University of Nottingham contribution

Mike Jackson + Suchith Anand
Nottingham Geospatial Institute
Introduction

- Nottingham Geospatial Institute (NGI) formed from:
  - Centre for Geospatial Science (CGS) – combined with
  - Institute of Engineering Surveying and Space Geodesy (IESSG)
  - GRACE (GNSS Research Applications Centre of Excellence)

- Research institute with a focus in two core areas:
  - (i) Spatial analysis / SDI / LBS /data fusion /geo-intelligence
  - (ii) GNSS/positioning, surveying, geodesy
Example CGS Research

- Future data management [Ordnance Survey GB]
- Geo E-Learning + knowledge discovery [JISC]
- Sensor-webs [Technology Strategy Board]
- SDI / INSPIRE research [EC – GIS4EU, EuroGEOSS, eSoter; World Bank, ..]
- Digital Economy [EPSRC – location aware ubiquitous computing]
- Crime, Security, Defence [RCUK – DSCENT, MoD]
- Location Based Services [EPSRC, Industry]
- Ubiquitous / Smart Cities [S. Korea]
Engagement

GRACE
GNSS Research Applications Centre of Excellence

Welcome to GRACE

GRACE is part of the NGI (Nottingham Geospatial Institute) at the University of Nottingham, an internationally recognised centre of excellence in surveying, positioning and navigation technologies. We focus on assisting organizations, businesses, start-ups and entrepreneurs to take advantage of satellite navigation, positioning, timing and location based technologies.

Latest news
New Free Testing Infrastructure for Developers

Events
Crowd-sourcing in national mapping

Related links
- About GRACE
- Facilities
- IESSG
Engagement – 2

- Run major conferences e.g. AGI, OSGeo
- Run multiple workshops e.g. Crowd-sourcing; Self-driving vehicles
- Chair for Association of GI Labs of Europe (AGILE)
- Chair of the ICA Com. on Open Source Geospatial Technologies
- MoU with Open Source Geospatial Foundation
- Members of the Open Source GIS Summer School initiative
- Open Geospatial Consortium Technical Committee Member
- Association of Chief Police Officers (ACPO) GI Board
- UK Location Council Users Committee
- EuroSDR [Euro. Assoc. of NMCA’s and academia] National Representative
- <plus many more for the IESSG part of NGI>
Role in THE ISSUE

- 19 person months (i.e. ~ 0.5 FTE)

- Supporting role in WP’s 2–7 (3 to 5 months/package)

- Responsible for one deliverable – D6.3
  - Knowledge Exchange e–Learning (Geospatial + Location Techn.)
  - Delivery date: Month 30 (May 2014)
  - Person months: 3.0
  - Form of delivery: e–Learning Web service
Proposed Platform for Delivery

The ELOGeo Platform  http://elogeo.nottingham.ac.uk/
The e-Learning Platform

- Under development since Jan. 2011
- Fully open source – use of Creative Commons licence
- Currently has: 66 e-learning data sets
- Categories in ELOGeo Repository
  - Conference Series [5]
  - Educational Series [16]
  - Learning Materials [14]
  - Use Cases [8]
- Contributions from across Europe and North America
- Could also act as a open repository for THE ISSUE findings data and reports.
Introduction to Spatial Databases

Hernández, Toni (Toni Hernández, 2011-06-28)

Introduction to PostgreSQL + PostGIS as a GeoDatabase and pgAdmin as the administrative user interface. From there we will describe how to use pgAdmin to manage a database. Creating / importing (geo)data, querying, exporting.
ELOGeo – Rapidly growing

Materials views: 17053 --> 27923 last 6 weeks
Searches Performed: 3317 --> 6739 last 6 weeks

Additional separate funding just received to incorporate user-generated data, materials and services – 12 months to start March 2012.
Questions?

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