

DAFNI Facilities At Southampton

DAFNI at Southampton :: 08 February 2021

Simon Blainey
Transportation Research Group

Background: DAFNI Hardware Fund

- Key part of the facility
- Helping universities to maximise the impact of the DAFNI investment for research at teaching
- UoS allocated funding for a range of equipment....

NIL Data Centre

- Linking the National Infrastructure Laboratory to DAFNI
- Providing local storage for data from high fidelity structural tests
- Potential to use DAFNI to integrate, process and share research data and outputs

Virtual Reality Facility

- Suite of VR facilities facilitating transport and engineering research
- Combination of:
 - Personal VR technology
 - Room-scale virtual environment
- Using DAFNI data as basis for simulation
- Generating datasets for analysis at DAFNI
- Currently under construction at Boldrewood Campus

Personal VR Technology

- VR headsets
 - HTC Vive
- AR headsets
 - Microsoft Hololens
- Holographic display
 - LookingGlass 8k

Virtual Environment

- VR cube providing immersive environment
 - All-round HD projection
 - High quality surround sound
 - Potential for integration with AR technology
- Generating realistic simulations of complex and dynamic real world situations

For more information...

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