



# PSC Europe Forum Conference

9 & 10 December 2015

Oxford, UK

*#PSCEoxford*

Venue : St Anne's College, 56 Woodstock Road, Oxford, OX2 6HS



# Key themes

- Debating the results of **WRC'15** - Is 700MHz going to be available for Public Safety, by what means, and by when?
- What is the roadmap for **PPDR 4G**?
- Will 4G transition to **5G**? Do we have to start again? What new benefits will 5G bring for Public Safety?
- The increasing deluge of **Social Media**, and Information Exchange for Emergency Management: What are the challenges from a social, legal and ethical perspective?
- Key challenges for the security and resilience of next generation **mobile broadband for PPDR**
  - *The brokerage event on the upcoming ICT and security H2020 calls will be held on 8 December 2015 at 15:30.*
  - *The Poster Session will be organised. In case you wish to exhibit a poster, please contact [secretariat@psc-europe.eu](mailto:secretariat@psc-europe.eu) for more information*



# The H2020 brokerage event

## 8 December 2015

**Venue: Foyer A Ruth Deech Building, Seminar Room 7**

- 15:30 – 15:40 – Opening of the brokerage event
- **15:40 – 16:40 – H2020 work programme 2016-2017: Leadership in enabling and industrial technologies: Information and Communication Technologies**
  - *Identification of relevant calls*
  - *Presentation of project ideas*
  - *Consortia building*
- 16:40 – 17:00 – Coffee break & informal discussions
- **17:00 – 18:00 – H2020 work programme 2016-2017: Secure societies – Protecting freedom and security of Europe and its citizens**
  - *Identification of relevant calls*
  - *Presentation of project ideas*
  - *Consortia building*
- 18:00 – 18:30 – Bilateral informal discussions
- 18:30 – Closing of the brokerage event



9 December 2015

☐ 08.30 – 09.00 – Registration

☐ 09.00 – 10.10 – **GENERAL ASSEMBLY**

- Approval of the minutes from the General Assembly held in Graz, Austria
- Report of the President, activity report from the Secretary General
- Budget proposal 2016
- Brief Presentations of the new institutional members

*10.10 – 10.20 – Coffee break*

☐ 10.20 – 10.30 – Introduction / Opening by David LUND, PSCE President

☐ 10.30 – 10.40 – Welcoming by Oxford University

☐ 10.40 – 11.00 – Elevator pitch: Presentation of the poster session

➤ *Debating the results of WRC'15 - Is 700MHz going to be available for Public Safety, by what means, and by when?*

☐ PPDR BB Spectrum situation, Jeppe JEPSEN, Motorola Solutions

☐ Users' perspective: Broadband Public Safety in 700 MHz, Gilles DELAPLACE, Ministry of Interior, France

☐ Roundtable chaired by Manfred BLAHA, Chair of the Users Committee

☐ *12.30 – 13.30 – Lunch Break*

➤ *4G and 5G*

☐ Innovation Opportunities for IoT and 5G Stuart REVELL, CTO, WTIC

➤ *What is the roadmap for PPDR 4G?*

☐ Results of the SALUS project, Hugo MARQUES Instituto de Telecomunicações – Aveiro

☐ Catapult Briefing 'Ubiquity, Resilience and Interoperability in an ever-changing World', Paul FEBVRE, CTO from the Satellite Applications Catapult

☐ Broadmap project, Manfred BLAHA, PSCE

☐ *15:20 – 15.40 – Coffee break*

➤ *Will 4G transition to 5G? Do we have to start again? What new benefits will 5G bring for Public Safety?*

☐ What is 5G network architecture? Gerry FOSTER, University of Surrey

☐ Future 5g capabilities. Implications for Public Safety? Timo BAKKER, ALU

☐ Roundtable session chaired by Harold LINKE, Chair of the Industry Committee

☐ The use of mobile-based video and fusion of sensor networks data for a better surveillance. Field experiences with the Madrid City Police and the FP7 ARGOS project, Mr. RAÚL SANTOS DE LA CÁMARA, Hi Iberia

☐ *17:30 - Wrap up and end*

☐ *19:30 - SOCIAL EVENT: Diner at St Peter's College – Registration necessary*



## 10 December 2015

☐ 08.30 – 09.00 – Registration

☐ 09.00 – 09.30 – What's in the Public Safety App Store - Feedback from last time

☐ 9.30 – 10.30 - *Collaborative session* - What does public safety need from next generation of 4G and 5G?

*10.30 – 10.40 – Coffee break*

➤ ***The increasing deluge of Social Media, and Information Exchange for Emergency Management: What are the challenges from a social, legal and ethical perspective?***

☐ 10.40 – 11.10 – Semantics Analysis Monitor for the Illegal Use of the Internet, SAMi2 dissemination event, Mr. RAÚL SANTOS DE LA CÁMARA, project coordinator, HI-Iberia

☐ 11.10 – 11.40 – Networked Information Exchange: Ethical, Legal and Social Issues, Monika BÜSCHER, Lancaster University

☐ 11.40 – 12.10 - Comparative Review of Social Media Analysis Tools for Preparedness, Su ANSON, Trilateral Research & Consulting

☐ 12.10 – 12.40 – Reflection on the TEASE project and Charting The Way Forward, Jason NURSE and Dr. Ioannis AGRAFIOTIS

☐ 12.40 – 13.10 – Roundtable chaired by Andrea NOWAK, Chair of the Research Committee

*13.10 – 14.10 – Lunch Break*

➤ ***Key challenges for the security and resilience of next generation mobile broadband for PPDR***

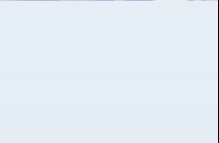
☐ 14.10 – 14.40 – ‘Resilience and Protection of Critical Infrastructures, David DE ROURE, Cyber Security Oxford, University of Oxford

☐ 14.40 – 15.05 – Protecting against key developing threats to our Networks and Information, Dr. Elizabeth O’SULLIVAN, Centre for Secure Information Technologies, Queens University Belfast

☐ 15.05–15.30 – Assessing the Security and Resilience of Mobile Broadband Networks for PPDR, Paul SMITH, Austrian Institute of Technology,

☐ 15.30 – 16.00 – Panel discussion chaired by David LUND, PSCE President

☐ 16.00 – End of the conference





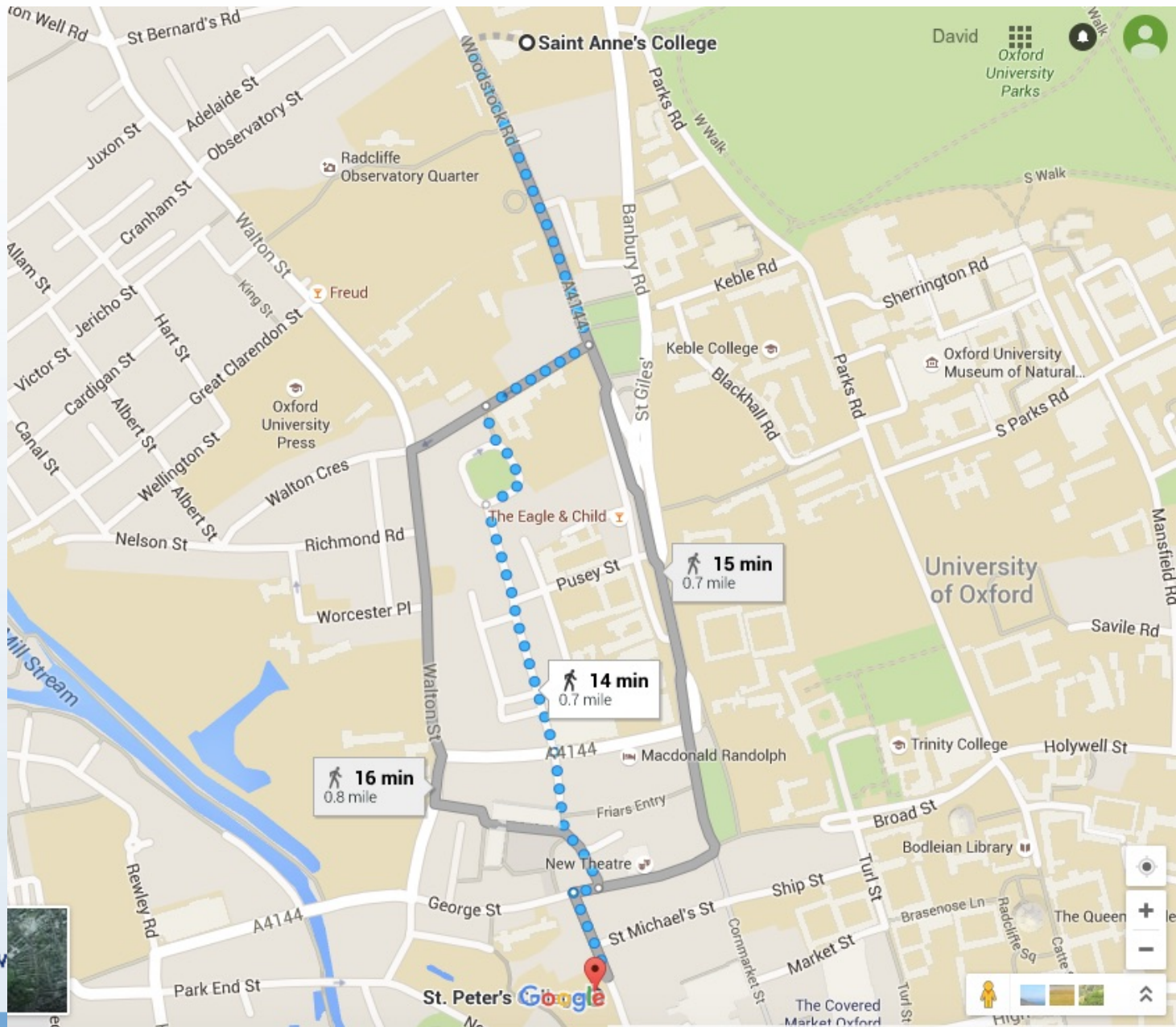
## Social Event at St Peter College

We would be happy to welcome you to the **Dinner** to be held at St Peter's College on 9<sup>th</sup> December 2015.



Address: St Peter's College, New Inn Hall Street, Oxford, OX1 2DL, TEL: +44 (0)1865 278900

# How to get from St. Anne's College to St. Peter's College



# Main entrance of the St. Peter's College



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# SAMi2

## SAMi2

Social networking is one of the most popular online activities worldwide, transforming OSNs in a mirror of society where both legal and illegal activities are present.

SAMi2 aims to prevent and fight against illegal actions in Internet through the use of the public information available into Social Networks, mainly in Twitter. It is conceived as a potential helping tool for the police and security forces in automatizing the OSN monitoring process currently carried out manually.

SAMi2 crawls the OSNs and realizes an in-depth semantic analysis using the most-up-to-date technologies and approaches in Natural Language Processing in order to extract all the relevant pieces of information for the prevention and detection of illegal activities. These results are presented in a near-real-time manner to the security forces, that in order to adapt them to their specific needs; further evaluation of accuracy of the results by users through machine learning allows the system to refine the results.

In addition, to be able to use the captured content as forensic evidence and trial in court actions, SAMi2 integrates a forensic module that allows storing the gathered information with strong encryption. This process is done ensuring that the OSN's user's right of privacy and data ownership are observed and that ethical and legal provisions in the law or the OSNs Terms of Service are upheld.

The system can be integrated into already existing systems currently used by security forces to cover all possible scenarios of use such as illegal content detection, crime prevention and forensic uses.

In conclusion, SAMi2 is intended to be a novel and tailored tool for the prevention and detection of illegal activities that arise from Internet through the use and improvement of current state-of-the-art tools in semantics and processing of big amounts of data.

More information is available here: <http://sami2-project.eu/>

# Silver Sponsor



Airbus Defence and Space is a world leading company of PMR radio systems, terminals, control room 112 call taking, radio dispatching and applications as well as integration of PMR solutions to public safety and civil customers. Airbus Defence and Space develops, manufactures and distributes to all globally relevant today PMR technologies: TETRA, TETRAPOL and P25 radio infrastructure products as well as radio terminals for TETRA and TETRAPOL.

Airbus Defence and Space has developed TETRAPOL standard, infrastructure and terminal products during the last 20 years. Nationwide TETRAPOL networks are in operation in France, Spain, Switzerland and Czech Republic. Airbus Defence and Space provides interfaces from TETRAPOL infrastructure to connect fixed and radio dispatching terminals. Airbus Defence and Space TETRAPOL interfaces can be used to connect a TETRAPOL network to a TETRA network as well as to interface two TETRAPOL networks together with certain set of call functions. Airbus Defence and Space is working for making the European connectivity of the above nationwide networks with those, provided by other manufacturers (Motorola, Selex).

Airbus Defence and Space has also developed over the last 15 years a comprehensive TETRA network for rich set of voice and data for multi-organisation communication, based on the European TETRA standard created by ETSI (European Telecommunication Standard Institute). Airbus Defence and Space TETRA system is the industry leader in large TETRA networks, in functionality and scalability within TETRA systems. Airbus Defence and Space delivers complete TETRA solutions, providing end-to-end solutions from networks, network management, mobile and control room terminals and services. Over the last 10 years Airbus Defence and Space has worked together with TETRA industry and operators to develop the ETSI ISI standard. Airbus Defence and Space has implemented and released the first phase release of this standard, supporting a critical set of TETRA functionalities over the ISI interface. Airbus Defence and Space objective is to deliver full interoperability of TETRA networks to the existing European nationwide networks, delivered by Airbus Defence and Space: Sweden RAKEL, Germany BOSNET, Hungary EDTN, Finland VIRVE, Belgium ASTRID, Estonia EDR.

More information is available at: <http://airbusdefenceandspace.com/>



# Silver Sponsor



When **Esri** was founded in 1969, we realized even then that geographic information system (GIS) technology could make a difference in society. Working with others who shared this passion, we were encouraged by the vast possibilities of GIS. Today, our confidence in GIS is built on the belief that geography matters—it connects our many cultures and societies and influences our way of life. GIS leverages geographic insight to ensure better communication and collaboration.

Geography connects our many cultures and societies and influences our way of life. **Esri** is built on the philosophy that a geographic approach to problem solving ensures better communication and collaboration. Geographic information system (GIS) technology leverages this geographic insight to address social, economic, business, and environmental concerns at local, regional, national, and global scales.

**Esri** develops geographic information systems (GIS) solutions that function as an integral component in nearly every type of organization. On any given day, more than a million people around the world use **Esri**'s GIS to improve the way their organizations conduct business. **Esri** gives GIS users what they need by listening closely and incorporating their feedback and recommended improvements.

**Esri** software is used by more than 350,000 organizations worldwide including most national and local agencies such as national mapping agencies, petroleum companies, health departments, forestry companies, national security and public safety organizations and many others in dozens of industries. Thousands of organizations use **Esri** GIS software during the four phases of disaster management: mitigation, preparedness, response, and recovery. GIS enables these organizations to minimize the impact of disasters on lives and property. They use GIS for readiness, effective response coordination, and comprehensive situational awareness. Following a disaster, **Esri** provides software, data coordination, technical support, and other GIS assistance to organizations. **Esri** can also provide on-site technical personnel to assist with emergency GIS operations.

More information is available at [www.esri.com](http://www.esri.com)

# Silver sponsor



## Motorola Solutions

We are a global communications leader powered by a passion to invent and an unceasing commitment to advance the way the world connects.

Our communication solutions allow people, businesses and governments to be more connected and more mobile.

For more information about our company, our people and our innovations, please visit <http://www.motorolasolutions.com>



# Poster Session (1/3)



The overall objective of EmerGent is to understand the positive and negative impact of social media in emergencies in order to enhance the safety and security of citizens before, during and after emergencies.

One of the biggest sources of Big Data is social media. This represents a continuous feed of unstructured, unvalidated near real-time information about citizens' experience.

When a population undergoes a crisis, such as a flood, earthquake or riots, masses of valuable information pours into social media sites such as Twitter and Facebook. Currently the emergency services have no established methods of monitoring this data, filtering it and integrating the results into crisis management.

As part of the European EmerGent project, Oxford Computer Consultants are developing cloud-based emergency management services to gather and mine social media for large-scale crises.

Visit EmerGent at <http://112.social/> and <http://www.fp7-emergent.eu>.



# Poster Session (2/3)

The logo for SAM12 is displayed in large, bold, blue letters. The letter 'A' is replaced by a white shield containing a blue silhouette of a person. The number '12' is rendered in a solid black color. The logo is centered on a white rectangular background.

# SAM12

More information is available here: <http://sami2-project.eu/>



## Poster Session (3/3)



SecInCoRe envisages a cloud based 'Common Information Space' concept for all stakeholders engaged in or supporting the work of first responders and Police authorities in all phases of the emergency management cycle. As a basis, the project initiates a pan-European inventory including past disaster events, information about used and available data sets, information management processes, information systems, organisation business models as well as ethical, legal and social issues.

More information is available at:

<http://www.secincore.eu/>



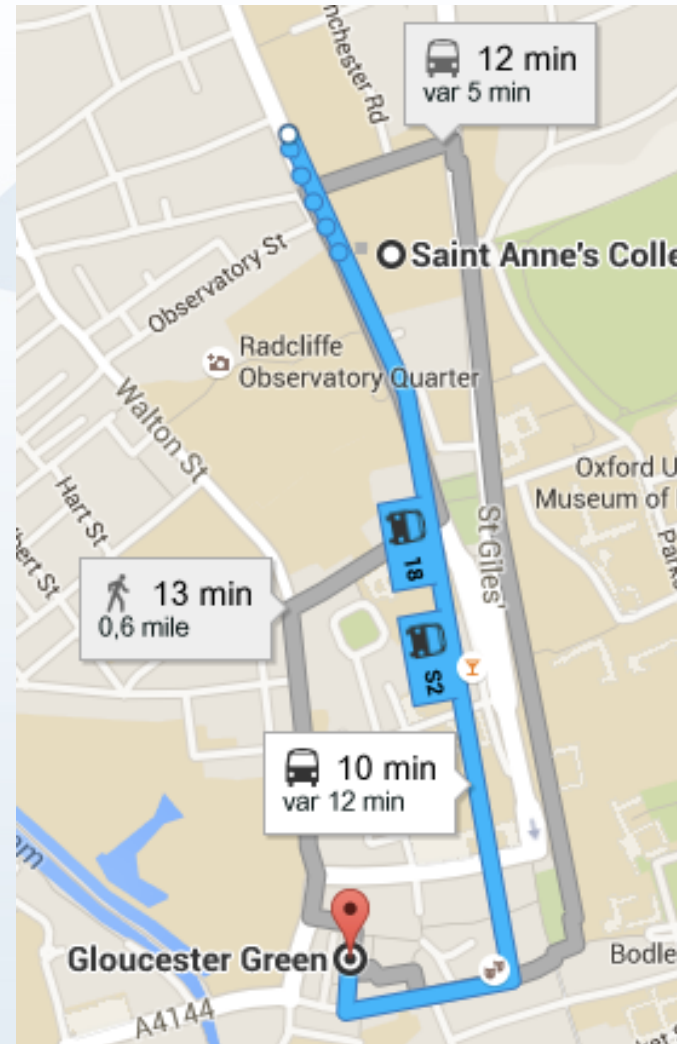
# How to reach Oxford

## How to reach Oxford from Gatwick and Heathrow airports

- Buses run from Gatwick and Heathrow to Oxford Gloucester Green. Details can be found here

<http://airline.oxfordbus.co.uk/timetables/>

- Buses arrive in Oxford at Gloucester Green. Gloucester Green is just 13 minutes walk from St Annes College. Please see the map on the right.





# How to reach Oxford

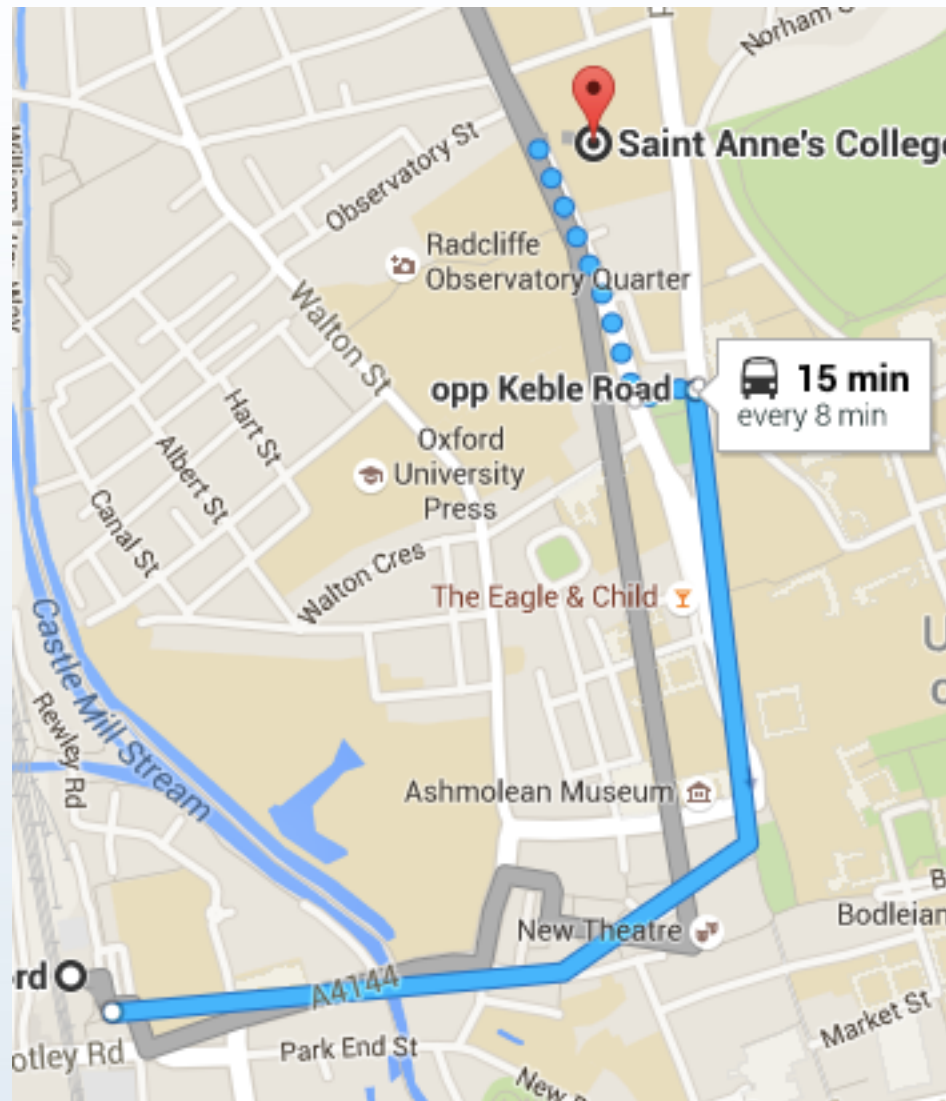
## How to reach Oxford from London

There are two major ways to reach Oxford by public transport.

- The first is the Oxford Tube, a bus service that runs regular coaches between Oxford and London. The website is here: <http://www.oxfordtube.com/> and there are many coach stops at which you can get on the coach.
- The second method is to get the train to Oxford. These leave from Paddington station regularly (approximately every 30 minutes), run direct and take about an hour. The website is here: <http://www.thetrainline.com/train-times/london-paddington-to-oxford>. Paddington is easily reached from Heathrow using the shuttle link, and easily reached from other train stations, such as Kings Cross, via the underground system. It takes roughly 1hr from London Paddington to oxford by train. The railway station is roughly 20minutes walk from St Anne's or there are taxi's and buses available at the station. For the bus - use stop R1, Bus no.14,14A, or 500 which runs every 8 minutes, and takes 15 minutes to Keble road as shown on the map on the next slide.



# Bus from the Oxford railway station



# St. Anne's College - Oxford

## Site Plan



### KEY

- A - Seminar Rooms 1, 3, 4 & 5
- B - Development Office
- C - Seminar Room 6
- D - Mary Ogilvie Lecture Theatre
- E - Lower & Upper Common Rooms
- F - Seminar Rooms 7, 8 & 9 & Tsuzuki Lecture Theatre
- G - IT Room
- H - STACS
- J - College Bar
- K - Accommodation & Conference Departments

-  - WC
-  - Fire Assembly Point
-  - Recycling Point
-  - Smoking Point