FUTURE PPDR

ECC WORKSHOP
NEW SPECTRUM SOLUTIONS FOR INDUSTRY SECTORS

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www.psc-europe.eu
PART MAN, PART MACHINE, ALL COP.

THE FIRST RESPONDER OF THE FUTURE?
FICTION vs. REALITY?

✓ Body Worn Sensors / Body Worn Cameras

? but x-thousands of them! x-hundreds streaming at the same time & place!

? Body Worn Networks

? Permanent Mobile PPDR Networks in Vehicle

? Influencing V2V / traffic management
FICTION vs. REALITY?

✓ Drones

? => Swarms of Micro-Drones streaming

? Communication Indoor
   ! No matter what quality of the walls
   ! Not only 1st room indoor

? Robotics
FICTION vs. REALITY?

Inter-/Cross-Connect with:

? A2G – Air to Ground
? Mission Critical Maritime
? All Mission Critical Infrastructures

! NO BORDERS BETWEEN ORGANISATIONS OR COUNTRIES
THE BUZZ-WORDS

? IoT / IoPST  ? WHAT
? Big Data     ? WILL
? AI – Artificial Intelligence  ? THEY
? AR – Augmented Reality       ? BRING
? VR – Virtual Reality         ? …
? …                      ? ???
SPECTRUM - PRE-CONDITIONS

• DEDICATED ALLOCATION FOR PPDR

• NO BORDERS BETWEEN ORGANISATIONS OR COUNTRIES

• Surrounded by commercially used spectrum => chipset manufacturing !!

• **EU-wide harmonised decisions**, not national individual solutions in a framework of options

• If needed „invisible“ for other operators
PPDR had issued a „requirements matrix“ (a.k.a. Law Enforcement Matrix) pre-WRC‘15

Input to FM WG54 => 700 MHz discussion / decision

PSRG decision (2019-04-10):

- Work to update within ~1 year
- Consolidate with other PPDR fora (PSCE, TCCA, EENA, …)
- Deliver to ECC (and ETSI)