

Balancing urban tree management for natural capital and safe operation of the railway

Safety, Technical and Engineering

Health & Safety
Finance

Engineering
Business Management

Environment & Sustainable Development
Risk, Analysis & Assurance

Introduction

Safety, Technical and Engineering

Health & Safety

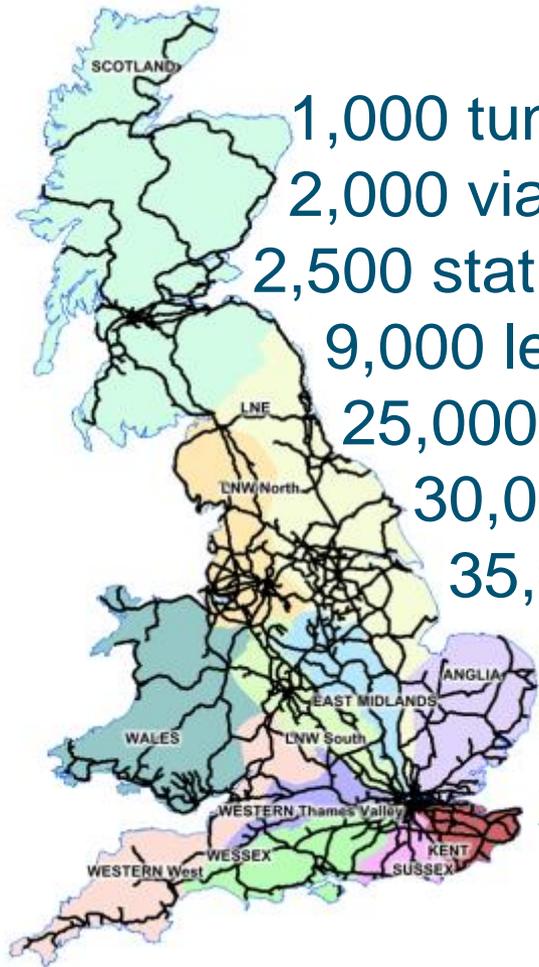
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1,000 tunnels
2,000 viaducts
2,500 stations
9,000 level crossings
25,000 trains per day
30,000 km fence
35,000 bridges
7,000,000 neighbours
1,650,000,000 passengers
28,000,000,000 ton km freight

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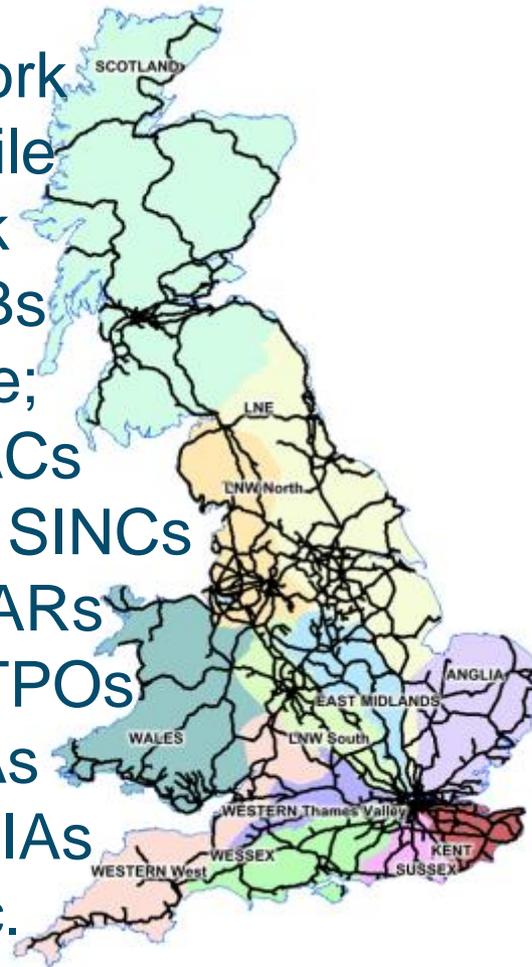
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200 SSSIs on the network
200 more within ¼ mile
every National Park
most AONBs
every other acronym possible;
SACs
SINC
RAMSARs
TPOs
CAs
NIAs
etc.



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All within an area the size of the Isle of Wight (40,000 ha)

Plus;

- 25 kV AC overhead, and
- 750 V DC at ground level, and
- Trains passing at 200kph

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Urban tree management

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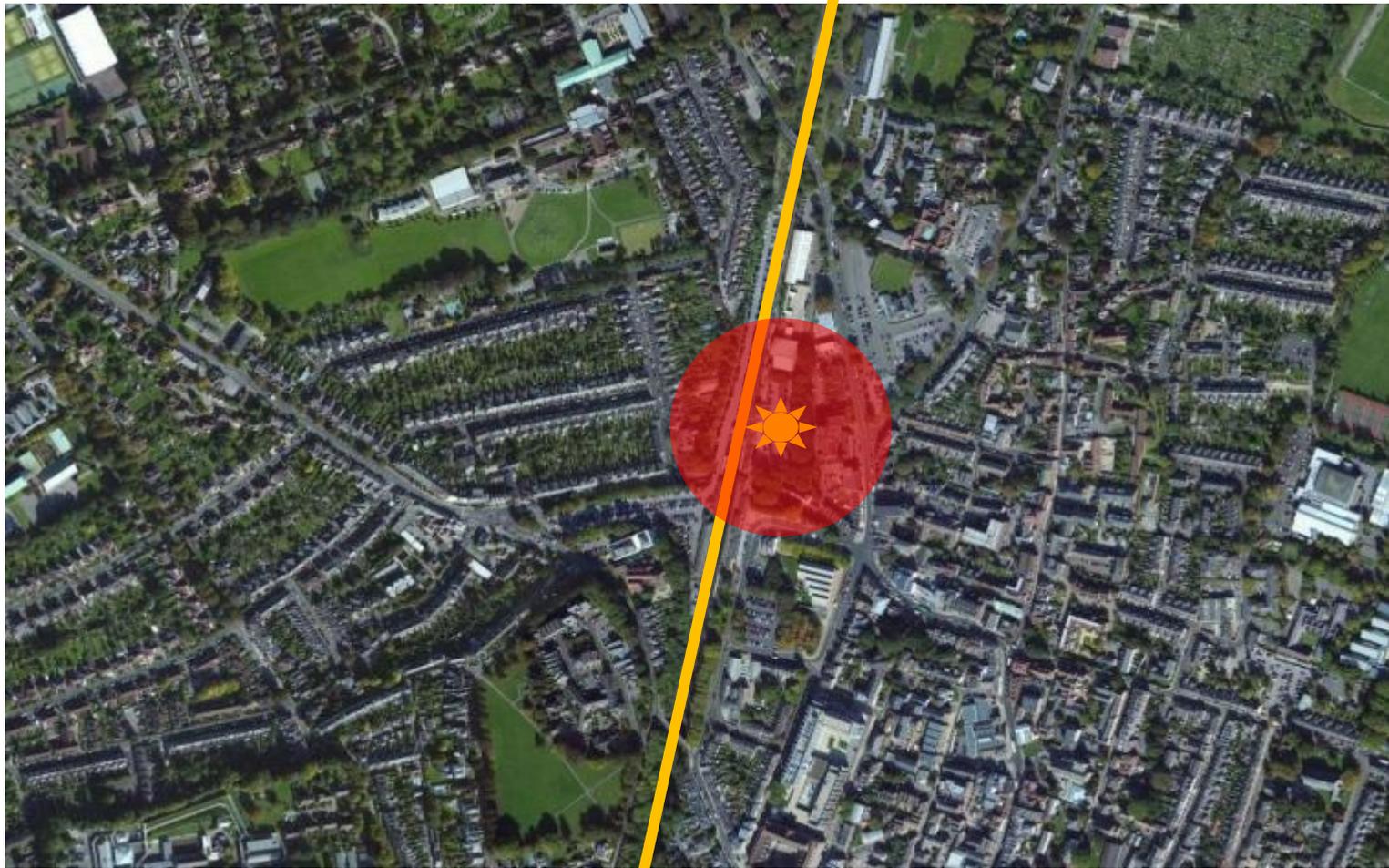
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Natural capital

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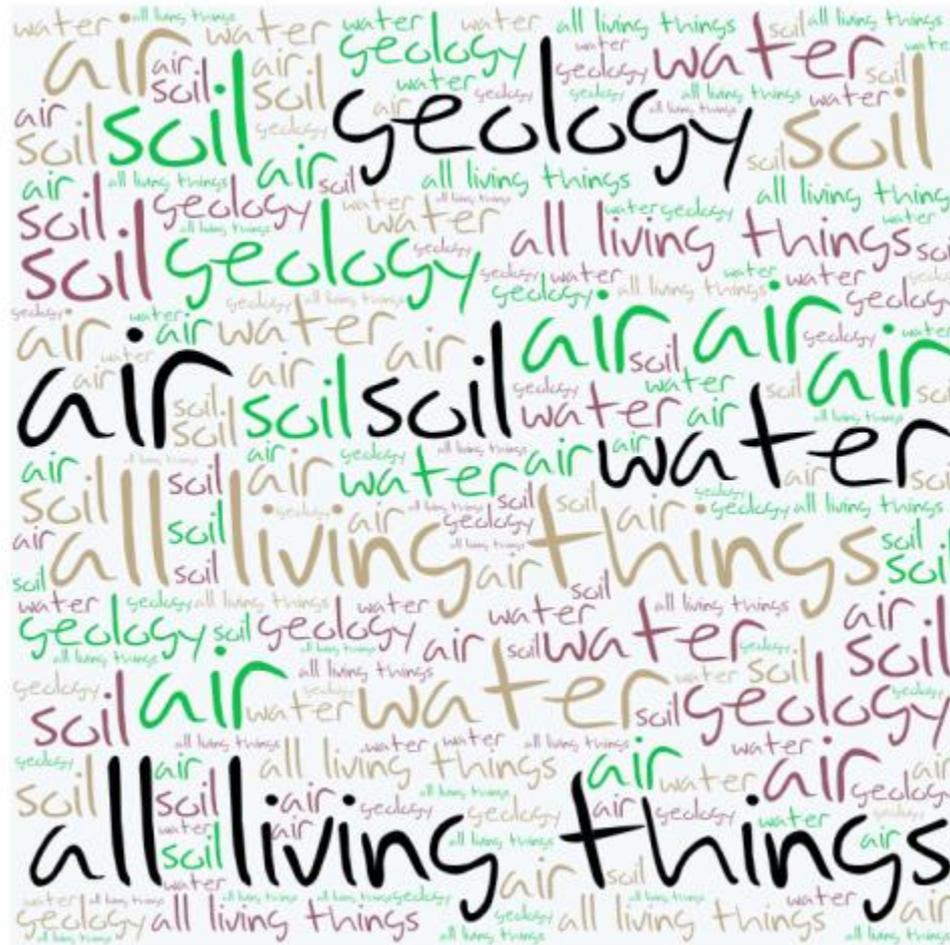
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Safe operation

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Kyle of Lochalsh, Scotland, 15th January 2007



The balancing act;

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Green infrastructure...

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... what are we trying to achieve...

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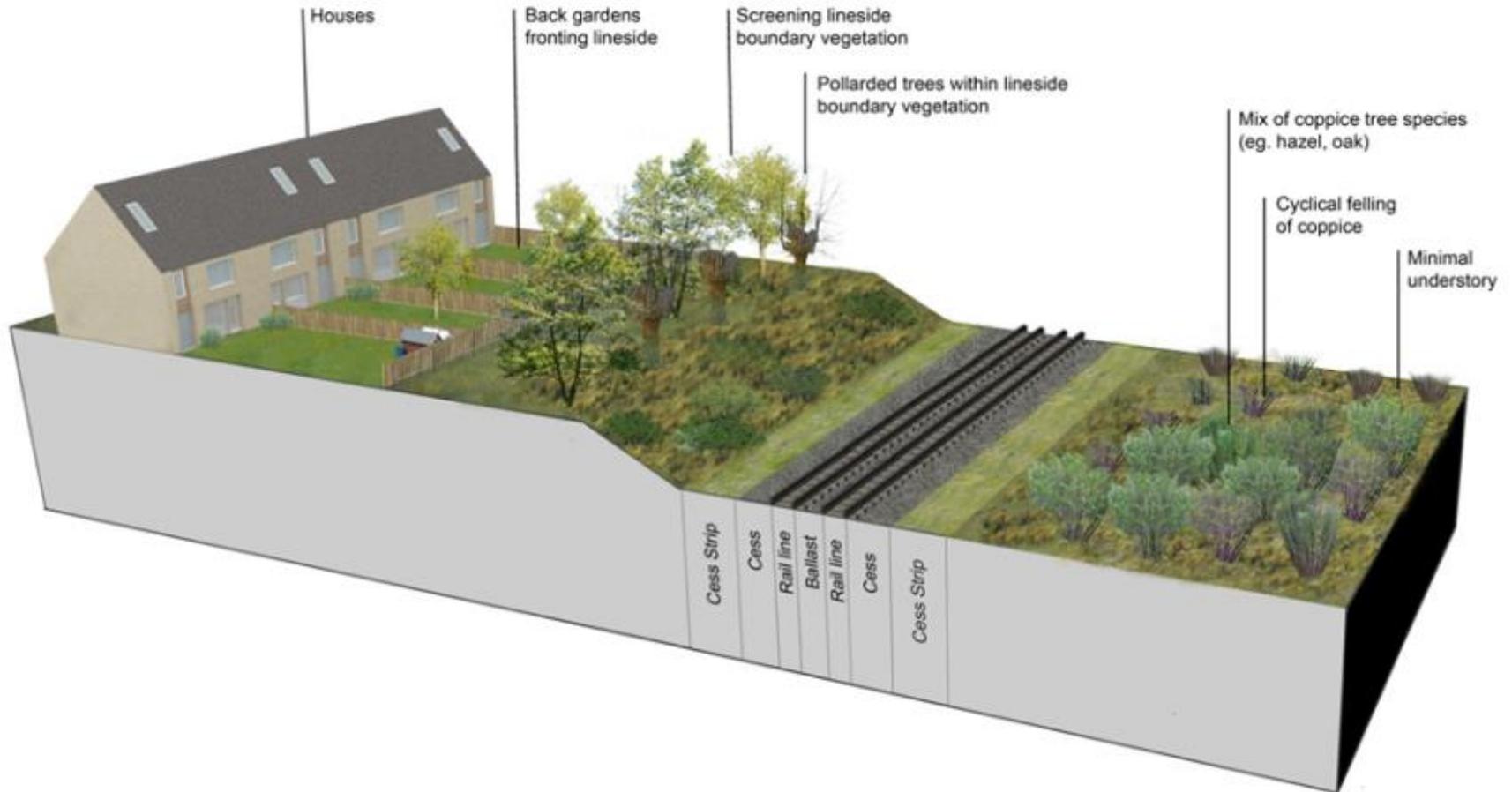
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... and the opportunities we have...

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Cellmapping, AeroGRID, IGN, IGP, Swisstopo, and the GIS User Community



Woodland as buffer to existing settlement

Lineside woodland strip connects with adjacent woodland

Lineside woodland strip links with adjacent field hedgerows

Lineside woodland belt extends woodland edge to adjacent field

- Lineside woodland vegetation
- Adjacent woodland vegetation

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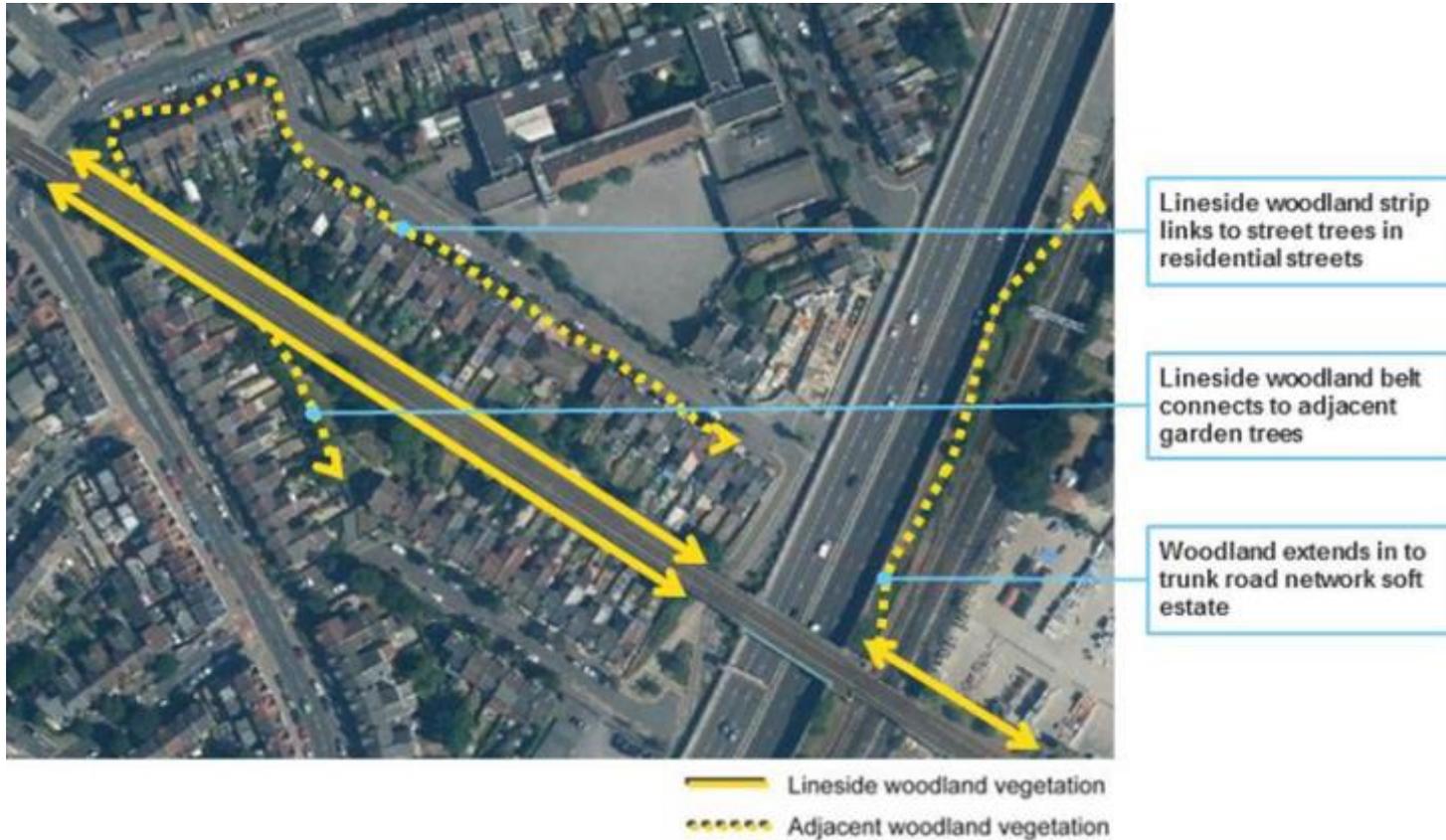
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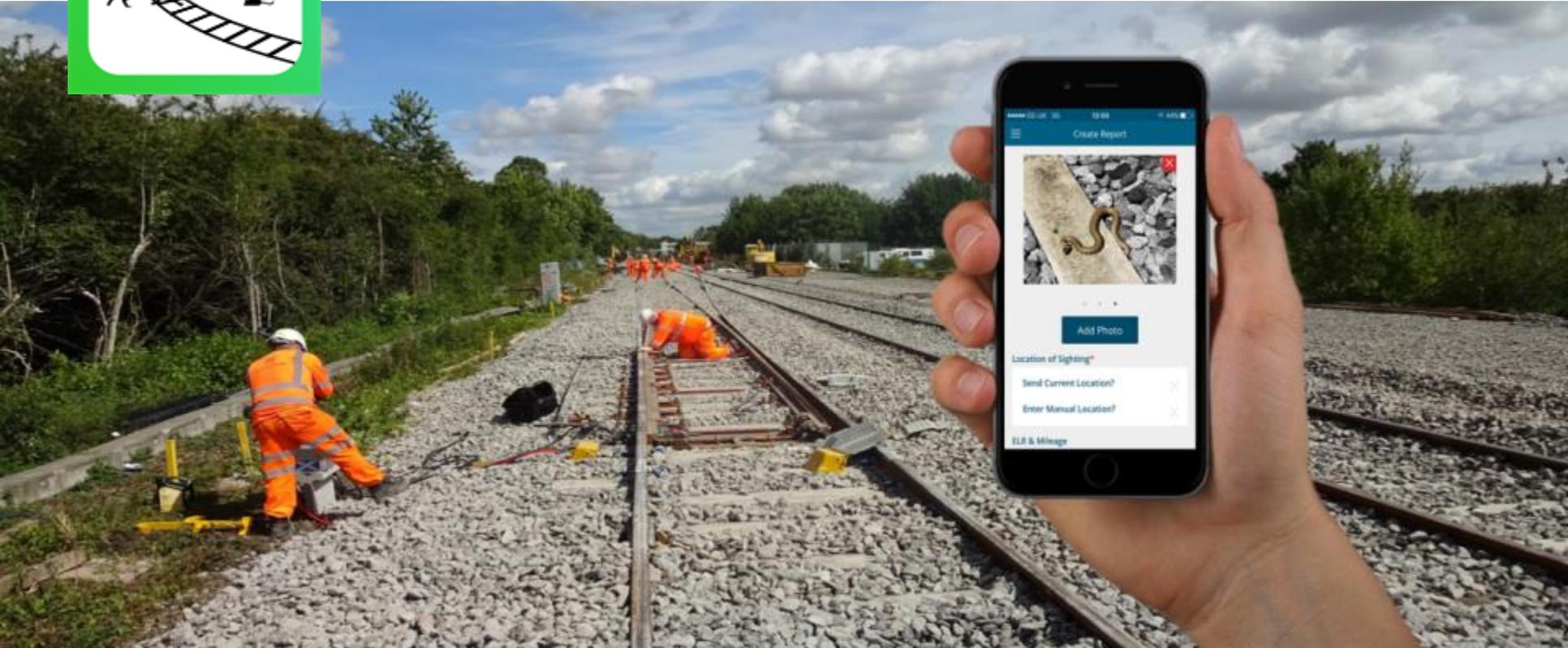
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Thank you

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