

# UK Launch Pad For Sustainable Innovation

Presented by: Sarah Windrum



# Global-leader in engineering, research and product testing, and a strategic location for transport R&D



Vehicle Engineering Consultancy



Test Engineering Services



Technology Park

# Our story

1946 - The Motor Industry Research Association formed

1948 - RAF Lindley chosen for research laboratory and proving ground

2012 - MIRA Tech Park awarded Enterprise Zone status

2015 - Acquired by HORIBA & business renamed to HORIBA MIRA

2023 - £60m of high value employment on-site with over 90% people living in Midlands



# Our cluster

Guiding industry through rapid technological change

- 1 million sq. ft specialised R&D floorspace
- £500m+ vehicle engineering & testing facilities
  - Over 100km of proving ground test track
  - Euro NCAP accreditation
- 77 years of technical expertise

Single location for full future mobility verification

TEVVA



Togg



VIRITECH



R3E



Polestar



HVS



# Our campus

## Enabling business growth:

\$22 billion venture capital raised by tenants since 2012

Talent development pipeline

## Competitive path to Net Zero:

Virtual simulation and prototypes

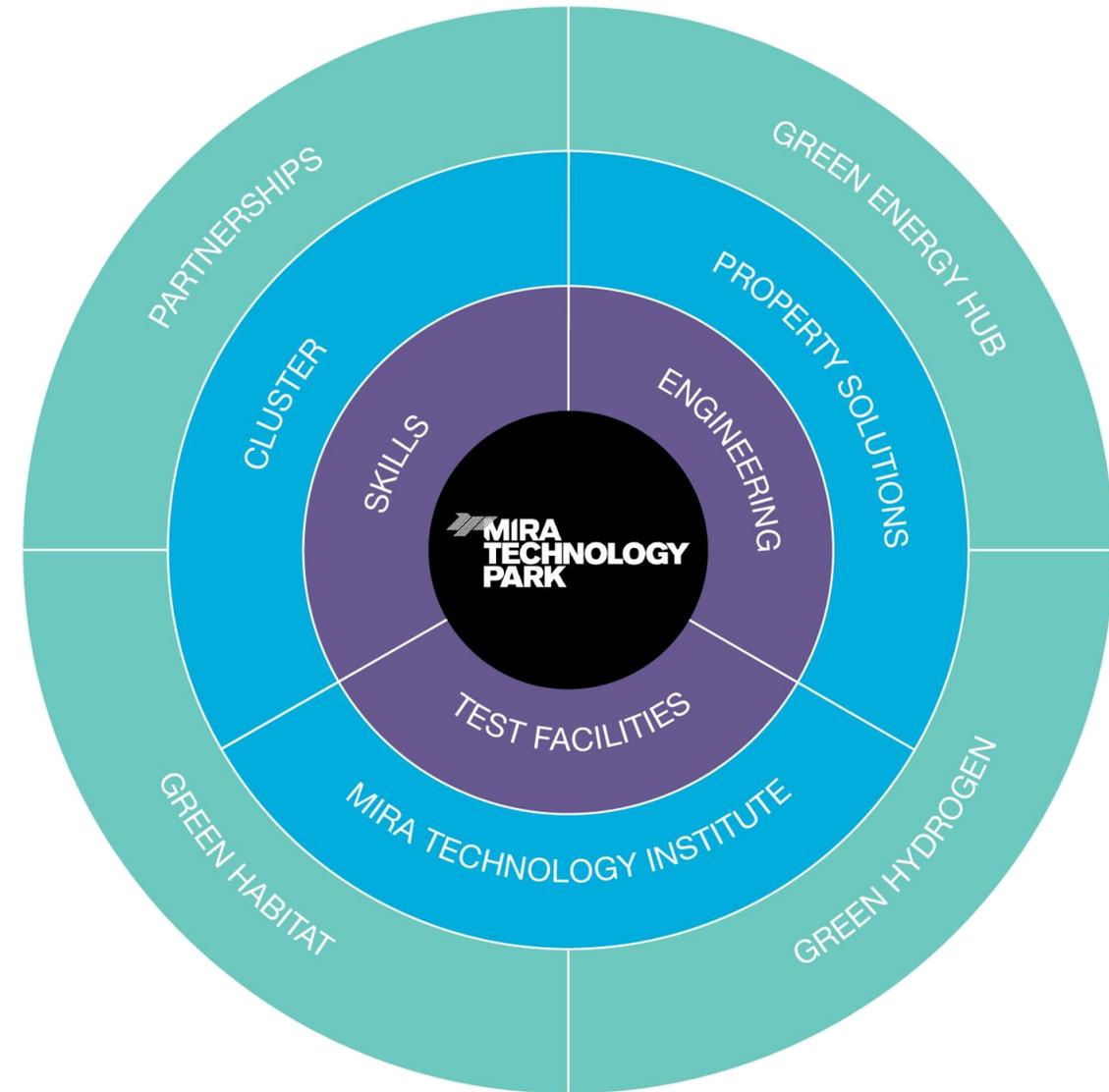
Sustainable location: energy, waste, water, wildlife

King's Award for Sustainable Development

## Provide market opportunity:

Over £150m in Innovate UK projects

40 global tenants: corporate, spinout, high growth



# £20m+ investment in hydrogen

## 'Hydrogen ready' vehicle development facilities:

- Climatic chambers
- Passive safety
- Thermal testing
- Electromagnetic compatibility

## Green hydrogen infrastructure:

- 7MW solar array producing green hydrogen
- Hydrogen refuelling Hub (350 / 700bar)

## Specialised R&D workspace for hydrogen developers:

- Commercial vehicles
- Energy optimisation
- Fuel cell & combustion



# Our hydrogen ecosystem

## East Midlands Hydrogen Partnership

Production, industry users, and innovation cluster

Public sector leadership

## Midlands Connect

Freight decarbonisation

SuperHub opportunities

## Innovation Partnerships

Tyseley Energy Park - Incubator

Midlands Innovation - Commercialisation

MTC - Hydrogen Technology Test Centre



# World first hydrogen hypercar

## Viritech's 'Apricale'

Proof of concept for hydrogen fuel cell vehicles  
Zero-emission powertrain same weight as petrol

## HORIBA MIRA engineering expertise supported

Aerodynamics, attributes, performance  
Software design  
Prototype build  
Testing & training

## APC funded Project ICEBreaker

Commercial viability for hydrogen HGVs  
HORIBA MIRA 'digital twin' engineering



# Hydrogen beyond mobility

£10m+ invested in partnership with Ceres Power  
SOEC & SOFC Fuel Cells for industry, maritime, data

Cleantech Centre accelerating technology to market

Testing-as-a-Service with HORIBA MIRA expertise  
HORIBA equipment for testing cells, stacks, & systems

£43m Ceres license agreement with Delta Electronics

Deployment in international markets  
Production to start in 2026





# Our talent

## Centre of Excellence for future transport skills:

MIRA Technology Institute opened in 2018

Partnership with Higher and Further Education

Hydrogen Level 1-3 courses

- Fuel cell maintenance
- Impact of hydrogen HGVs
- Hydrogen as alternative fuel in vehicles

## Industry-led talent development pipeline:

MIRA Skills Academy established in 2013

One-day corporate course in hydrogen

- Role in decarbonising economy
- PEMFC and SOFC technologies



# Our potential

Site potential 4 million sq. ft incubator to production

Expanding customer base:

- Zero emission vehicle manufacturers

- Enabling technology developers

- Clean energy production

Supporting next generation of scale-ups:

- Flexible property

- Energy security

- Decarbonised heat

- New skills - technology and chemistry



## **Sarah Windrum**

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