



***Phil Godfrey***

Chairman

TETRA + Critical Communications Association



# TETRA

- Created by the European Telecommunications Standards Institute
- Provides a digital technology for the users of analogue PMR radio
- Defined to satisfy the needs of:
  - *Mission Critical users*
  - *Business Critical users*





# *User categories*

- Shared Commercial Networks
- Public Safety
- Utilities
- Transport
- Fuel and Power Generation
- Mining
- Security and Paramilitary





# ***TETRA Association***

- Created in 1994
- Objective:
  - *To promote TETRA technology worldwide and facilitate an open and competitive market using our Interoperability Process (IoP)*
- TETRA now present in 125 countries
- Accepted as the primary standard for  
Mission Critical Mobile Communications



# ***TETRA shipments***

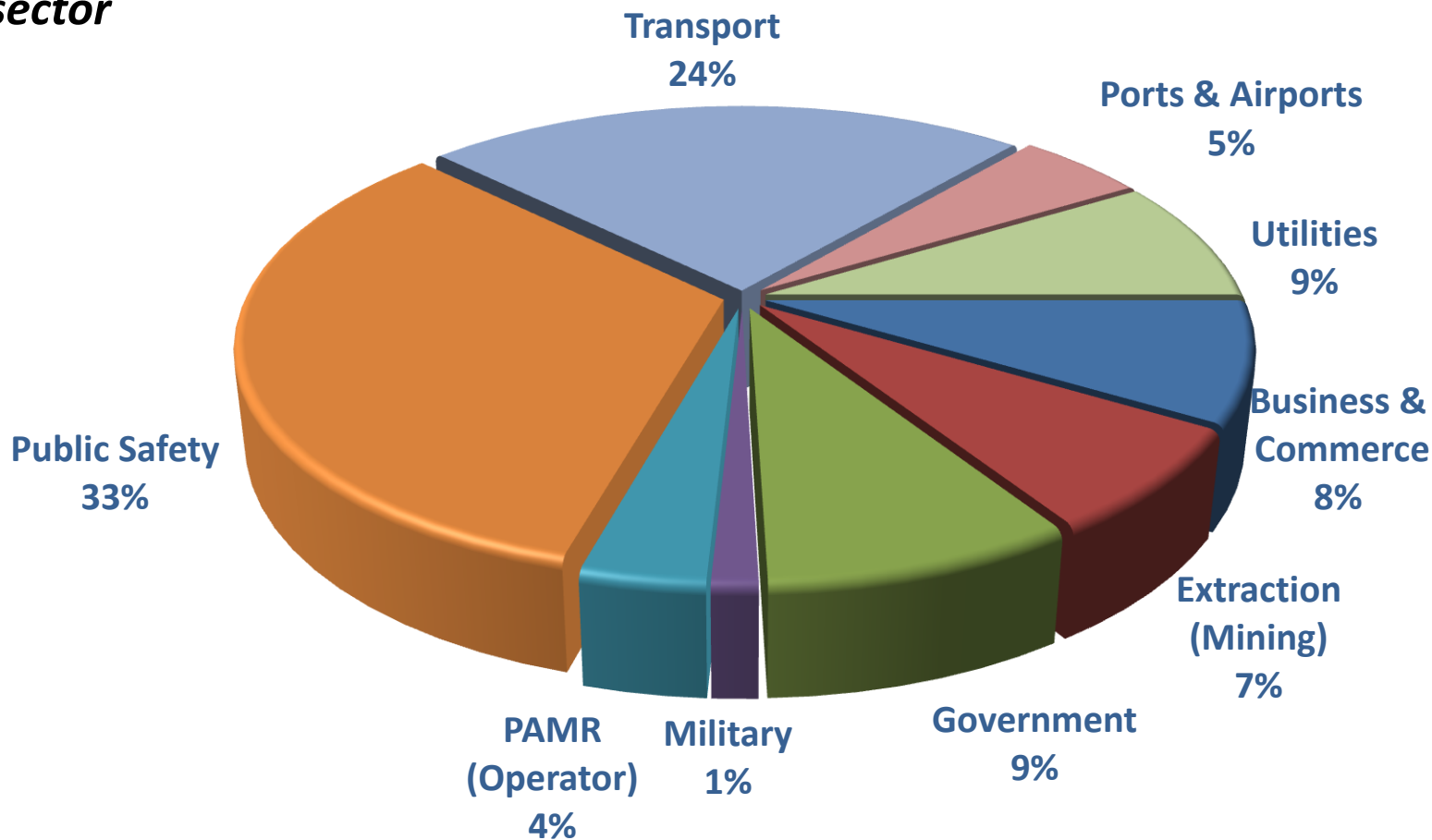
- 2010 a record year for terminal shipments  
*(IMS analysis)*
- Deployment of new networks up 6%  
*(TETRA Association)*
- Including significant extensions up 8%  
*(TETRA Association)*



# 2011 Analysis by sector

## Installed Systems

by sector





# *Name Change*





# Mobile Data

## Mobile Broadband





# *Name Change*





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- How to join
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- Member log in



Interviews with Phil Godfrey



The evolution of critical communications



TETRA today and tomorrow

TETRA for North America workshop

The TETRA for North America workshop will be presented by Members of the TETRA and Critical Communications Association and will show, through the use of case studies, how TETRA has been successfully deployed in a number of sectors around the [Read more ...](#)



Leading TETRA manufacturer, TELTRONIC...

Following the recent signing of a comprehensive framework agreement, TELTRONIC will work together with SAPURA to build the largest TETRA network outside Europe and develop innovative [more ...](#)

TELTRONIC repeats its success with Lima Electric...

The Electric Train Consortium, made up by the Brazilian company Odebrecht (67%) and Peruvian Graña y Montero (33%), has recently chosen TELTRONIC to supply the radio communications system for Phase 2 [more ...](#)

TELTRONIC awarded important TETRA contract...

Following a productive period of collaboration and testing with Warsaw Metro, TELTRONIC has once again been able to demonstrate the superiority of its TETRA technology for the rail transport sector [more ...](#)

Meet the Members



Next 3 events

TETRA for North America workshop  
21 Feb 2012 >>>

Critical Communications Group (CCG)  
13 Mar 2012 >>>

British APCO Annual Exhibition and ...  
16 Apr 2012 >>>

[All events >>>](#)



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# TETRA in North America

- Working to overcome minor technical issues
- Industry issues
- FCC progress
- FCC progress





# ***Narrowbanding Requirements***

From FCC Notice of Proposed Rulemaking  
April 26, 2011:

*Because TETRA equipment operates with the required efficiency, we believe it is in the public interest to authorize this option for licensees that are subject to these narrowbanding deadlines.*



# TETRA Data

- Release 1 data services
  - *Status messages*
  - *Short Data Messages (SMS)*
  - *Circuit mode data*
  - *Packet mode data*
  - *Data rates up to 28.8 Kbit/s*
- Release 2 data services
  - *TETRA Enhances Data Services (TEDS)*
  - *Data rates up to 538 Kbit/s*



# ***TEDS***

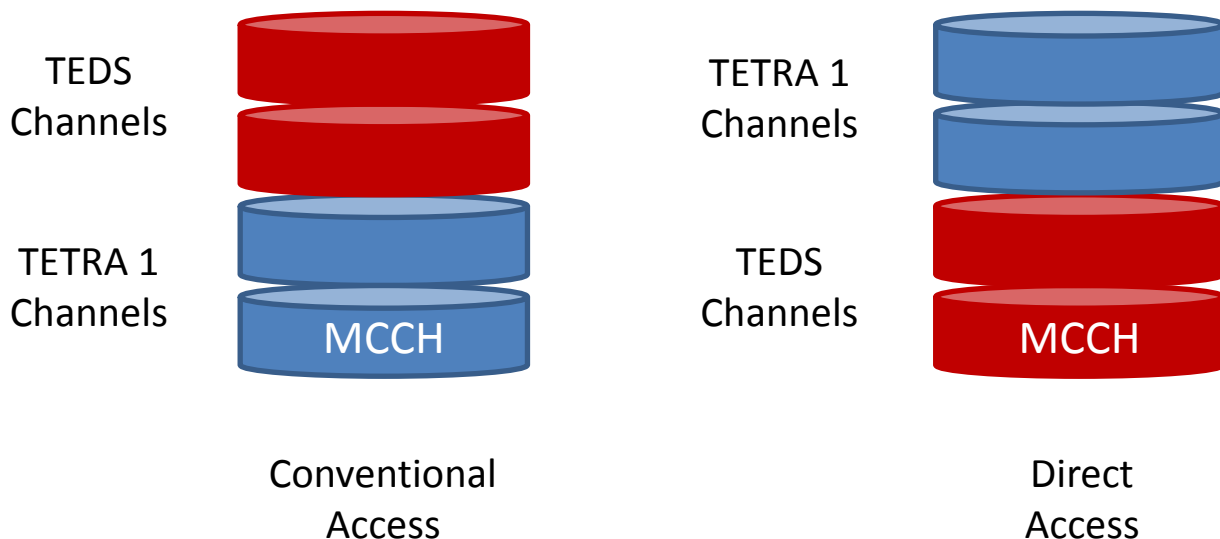
## TETRA Enhanced Data Services



Resolution 5000 x 3500 px - free download - [www.psdgraphics.com](http://www.psdgraphics.com)

# Direct Access TEDS

Direct Access allows QAM channels to act as Main Control channels  
This speeds up access for TEDS transactions





***Thank You***

