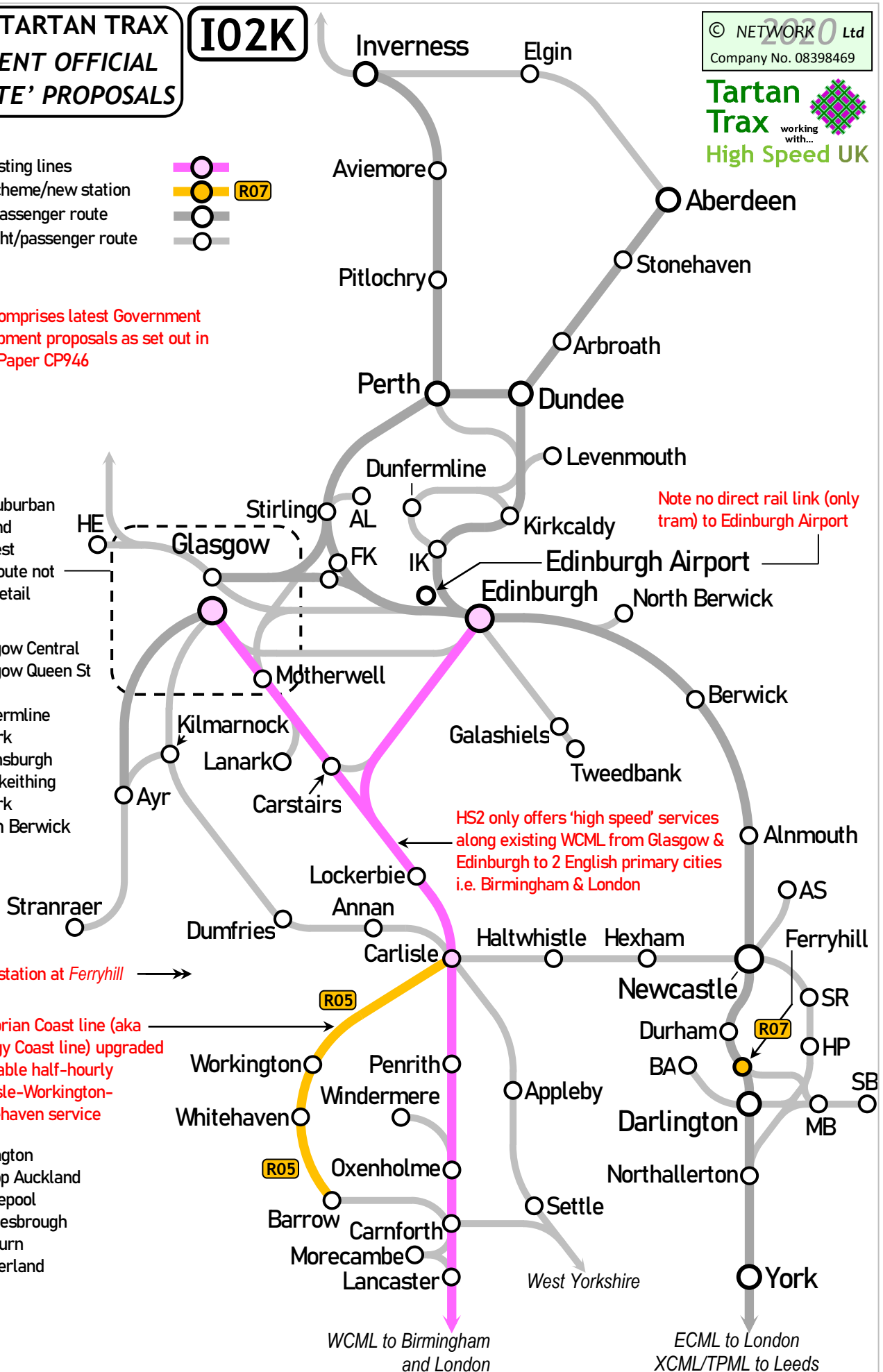
Note no direct rail link (only tram) to Edinburgh Airport

HS2 only offers 'high speed' services along existing WCML from Glasgow & Edinburgh to 2 English primary cities i.e. Birmingham & London

**R07** New station at Ferryhill

**R05** Cumbrian Coast line (aka Energy Coast line) upgraded to enable half-hourly Carlisle-Workington-Whitehaven service

- AS Ashington
- BA Bishop Auckland
- HP Hartlepool
- MB Middlesbrough
- SB Saltburn
- SR Sunderland



WCML to Birmingham and London

ECML to London  
XCML/TPML to Leeds