

# Technology and Compliance

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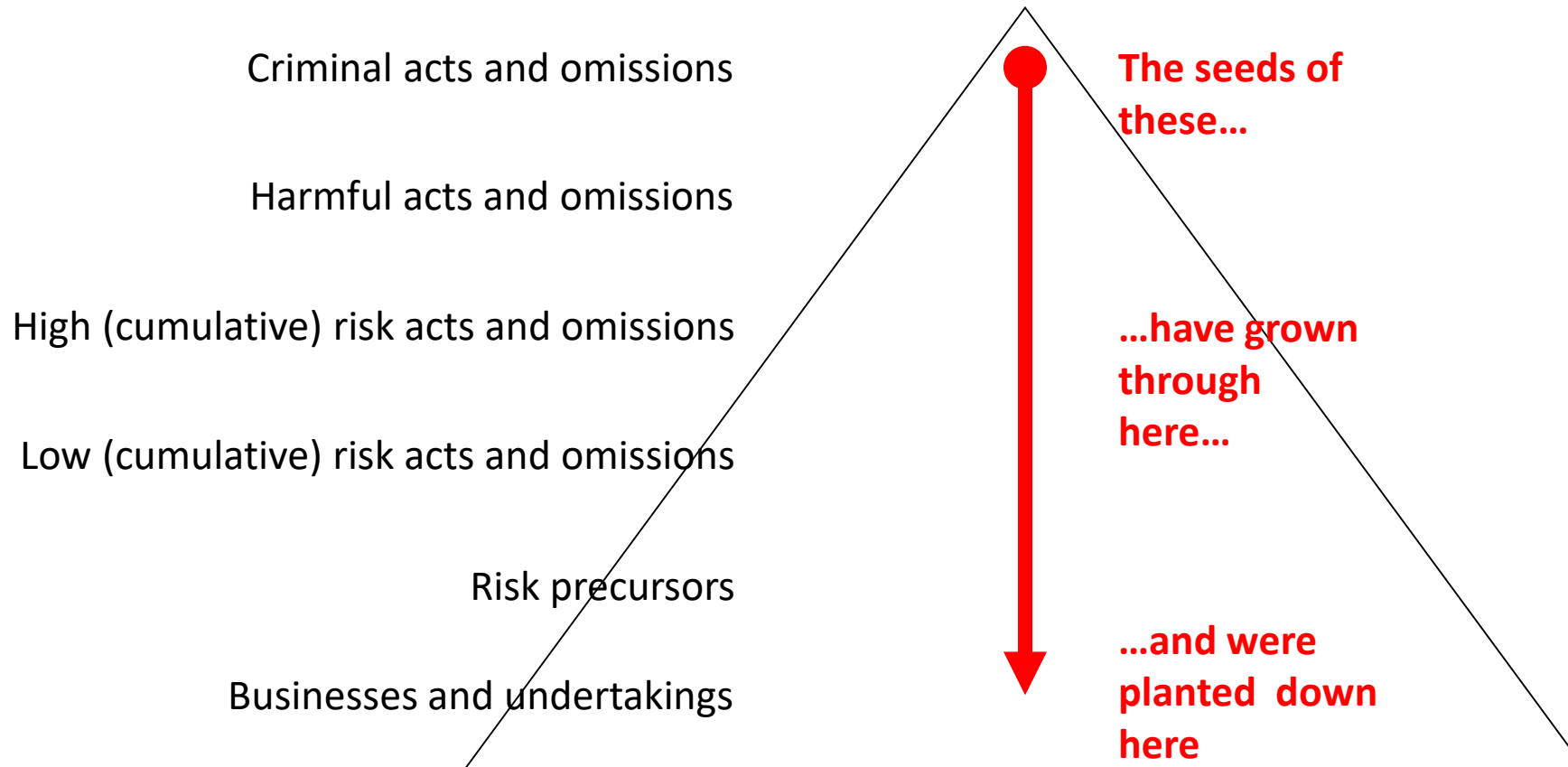


# Opening propositions

- Compliance is a behavior created by regulation to achieve a positive outcome
- We need to be clear on the outcomes we want, understand the necessary behaviours, and have regulation that requires and enables those behaviours
- Technology is a tool to enable and enhance compliance



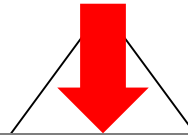
# A Model



# Reality 1.0 Enforcement alone



Criminal acts and omissions



**Reactive enforcement**

Veil of Ignorance

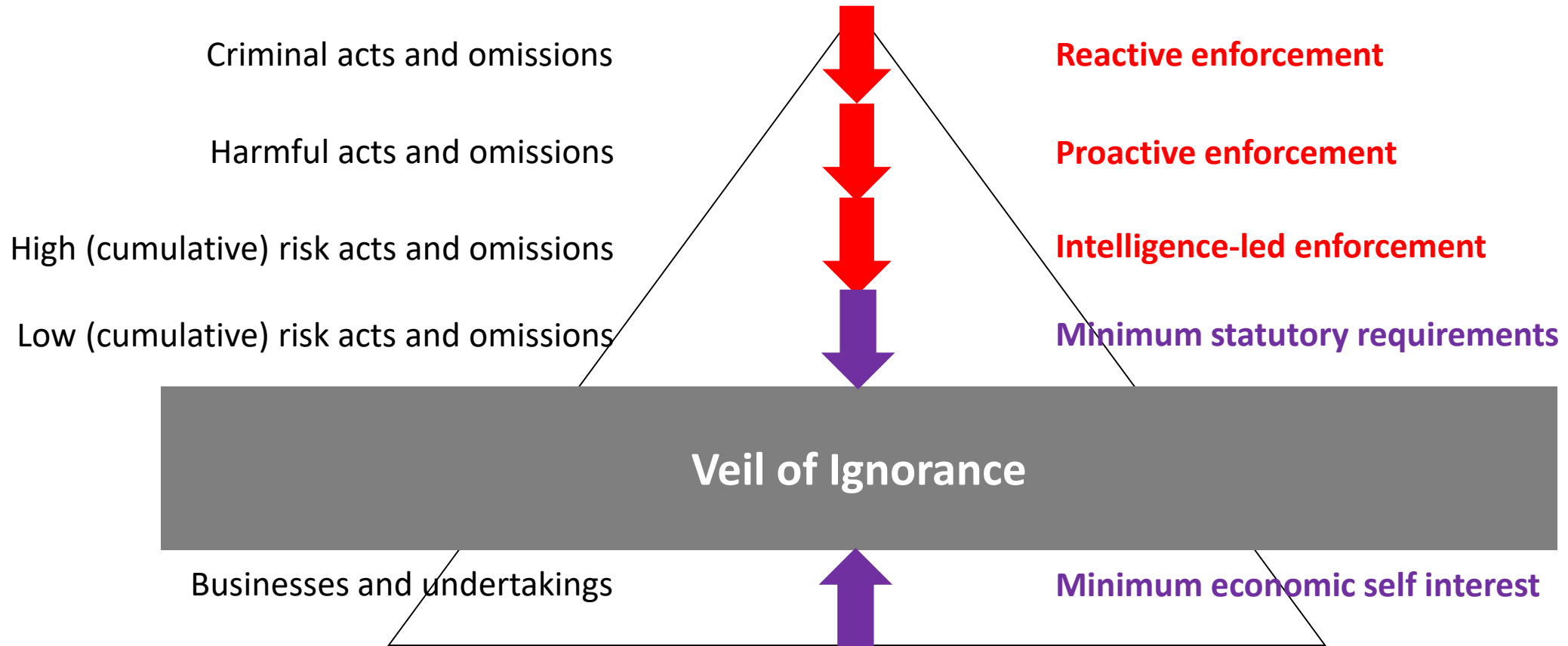
Businesses and undertakings



**Minimum economic self interest**

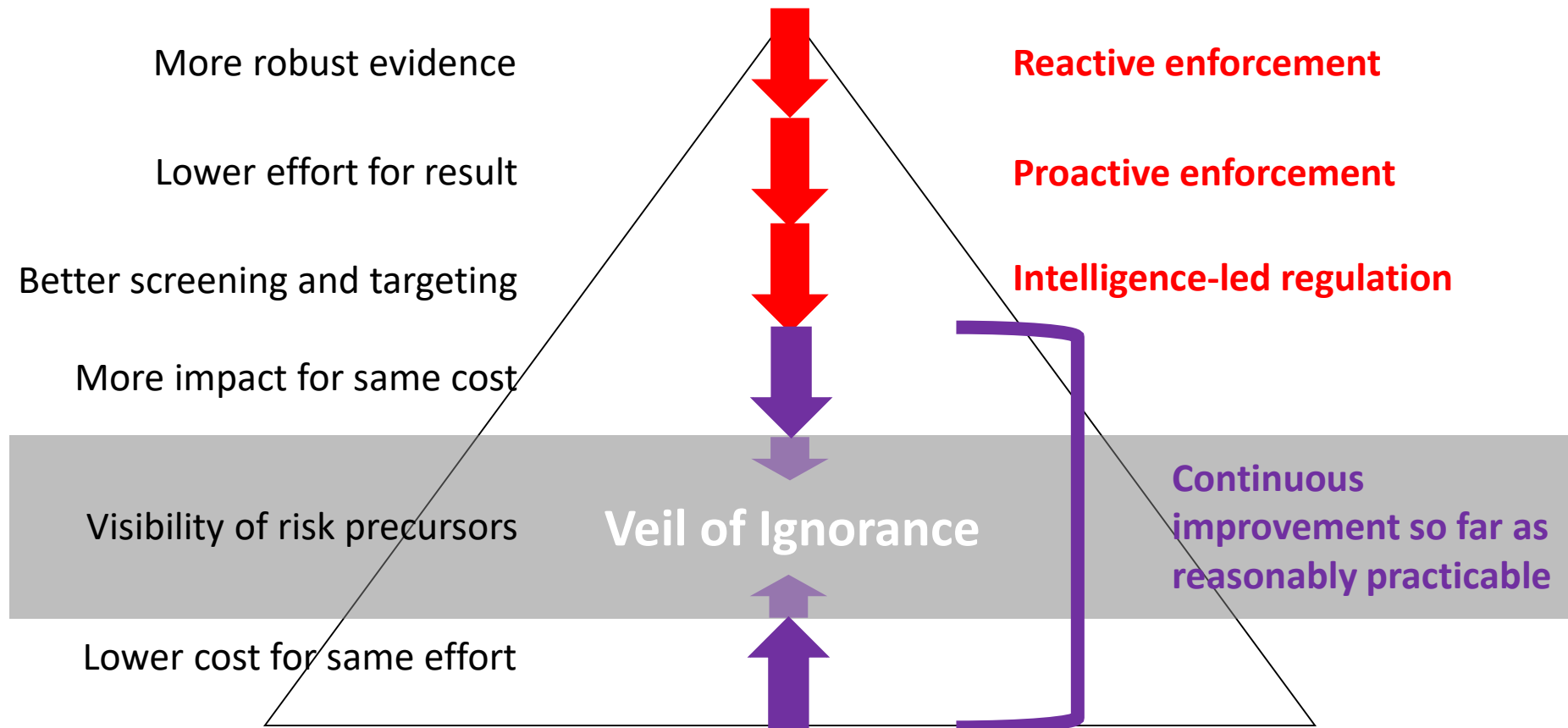


# Reality 2.0 Smart regulation



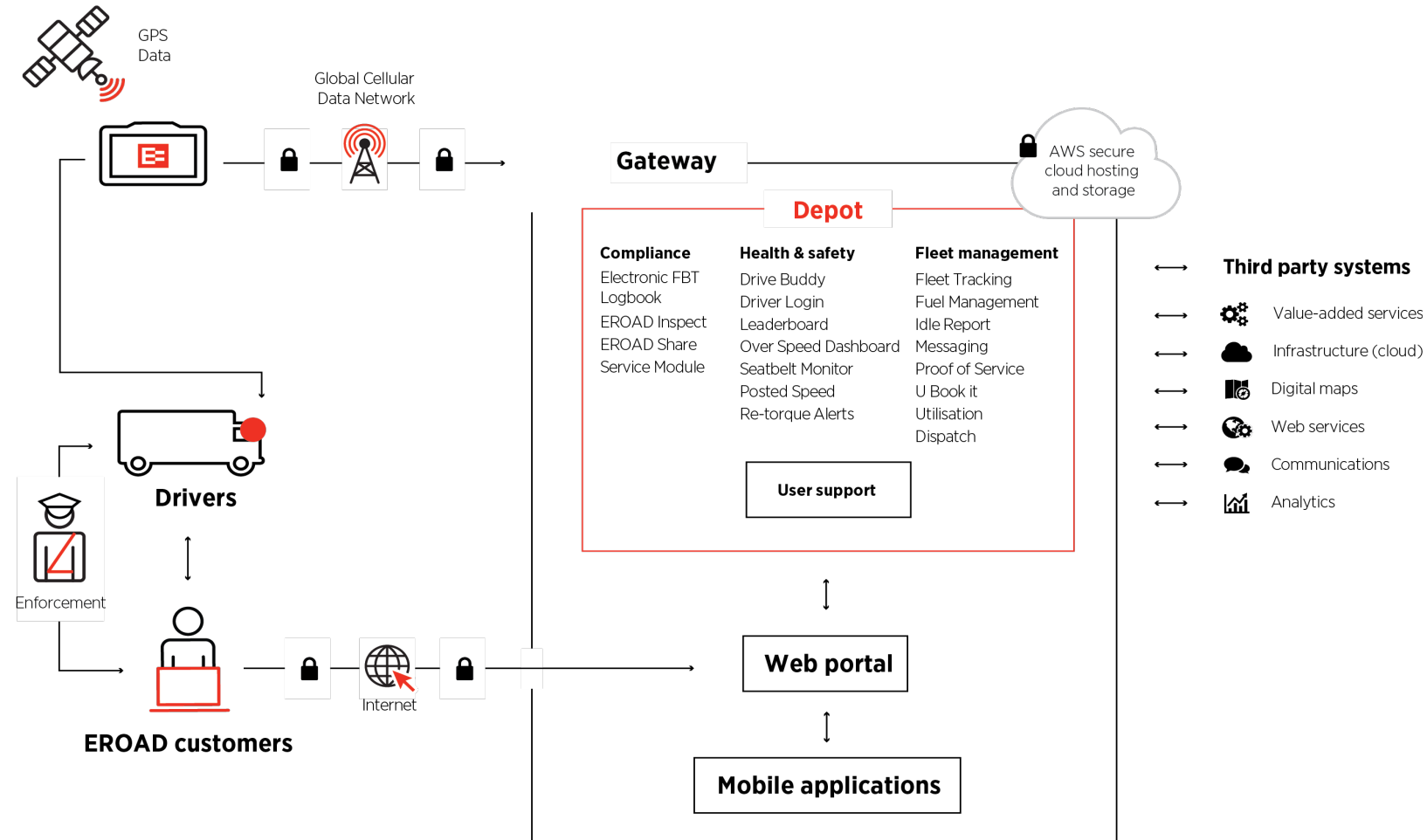


# Reality 3.0 ITS (telematics)





# Example system



# E.g. Effort



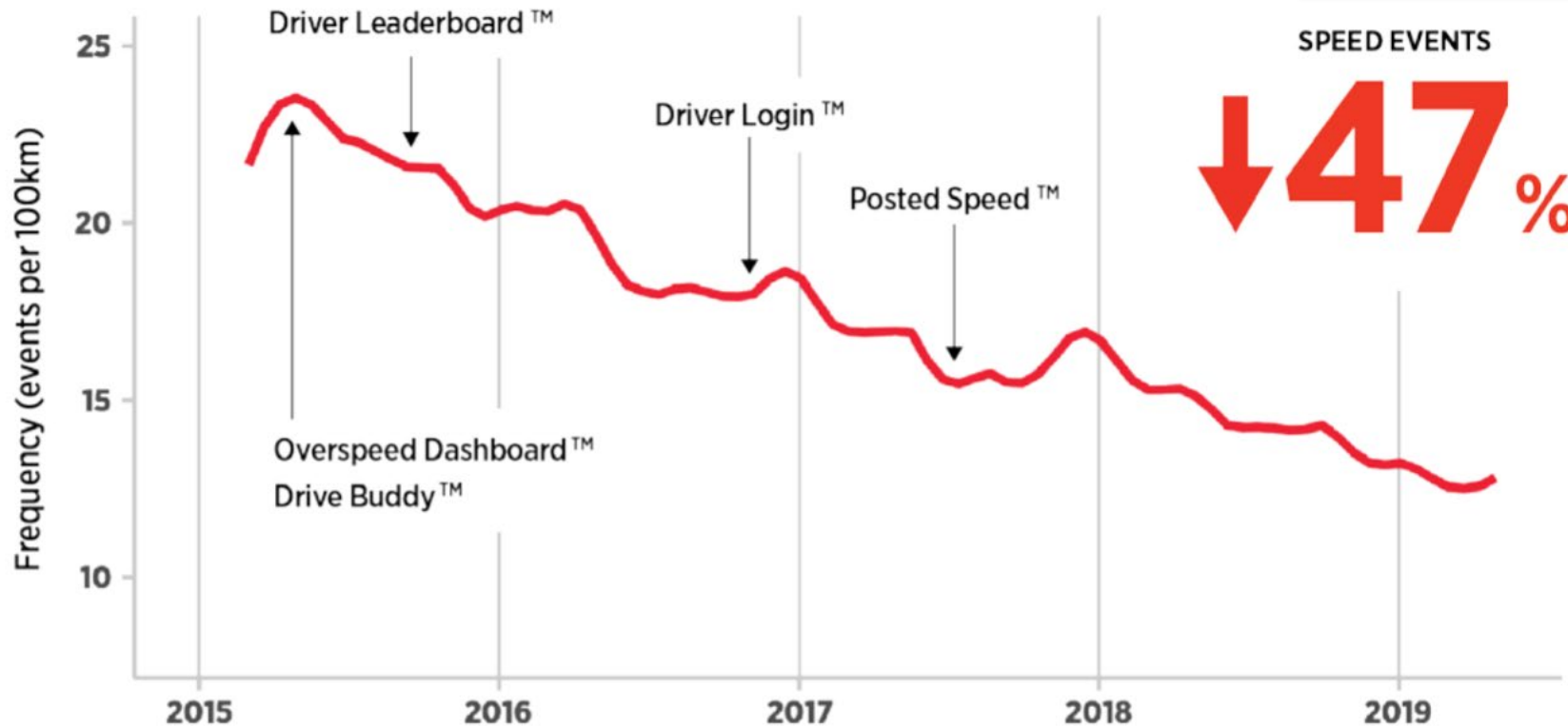
SPEEDING FREQUENCY  
EVENTS PER 100 MILES



■ Engaged with Driver Analytics  
■ Unengaged with Driver Analytics

Speeding Frequency  
↓ 38%

## New Zealand reduction in speed

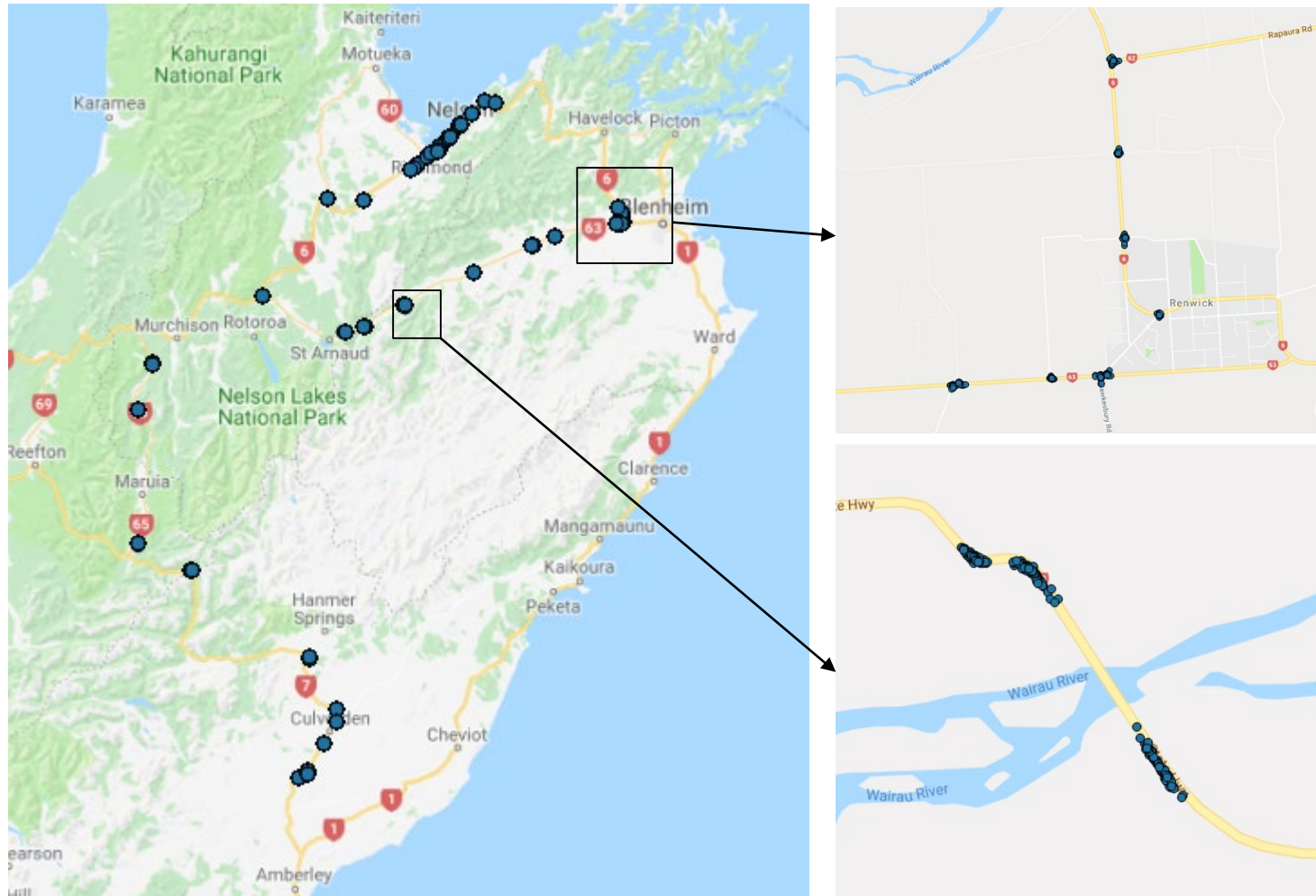


The above graph shows the reduction in over speed events over time as product enhancements have been added.



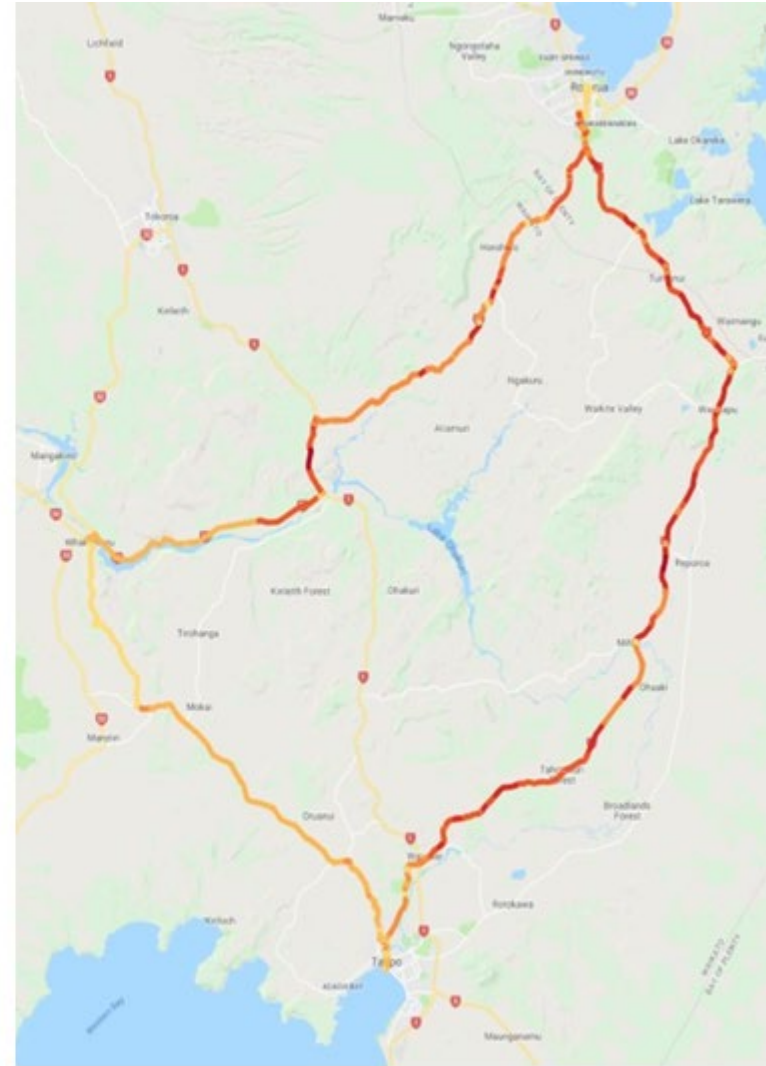
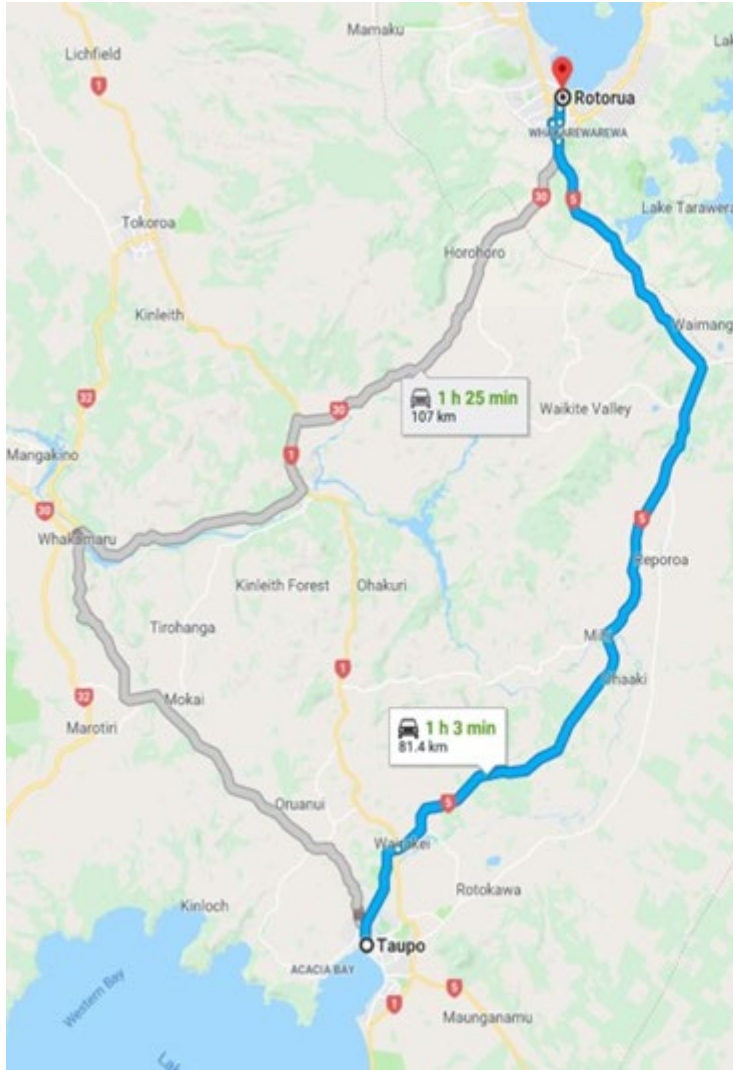


# E.g. Risk precursors





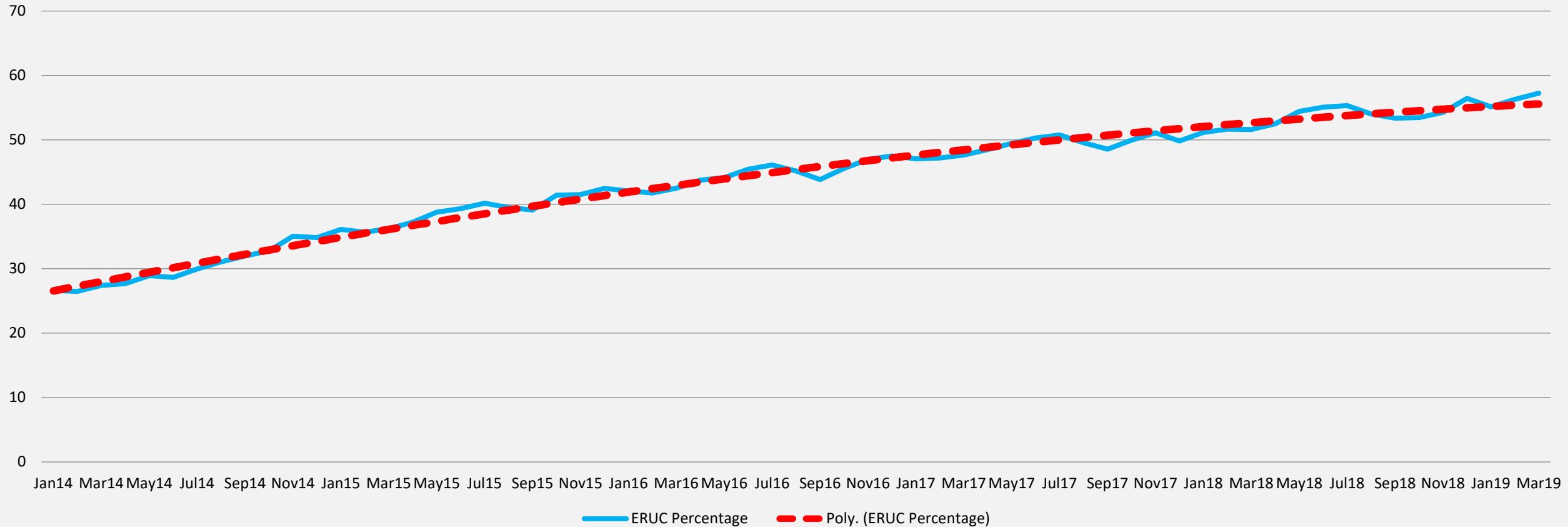
# E.g. Cumulative risk





# Limits to uptake

Heavy Vehicle RUC Purchases by value - % via ERUC agents



Source: NZTA 2019



# Next 2-5 years

Nothing new in two years, everything different in five

- If you want it for enforcement, then it needs to be mandated
- If you want it for compliance, then it needs incentives
- If you want it to be effective, then investment is required in public infrastructure, back office systems and people
- If you want it to be efficient, then outcome-based regulatory frameworks and partnering with industry are needed



# THANK YOU

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