


GRACE

GNSS Research & Applications
Centre of Excellence



GNSS Research & Applications Centre of Excellence



Aim:

To secure international leadership in research, training and industrial applications development of Global Navigation Satellite Systems (GNSS) - within the East Midlands.

Built from a core of :

- World leading University research & training capability
- Innovative SME industry base
- Close collaborative links with industry
- Extensive user base potential



GNSS Research & Applications Centre of Excellence



Space Applications in the East Midlands:

- £104 m turnover (2008)
- £58 m direct GDP, 400 direct jobs (2008)
- £136 m value added, 2500 indirect jobs (2008)
- Downstream services; telecomms, GNSS & EO
- 20% of UK “advanced applications” market

*The Case for Space: The Impact of Space Derived Services and Data Final
Report – May 2009*



GRACE - Objectives



Secure the region's internationally leading reputation for excellence in this sector

Support the commercial exploitation of academic GNSS research and encourage the development of innovative products and services in the East Midlands

Embed GNSS systems and applications expertise within the regional economy and develop indigenous businesses throughout all parts of the value chain



GRACE - Objectives



Create new employment opportunities including jobs that will encourage graduate retention in the region

Deliver continuous professional development courses and support for industry personnel

Facilitate international collaborations and support inward investment

Support efforts to attract GNSS assets, facilities and services to the region



GNSS Research & Applications Centre of Excellence



A new centre, a new building, a new focus; encompassing:

- GNSS Research Laboratory and Training Services
- GNSS Applications Development Support
- Access to GNSS simulation, test-bed and testing facilities

- Dedicated Training Suite
- Business Incubation Units
- Business Support Services
- Supported Consultancy Activity

- Potential venue for virtual & physical National Offices
- A Hub for a *GNSS Cluster*



Sector Focus



- TRANSPORTATION/LOGISTICS
- CONSTRUCTION
- HEALTHCARE
- FOOD AND DRINK (AGRI)

- *SURVEYING*
- *ENVIRONMENTAL*
- *SECURITY*



Nottingham Geospatial Building



New : October 2009
2000 m²
120 m² incubation space



Simulation & testing facilities
RFID @ 30cm spacing
UWB Positioning, Localities



University Of Nottingham Innovation Park (UNIP)



12 Acre site with initial capacity for 20,000 sqm development



GRACE Funding



Apr 2007 – Mar 2012

<i>emda</i>	£3504k
University	£4225k
Industry	£1492k
Total	£9221k
Capital Build	£4500k
Equipment	£1000k
Additional Staff	£1220k
Other costs	£2500k



Regional deliverables include:

- jobs created/safeguarded
- businesses created/attracted
- businesses assisted
- businesses engaged
- regeneration
- people assisted with skills development

GNSS Research & Applications Centre of Excellence



Personnel

- 5 full-time staff
 - General Manager
 - Business Development Manager
 - 2 Application Development Officer
 - Administrator
- 3 part-time staff
 - Application Development Officer (shared)
 - ESNC Project Manager (contract)
 - Reception / Admin (casual)
- Future:
 - Additional Business Development Manager
 - Training & Services Development Officer



GNSS Research & Applications Centre of Excellence



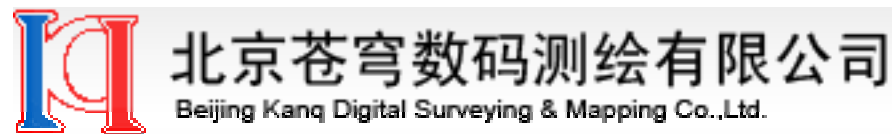
Nottingham Geospatial Tenants

- Nottingham Shanghai GNSS Laboratory
- Ordnance Survey
 - Regional Office, up to 7 staff
- G2WAY/ARMS
 - 2 New Start-ups
- Inndie
 - New Start-up



- CAECUS

- KANQ Digital



UK & EU Project Activity



EGNOS in urban environments (Improved coverage) – ESA

KIS4SAT (Business Services) – EC FP7

SCENIC (Testbeds & Simulators) – EC FP7

TEST CASE (Testbeds & Simulators) – EC FP7

PRECISIO (High Precision SDR Receiver) – EC FP7

CIGALA (Ionospheric Scintillation) – EC FP7

ENCORE (High Precision Low Cost Receiver) – EC FP7

iNsight (New GNSS Signals) – EPSRC



Commercial Project Activity



Oil Slick Detection



Indoor Navigation & New Sensors



High end Receiver Benchmarking



Urban Multipath Modelling



Bespoke GNSS Training



Integrated Navigation



GPS Constellation Scenario Tests



GNSS Expert Consultancy



supported by



Roof Based Laboratory



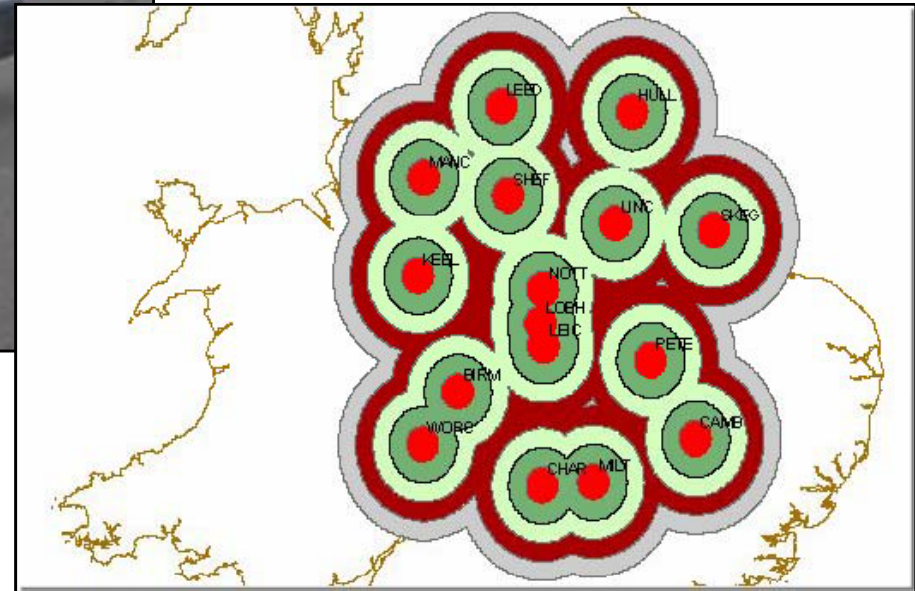
Unique environment for repeatable testing of integrated positioning systems



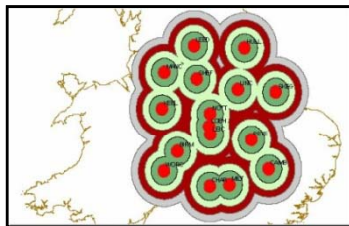
- Track length 120m
- Speed Variable up to 7.2 km/hr
- Locomotive mass 400kg
- Payload mass 100kg



Mobile Test Facility and Wireless Test-beds



East Midlands Transport Test-bed



Despite its significant size, innovITS - ADVANCE will be constructed within the existing envelope of the MIRA site

innovITS



Portal for the GNSS Community



The screenshot shows the GRACE website interface. At the top left is the GRACE logo with the text 'GNSS Research & Applications Centre of Excellence'. To its right is a search bar with a 'GO' button. In the top right corner is a 'LOGOUT' button. Below these are four main navigation columns: 'GRACE' (with a sub-menu), 'Facilities', 'GNSS Community', and 'Resources'. Below the navigation is a 'You are here' breadcrumb trail with a 'Home' button and a refresh icon. The main content area features a 'Welcome to GRACE' heading, a paragraph of introductory text, and a large image of the Nottingham Geospatial Building with a quote: 'we are devoted to developing downstream applications using Global Navigation Satellite Systems technology across industry and the public sector'.

GRACE
GNSS Research & Applications
Centre of Excellence

search... GO

LOGOUT

GRACE	Facilities	GNSS Community	Resources
<ul style="list-style-type: none">About GRACEAbout IESSG and CGSNewsEventsContact UsMember's directory	<ul style="list-style-type: none">Test TrackOffice SpaceBusiness IncubationResearch & DevelopmentLab EnvironmentTraining	<ul style="list-style-type: none">CommunityJobsESNCNetworks	<ul style="list-style-type: none">Funding OpportunitiesGRACE ResourcesMarket ReportsTechnical ResourcesGlossaries & Tutorials

You are here Home

Welcome to GRACE

GRACE is an internationally recognised centre of excellence that focusses on the applications of downstream satellite navigation technologies. GRACE has been established to assist businesses to take advantage of the growing market for services and applications that use GNSS (Global Navigation Satellite Systems) and PNT (Position, Navigation and Timing) technologies. It provides a state-of-the-art environment in which to locate your business, interact with the GNSS community and develop world-class products and services. [more](#)

we are devoted to developing downstream applications using **Global Navigation Satellite Systems** technology across industry and the public sector



Connect and network



Latest Members

Connect and network with others in the GRACE GNSS community online.

Hot Topics

Test Track
A unique feature of the roof based laboratory of the Nottingham Geospatial Building

ESNC
Providing a springboard for new business ideas using satellite navigation technologies

Lab Enviroment
The GNSS Research and Applications Centre of Excellence (GRACE) is active across a number of national

Latest News [rss feeds](#)

RAE Industrial Secondment Scheme
Friday, 15 January 2010
Linking Industry and Academia. The scheme is a gateway to knowledge tr...[More](#)

Internship Opportunities Offer
Tuesday, 12 January 2010
Horizon DTC (Doctoral Training Centre), based at the University of Not...[More](#)

Recent News Alerts
Friday, 11 December 2009
News Alert 3 (December 2009) News Alert 2 (November 2009) News Alert...[More](#)

GRACE Co-hosts NAV09 Conference & E
Monday, 9 November 2009
NAV09 - Positioning & Location: Now and into the Future. Looking bey...[More](#)

Applications Showcase: State of the
Friday, 6 November 2009
11th November 2009, Nottingham Geospatial Building, University of Nott...[More](#)

[More News >](#)

Upcoming Events [rss feeds](#)

Jan 19 **A New Space Age for Britain..**
Guoman Charing Cross Hotel.. London,GB

Jan 21 **Space Technology Applications ..**
the National Space Centre.. Leicester,GB

Jan 25 **2010 ION International Technic..**
Catamaran Resort Hotel.. San Diego, CA,US

Jan 28 **UAV Markets and Technologies..**
Pride Park.. Derby,GB

Feb 02 **Indoor location for Profession..**
National Physical Laboratory (.. Teddington,GB

Feb 04 **Sat Expo Europe 2010..**
The Rome Exhibition Centre (Fi.. Rome,IT

[More Events >](#)

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GNSS Directory



You are here Home > GRACE > Member's directory > View All

Member's Directory

View All Europe Uk East Midlands

Member's Directory

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0-9

All Member's List(A-Z)

All registered company members.

[APPLY TO BE A GRACE MEMBER](#)

<p>3D Laser Mapping 3D Laser Mapping - the Light Detection and Ranging experts As an industry leader in Light Detection and Ranging (LiDAR) View Profile</p>	<p>APC-Novacom APC-Novacom - the GPS, sat nav and telematics industries' trusted supplier Based in Lincoln, APC-Novacom supplies View Profile</p>
<p>GRACE GRACE - bringing new GNSS applications to business and industry GRACE (GNSS Research and Applications Centre) View Profile</p>	<p>IESSG IESSG - a new era for the UK Centre for Satellite Navigation As an internationally recognised centre of excellence View Profile</p>
<p>Infoterra Infoterra - archiving and delivering huge volumes of geospatial data Infoterra Ltd, an EADS Astrium Company As on View Profile</p>	<p>Integrated Navigation Systems (iNS) iNS Integrated Navigation Systems (iNS) is based in Northampton. Providing a diverse range of design services and View Profile</p>
<p>Location and Timing KTN Location and Timing KTN - helping industry make the most of location and timing technologies Location and timing tech View Profile</p>	<p>Logica Logica - Releasing your potential About Logica Logica has been working with ESA in various areas including GNSS for 40 View Profile</p>
<p>MIRA MIRA - taking testing to new limits MIRA is renowned as a leading design, testing, consultancy and certification View Profile</p>	<p>Navtech Systems Navtech Systems - bringing GPS aided video transmission systems to airborne surveillance Based in Northampton, Na View Profile</p>

Find out about our *state of the art* [FACILITIES](#)



A Calendar of GRACE Organised Events



Events Calendar

GRACE Events (All)

Upcoming Events

Past Events

GRACE Events

Date	Event Name	Venue	County/City	Category
Mar 25	Transport Applications Showcase (iNet) G	Sir Colin Campbell Building	Nottingham	GRACE Events
Mar 25	Official Opening of the Nottingham Geospatial Building G	Nottingham Geospatial Building	Nottingham	GRACE Events
Apr 22	SPIRENT Applications day G	Jubilee Campus	Nottingham	GRACE Events
May 17	Lecture from Prof. Kibe, Head of Indian GNSS Programme at ISRO G	Jubilee Campus	Nottingham	GRACE Events
Jun 21	Second Open Source GIS UK Conference - OSGIS 2010 G	Nottingham Geospatial Building	Nottingham	GRACE Events



European Satellite Navigation Competition UKESNC 2010



Entry Dates
1st May-31st July 2010



The Competition | Sponsors | Previous Winners | News & Events | Forum | About GRACE | Partners | Contact Us

Home »

Welcome

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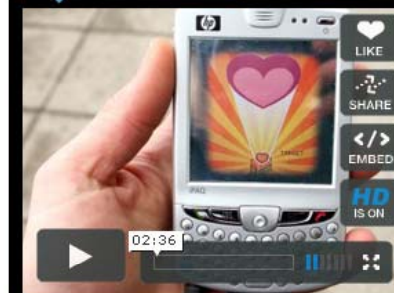


[About the Competition](#) | [Entry Criteria](#) | [Prizes](#) | [Special Prizes](#) | [The Judges](#)

Photo Gallery



UK WINNER 2009 [MORE VIDEO](#)



Heartlands is a multi-player game for a mobile phone controlled by the player's heart rate as they walk »

INTERNATIONAL WINNER 2009

Osmografo@: Wind and Positioning to Determine the Area Covered by Search and Rescue Dogs »

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European Satellite Navigation Competition ESNC 2010




EUROPEAN SATELLITE NAVIGATION COMPETITION 2010
UK Challenge
powered by 

www.ukesnc.com

UK Launch Event 2010

The European Satellite Navigation Competition officially launches in the UK on 20th April 2010, and you are cordially invited to attend.

The event will be held at the Royal Geographical Society, Kensington Gore, London starting at 4:30 pm. Incorporating guest speakers from a variety of areas covering every element of the competition, the launch event is an opportunity not only to find out more about the Competition, but also to network with colleagues from across the industry, award judges and previous winners.



This year, the UKESNC launch event will be opened by a representative from the newly formed British Space Agency. Speakers at the event include:

- Richard Peckham of EADS Astrium
- Paul Bhatia and Terry Moore of GRACE
- Ulrike Daniels and Thorsten Rudolph organisers of the European Satellite Navigation Competition
- Tim Just from the Technology Strategy Board
- Andrew McKenzie of Scott and York

Date & Time 4.30pm, Tuesday 20th April, 2010
Venue Royal Geographical Society, 1 Kensington Gore, London, SW7 2AR

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UK SILVER SPONSORS





UK BRONZE SPONSORS





UK ESNC Partners



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UK ESNC c/o GRACE, Nottingham Geospatial Building, University of Nottingham,



Partner Networks

Building national and international links



UK:

Digital Systems KTN Location and Timing Group

RIN

East Midlands INet

EMSpaceNET (NEREUS EM)

Europe:

ESINET/EBN

ENCADRE / EURO INNOVA

INNOFITS / LIVING LABS

TELEMATICS VALLEY

NEREUS

China / India / New Zealand / Australia



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