

LTE is the Future Single Global Standard for Critical Communications

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TETRA + Critical Communications Association

Critical Communications



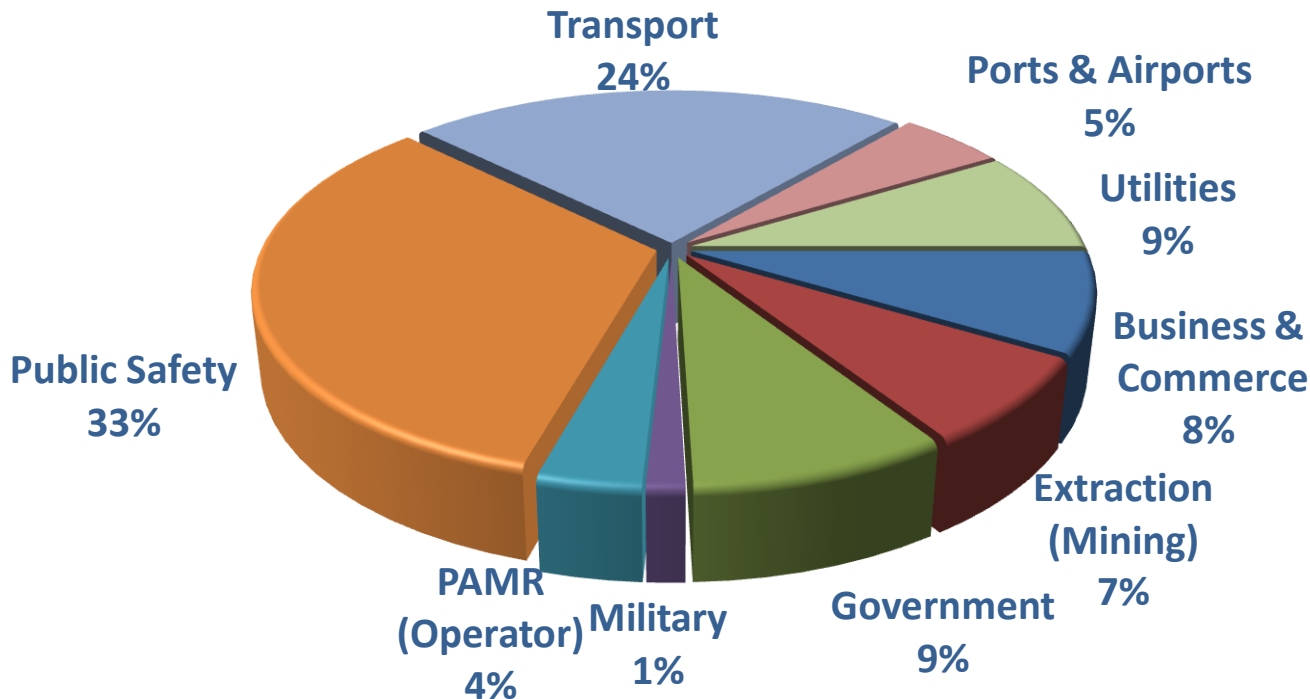
Defined to satisfy the needs of those that work in groups and therefore need to communicate in groups.

- *Mission Critical users*
- *Business Critical users*

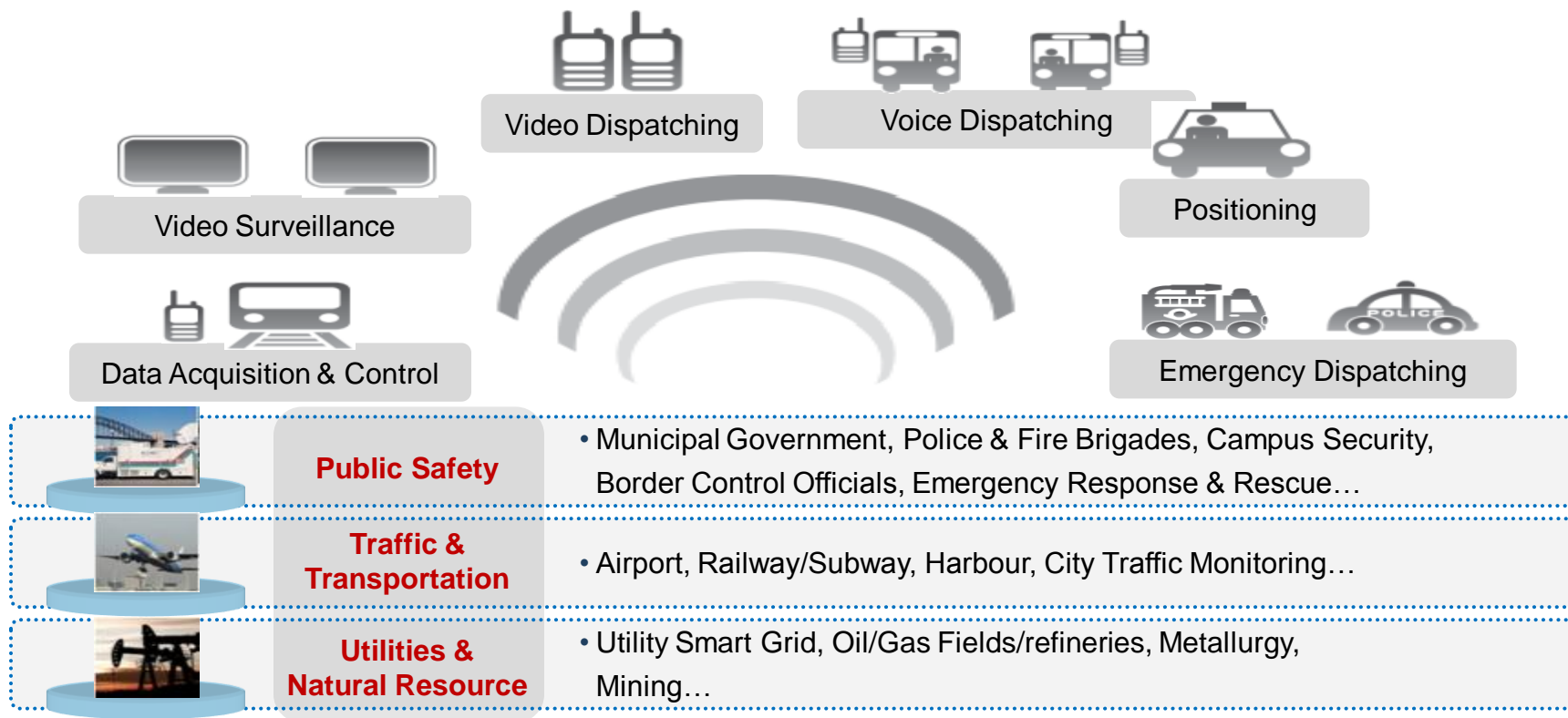


Who uses Critical Communications today ?

By sector



Huge Data Service Requirements



Data and Applications

**Process control
Resource
management
Task
management**



**Operational
efficiency**

**Instant image
transfer**



**Rapid
information
sharing**

**Integrated
visual
monitoring
Sensing**



**Increased
operation
safety**

**Field
documentation
and reporting**



**Operational
efficiency**

**Documentation
access,
Advanced location
based applications**



**Free
mobility**

**Surveillance
Sensing**



**Increased
security**

Why Do We Choose LTE ?

- ✓ 4G, future evolution of wireless technologies
- ✓ High bandwidth, 100Mbps@DL and 50Mbps@UL
- ✓ Higher Spectrum efficiency
- ✓ One network for multiple services(voice, video and data etc.)
- ✓ Lifetime costs and lifetime benefits





LTE Meets Requirements of Future Critical Communication

Roles	Scenario	Service and Bandwidth	
Police Commander Firemen Ambulance Negotiator Special Weapons and Tactics (SWAT)	Daily patrol Critical Incident Disaster Relief Security of major event	Professional Trunking	<10kbps
		Video Surveillance	2-4M per user
		Multimedia Dispatch	2M per user
		Illegal Park Record	1M per cell
		Identification Data Query	512K per cell
		Spot Fine	512K per cell
		LBS	128K per cell
		



Protecting Our Citizens and Saving Our Life

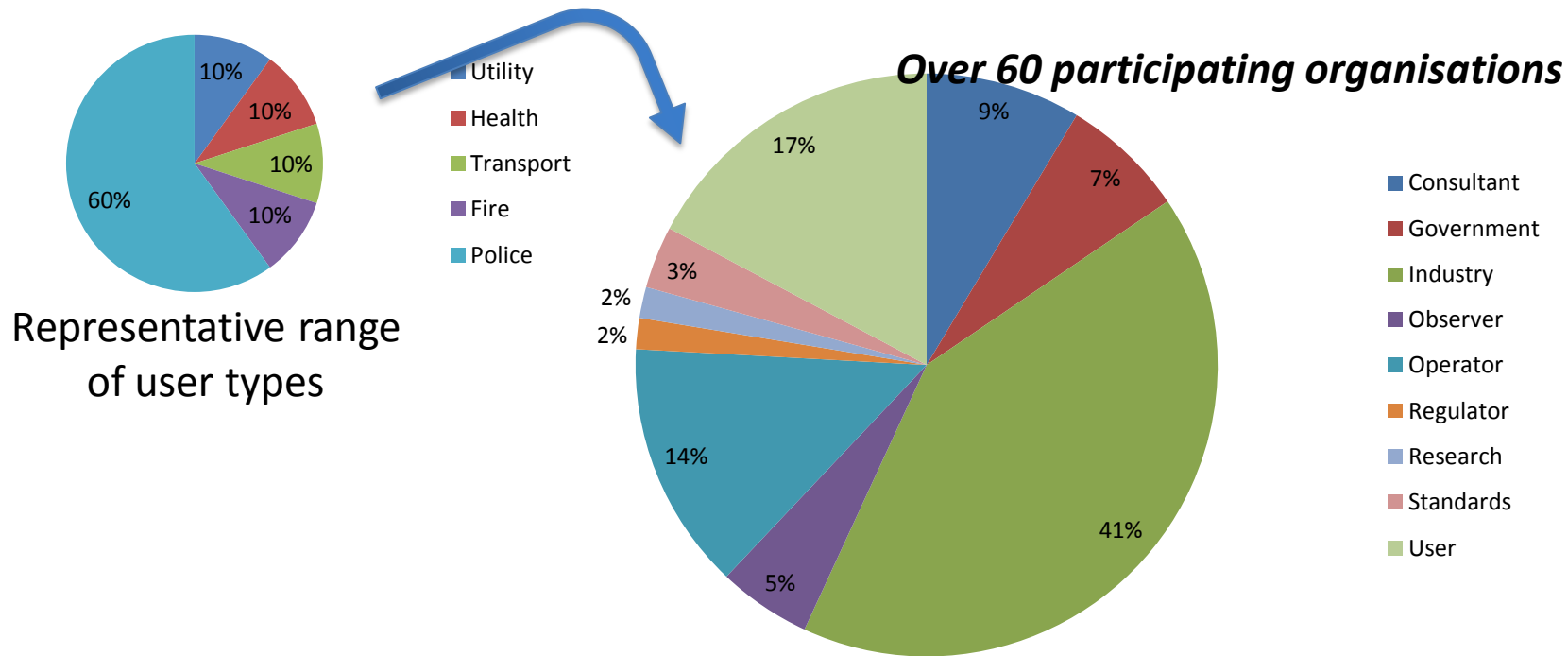


CCBG Founded by TCCA in 2012

- Critical Communications Broadband Group
- Created to drive the development of harmonised standards for:



CCBG Participants



CCBG Objective

- Objective
 - *To create a common standard for Mission Critical Broadband for use worldwide*
 - *To achieve harmonised spectrum for the users of critical communications*
 - *To maintain an open and competitive market*



International Collaboration

- National Public Safety Telecommunications Council (**NPSTC**)
- National Institute of Standards and Technology (**NIST**)
- APCO Global Alliance (**APCO**)
- Public Safety Communications Europe (**PSCE**)
- UK Home Office
- German Police (**BDBOS**)
- China Communications Standards Association(**CCSA**)
- And others

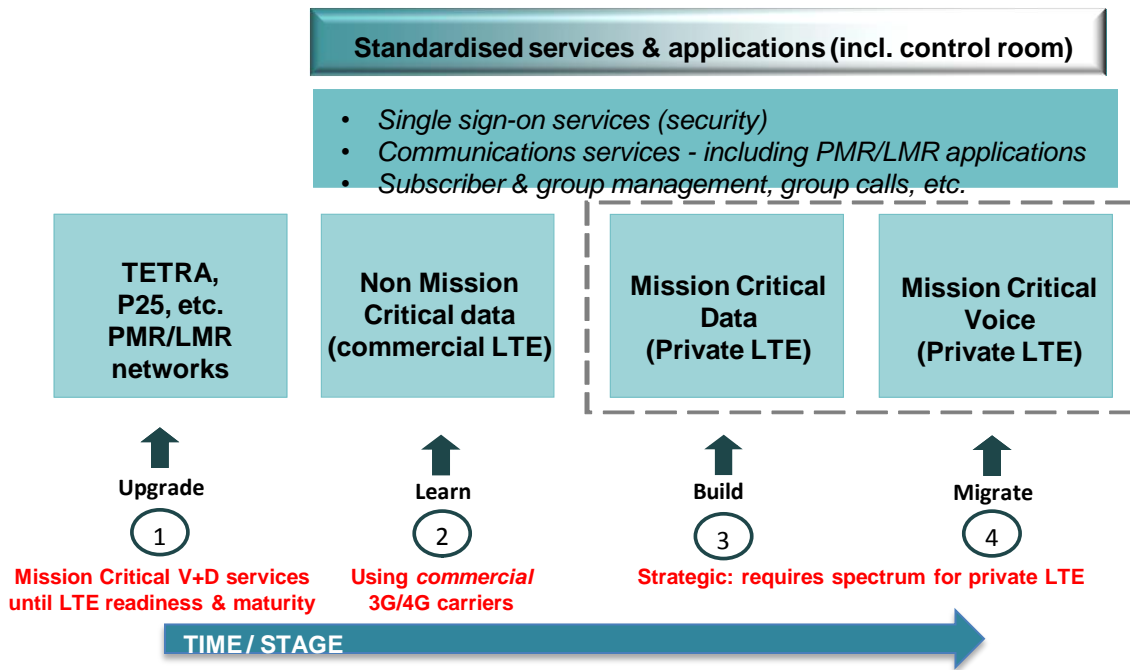


Working with 3GPP for Mission Critical Broadband

- To be based on LTE
- Some requirements cannot be met by current 3GPP LTE standard
 - *Group based working*
 - *Device to Device*
 - *Resilient Base Stations*
- Project in TC-TETRA and Critical Communications Evolution (**TC-TCCE**)
- Established a relationship with 3GPP(*Who are receptive to the needs of Critical Communications Users*)
- Objective is to have core functionality include for **Release 12** of the LTE standard



A Service Evolution Continuum





LTE is The Future Single Standard for Critical Communication

- We believe that LTE is the future single global standard for critical communication and will offer the best broadband data services and eventually voice services to critical users.



CCBG White Paper



- Information & guidelines for users, operators & others considering implementing mission critical mobile broadband services.
- Sets out predicted timeframe for availability of suitable standards & equipment.
- Outline roadmap for LTE as a technology evolution for TETRA & other existing mission critical systems.
- Download today at:
www.tandcca.com/Library/Documents/CCBGMissionCriticalMobileBroadbandwhitepaper2013.pdf



Huawei's Participation in TCCA will Promote Progress of LTE Trunking



Huawei Technologies Co Ltd

TETRA + Critical Communications Association Member 2012

Critical Communications for all Professional Users

www.tandcca.com


Phil Körner - Chief Executive

- Key to the success of our standardisation activities is participation from our industry Members
- Huawei is a major player in global LTE and his participation in TCCA will greatly promote the progress of LTE trunking standardisation and commercial usage





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Thank You

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