Challenging the insight toolkit for modelling tomorrow’s world

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Approaches to modelling

- Traffic modelling
- Driving simulation
- Virtual validation
Platooning – modelling impact

Platooning - modelling

- Useful insights from basic modelling

But...

- Brute force manipulation of modelling software
- No ability to:
  - form stable vehicle platoons
  - investigate platoon formation
Simulator validation

Positioning

![Graph showing positioning data with X and Y coordinates, comparing Simulator and Car data.](image)
Acceleration and deceleration

Cruising speed

Braking profile

Deceleration (ms$^{-2}$) vs. Brake pedal application (0-1)

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Google operating >50 vehicles in CA, TX, AZ, WA

Collecting >20k miles of automated driving data per month (and many more in simulation)
Shuttle driving through LIDAR environment
Challenging the insight toolkit

- Flexibility
- Sophistication
- Validation
Thank you

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