

ISA Working Group Event: 17 May 2018

# *Eye of the ISA on Highly Automated Vehicles*

Afternoon Workshop Introductory Slides

Rhys V02 - FINAL

14 May 2018

# Workshop Objective

- Identify challenges for Independent Safety Assessment that are specific to Autonomous Vehicles and how they may be overcome
- Engage with interested parties
  - Identify examples of current good ISA practice in this field
  - Consider the need for specific ISA guidance
  - Identify any requirements for future work

# Interactive Workshop

- All attendees to contribute their own knowledge & experience
- Open and constructive atmosphere:
  - “Equal airtime” and non-critical attitude
  - No preconceptions about “correct” answers
  - Park topics if necessary
- Introduction and records by ISA WG Facilitators

# Workshop Process

- Introduction from Facilitator on each of six Themes
- Attendees write notes on key issues related to each Theme
  - Succinct
  - Clear
  - Initialled (who raised it)
- Attendees Categorise each note as:
  - **Success Factor** (e.g. must get this right)
  - **Exemplar** (e.g. existing practice/tool that works well)
  - **Blocker** (e.g. must be overcome)
  - **Other** (any important related issues)
- Facilitators group by Theme & brief back for discussion

# Theme 1: Lifecycle Issues / Models

**Success Factors**

**Blockers**

**Exemplars**

**Others**

# Themes (15 mins each): (in relation to Safety Assurance)

1. Lifecycle issues/models
2. Safety Case - Claims/ Argument/ Evidence: differences for Highly-Automated
3. Systems aspects (boundaries, scope, systems-of-systems, etc.)
4. Technologies and complexity
5. Liability, the role of Regulation / Standards
6. Everything else !

# Workshop Contributions – Themes1 & 2

- 15 minutes per board
- If available - Prompts next to each board
- Interact with other attendees &/or facilitators if helpful
- Don't all start at one board !
- Break when both boards completed

# Workshop Contributions – Themes 3 & 4

- As for Themes 1 & 2



# Workshop Contributions – Themes 5 & 6

- As for other Themes
- Tea break when both boards completed

# Tea Break

15 mins

# Workshop Brief Back & Discussion

- Each Theme in turn
  - What are the common issues
  - What are seen as the most significant
  - Discussion
  - Way ahead

# Conclusions

- Parked Issues ?
- What have we agreed or found ?
  - Actions
    - Key Issues for Success of ISAs & Highly Automated Vehicles
- Records of the Workshop
- What happens next ?
  - ISA WG activity
  - SCSC activity
  - Other