The Council of European Geodetic Surveyors
Comité de Liaison des Géomètres Européens

CLGE General Assembly in Jukkasjärvi, Sweden April 2005

United Kingdom – Update

Rob Mahoney

RICS

Presentation outline

- The Profession
- Current mapping initiatives
- New technologies
- Policy
- Faculty specific projects and initiatives

RICS

The Profession

RICS – An eclectic group of Professionals
~ 100,000 members practicing in 16 Faculties with 160 specialisms

- Arts and antiques
- Building Surveying
- Commercial property
- Construction
- Dispute resolution
- Environment
- Facility management
- Geomatics
- Machinery and Business assets
- Management consultancy
- Minerals and waste management
- Planning and development
- Project management
- Residential project
- Rural
- Valuation

RICS

The Profession

RICS is incorporated by Royal Charter, which sets out the objects of the Institution and requires it to

"maintain and promote the usefulness of the profession for the public advantage."

Aide mémoire: There is no licence to Practice required in the United Kingdom

RICS is affiliated to around 120 organisations

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Geomatics Faculty

- Land & Hydrographic Surveying
- Mapping and Positioning
- Geographic Information Science
- Land Law, Administration & Reform
- Dispute Resolution & Expert Witness
- Cartography
- Project Management
- Ocean Bed & Resource Surveys
- Geodesy
- Global & Local Navigation Systems
- Engineering Survey
- Cadastre & Land Registration
- Photogrammetry & Remote Sensing
- Research & Consultancy
- Monitoring of Structures
- Land, Coastal & Marine Information Management
- Private, Regional & International Boundaries Determination

Around 3,000 members specialise in Geomatics

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Current initiatives

- Period of great technological advance and change
- Updating of national mapping database
- GIS applications – Location Based Services
- GNSS – Galileo
- Policy issues

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Current initiatives

Mapping

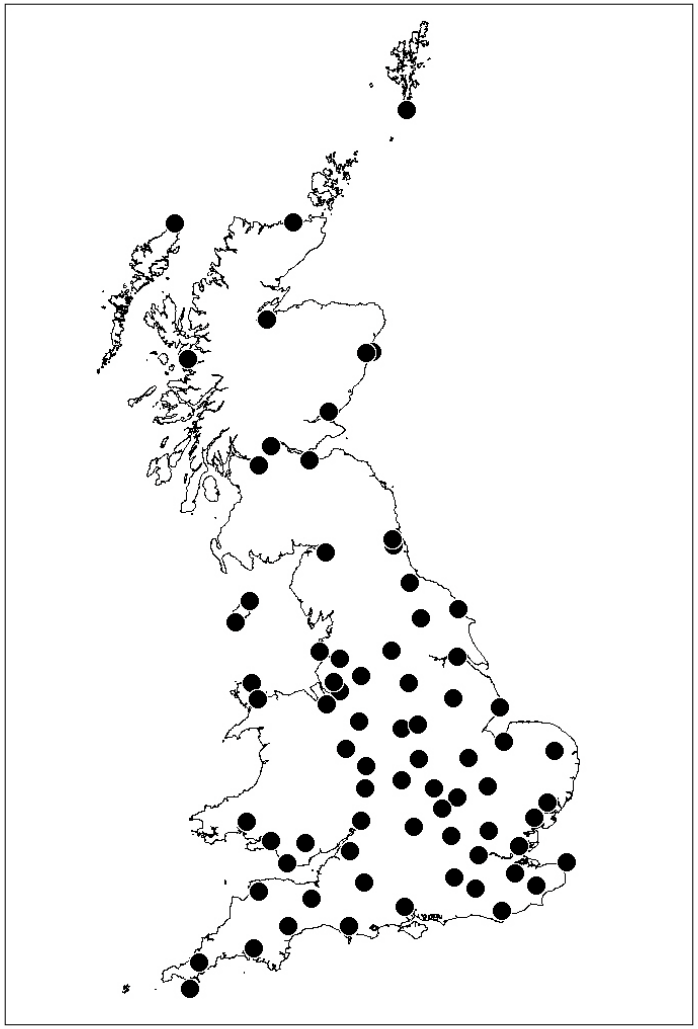
Ordnance Survey – UK's national mapping agency

•GPS – passive / active network

• New UK geoid OSGM02

• New UK transformation – OSTN02 – ETRF89 related to WGS84

• National network of GPS stations compatible with national mapping



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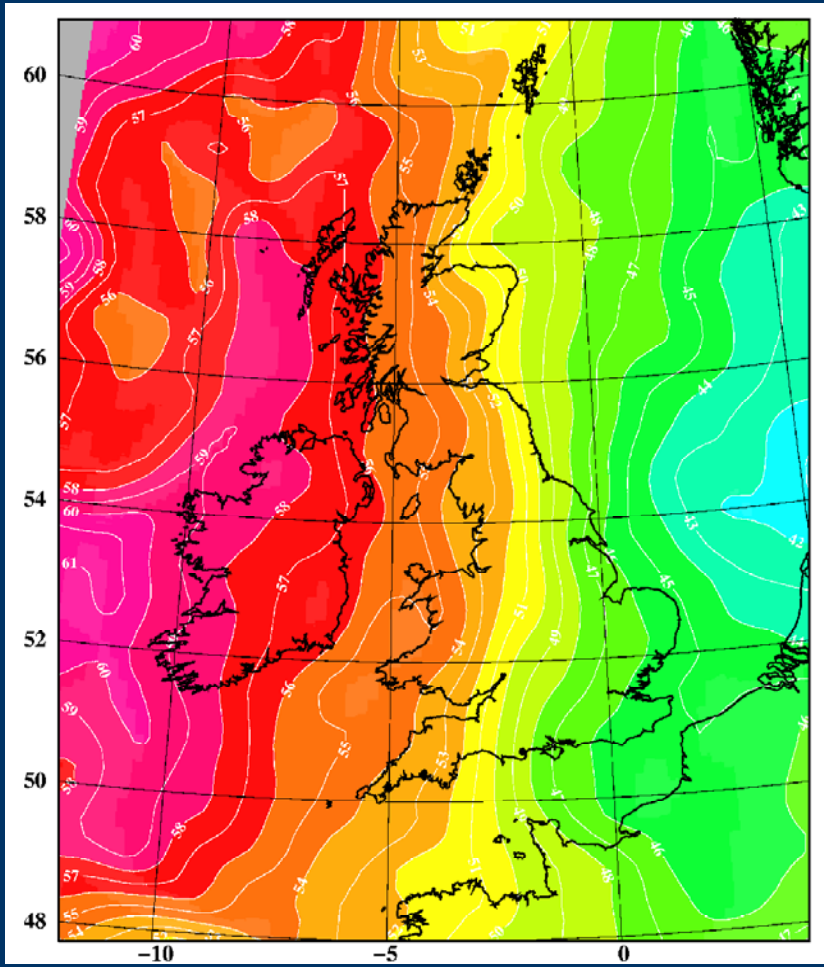
Current Initiatives

OSGM02



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Mapping

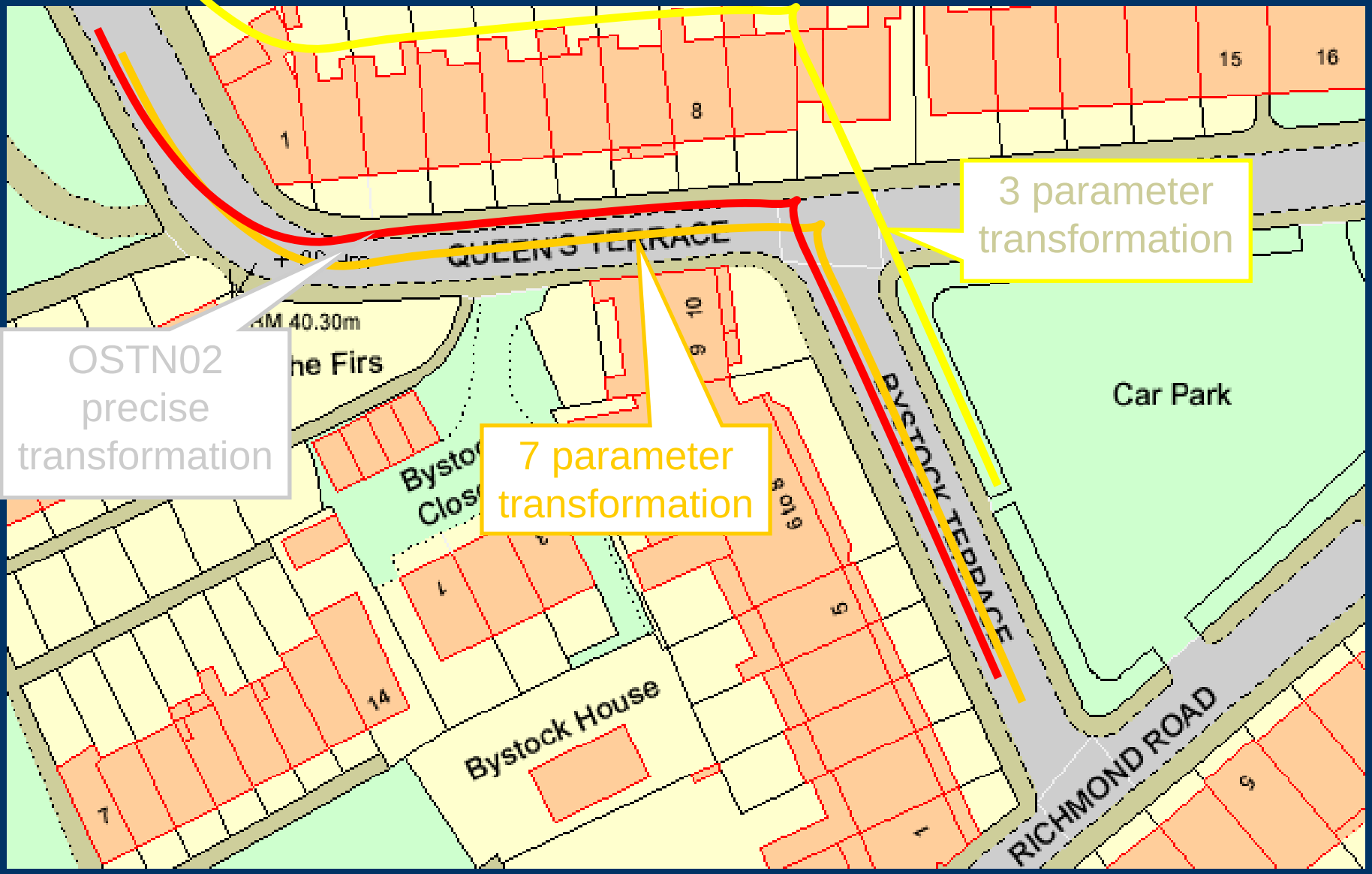
Positional accuracy improvement – Rural revision

1:2500 scale rural mapping

CAP/IACS farm payments

Mapping compatible with GPS

Different Transformation Effects



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Current initiatives

GNSS [Global National Navigation Systems] Initiatives

- EGNOS (2005)
  - European Geostationary Navigation Overlay System
  - 3m accuracy
- Galileo (2006)
  - Bigger constellation
  - Faster initialisation / re-initialisation times
- GLONASS
  - Recent Russia / India agreement signed
- L2C (2004-2010)
  - 2nd civilian code
  - Improves standalone accuracy

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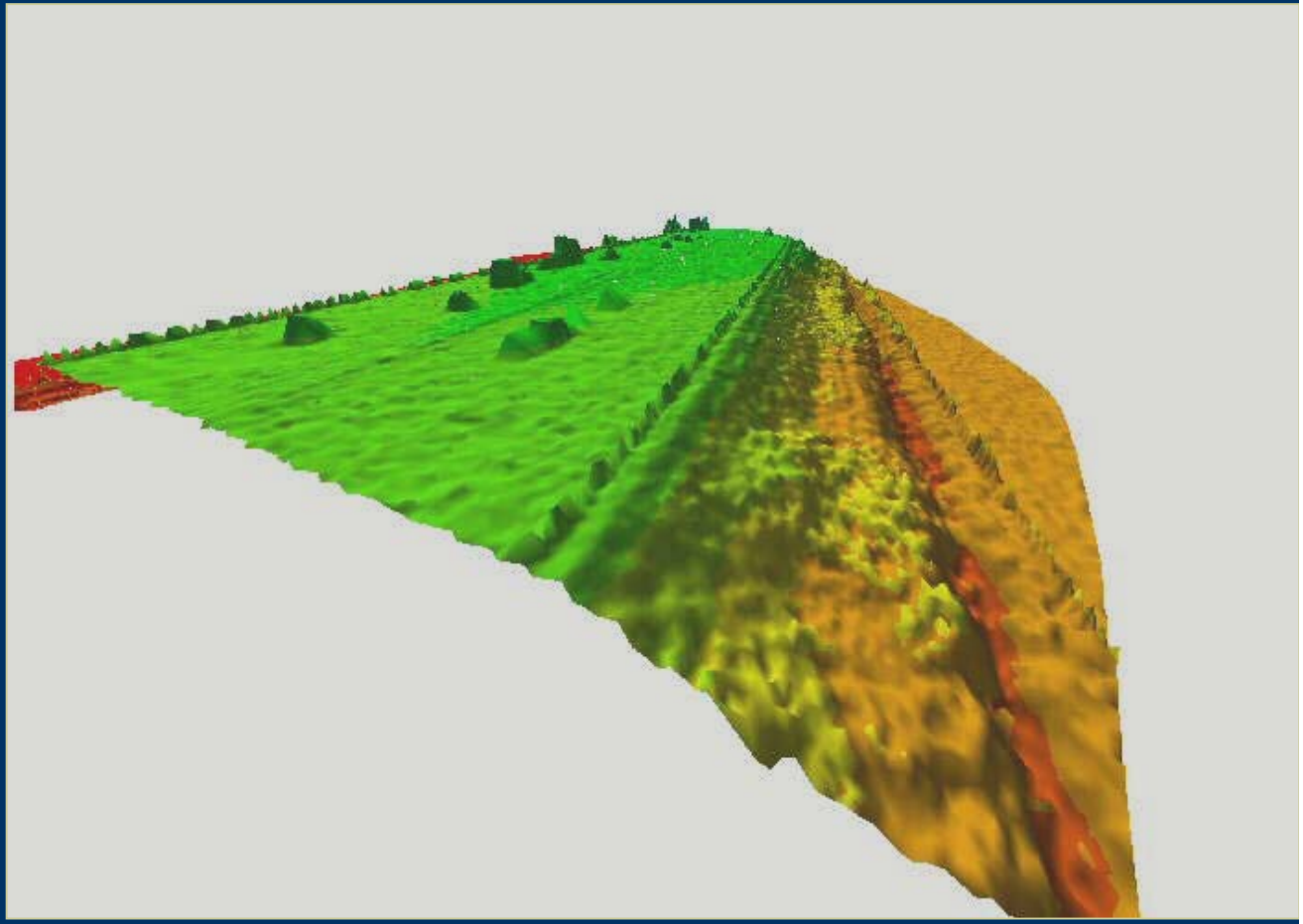
Current initiatives

New technologies

LiDaR

Digital
Cameras

IfSAR



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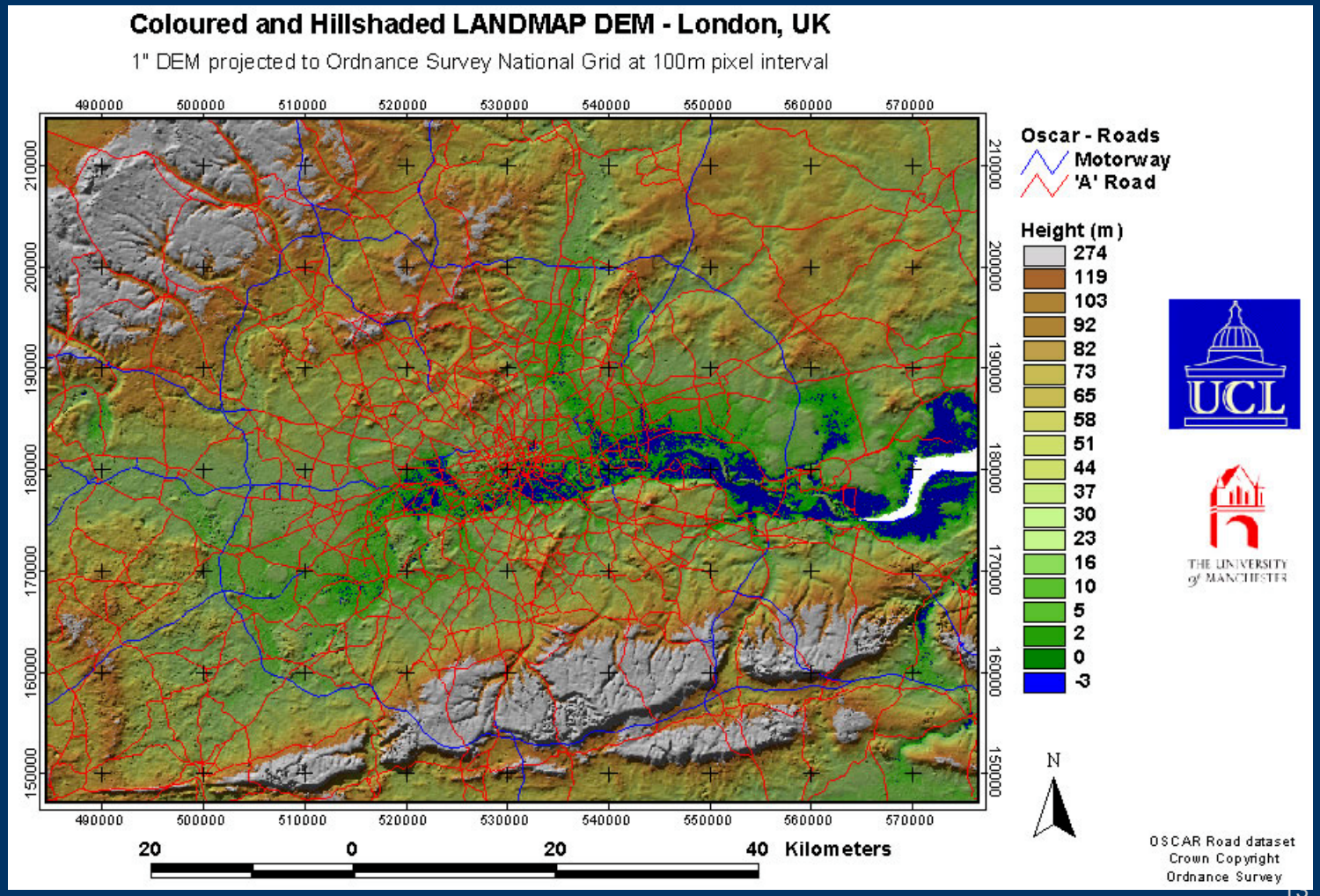
Remote Sensing



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Land Registration Act & Rule 2002

- Changes to boundary determination – not quite a cadastre
- Changes to over-riding interests, manorial rights & leases
- Rights of persons in occupation, easements, adverse possession

Changes at Land Registry

Vectorisation of index map

Commonhold Act 2003

Policy

- **GM Crops register**
- **CAP/IACS/ rural payments agency**
- **Galileo – meeting of council of ministers Nov 2004**
- **InSpire – EU wide GI initiative**
- **Valuation and GIS (graphic modelling of valuation trends)**
- **Geographic Information Panel established**

  to give recommendations across government on medium and long-term geographic information strategic issues

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Policy

RICS has produced a proposal for a web-based GMO land register that is simple, cost efficient and minimises red tape on farmers as well as producers of GM seeds. This proposal is in response to EU Directive 2001/18/EC which placed an obligation on all Member States to draw up a register for recording the location of GM crops before the first commercial release of crops

Web-based GMO Land Register

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Policy

Applicant can select existing IACS registered parcels or draw new parcel boundaries

The IACS parcel nos. associated with this CPH no. could be imported from RLR and selected from a drop-down menu/pick-list

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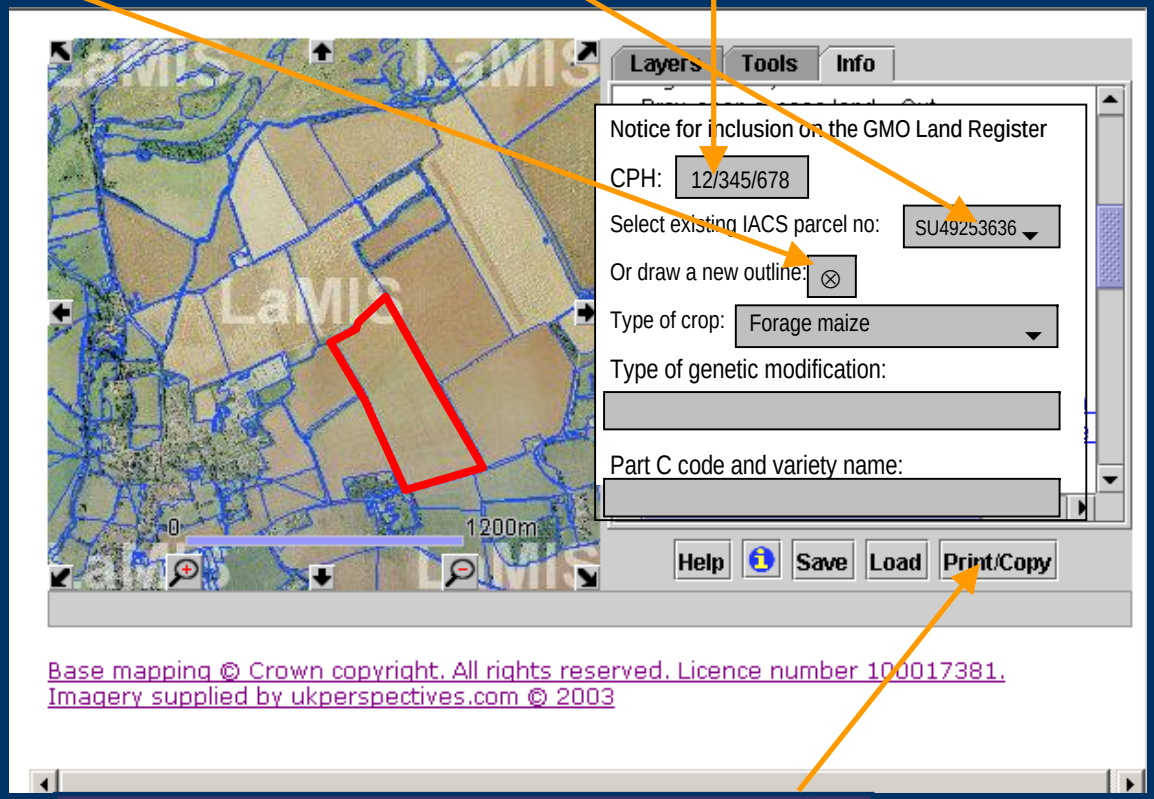
Web-based GMO Land Register



Users can print local copy of maps and forms and submit registration electronically through the Government gateway

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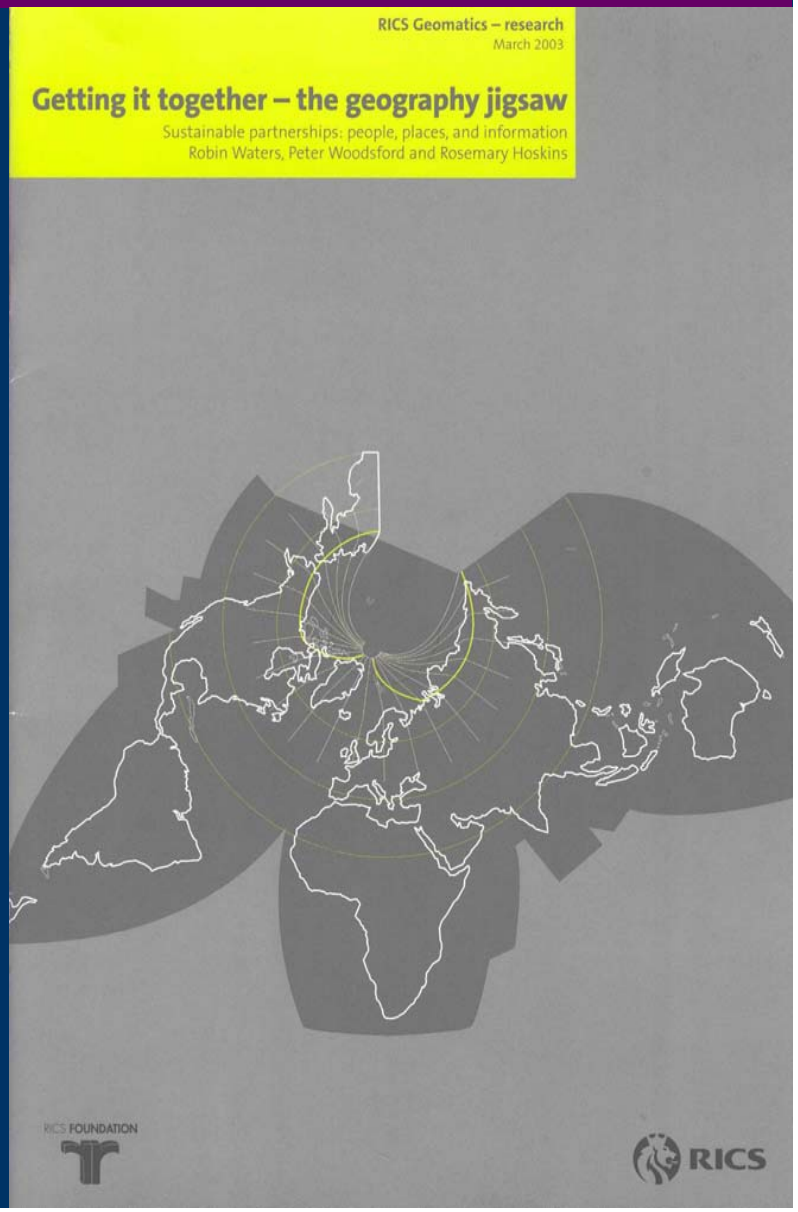
Faculty specific projects and initiatives

Geomatics Faculty

- Posh Pig Cd-Rom
- Accuracy
- Guidance – laser scanning, calibration
- Promotion of Geomatics as a profession
- Research – including Geography Jigsaw
- Specifications – GPS, 1:500, aerial imagery, contracts



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Contacts

Rob Mahoney

RobMahoney@bimgeac.com

James Kavanagh

jkavanagh@rics.org

Web addresses

http://rics.org

http:// www.ordnancesurvey.co.uk

http://www.gps.gov.uk/

http://www.landregistry.gov.uk

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