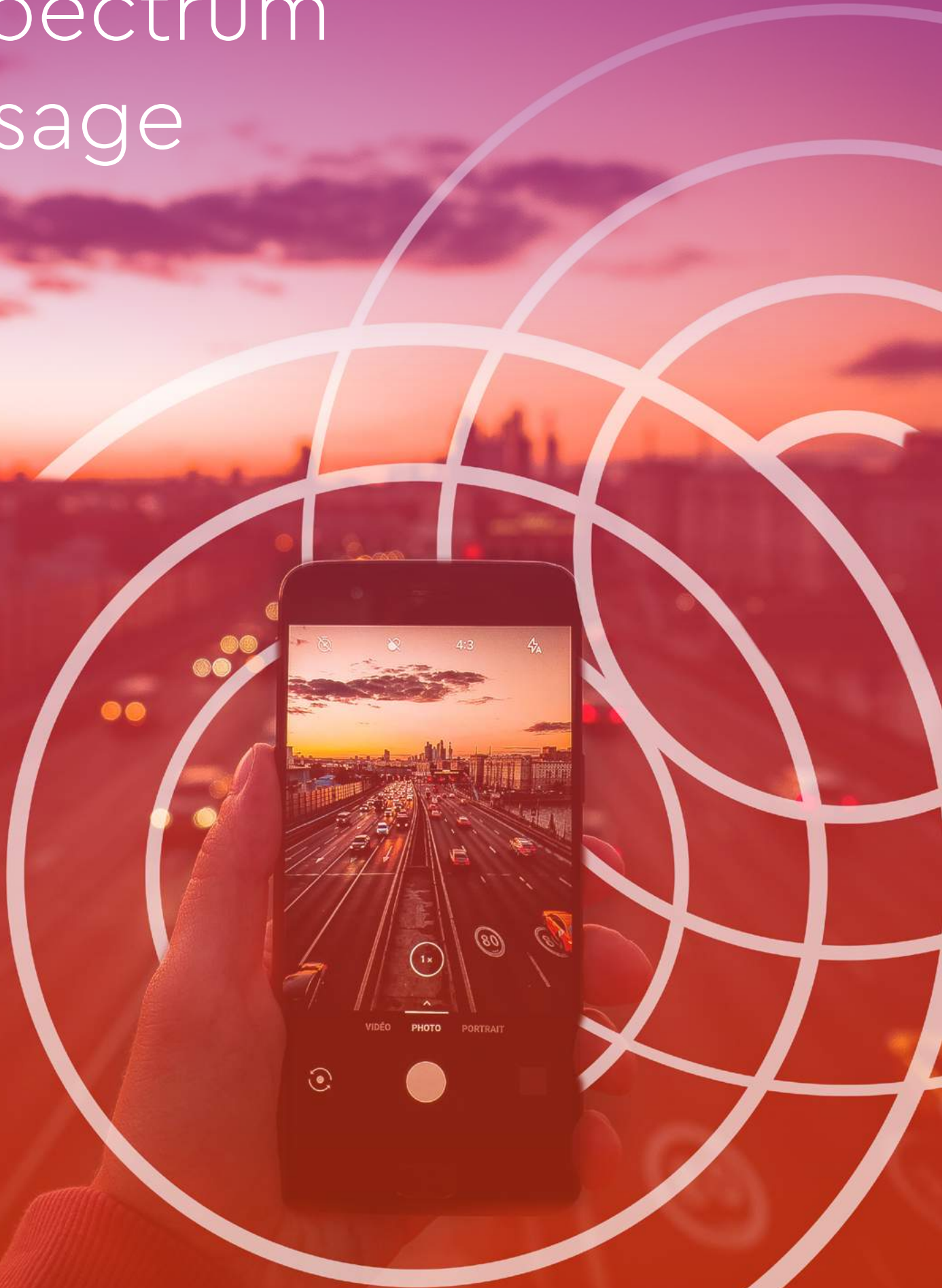


# Maximize spectrum usage







Understanding current and intended use, then managing access dynamically, means more efficient spectrum usage than allocating on a purely exclusive basis. Using a geolocation database with details of assets and rules, dynamic spectrum management enables spectrum to be allocated in real time, based on location, radio parameters and usage.

**WaveDB** by Nominet is a cloud-based system designed to answer the needs of network operators. The platform contains databases which ensure devices are successfully connected to the internet, utilizing underserved spectrum, while protecting existing rules— whether that's the rights of the incumbent MNO, or existing regulation for government deployments.

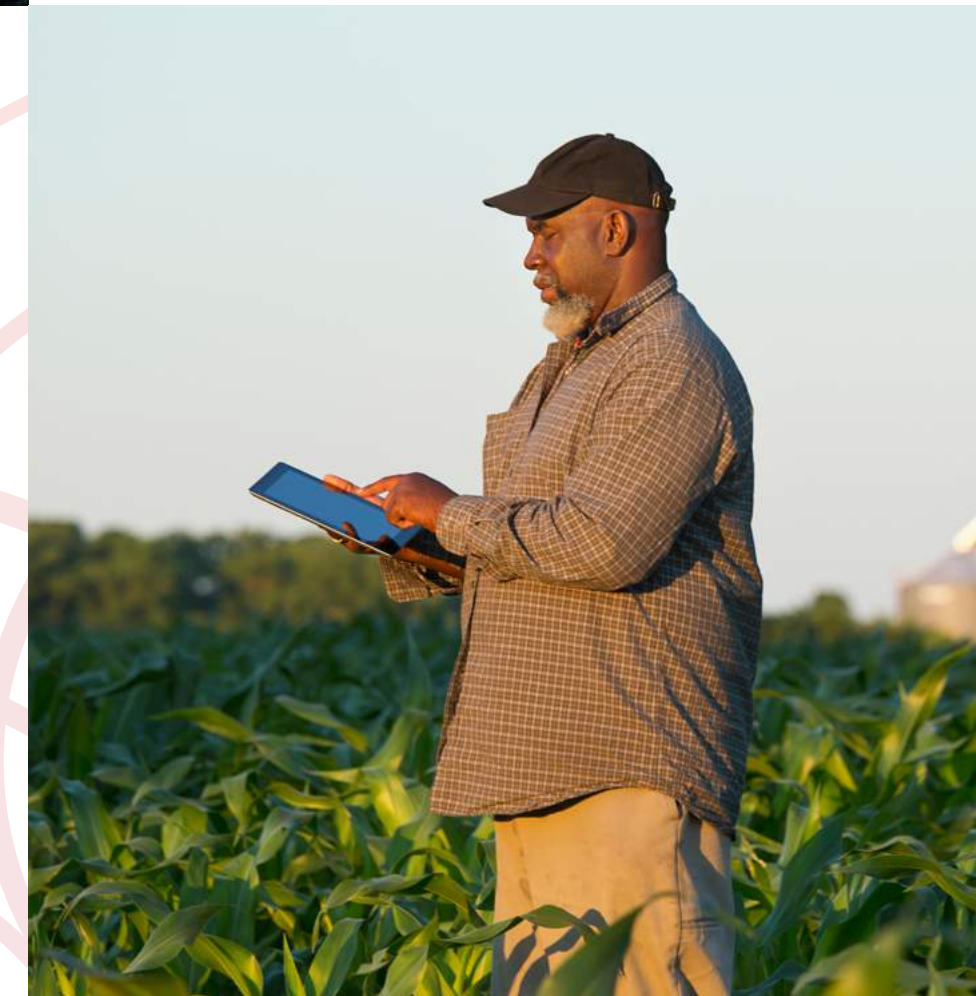
- Improve your return in investment by generating new revenue streams
- Mobilize unused spectrum
- Increase connectivity and coverage for all

Radio spectrum is a resource that underpins all wireless communications. Traditionally spectrum has been assigned through administrative licensing, enabling Network Operators to transmit over specific, exclusive bands. As the number of devices connected wirelessly increases and the uses expand, technology is needed to use spectrum efficiently.

### 5G demands new approaches to network deployment

5G is required to provide the data backbone of the economy of the future. As well as delivering high-bandwidth enhanced Mobile Broadband, 5G will turbo-charge the smart cities, autonomous vehicles and smart enterprises that will all be part of the Internet of Things (IoT).

In order to deliver these goals a radically different approach to network management is required. Under the current model a huge amount of spectrum is currently underutilized. This spectrum could be used to provide much needed services to under-served communities. Removing barriers to spectrum access will empower small local players to contribute to a nation's infrastructure and provide new services which are currently not financially appealing for the large MNO.





## NOMINET

Nominet is driven by a commitment to use technology to improve connectivity, security and inclusivity online. For 20 years, Nominet has run the .UK internet infrastructure, developing an expertise in the Domain Name System (DNS) that now underpins sophisticated network analytics used by governments and enterprises to mitigate cyber threats. Building on its database expertise accumulated by providing registry services for top level domains, Nominet has developed and runs Dynamic Spectrum Access databases for TVWS which have been approved by the FCC in the US and Ofcom in the UK. Nominet is also supporting pilots and trials in other parts of the world. A profit with a purpose company, Nominet supports initiatives that contribute to a vibrant digital future.



NOMINET  
**SPECTRUM**  
MANAGEMENT

Speak to Nominet to discuss leasing your spectrum, or spectrum management deployments.

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