

# YOUR CHALLENGES + OUR EXPERTISE = INNOVATIVE SOLUTIONS

### DMU Interdisciplinary Group in Intelligent Transport Systems (DIGITS)

### Specialists in intelligent transport and transport infrastructure solutions

The De Montfort University Interdisciplinary Group in Intelligent Transport Systems (DIGITS) is an interdisciplinary group of academics who focus on a wide range of intelligent transport and transport infrastructure solutions. The group is dedicated to conducting research and developing programmes that will progress the introduction of sustainable urban and regional transport policies across the European Union and beyond.

By working in partnership with industry, transport service providers, government and other research institutes and communities the group provides answers to technological, economic and societal questions around sustainability and modal change. DIGITS works in an inclusive and open way engaging fully with partners and communities to ensure that an effective balance is struck between the need for innovative sustainable transport solutions and the health and wellbeing of local communities.

#### Background

The centre was formally inaugurated in 2011 bringing together experts from the Faculty of Technology working on intelligent transport related issues. It is driven by several computational intelligence researchers who are committed to carrying out fundamental and applied research in transport.



DIGITS can offer practical expertise, knowledge and skills in the areas of:

- Intelligent Integrated Traffic and Air Quality
- Mechanical Behaviour of Pavement and Rail Track Materials
- Airport and Harbour Environment Modelling and Evaluation
- Geographical Information Systems and Data Mining
- Computational Intelligence
- Embedded Systems and ECU Design
- Telematics





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#### **Key Collaborations**

Since its inception, DIGITS has highlighted the importance of partnerships working both internally across the university and externally with local, national and international organisations and communities.

#### **Academic:**

- University of Leicester
- University of Nottingham
- University of Plymouth
- University of Lincoln
- University of Granada (Spain)
- University of Malaga (Spain)
- University of Jaen (Spain)
- Centre D'etudes Techniques de L'equipement du Sud Ouest (France)
- Aerospace Valley (France)
- Instytut Geodezji i Kartografii (Poland)
- Universita Degli Estudi del Molise (Italy)
- University College Dublin (Ireland)
- National University of Ireland (Ireland)

#### Industrial:

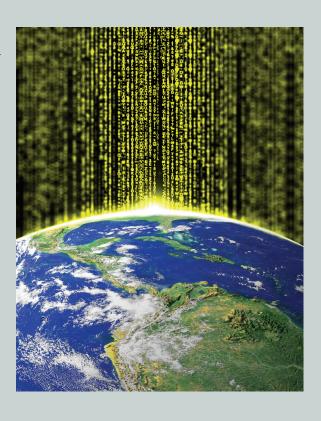
- Astrium (UK)
- Panda Security S.L. (Spain)
- Starlab Barcelona S.L. (Spain)
- Roughghan & O'Donavan Limited (Ireland)

#### **Local Authorities**

- Leicester City Council
- Leicestershire County Council
- Northampton City Council

#### Research Grants, Consultancy and Projects:

- iTRAQ, European Space Agency (ESA)
- THE-ISSUE, European Union Framework 7 (FP7)
- iTRAQ-X, East Midlands Development Agency Transport iNet ERDF
- DIGITS, De Montfort University's Revolving Investment Fund
- Smart Rail, Marie Curie ITN, European Union Framework 7 (FP7)
- iCARE, Intelligent Mobility for the elderly, TSB
- Integrating mobility vehicles with smart home, Rransport iNET ERDF
- Development of RF sensor network



#### Contact details

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**ADD DMU. PROFIT FROM OUR EXPERTISE** 

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