Securing Autonomous Highway Futures: Creating an ELSI vision
Security Node, Lancaster University

As part of the TAS Security Node, we have been building a collaboration between Lancaster and National Highways, to co-create ethical, legal and social guidance for National Highways to use in their future work, which increasingly involves autonomous systems.

To help tackle the diverse and complex sets of AS security related challenges that organisations like National Highways face, RS3 for TAS-S has designed some creative and art thinking methods to foster spaces for critical reflection and open discussions. Below is a summary of some of our most recent work together.

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**Organisational Adaptation**
What kinds of roles will National Highways play in the future UK road network and AS adoption? National Highways as public service includes change in different organisations, and how they interact. Considerations include: Engagement with regulators; Guidelines for AS security, use & design

**Public Engagement**
How to engage diverse publics. Consultation without coercion. Crossing sectors and domains. Using participatory methods to make space for different voices. What public input counts and who decides?

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**Case Studies**

- **Connected and Autonomous Vehicles**
  - CAVs bring prospects of more-than-human agency. This raises issues of data ethics, and infrastructure new road practices.

- **Autonomous Plant**
  - More AS in public spaces need social readiness and adaptation. Technologies need to be ready for society, not vice versa.

- **Supply Chain**
  - As supply chains grow denser and more complex – including automation along the chain, the politics and security of outsourcing and global data flows are of key importance.

There is still more work to be done around these case studies, to get more of a grasp on how practice with AS works in an organisation concerned with customer protection and standards of excellence for knowledge, advocacy, and maintenance of the UK road network.

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**isITethical Card Game**
To open spaces for critical and circumspect reflection, we played a version of the isITethical card game, in which players, though a series of rounds, had to select three cards for an ‘ELSI vision’, which could inform future work and collaborations. You can see the results below and at this [link].

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