

# Simulation & the Driving Test for Self-Driving Cars

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**ZENZIC**<sup>2</sup>

SELF-DRIVING REVOLUTION

# OMNINICAV

## Simulations, society, and safe CAVs





Latent Logic was  
founded out of  
Oxford University.

Our mission is to help  
autonomous systems  
understand humans.

**1** - very excited

**2** - cautiously optimistic

**3** - neutral to negative

# *Design vs Deployment*

# OMNICA V

A simulation framework to validate and certify CAVs enabling "CAVs for all"

Total project costs: £3.9m (£2.7m funded)

December 2018 – November 2020



With support from Thatcham Research

# Who are the stakeholders for CAV testing?

**Test-beds**

**Insurers**

**AV  
developers**

**Transport  
authorities**

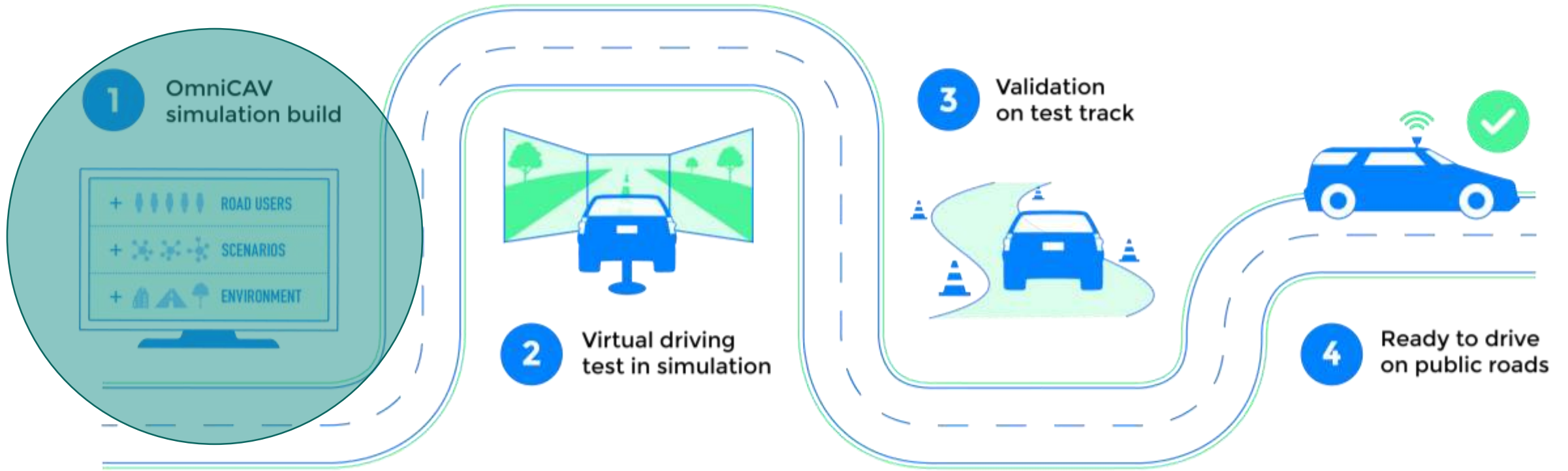
**The public**



# OMNICA V

A simulation framework to validate and certify CAVs enabling "CAVs for all"

## OmniCAV Validation Framework

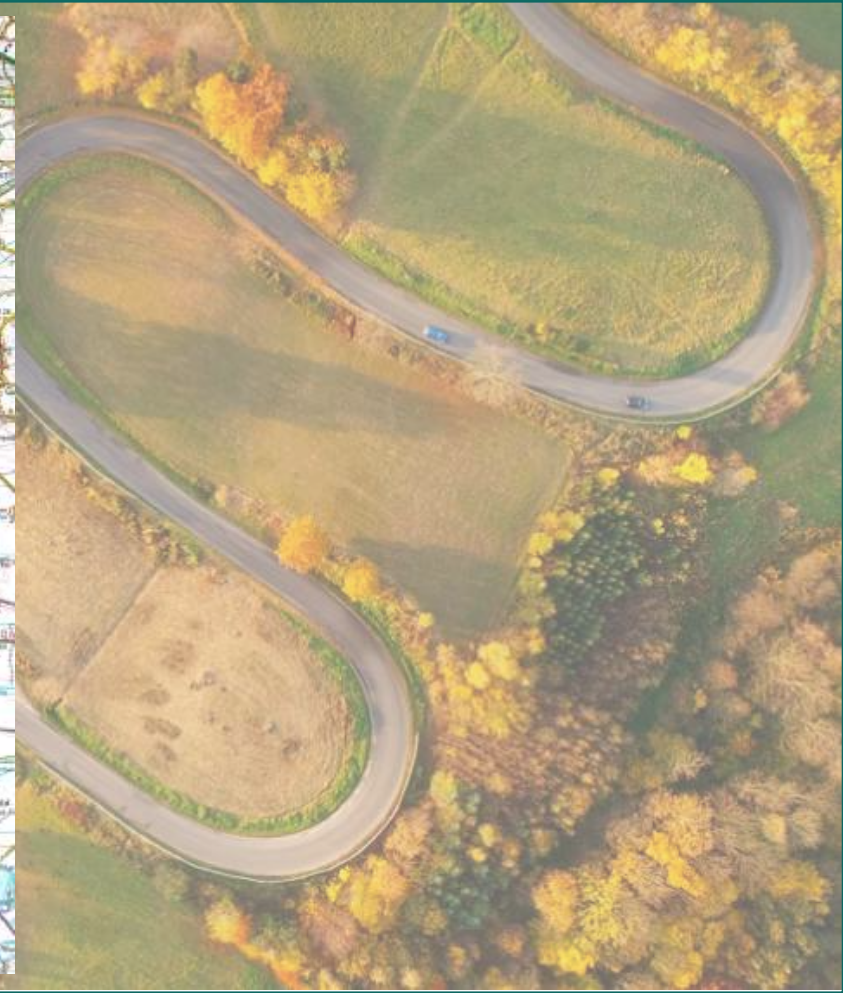
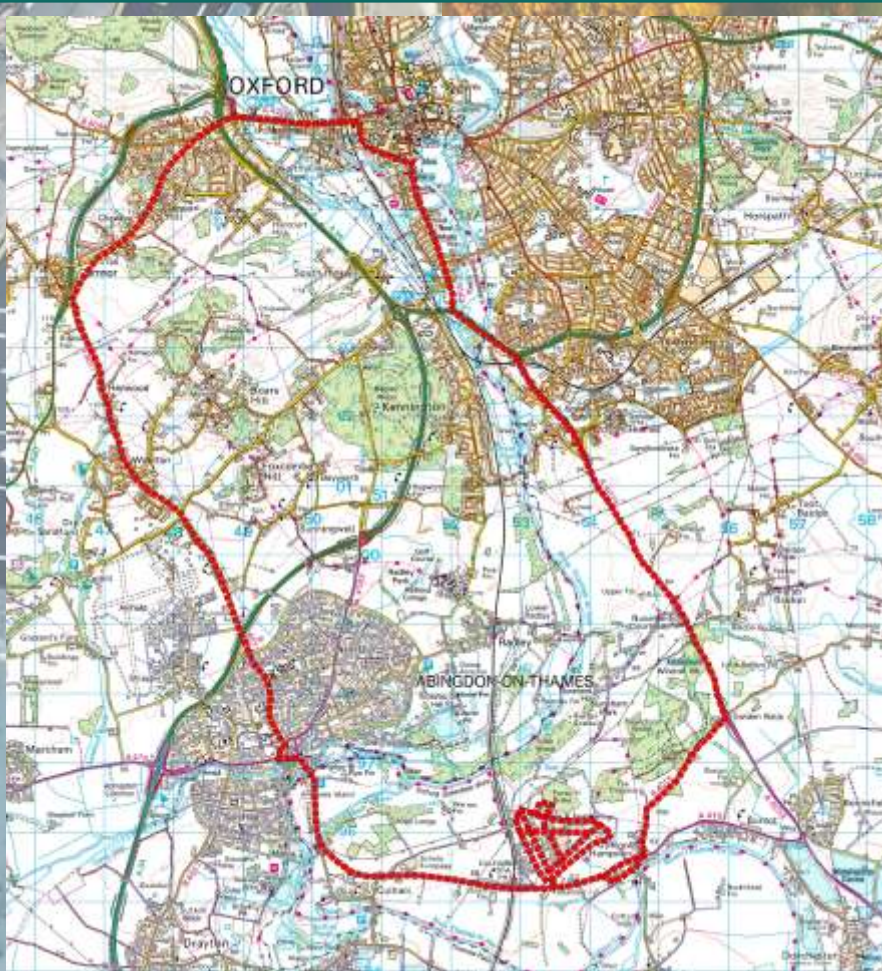




# OMNICA V

A simulation framework to  
validate and certify CAVs  
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**OmniCAV road loop – 32km – rural & urban**

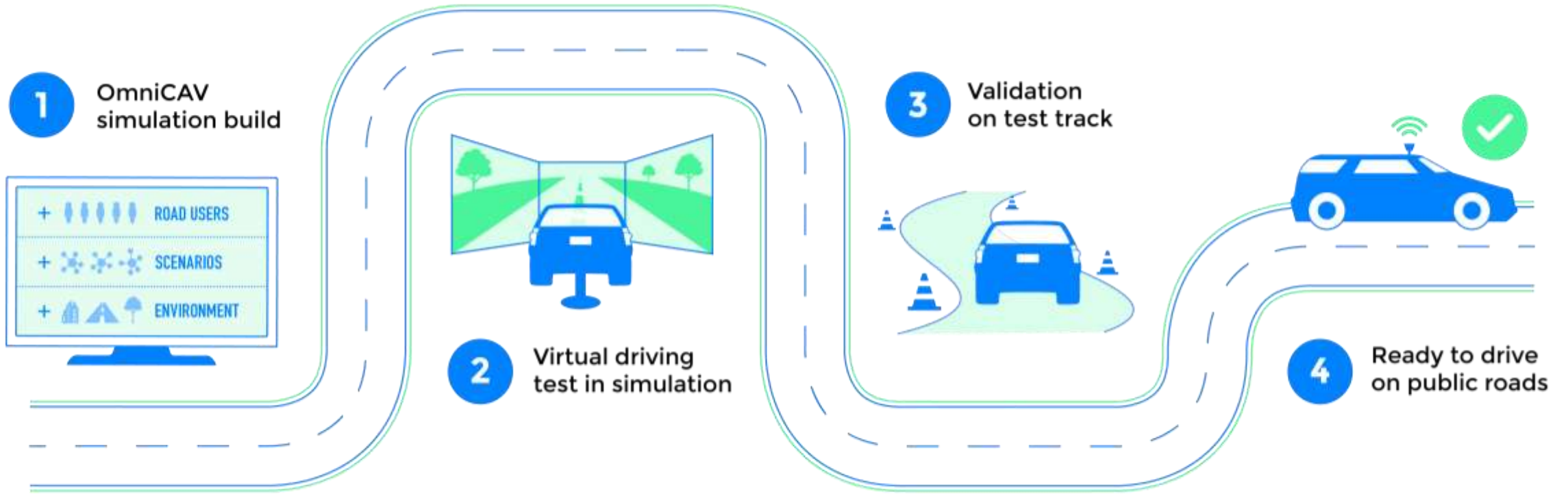




# OMNICAV

A simulation framework to  
validate and certify CAVs  
enabling "CAVs for all"

## OmniCAV Validation Framework



# Who should be responsible for testing the safety of CAVs?

**1** - The OEM using their own tools and processes with results audited by the regulator

**2** -The OEM using regulator-approved tools and processes

**3** - 3rd party test-houses, using their own tools and processes with results audited by the regulator

**4** - 3rd party test-houses, using regulator-approved tools and processes

**5** - The regulating authority

OMNICAV

[www.omnicav.com](http://www.omnicav.com)

@OmniCAV