



# Priorities for Intelligent Connected AutoMobility

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# Intelligent Connected AutoMobility

- One of three 'mission focused' working groups of the Automotive Council UK

<h2>automobility</h2>		 <p>Wiktionary The free dictionary</p>
<b>Noun</b> : The utilization of <b>automobiles</b> as the major means of <b>transportation</b> and <b>mobility</b>	<b>Etymology</b> Blend of <b>automobile</b> + <b>mobility</b>	

- For 2019 – Horizon has broadened beyond the vehicle



**Create a compelling case for accelerating CAM over the next decade to 2030, in alignment with other Automotive Council workstreams**

# Recap

## 2017

### Intelligent Connected Vehicle Roadmap



### Five critical elements for success :

- Virtual Driver & Machine Learning
- Communications as Enabler
- Verification & Validation
- Certification & Regulation
- Assurance & Cyber

# Recap

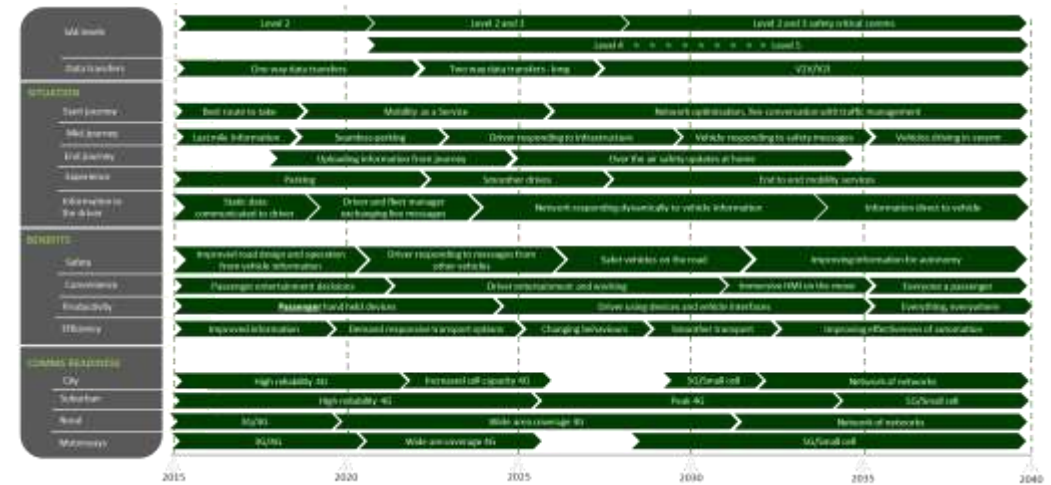
## 2017

### Intelligent Connected Vehicle Roadmap



## 2018

### Communications Roadmap



### Five critical elements for success :

- Virtual Driver & Machine Learning
- Communications as Enabler
- Verification & Validation
- Certification & Regulation
- Assurance & Cyber

### Three messages

- Get the most out of 4G technology
- 5G is the long term solution
- Need investment roadmap and steering group

# Reflections

- Two years on ... two themes dominate the CAM world ...



Managing Threat



Building Trust

- Playing to the strengths of the UK ... within, and beyond 'Automotive' ...



Collaboration



Standards

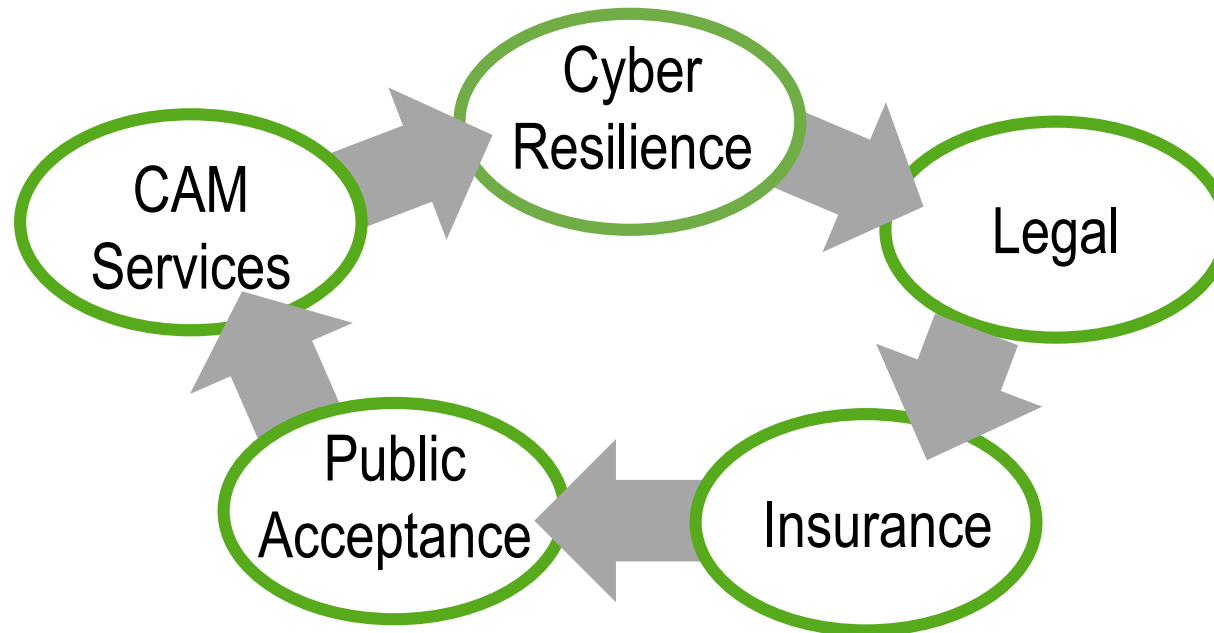


Assurance

**What are the Priorities for UK Intelligent Connected AutoMobility ?**

# Cyber Resilience

**Cyber Resilience is a fundamental enabler for CAM,  
requiring us to rethink our engineering and certification processes**

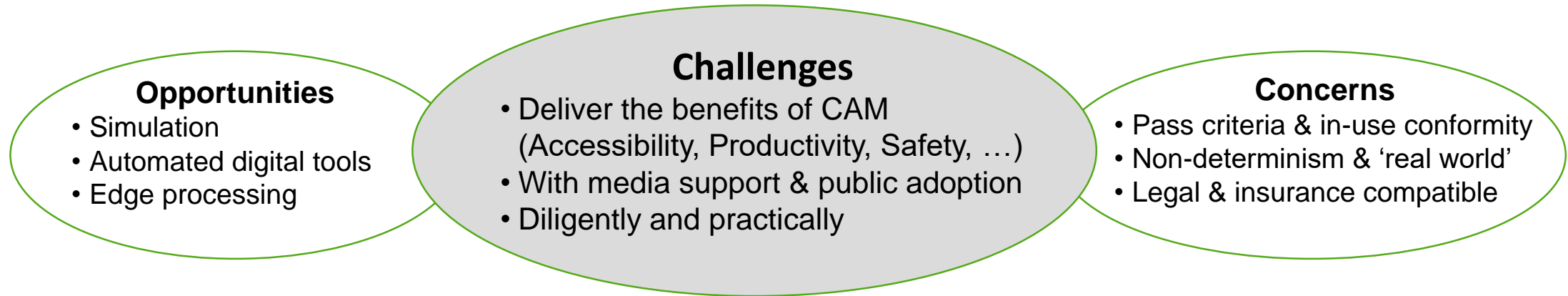


**The UK can leverage expertise in Cyber, Legal, and Insurance Sectors**

*Peter Davies - CAM Hall - 11:20am Today*

# Verification & Validation

**Provide evidence that CAM designs and operations are resilient, and warrant public trust**



## ■ Supporting AESIN led workstream

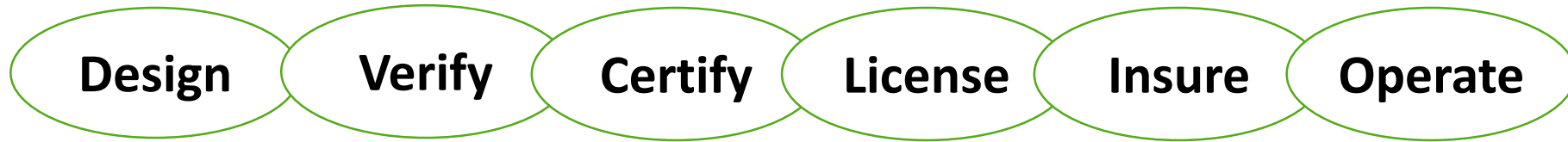
- Breakdown complex interdependencies of a CAM system
- Understand the context for each piece of verification
- Target it sensibly with appropriate assessment



**Systematic approach**

*Tim Edwards - CAM Hall - 9:30am Thursday 5<sup>th</sup> Sept.*

We are changing the way we ...



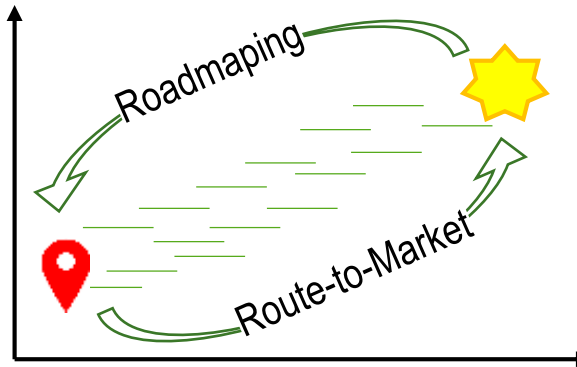
The 'Lead-Time' in developing CAM skills requires fast and targeted action to avoid constraining UK industry potential



## From Roadmaps to Route to Market ...

- Our current roadmap is now 2 years old → Supporting Zenzic to refresh, add detail, and link activities
- What interventions are necessary to transition from CAM 'pilots' to 'Scale up' from 2024 onwards

**Roadmap**  
What would have to be true ...  
to reach your desired goal



**Route-to-Market**  
Getting from where you are now  
... to where you want to be

**Converting the Roadmap into a successful 'Route to Market'  
is the opportunity for growth**

*Mark Cracknell - CAM Hall - 12:20pm Today*

# Priorities for Intelligent Connected AutoMobility

## Four priority workstreams ...

- Cyber Resilience
  - Verification & Validation
  - Skills
  - Route to Market
- Foundation
- Focus

**Deliver Intelligent Connected AutoMobility that is ...**  
**Safe, Secure, First**



**HONDA**



**BOSCH**

OXBOTICA



Transport for London



**MIRA**

**THALES**



Centre for Connected & Autonomous Vehicles



**ZENZIC**



Department for Business, Energy & Industrial Strategy

Innovate UK



**Thank you**