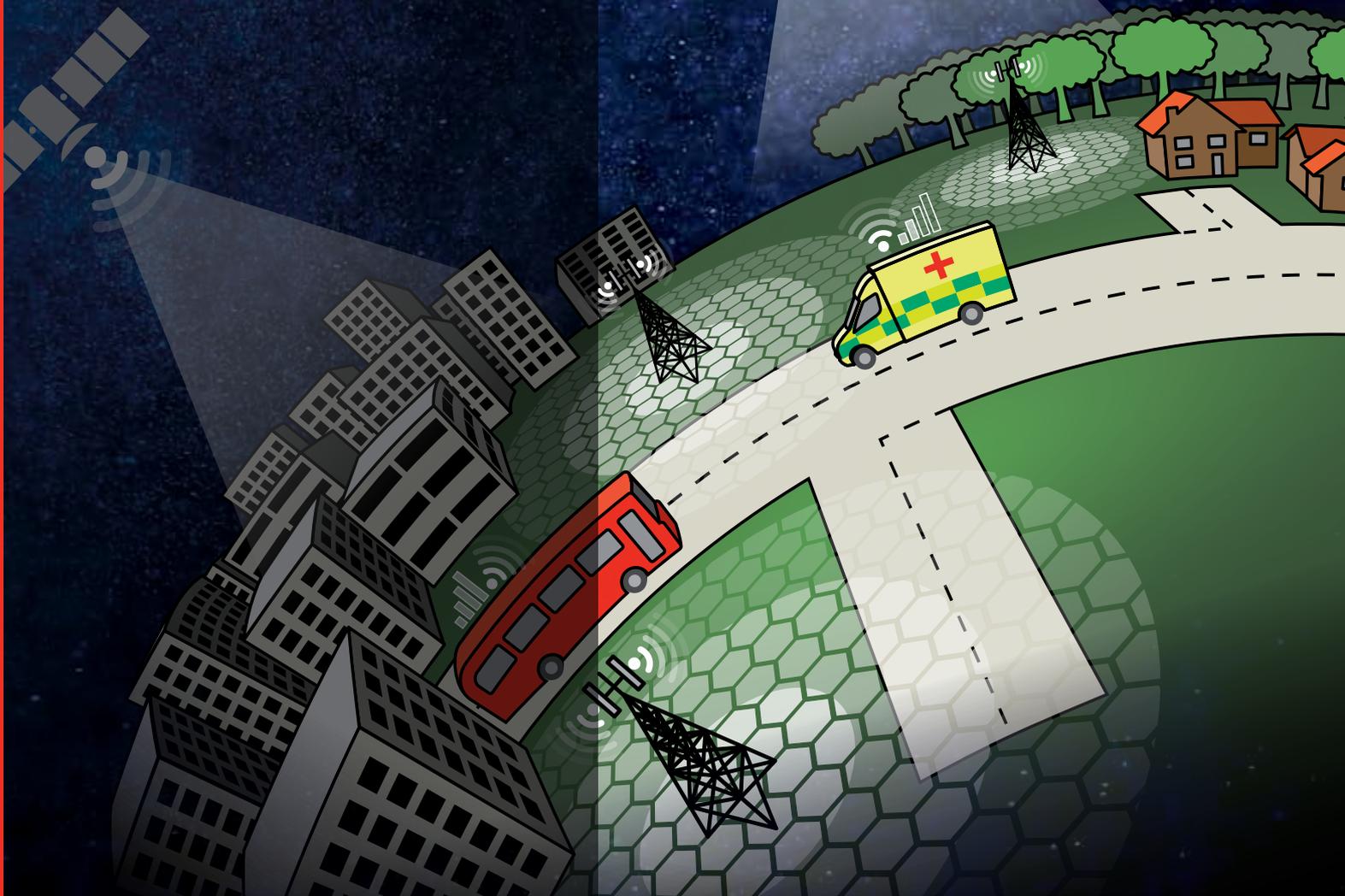


Satellite Applications

Connectivity
everywhere & 5G



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End-users can experience increased availability of connected services.

Seamless connectivity is key to the successful deployment and adoption of scalable Intelligent Transport Systems (ITS).

Connectivity everywhere & 5G



The Technology

Seamless connectivity provides communications links that are 'always connected', allowing end-users to experience unbroken connectivity in their applications and services. This ultimate level of connectivity is achieved through intelligent use of any communication network available to the user, be they terrestrial or satellite networks.

Seamless connectivity is key to the successful deployment and adoption of scalable Intelligent Transport Systems (ITS) services. By providing uninterrupted service, end-users on the move get much better value. What's vital to ensure this constant vehicular connectivity is the intelligent use of satellite and terrestrial networks (such as 3G, LTE and 802.11x).

The Facts

Users can enjoy applications and services that are always connected when these are provided using a combination of terrestrial and satellite communications technologies. However, each of these – whether satellite or terrestrial – has its strengths and limitations. The key is for them to be intelligently combined, thus providing the best connectivity solution to meet the relevant users' needs.

Seamless connectivity provides many benefits:

- delivers the high levels of robustness that are required for autonomous vehicle, cooperative ITS (C-ITS) and emergency and safety services
- not constrained by the limitations of any single technology and resilient to the unavailability of a particular network
- communications architecture is plug-and-play
- increased availability of connected services to end-users
- ensures critical safety services continue to save lives
- improved geographical coverage at no additional infrastructure cost.

A further benefit for ITS services is that seamless connectivity can increase their export potential, as they are operational through any communication technology.

Use Cases

Emergency Services Communication Network

Reliable communications from any location is an essential operational requirement for the emergency services. The availability of key and up-to-date information during an incident at any physical location increases efficiency of an intervention. Instead of a costly dedicated network, the combined use of a localised communication bubble along with commercial terrestrial and satellite networks is a cost effective solution.

Emergency Call (eCall) From Any Location

An ITS service for automated emergency calls needs to work straightaway because having key and up-to-date information during an incident increases the efficiency of an intervention. This level of service needs to be available at any physical location – whether in a city, a rural area or the wilderness. The combined use of commercial terrestrial and satellite networks to provide seamless connectivity offers the best chance for critical information to be transmitted from any location.

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