

Road asset management for extreme events: Mitigating the impact of landslides onto roads

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Frequent Landslides



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Storms and Landslides

NEWS

A83 Rest and Be Thankful: Explosion for boulder goes ahead

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Debris from the blast means the A83 and Old Military Road will remain closed to traffic overnight

A controlled explosion has been carried out in a bid to break up a huge boulder that was a threat to safety on the A83 at the Rest and Be Thankful in Argyll.

The 150-tonne rock was deemed unsafe by experts after being loosened on the hillside, 175m above the carriageway, during Storm Frank last week.

The blast to remove the boulder went ahead at about 16:30 despite low cloud on the slope delaying earlier efforts.

NEWS

Storm Frank: Cars caught up in Rest and Be Thankful landslide

30 December 2015 by Rita Campbell

0 comments

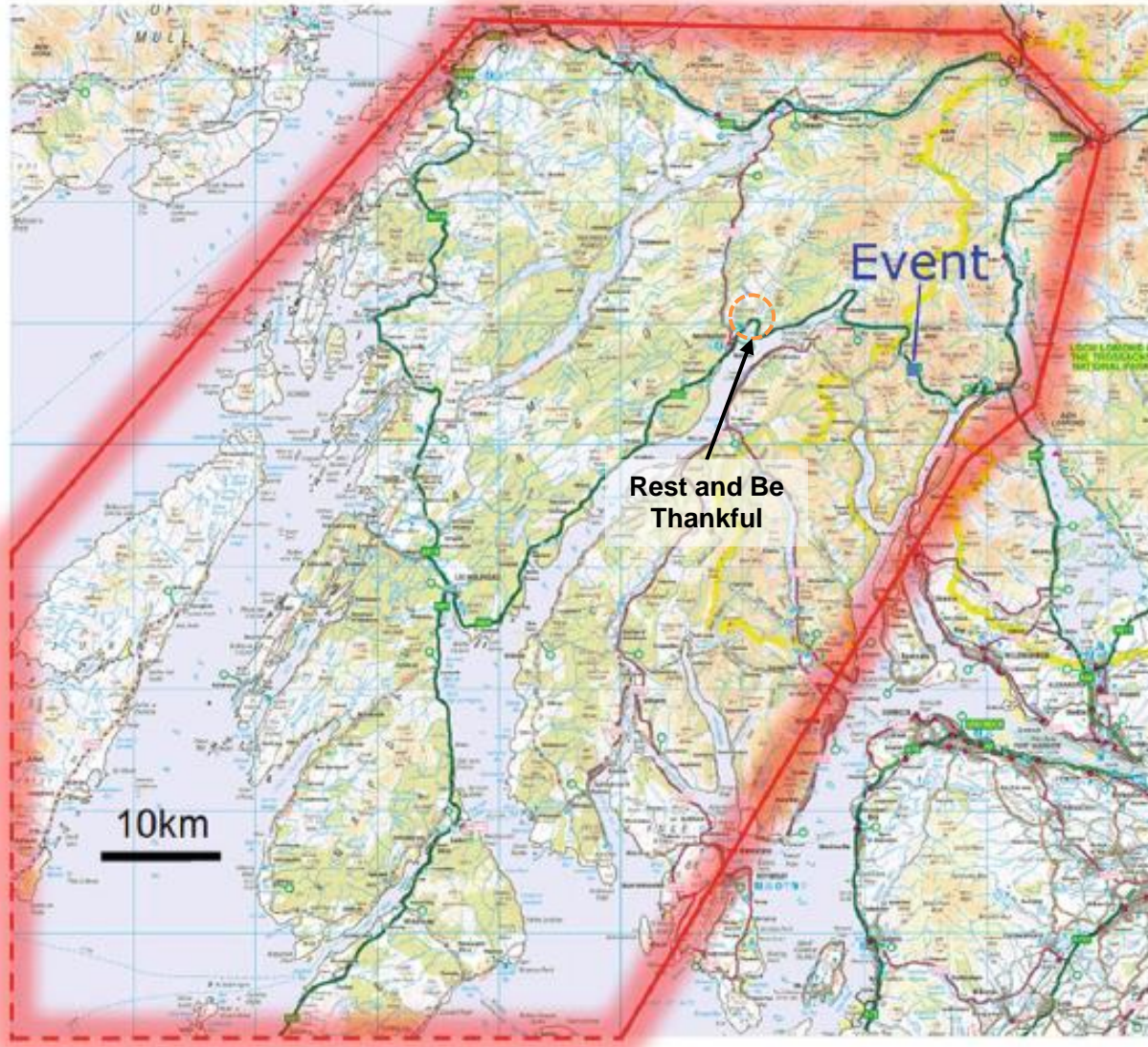


The landslide at the Rest and be Thankful on December 30

Two cars were caught up in a landslide on the A83 at the Rest and Be Thankful this morning.

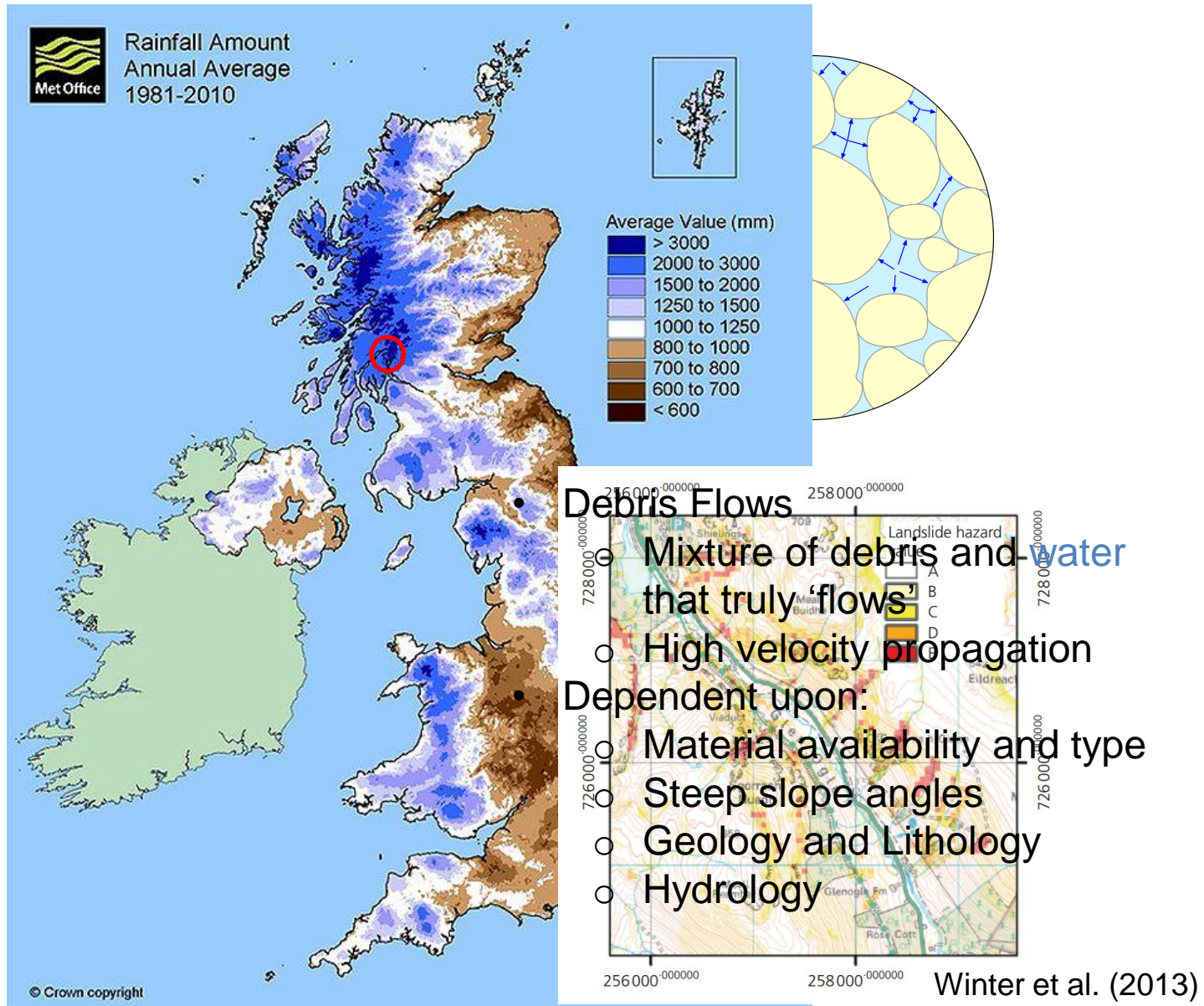
Up to 300 tonnes of debris was washed down the hillside on the Tarbet to Campbeltown trunk road.

Impacts



(Winter and Bromhead, 2013; Winter, 2014)

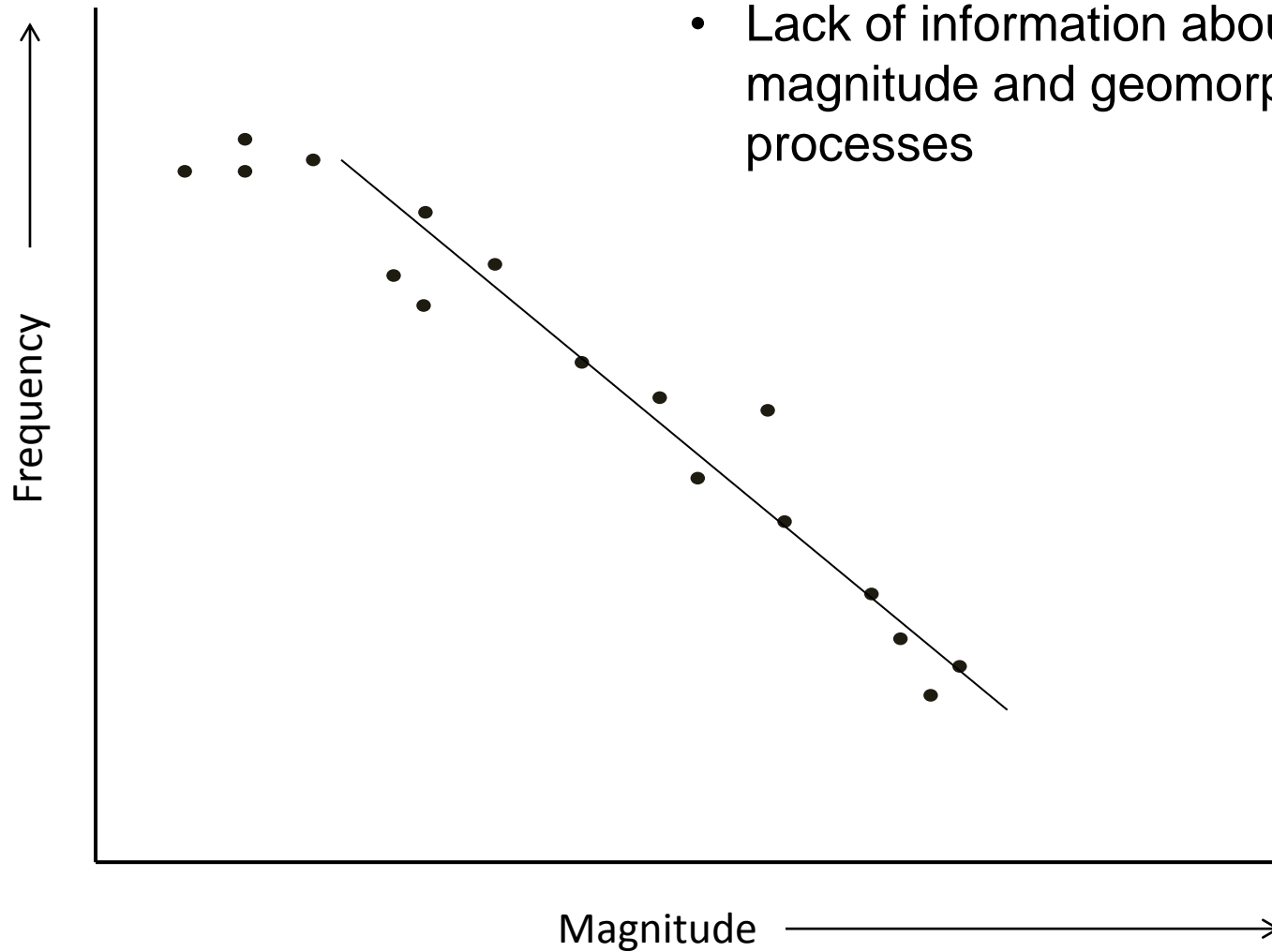
Why and How?



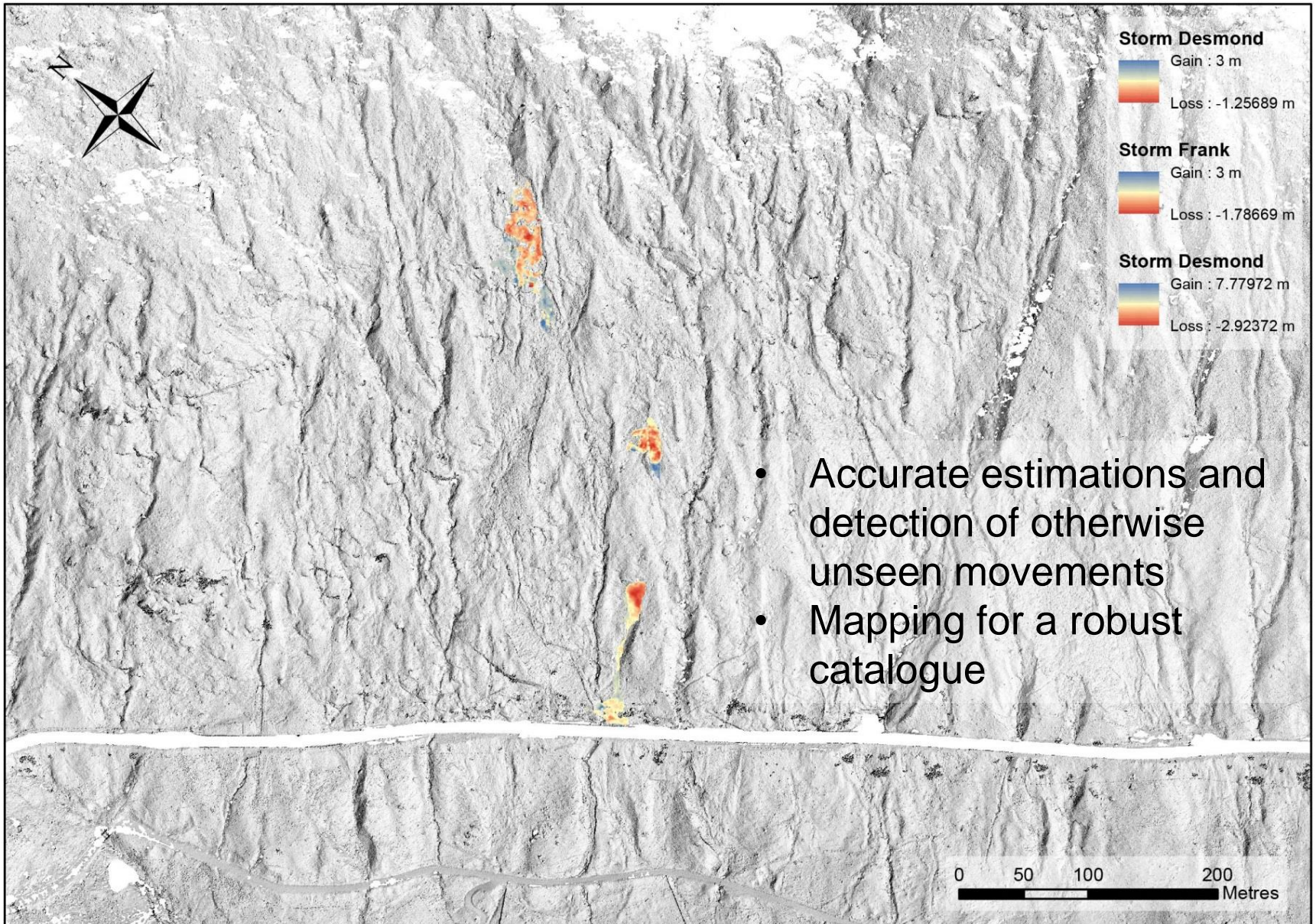
Mitigation



Understanding Potential



Towards a Better Understanding

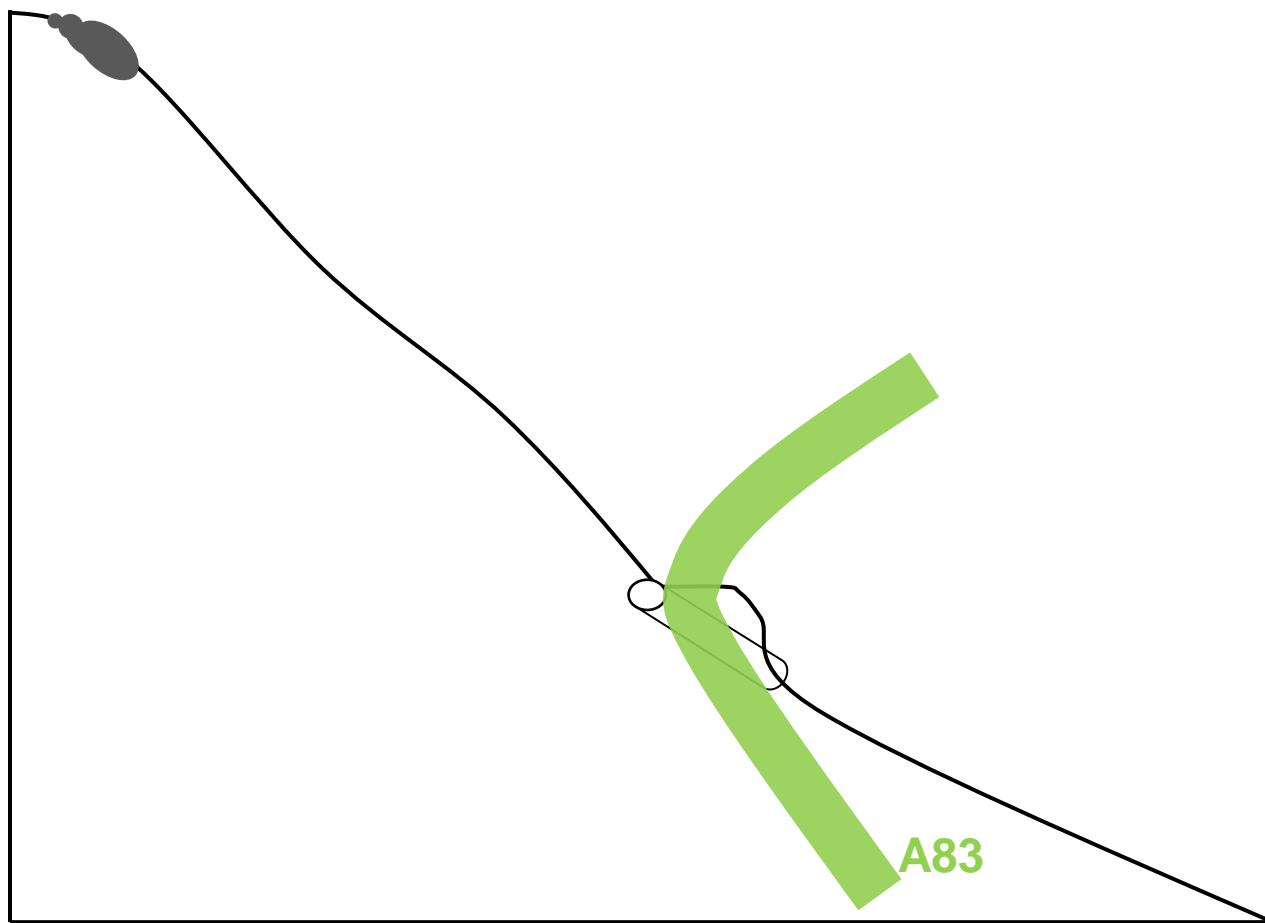


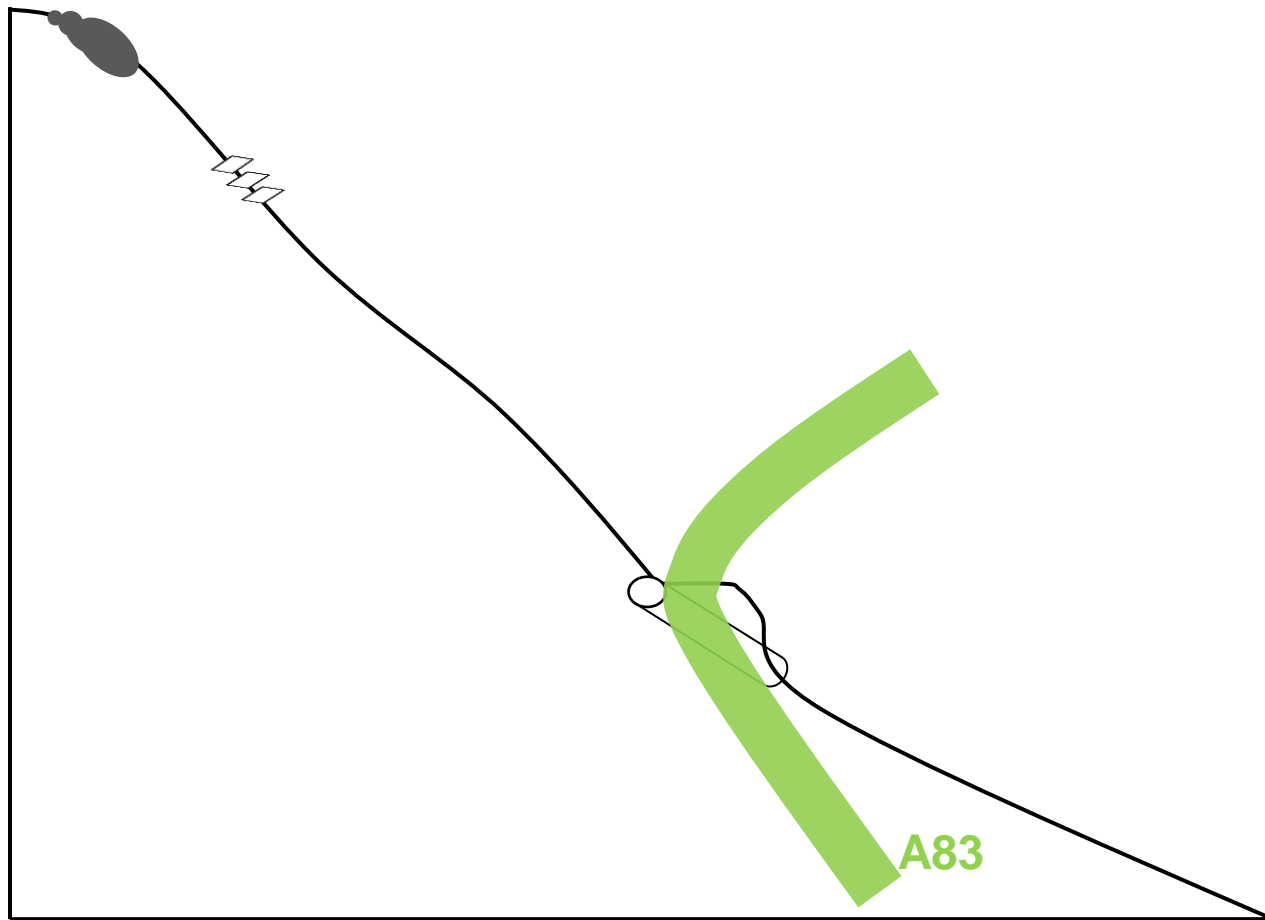
Modelling Runout

- RAMM
 - 3D
 - SLF
 - Has app
 - Can imp



Coarse example model





A83

Thank you for listening.

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References

Winter, M.G., Harrison, M., Macgregor, F. and Shackman, L., 2013. Landslide hazard and risk assessment on the Scottish road network. *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, 166(6), pp.522-539.

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