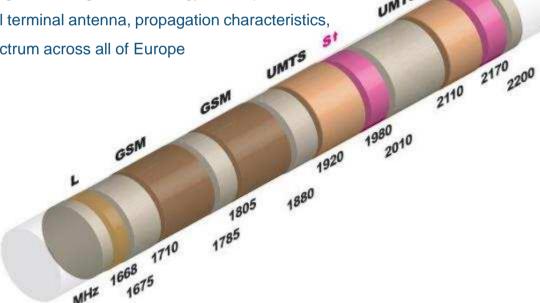


Assets - The Spectrum - Why So Special?

Mobile Satellite Services (MSS) in S-Band

- Directly adjacent to 2GHz UMTS Band 1 as used by 3G operators in Europe
- Configured as 30MHz in the forward direction and 30MHz in the return direction in six paired blocks of 5MHZ
- Ideal for mobile services leveraging off existing 3G technology development and network infrastructure – small terminal antenna, propagation characteristics, noise free environment, clear spectrum across all of Europe





Benefits of Europe-wide co-operation

- The Vision:-
- European wide cooperation on a single communications network
 - MSS S-Band spectrum is the only harmonised spectrum available today
- Coordinated terminal development generating high volume demand and greater economies of scale
- Harmonisation on communication protocols and technical standards
- Harmonisation across environment and modes of operation
 - Land
 - Sea
 - Airborne
- Requires leadership at an European Parliamentary level





Networks fit for the public safety

Public Sector reliant upon commercial mobile broadband networks

- Unprecedented demand from web enabled phones, pads, notebooks & laptops
- Enormous stress on the commercial networks resulting in data capping and highly controlled traffic management
- Existing networks cannot cope with increasing demand for capacity to stream video and audio on a one-to-one basis
 - Several examples already of complete network failure due to simultaneous demand
- Networks operators seeking to increase spectrum holding and migrate to LTE to meet demand, but;
 - High cost of deploying new infrastructure in new bands 2.6GHz (new terminals)
 - Cherry picked areas driven by business profile
- Expect a slow roll-out in a geographically fragmented way nationally and European-wide





How it works Complements existing PMR voice communications networks S-BAND TERRESTRIAL REPEATER (CGC) HUB STATION HANDSETS & VEHICULAR HYBRID PMR TERMINALS PRIVATE NETWORK PMR BASE STATIONS CORPORATE HQ PMR IP BACKBONE

Purpose Based Infrastructure

All Europe/EU Coverage

- EU wide services
- Satellite transport
- · One to Many optimized
- Only valid option for Sea and Airborne
- DVB-SH/ESSA based
- High Level structures

Member State Coverage

- Terrestrial transport
- · Broadband optimized
 - S-band 3G or LTE standard
- One to Many support through DVB-SH repeater
- Covering EU member state land
- Less Detailed structures

Hot Spot or City Coverage

- Low Tower transport
- Dense Broadband optimized
 - S-band LTE
- Preferable on dense city
- Highly detailed structures

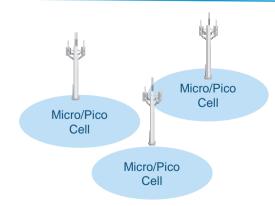


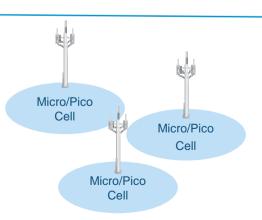


Satellite



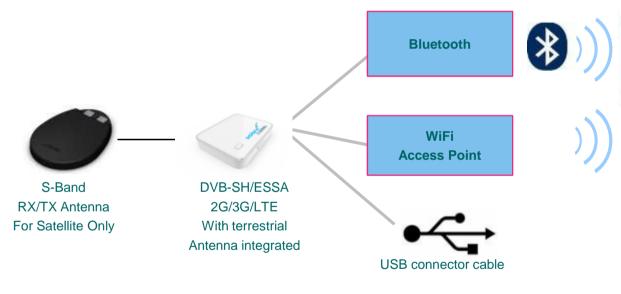






Integrated S-band DVB-SH & LTE Gateway









Regular Consumer Devices
Or
Regular Rugged
Devices



Public services, safety and security

Effective, immediate and reliable mobile communications during times of critical needs

Solaris Mobile can provide capacity for authorities and civil protection

- "Always on" and ubiquitous wireless connectivity during time of emergencies
- High-capacity and highly secure communications over IP networks
- Monitoring rescue operations in isolated regions and extreme conditions
- Communications in the event of immobilisation of terrestrial networks

Solaris Mobile offers the opportunity for the first time for a single unified IP network for public services in all EU member states for air, sea and land based services









