GOVERNANCE OF TRAFFIC SAFETY IN AN AUTOMATED VEHICLE ENVIRONMENT

Path to a driverless future

28 June 2017
• Autonomous Vehicles and (possible) impact on road users
• Preparing for Automation: suggested actions to support governance
• Experiences in governance: regulating Motorsport by working with the industry
AUTONOMOUS VEHICLES: WHICH VEHICLES CONSUMERS DEMAND?

• Safer Cars
• Affordable Cars
• Accessible Cars
Heaven vs Hell scenario

- More single occupant – zero occupant cars (zombi car) ?
- Longer trips / time spent in the vehicles
- Bigger vehicles?
- Increased traffic congestion?
- Increased accidents in the ‘transition time’?
How much validation is enough? What are acceptable risk levels? Who will validate the systems?

Investigate behavioural aspects, specifically:
• requirements for the driver-vehicle interface
• expectation of drivers of conventional vehicles with respect to autonomous vehicles
• factors leading to driver acceptance
• training requirements needed for progressive levels of automation
• Drivers should be well informed on the systems’ abilities, their limits and constraints
• Users need to always understand what is expected from them
• Minimise critical attention decrease
THE WAY FORWARD:
3. ENCOURAGE COLLABORATIVE ENVIRONMENT

- Encourage the development of ancillary technologies that can support AV adoption, with a strong focus on safety
4. PRIORITISE ROAD MAINTENANCE PROGRAMME

- Basic road markings are essential elements for the function of automation;
- The iRap assessment programme;