



arqiva

Mobile Infrastructure Project (MIP)

Cotswolds AONB

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DCMS



MIP - Overview

- ▶ A £150m publicly funded project to provide mobile phone coverage by **all four Mobile Network Operators** (MNOs) in areas that have **none** at present
- ▶ ‘Not spots’: Areas with no effective coverage by **any** of the mobile network operators, usually because it is uneconomic to do so
- ▶ An opportunity to be grasped - tackling market failure to provide mobile coverage to less populated areas
- ▶ State Aid funding means MIP cannot consider areas where there is coverage from at least one (UK) operator, but not from others
- ▶ State Aid funding is for improvements to “voice coverage and basic data”, but all sites will have the connectivity to manage upgraded services
- ▶ Operational & technical challenges – especially connecting the new sites into the MNOs’ networks

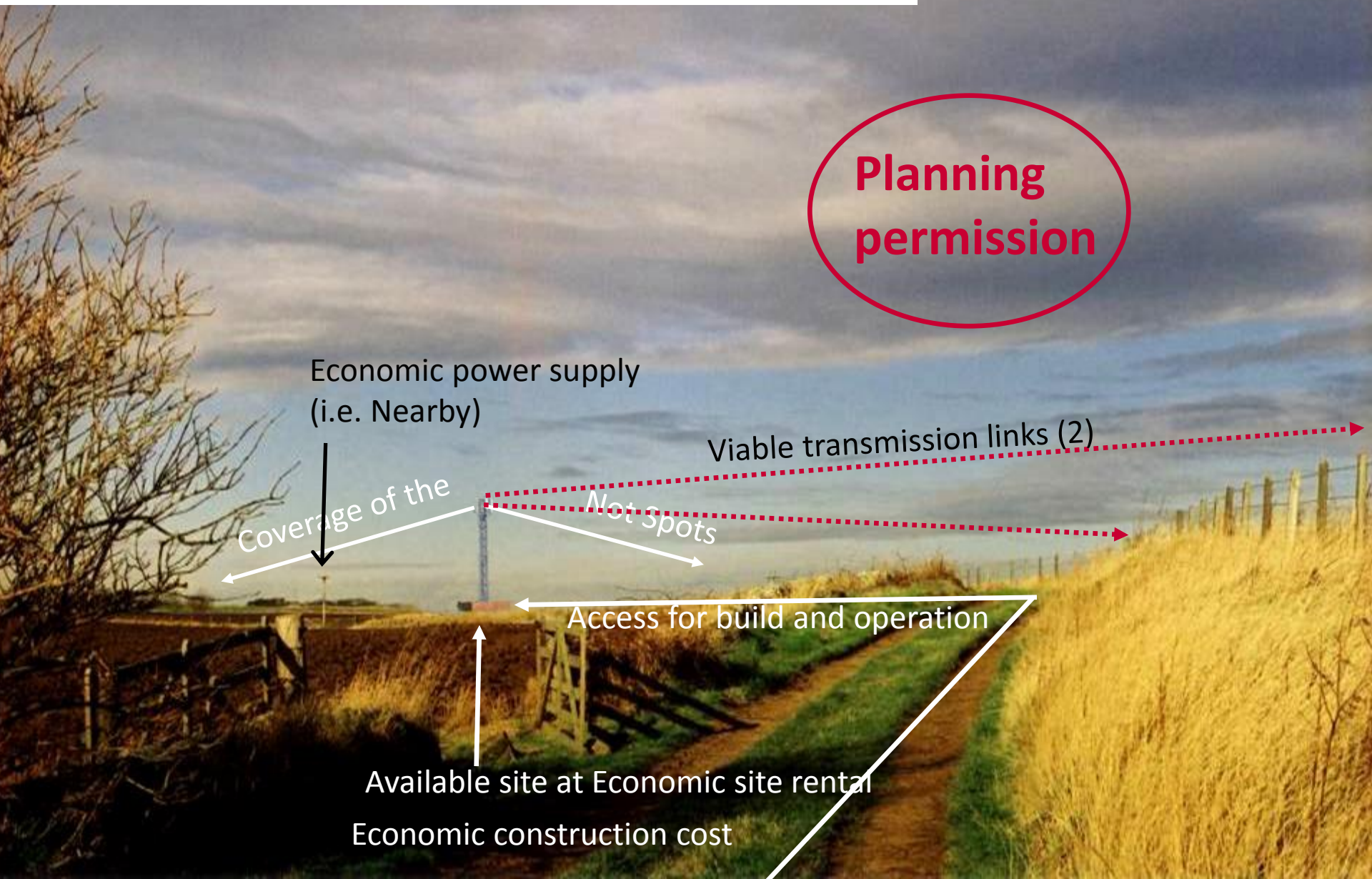
Those involved:

- ▶ **The Department of Culture Media and Sport** (Broadband Delivery UK) is meeting **the capital cost** of the project
- ▶ **Arqiva** has been contracted to deliver it
- ▶ **Harlequin** are Arqiva's acquisition agents
- ▶ **The four Mobile Network Operators:**
 - Have all agreed to provide a service from all MIP sites for 20 years
 - Have agreed to meet **all the operating costs** of doing so

Example notspots – containing one or more premises



The Challenge: - All on the same site!



**Planning
permission**

Economic power supply
(i.e. Nearby)

Viable transmission links (2)

Coverage of the

Not Spots

Access for build and operation

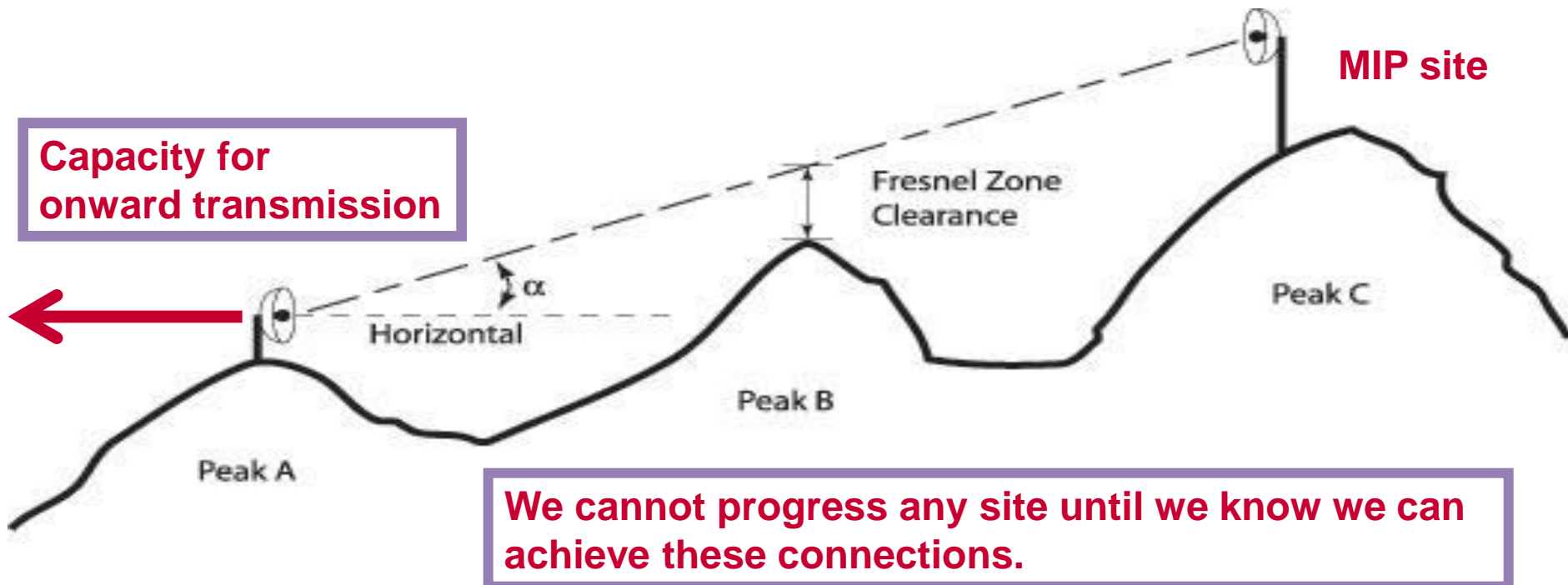
Available site at Economic site rental

Economic construction cost

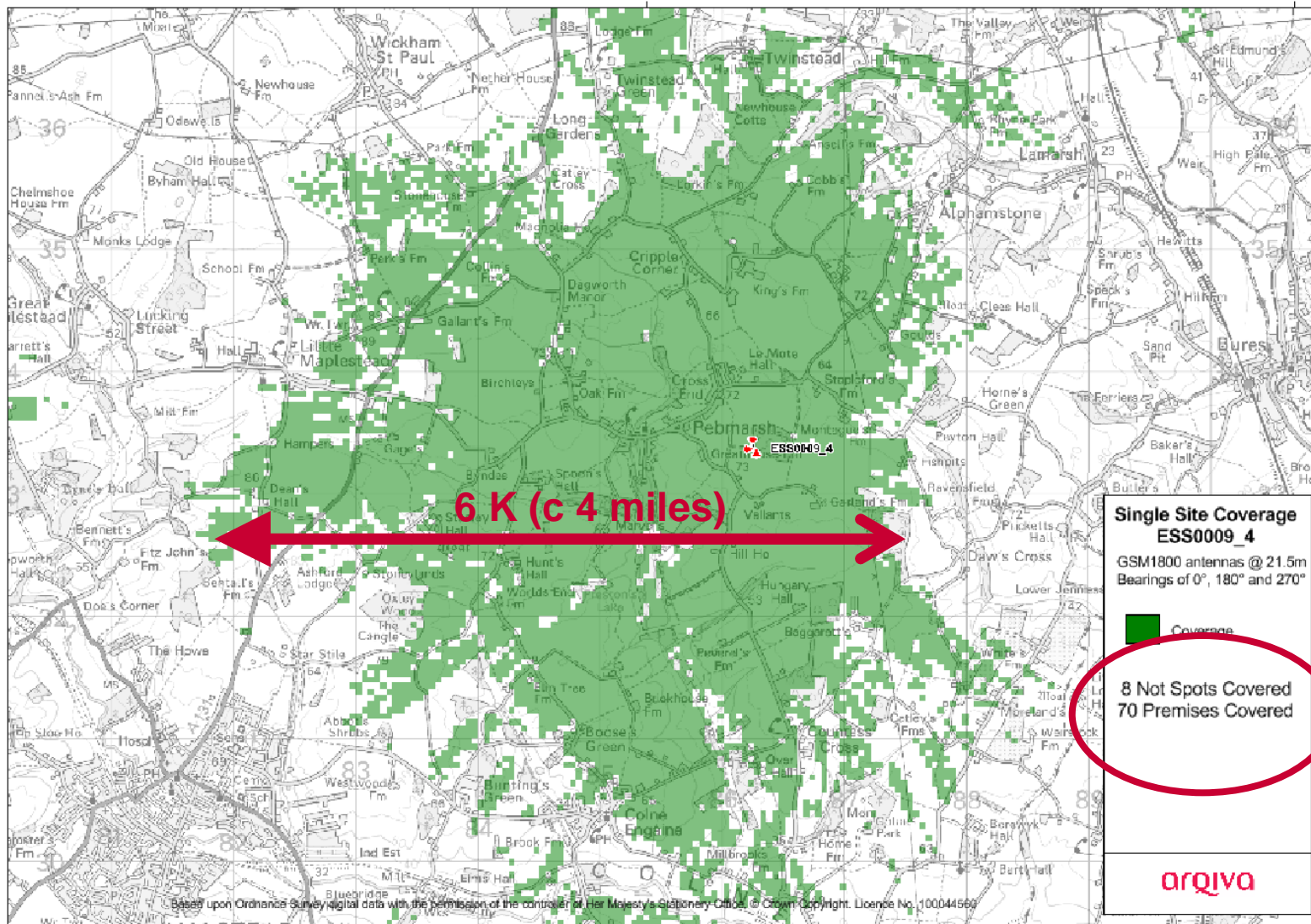


Transmission

- ▶ Line of sight needed for connecting the site into the MNOs' networks
- ▶ Every site needs **TWO** transmission links
 - One for O2 & Vodafone
 - One for EE and 3
- ▶ The far ends of the links need capacity to carry the services back into the MNOs' core networks



Example - Proposed mast coverage plot



A Typical MIP Installation – 20 metres



(N Molton Devon)

In the wider context





Current position

- ▶ First National Radio Plan prepared in 2013
 - Some delays due to verification of the not spot data
 - Radio transmission issues - connecting new sites into the existing Mobile Network Operators networks is still a major challenge

- ▶ **Now** working to a revised National Radio Plan which has been:
 - Updated and optimised to reflect latest not spot data
 - Linked to availability of transmission solutions with the potential for MIP masts to be upgraded to 3G & 4G and beyond

Nominal locations – Overview

Key

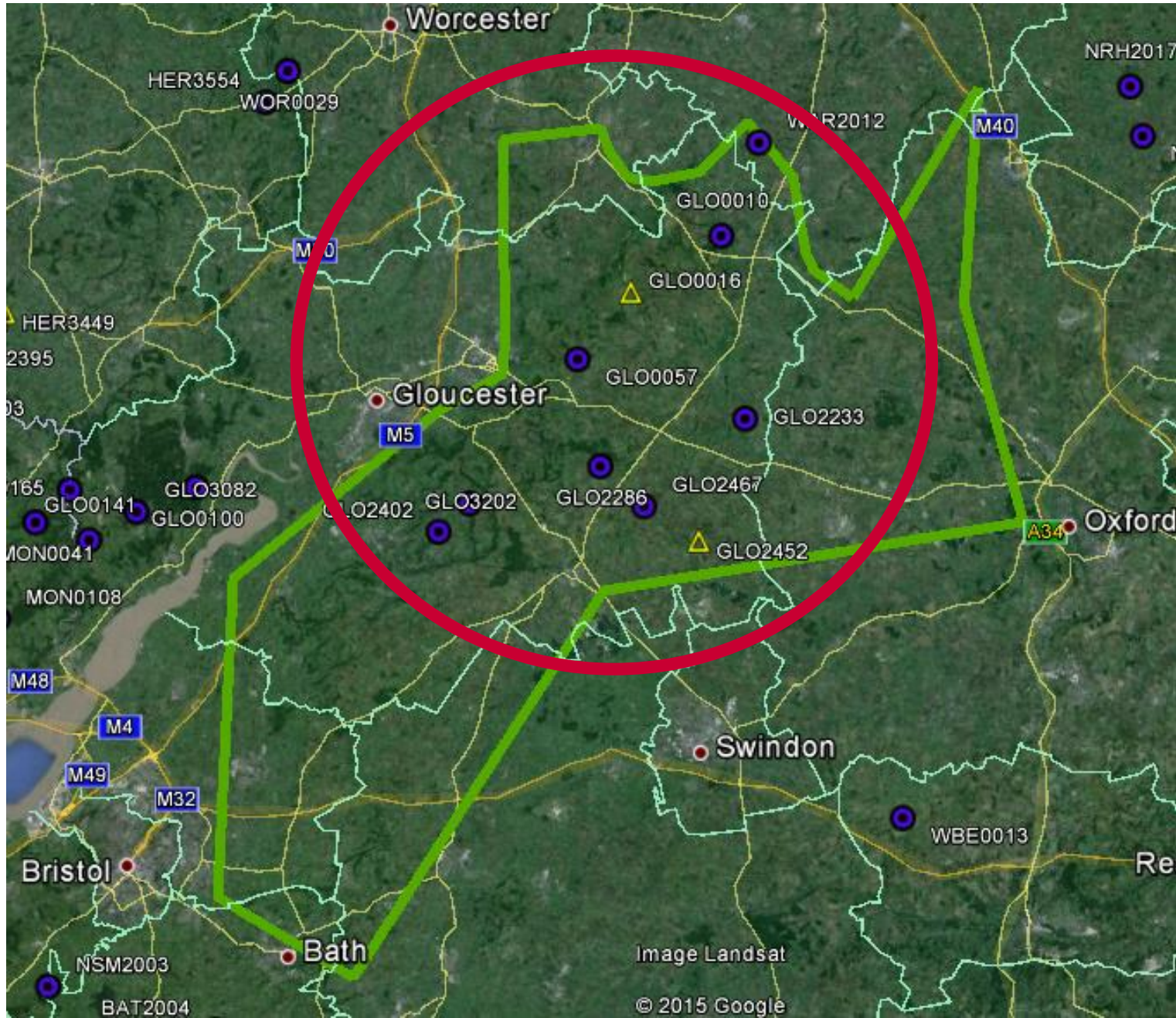
▶ Transmission solution available or expected:



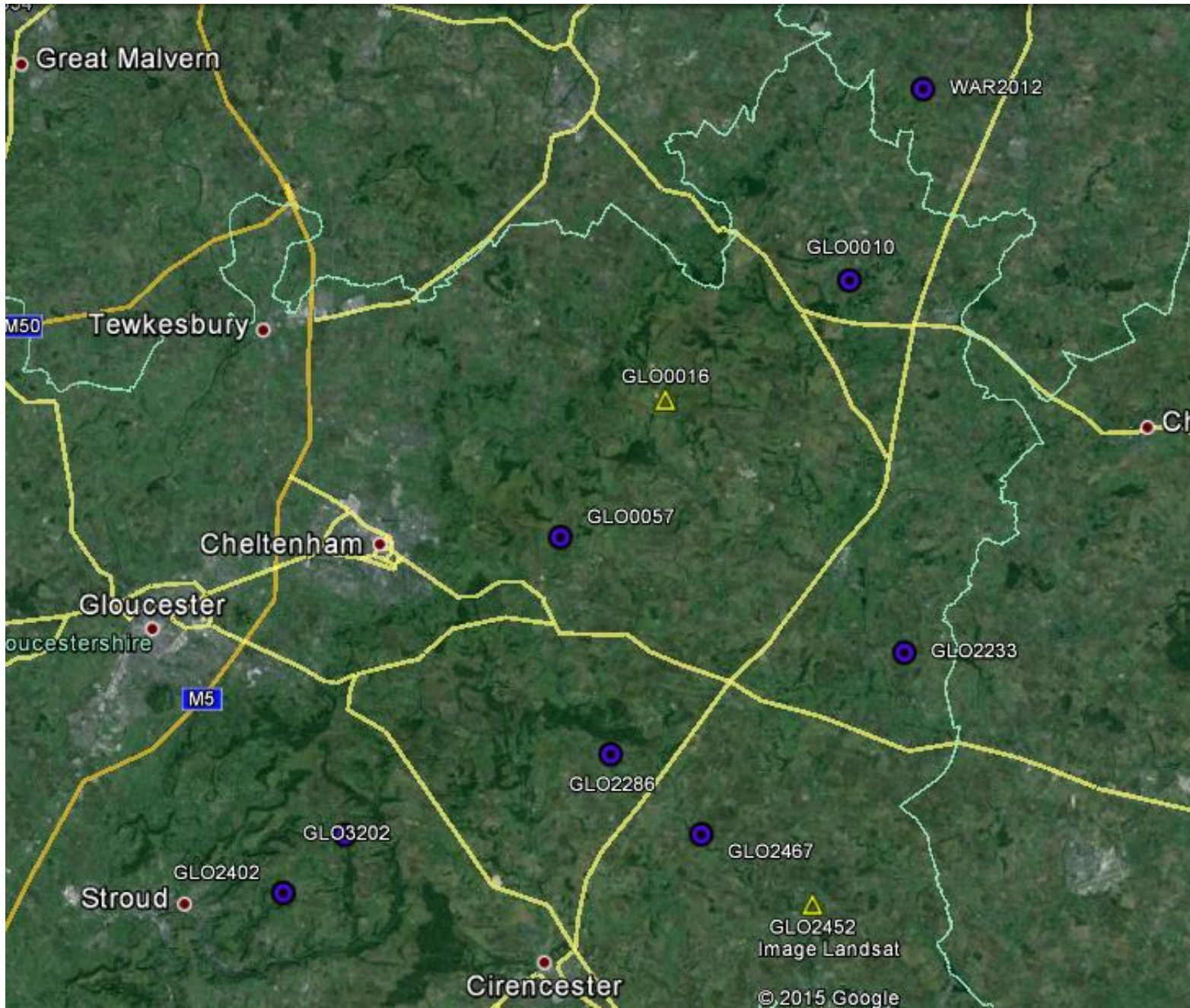
▶ No transmission solution:



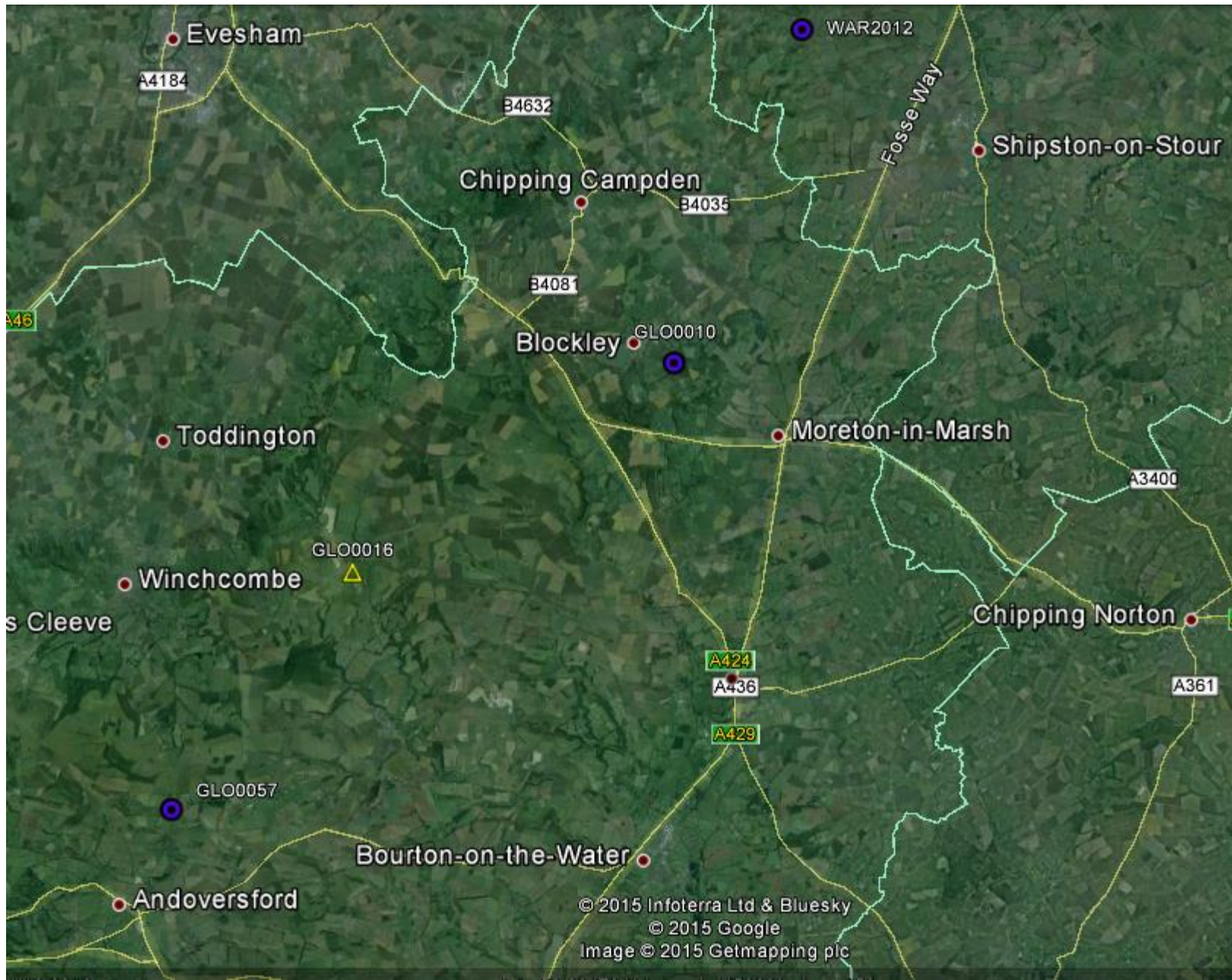
Cotswolds AONB (Schematic boundary)



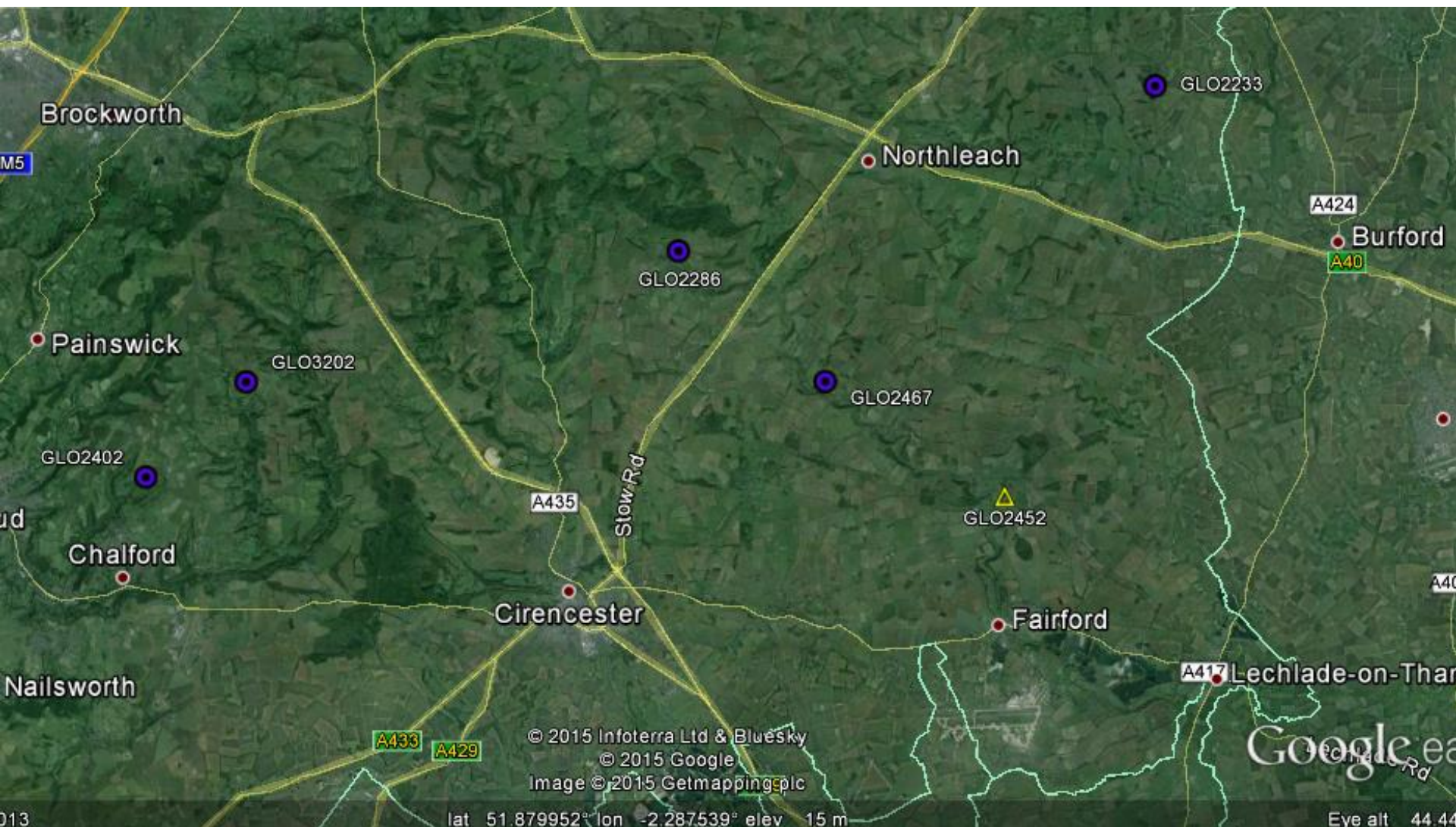
Cotswolds AONB Nominal Locations



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Cotswolds AONB Nominal locations:

Nominal ID	Approx. Location	Current Status	LPA
GLO0010	Blockley	In search	Cotswold DC
GLO0016	Ford	No transmission solution	Cotswold DC
GLO0057	Brockhampton	In search	Cotswold DC
GLO2233	Great Rissington	In search	Cotswold DC
GLO2286	Chedworth	Pre-app with LPA & Parish	Cotswold DC
GLO2402	Bisley	Pre-App with Parish	Stroud DC
GLO2452	Quenington	No transmission solution	Cotswold DC
GLO2467	Ablington	In search	Cotswold DC
GLO3202	Miserden	Site under investigation	Stroud DC
WAR2012	Ilmington	In search	Stratford-on-Avon DC



We need your support

- ▶ Explaining the major benefits of the project for rural communities in your area
- ▶ Understanding the major technical and operational constraints of delivering a particular site
- ▶ Communicating realistic expectations in terms of siting and design
- ▶ Engaging with Arqiva & Harlequin, where appropriate and necessary, on site specific proposals (pre-application stage)
- ▶ Supporting the town planning process and minimising any delays – using Councils' streamlined planning consultation processes
- ▶ Disseminating a positive message about the project to communities and landowners

Thank you. Questions?

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