

FUTURE PPDR

ECC WORKSHOP

NEW SPECTRUM SOLUTIONS FOR INDUSTRY SECTORS

2019 05 02 - COPENHAGEN



Manfred BLAHA, BA, eng.

Brigadier-General

 Federal Ministry
Republic of Austria
Interior

Austrian Ministry of the Interior

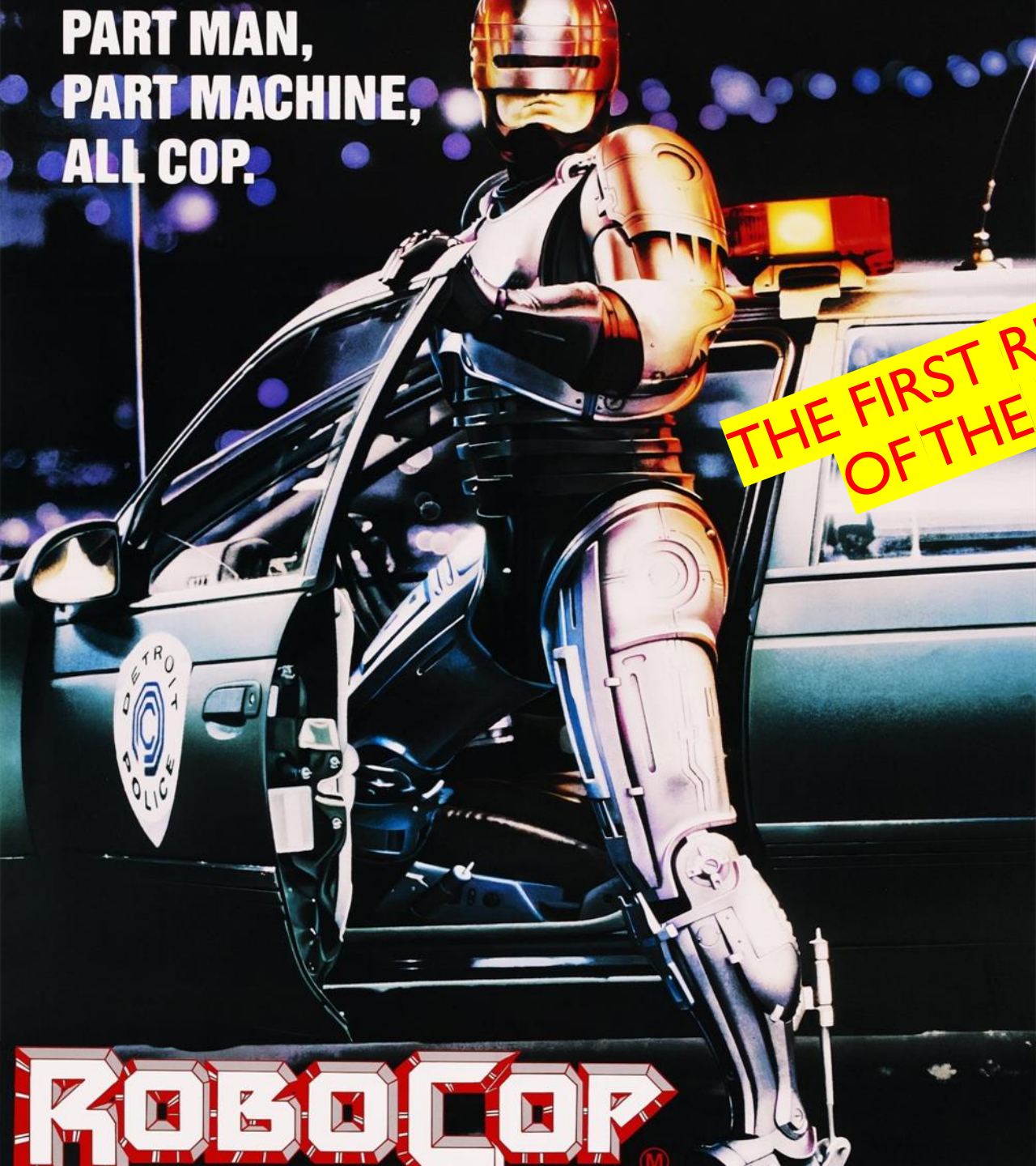
Chair of the PSRG (Public Safety
Radiocommunications Group)



Chair of the User Committee in PSCE
(Public Safety Communications Europe)

www.psc-europe.eu

**PART MAN,
PART MACHINE,
ALL COP.**



**THE FIRST RESPONDER
OF THE FUTURE
?**



ROBOCOP

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

? Big Data

? AI – Artificial Intelligence

? AR – Augmented Reality

? VR – Virtual Reality

? ...

? WHAT

? WILL

? THEY

? BRING

? ...

? ???

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

REQUIREMENT MATRIX

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)