

PRESENTATION SUMMARIES CAMBRIDGE SUITE

09.45 – 10:05 **The Coal Authority**

Mining Into Data

Human settlement is influenced by natural resources, industry and employment. Centuries of underground and surface coal mining in Britain have left a legacy of environmental issues and public safety hazards. Consequently, some of the most densely populated regions are located in the coalfield areas. In this talk we explain the development of our coal mining information – from mineral extraction through to the creation of a comprehensive digital data suite, and how our data is used in the conveyancing, planning, property development and risk management sectors

10.15 – 10.35 **Aligned Assets**

Augmented Reality – The Evolution Of GIS Data

Augmented reality entered the public consciousness earlier this year through the Pokémon Go app. This presentation aims to explain what it is and why it takes GIS data in a novel and exciting new direction. It gives a foresight of how this data will be presented and how hardware and software technology has rapidly evolved to make this happen. The main focus is on how it can be used for more socially useful purposes than just gaming. This includes helping to protect emergency services staff as they go about their day-to-day tasks and council officers when assessing planning applications and managing issues like fly tipping and dog fouling.

The general public in the UK can also benefit by using augmented reality to find amenities, markets, transport and other points of interest. It can even benefit people in countries with a lack of structured, centralised addressing – such as Ghana where Aligned Assets have been working to formalise the naming and numbering process - by identifying addresses when there is little street naming and numbering present.

10.45 – 11.05 **The GeoInformation Group**

National Land Infrastructure Mapping: A New Insight

Maps were once simply a means of displaying location but there are increasing requirements for intelligent information about places, land and infrastructure. The presentation will highlight the changing requirements for spatial data and the challenges of creating and maintaining national datasets.

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11.35 – 11.55 **GeoPlace**

Data: The Fuel Of The Future

In the past data has been used for analysing and understanding trends, but increasingly it is forming the very bedrock of our work. As such it's more critical than ever that our data is ready. How far is data being considered in the delivery of intelligent technology initiatives?

12.05 – 12.25 **KOREC**

Combining Geospatial Technologies For Large Scale Asset Collection Projects

Open source GIS systems can be used to manage incoming data from a large range of sources including traditional GNSS device capture, mobile mapping and of course low cost Android devices for ongoing maintenance.

We'll take a closer look at how open source GIS systems can be used to handle this array of different data capture sources to create a seamless data set.

We'll look at some case studies of previously collected entry level mobile mapping data, examples of data extraction and how that can be viewed instantaneously in open source system and how best to maximise your dashboard information.

12.35 – 12.55 **Cadcorp**

Dashboards & GIS

Customer expectation and an ever rising demand for information to be delivered as quickly and concisely as possible has led to an increase in the use of the Dashboard as a means of displaying information. GIS is no different from any other IT sector in this respect, indeed the move to incorporate GIS as a mainstream IT function and the commoditisation of mapping technology all point to an increase in their use.

This presentation discusses the background, implementation and use of dashboards in the sector and will be accompanied by a demonstration of some of the technologies and applications involved.

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13.35 – 13.55 **British Geological Survey**

BGS Civils – Mapping The Earth You Move

Today, GIS has made geological data more readily consumable and technology has placed that data everywhere at the touch of a button. The traditional geology map has moved on, information for engineers (maybe not for canals, but other infrastructure) remains in high demand. Developing the subsurface has become a key factor in urban management and infrastructure design and renewal. BGS Civils is one very small aspect of our thematic options for specialist stakeholders. It acts as a starting point for a partnership with an industry that is increasingly tech savvy, data driven and data reliant. So we will outline what the geology map of today looks like in its 'BGS Civils' form and also take a brief look to what engineers may be able to do for the next generation of geologists.

14.05 – 14.25 **Environmental Science To Services Partnership (ESSP)**

Developing DataSpring – Connected Data For A Connected Environment

ESSP is a collaboration between six leading UK public sector environmental science organisations. We are harnessing the power of emerging technologies to deliver capabilities to meet the growing needs of software developers and innovators for frictionless direct access to useful and useable multi-organisational cross-disciplinary data using industry open standards under consistent and simplified licences. In this era of big data DataSpring offers the potential to deliver a step-change in the way that environmental data are made available, integrated, analysed and used. Building over time, we have ambitions to establish DataSpring as the 'go-to' single point of access for trusted environmental data and derived value-added information, reducing barriers to innovation, supporting data-driven decision making and stimulating economic growth. This presentation will also include a live demo of the latest developments from ESSP.

14.35 – 14.55 **CDR Group**

How To Load Tons Of Terrain Data

The new MapInfo Pro Advanced has limitless capabilities to store raster grids with it's new MRR format. Which is pretty handy if you have downloaded the hoards of free data from the OS and Environment Agency. Here we shall look at the process of merging ASC files and what the data represents.

15.15 – 15.35 **A-Z Maps**

GUEST TALK: A Cartographic Insight Into The A-Z Street Atlas

Geographers' A-Z Map Company started in 1936 with the creation of the first London A-Z street map. The Company has been at the forefront in the development of cartographic techniques throughout the 20th century to the present and is now the largest independent map publishing company in the UK. Hear which cartographic techniques were used and how they shaped the development of the modern AZ Street dataset.