

13th UIC Sustainability Conference



*Operational railway or
environmental network?*

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12, 13, 14 October 2016

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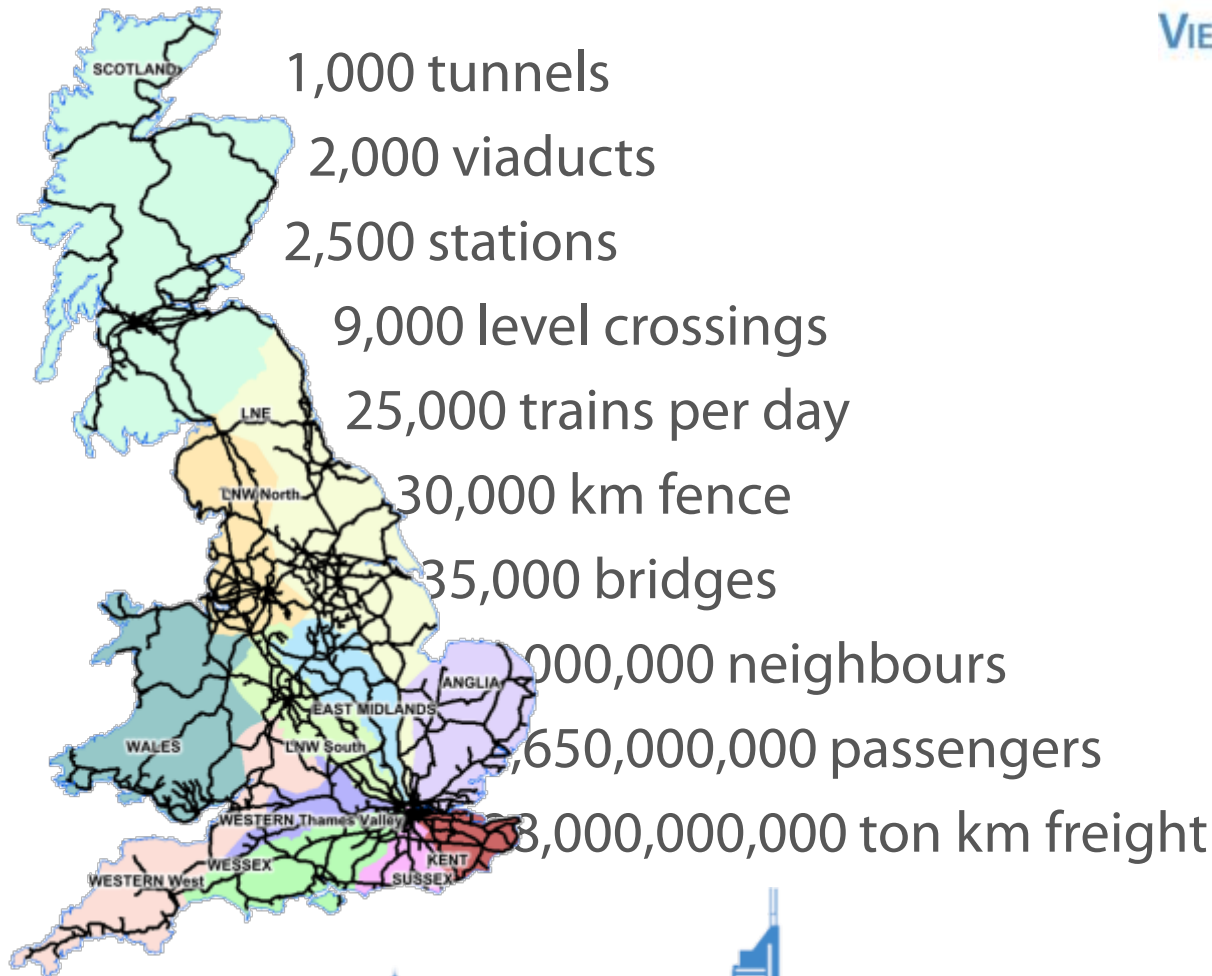
- The British railway network
- Operational railway
- Environmental network
- Stakeholder expectations
- Sustainability initiatives



The British railway network

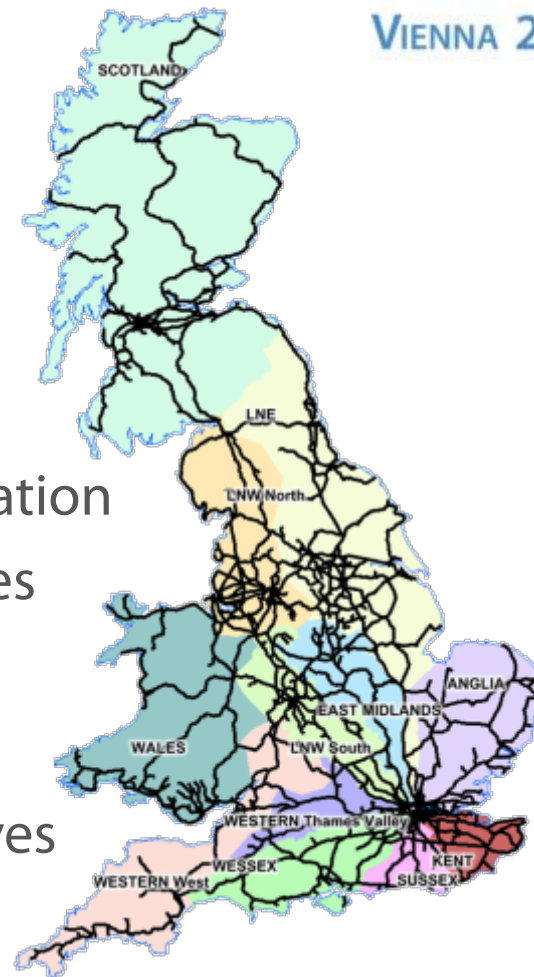


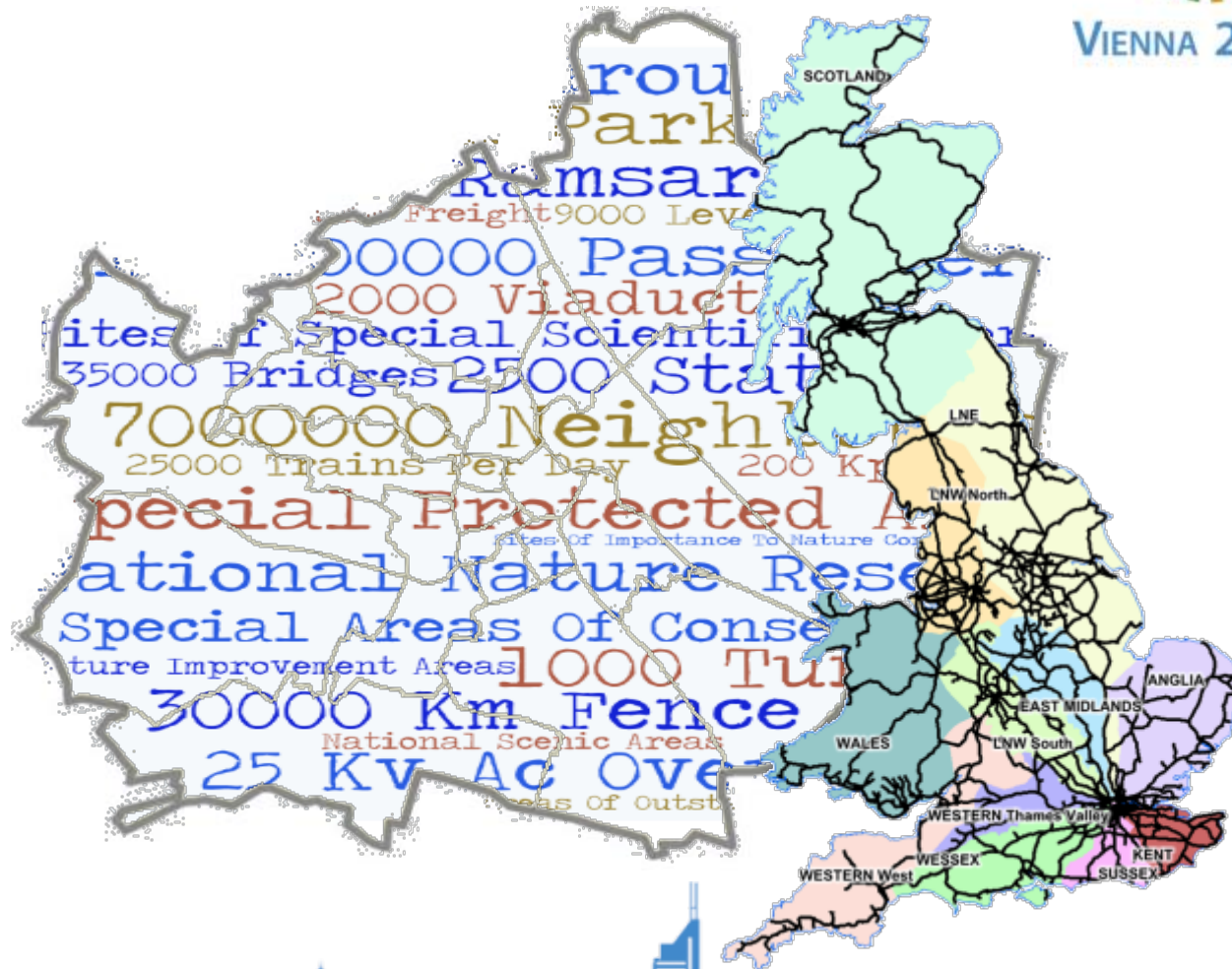
Network Rail





Sites of Special Scientific Interest
National Parks
Areas of Outstanding Natural Beauty
Special Areas of Conservation
Special Protected Areas
Sites of Importance to Nature Conservation
Ramsar sites
Nature Improvement Areas
National Scenic Areas
National Nature Reserves





Operational railway



Complex signalling systems



Challenging infrastructure



Historic assets



Drainage 'issues'



High speed rail



Public interface



Environmental network



Badgers



Great crested newts



Elephant hawkmoth



Large blue butterfly



Himalayan balsam



Rare whitebeams



Adder



Stakeholder expectations

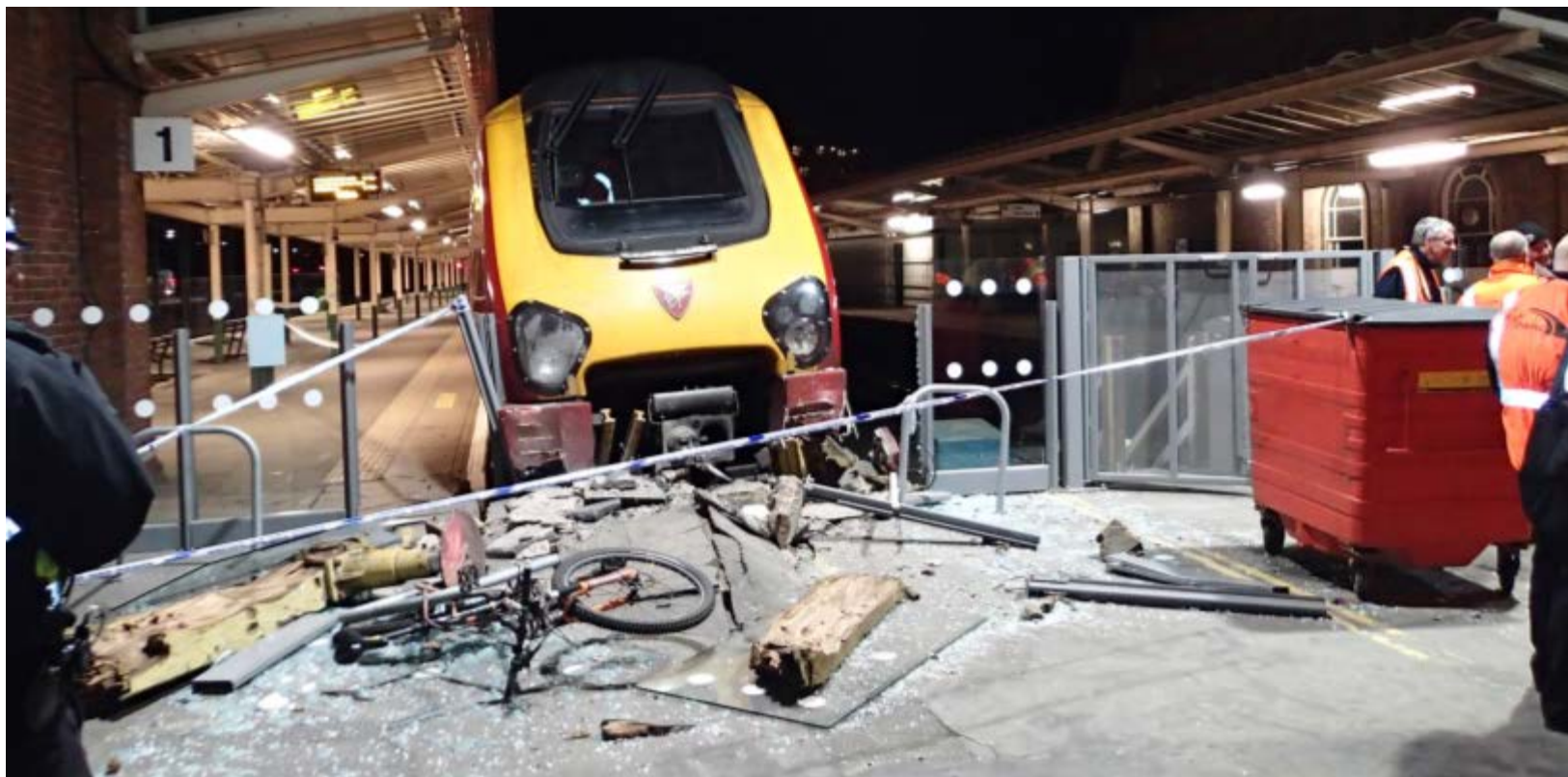


Stakeholder expectations

- Travelling public and rail staff



Adhesion (2013)



Collision potential



Derailment (2007)



$\frac{1}{3}$ of fallen trees hit by trains



Stakeholder expectations

- Lineside neighbours
 - ... the humans



The view when you left for work



... and when you got home



Did we tell you...



... we were doing some work?



Stakeholder expectations

- Lineside neighbours
 - ... the animals and plants



Loss of habitat?



Lack of awareness



Sustainability initiatives



Data



<http://www.realisedatasystems.com/tag/data-tracking/>



<http://www.fanpop.com>



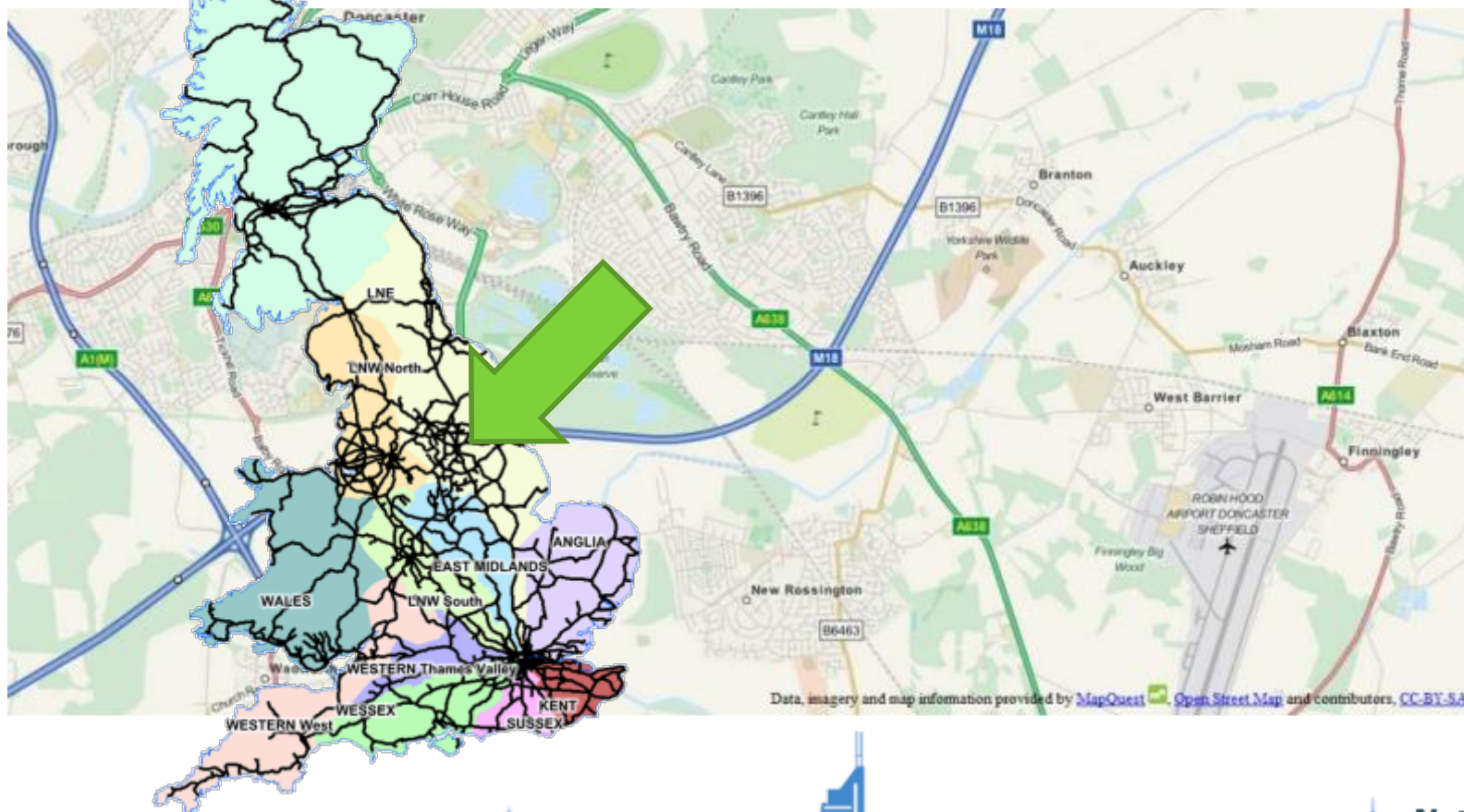
Green Transport Project



- Network Rail
- Natural England
- Highways England
- Cumbria Wildlife Trust
- Yorkshire Wildlife Trust
- Morecambe Bay Limestones & Wetlands Nature Improvement Area
- Humberhead Levels Partnership



Doncaster



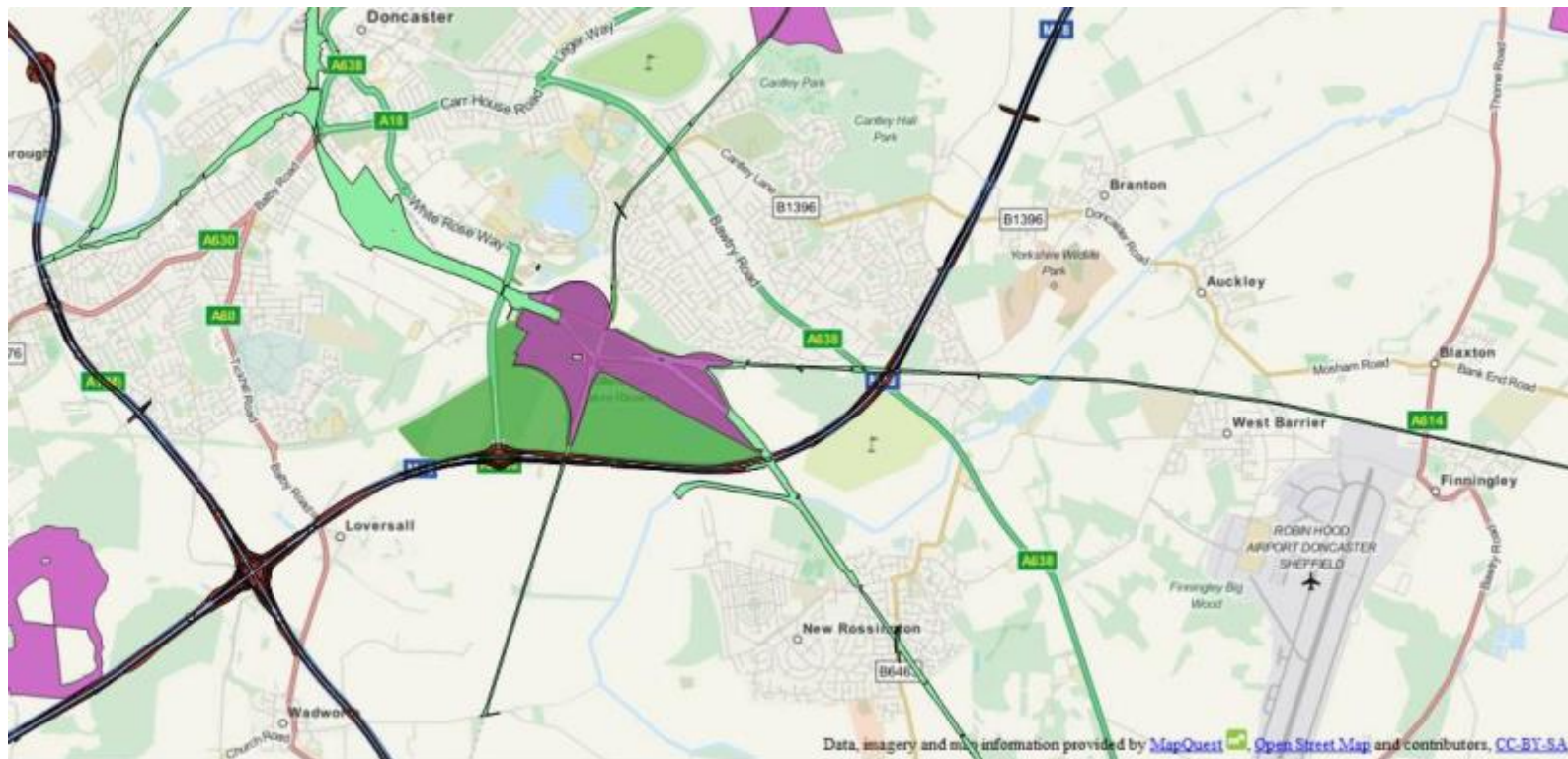
Railway estate



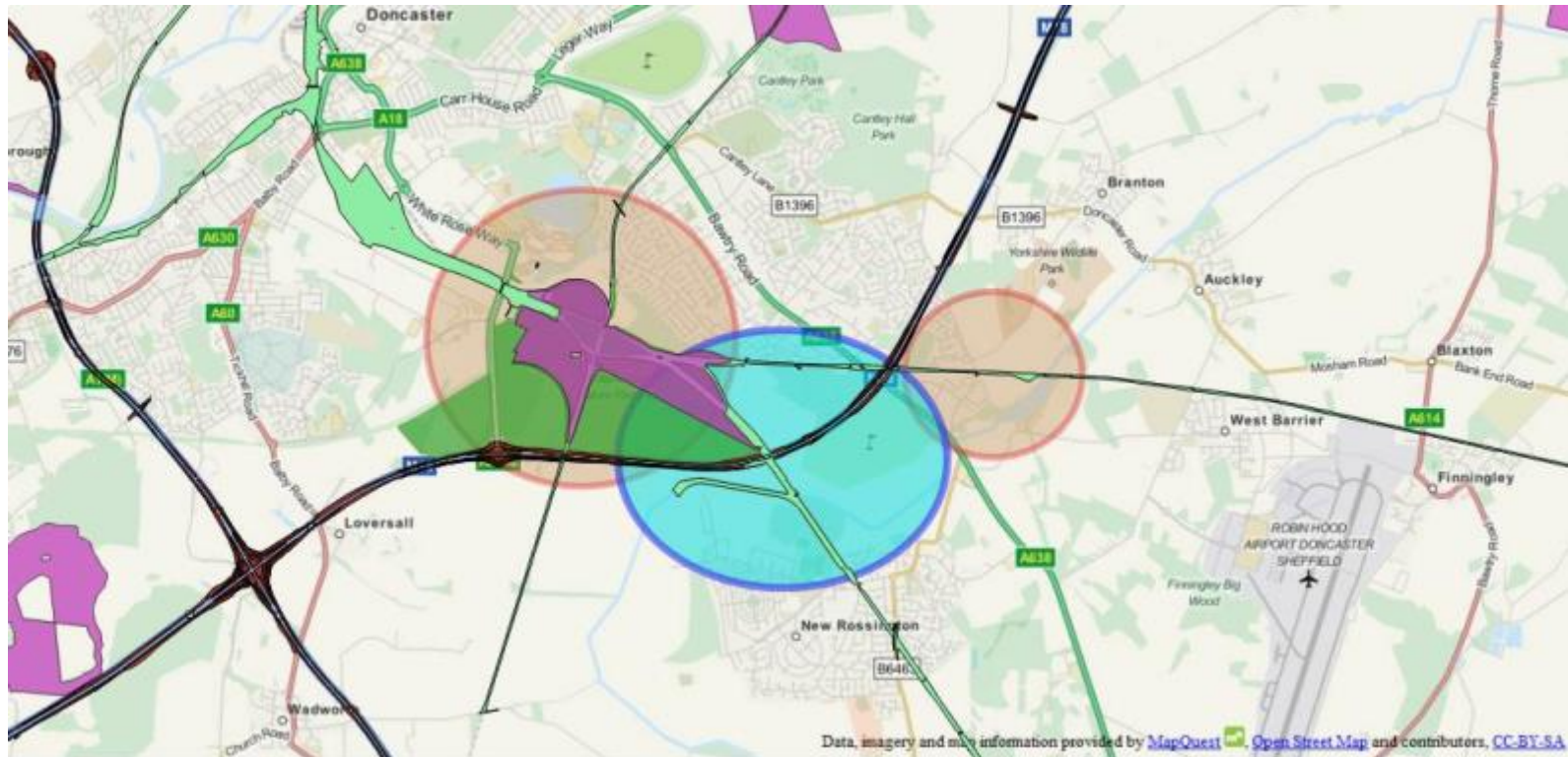
Trunk road network



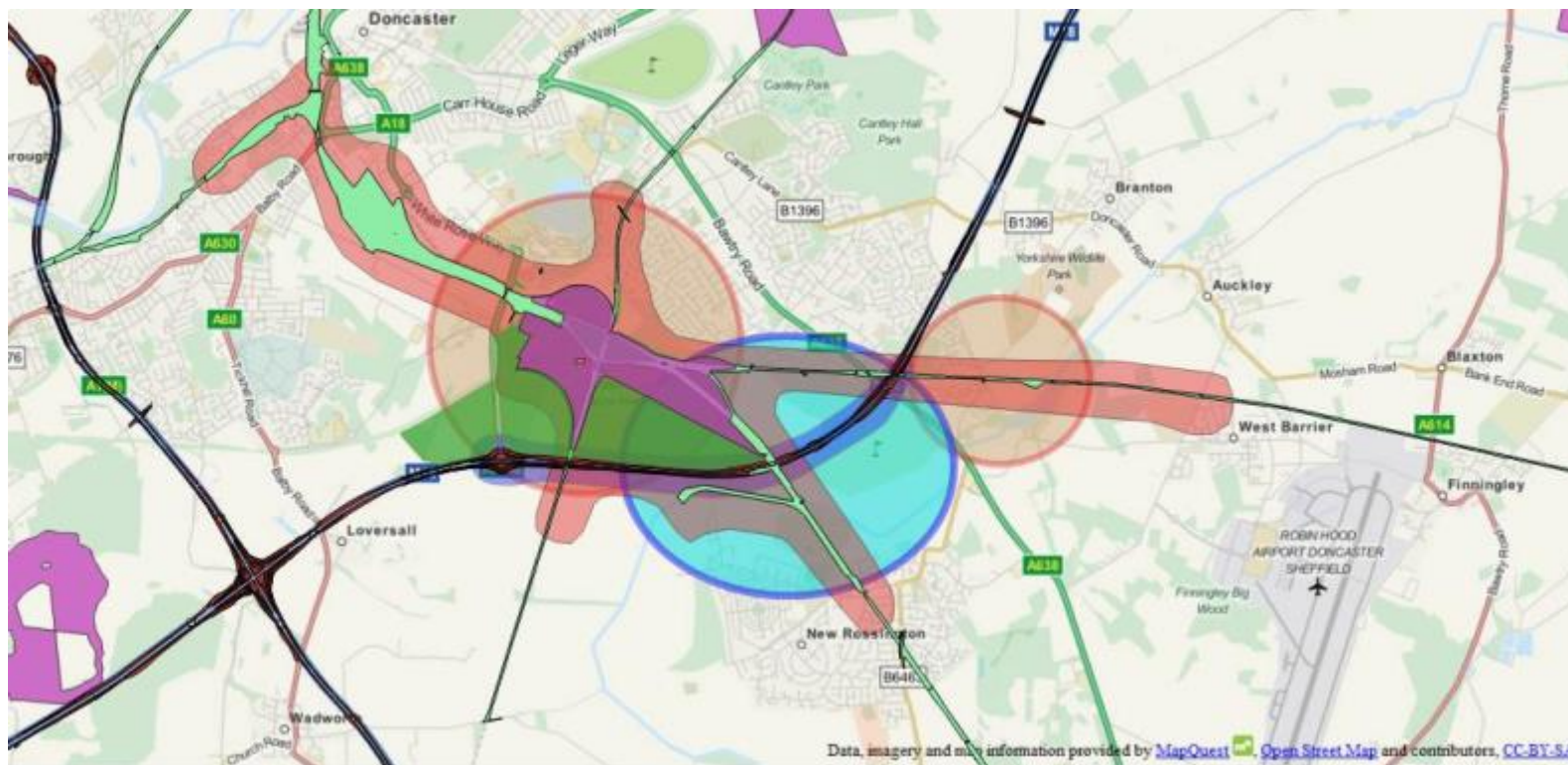
Designated areas



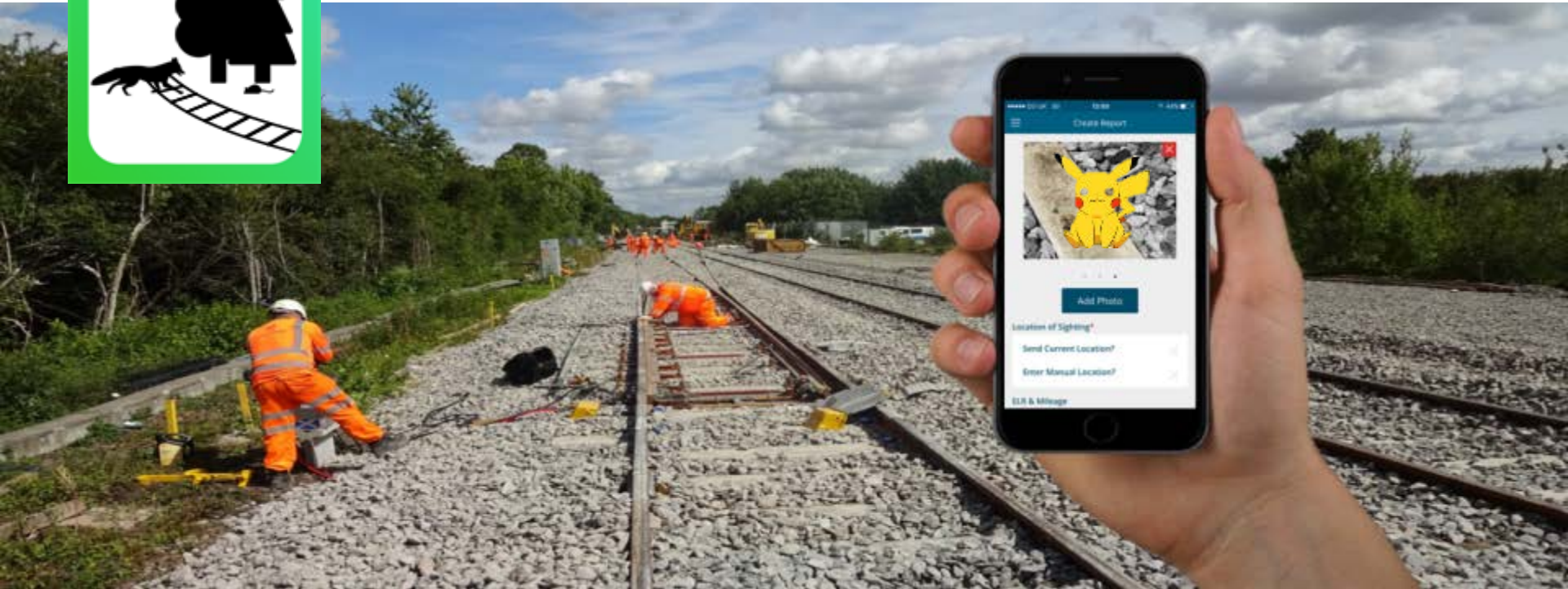
Opportunity mapping



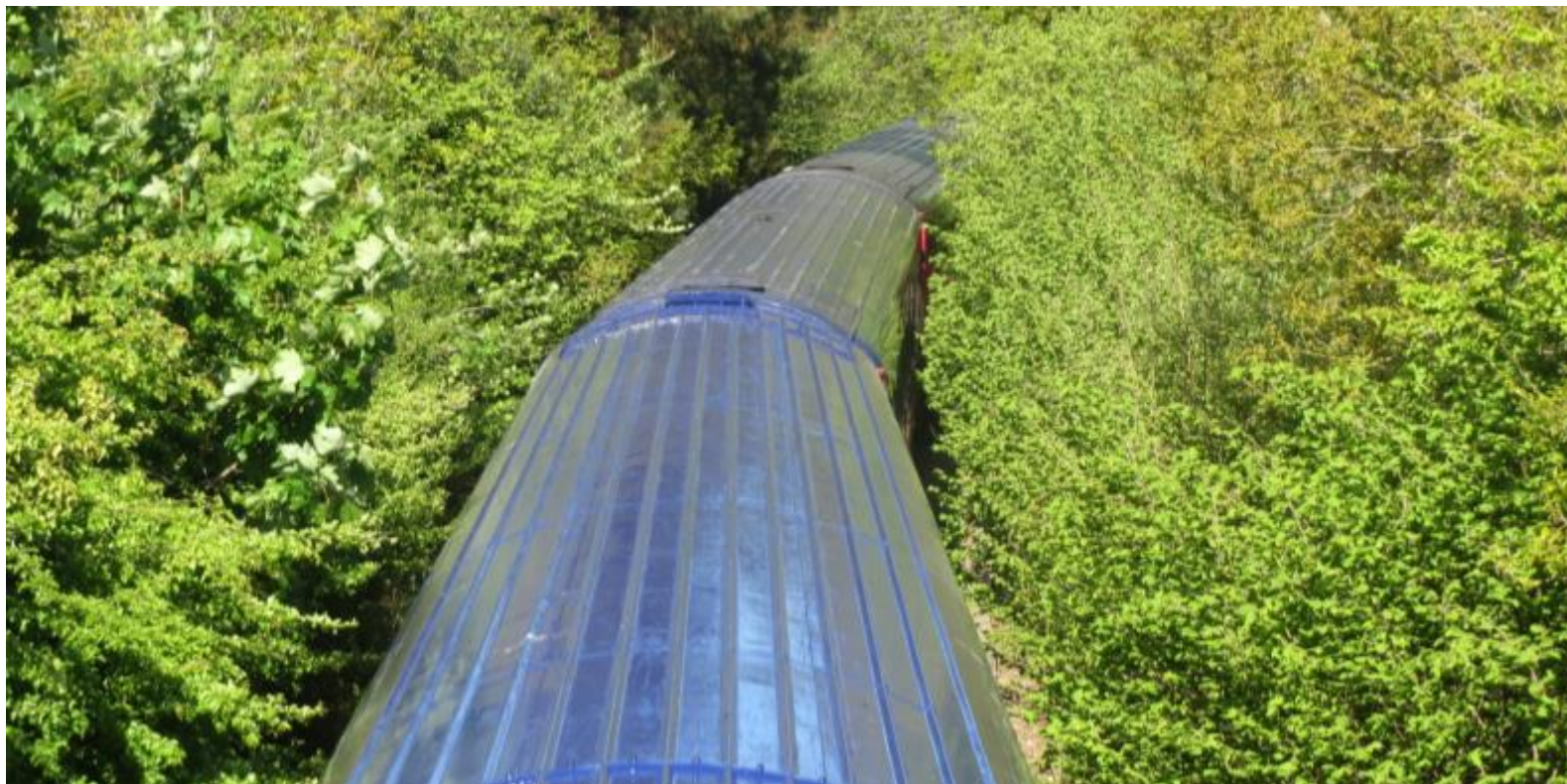
Extensive opportunity



EcoReporter app (iOS)



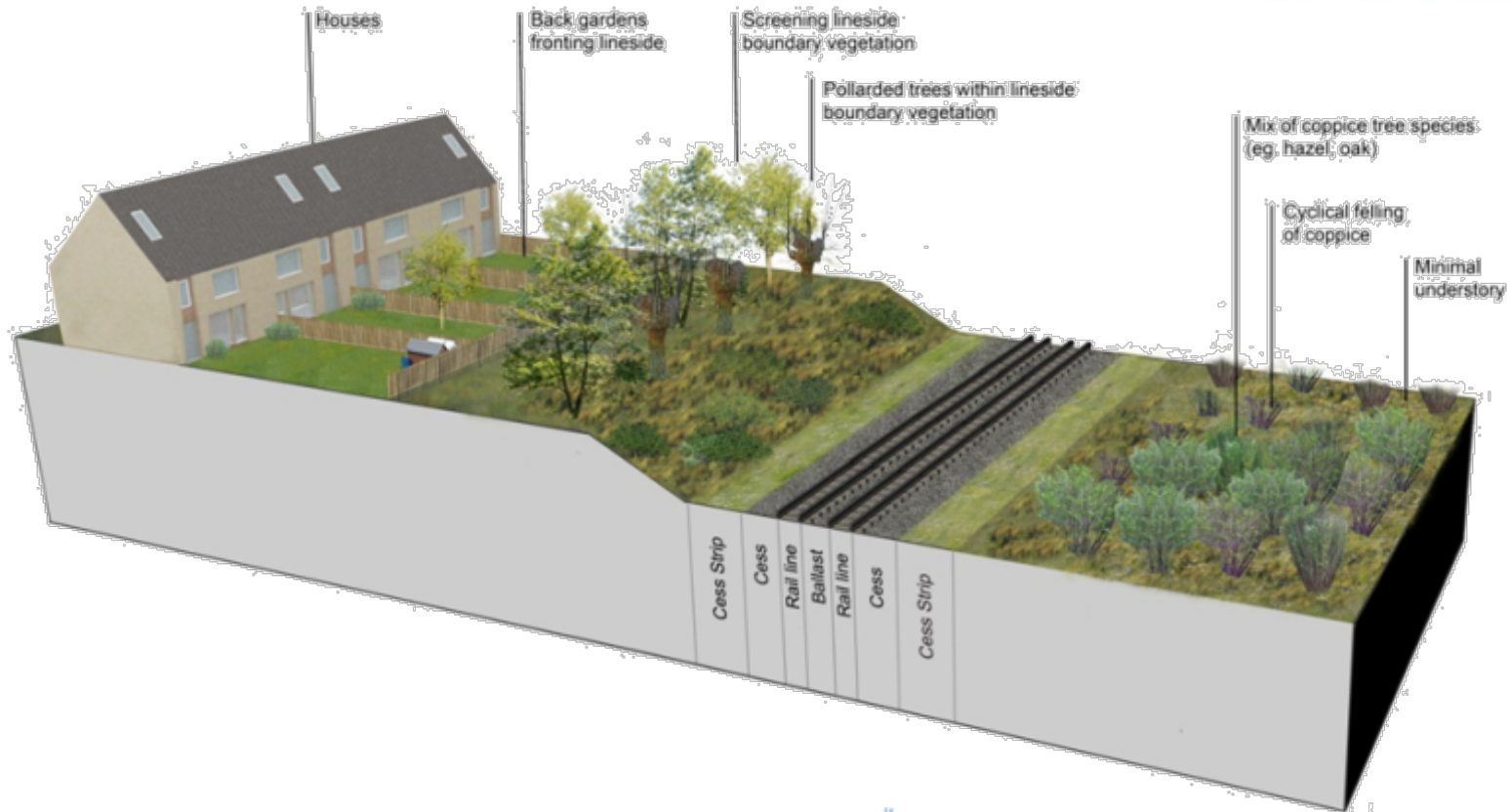
Plan the transition from this...



... to this, whilst...



... taking them into account



Thank you

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NetworkRail

