

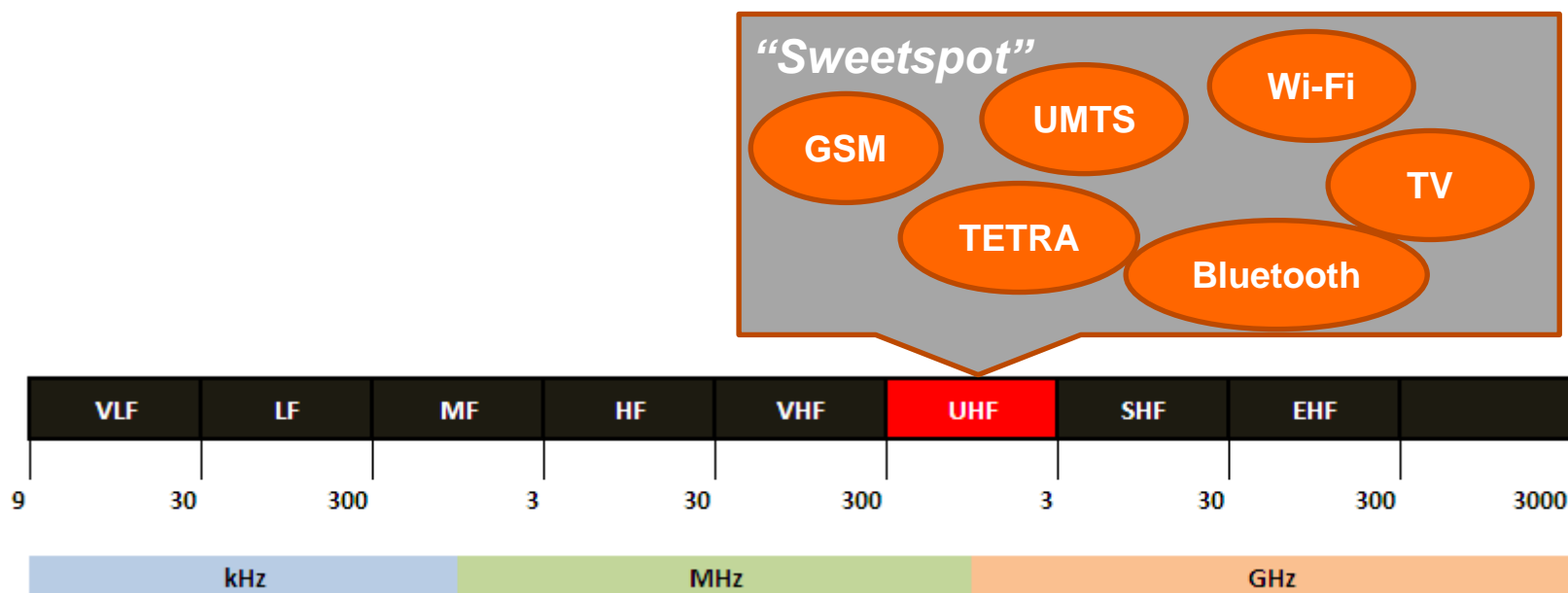


LSA Concept

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- "Set of electromagnetic waves with frequencies between 8.3 kHz and 275 GHz (from 275 GHz to 3000 GHz, and below 8.3 kHz is not allocated), propagating through space without artificial guides"



More coverage ←

Less coverage →

- Attributed / used by different radiocommunication services (e.g. fixed, mobile, broadcasting, radiolocation, etc.) and also licence exempt

INDIVIDUAL AUTHORISATION

Radio license

Protection against
interferences

With license costs

E.g. PP links, mobile services

LSA

GENERAL AUTHORISATION

License exempt

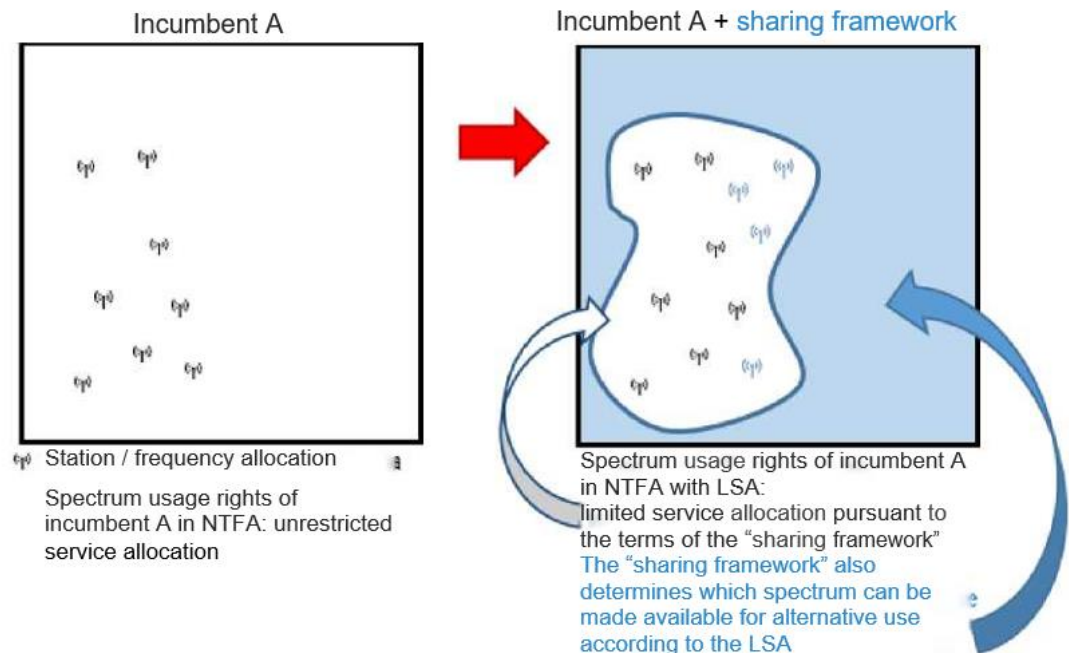
Non-protection non-
interference basis

Shared spectrum, non
exclusive

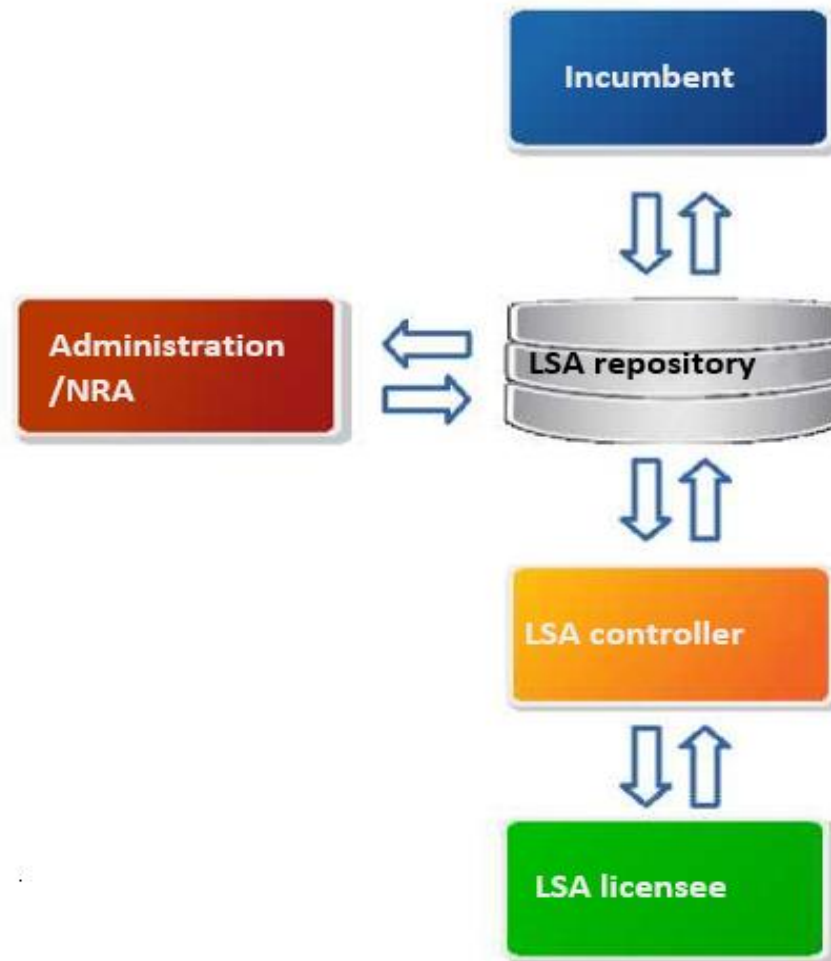
Without license costs

E.g. Bluetooth, Wi-Fi, PMR446

- “A **regulatory approach** aiming to facilitate the introduction of radiocommunication systems operated by a limited number of licensees under an individual licensing regime in a frequency band already assigned or expected to be assigned to one or more incumbent users. Under the LSA framework, the additional users are allowed to use the spectrum (or part of the spectrum) in accordance with sharing rules included in their rights of use of spectrum, thereby allowing all the authorized users, including incumbents, to provide a certain **QoS**”.



LSA FUNCTIONAL BLOCKS



LSA IN THE 2.3 – 2.4 GHz

- **Decision ECC (14)02**, “Harmonised technical and regulatory conditions for the use of the band 2300-2400 MHz for Mobile/Fixed Communications Networks (MFCN)”

TDD (MHz)																			
2300 MHz 2305 MHz	2305 MHz 2310 MHz	2310 MHz 2315 MHz	2315 MHz 2320 MHz	2320 MHz 2325 MHz	2325 MHz 2330 MHz	2330 MHz 2335 MHz	2335 MHz 2340 MHz	2340 MHz 2345 MHz	2345 MHz 2350 MHz	2350 MHz 2355 MHz	2355 MHz 2360 MHz	2360 MHz 2365 MHz	2365 MHz 2370 MHz	2370 MHz 2375 MHz	2375 MHz 2380 MHz	2380 MHz 2385 MHz	2385 MHz 2390 MHz	2390 MHz 2395 MHz	2395 MHz 2400 MHz
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

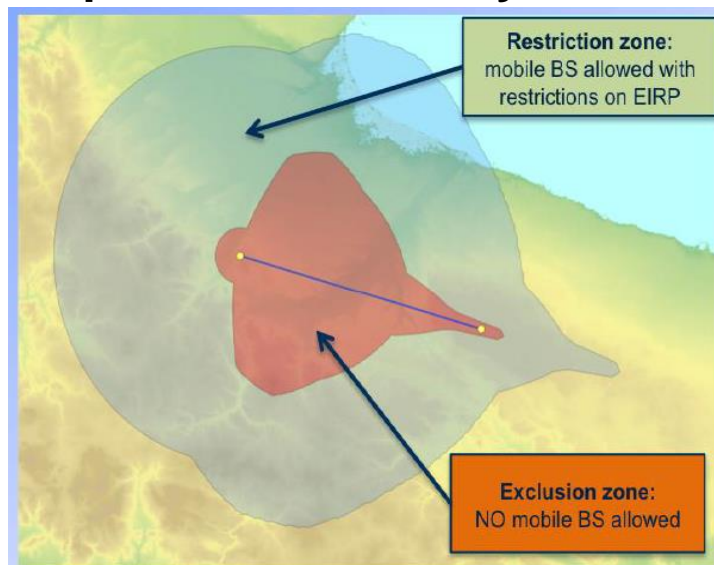


at any time and in any place, within the national territory

- ECC PT1 is reviewing the conditions to allow 5G in this frequency band

- In CEPT countries, the band 2300-2400 MHz is currently used by the following systems/services:
 - Telemetry (both terrestrial and aeronautical telemetry);
 - Other governmental use (e.g. Unmanned Aircraft Systems (UAS));
 - Programme making and special events (PMSE) applications (SAP/SAB video links);
 - Amateur, as a secondary service.
- The requirements to be defined for access to spectrum through the LSA will necessarily have to be **adapted to the reality of each country**, taking into account incumbent uses

- E.g. : Italy LSA project
(protection of fixed service)



Thank you