

SUPERCOMM

2003

Atlanta, Georgia

June 2, 2003

Wideband Data

A Public Safety Perspective

Project
MESA





For More Information See

www.projectmesa.org



Project MESA is a
Cooperative Effort between
Industry and the Public
Safety Community



The US Federal Bureau of
Investigation (FBI) had been
working with the EU regarding
Public Safety and Law
Enforcement Matters



APCO Project 34 Produced
a Users' Statement Of
Requirements (SOR) for
High-speed data
applications
and services



The APCO P34 SOR was reviewed
by ETSI - DAWS and
they found a very high
degree of commonality with the
European requirements for Digital
Advanced Wireless System (DAWS)



Public Safety Partnership
Project (PSPP) Standards
Development Organizations
Are:



European Telecommunications Standards Institute (ETSI)



Telecommunications Industry Association

(TIA)



The Public Safety Community in Europe and North America



Objective: Create Specifications
and eventual Standards for Digital,
Wireless, High-speed Mobile and
Portable Communications Systems



High-Speed = 2 Mega
Bits or Greater
(beyond 3G data rates)



Types of Communications Services MESA Specifications

**will be written to include,
but not be limited to:**



**Transport of all High-speed
Data**

Two-way Voice

Near Full-motion Video

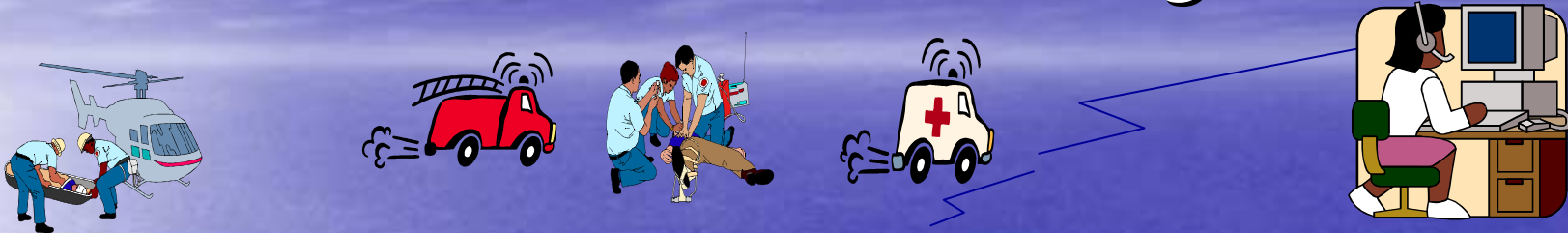
Color and Black & White Video



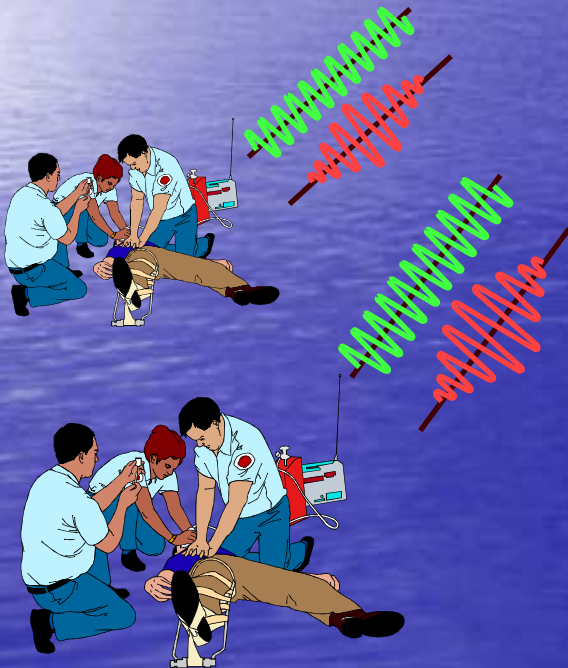
One Standard
Thousands of Applications
Millions of Users
Developed in a Partnership

Disaster Management

Remote Patient Monitoring

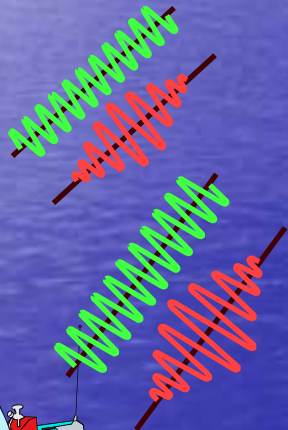


**Frontline Medical
Assistance
by Broadband
Wireless**



Disaster Management

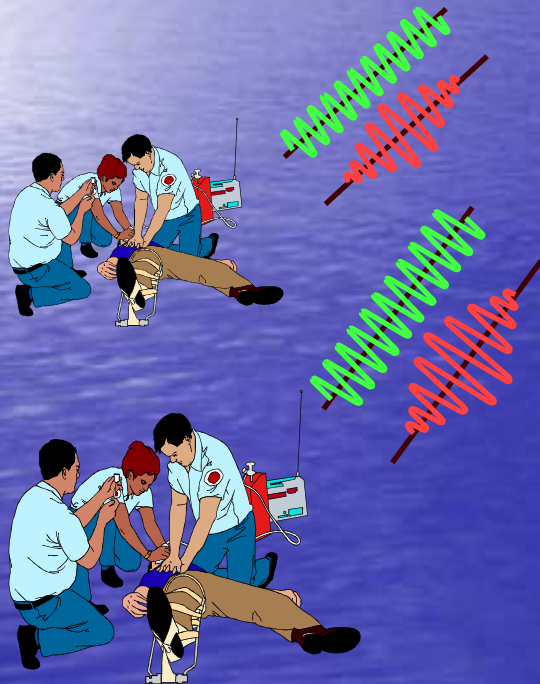
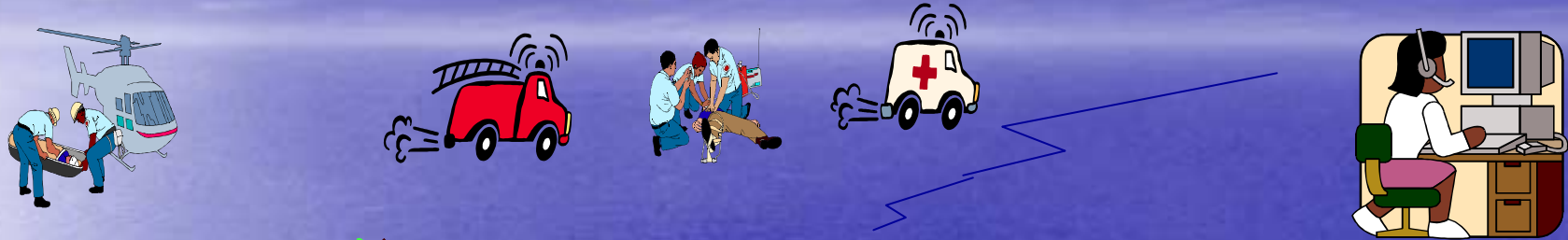
Remote Patient Monitoring



**Video on-line for
physician
assistance**

Disaster Management

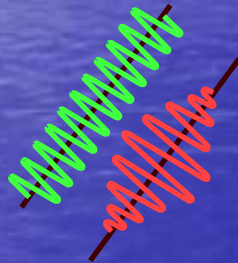
Remote Patient Monitoring



Triage enroute

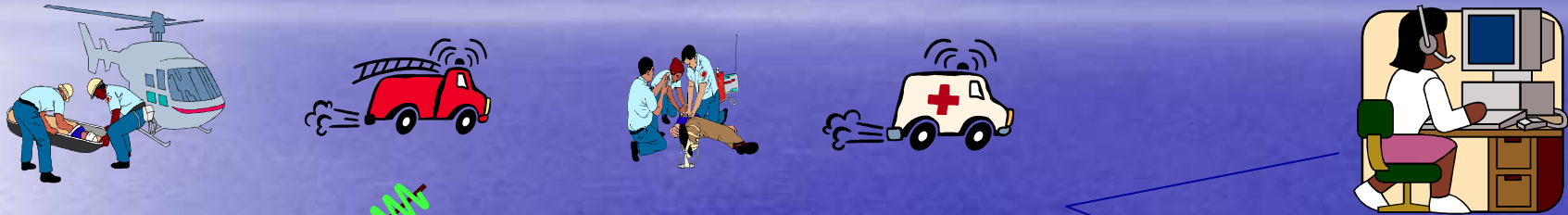
Disaster Management

Remote Patient Monitoring



**Electro
Encephalographic
data (EEG), Electro
Cardiograph (ECG)**

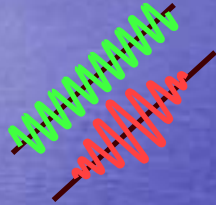
Disaster Management *Remote Patient Monitoring*



Blood Pressure

Disaster Management

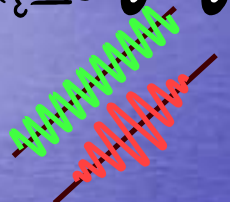
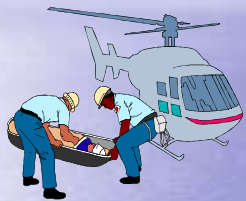
Remote Patient Monitoring



Temperature

Disaster Management

Remote Patient Monitoring



Remote Chemical Analysis

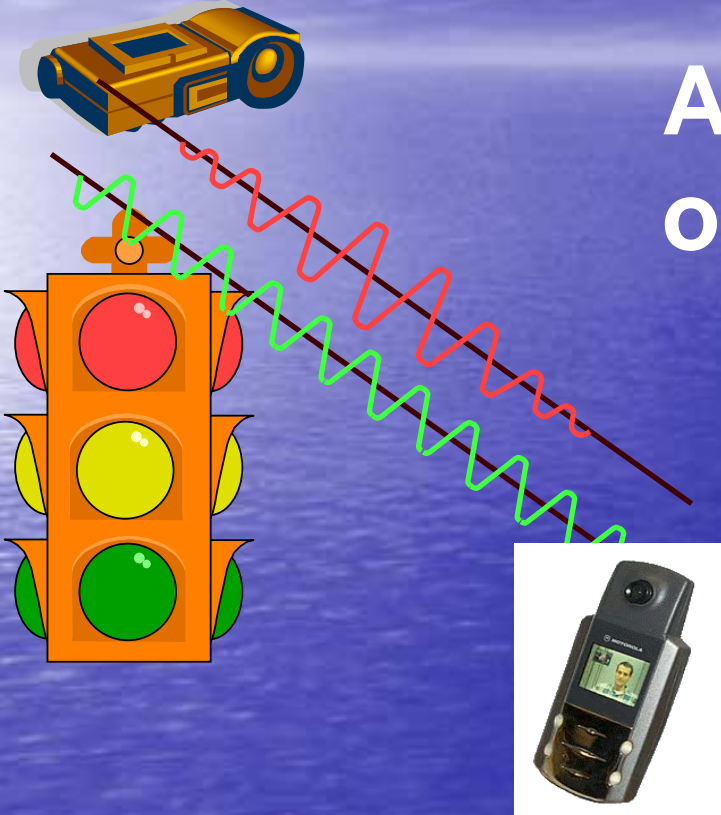


Camera's Calling



Automatic Recognition on Detection of

- Sound
- Image
- Movement
- Material
- Radiation

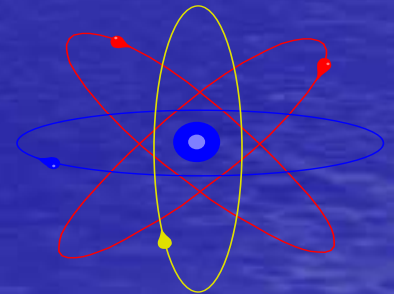




Mobile Robotics



Automated inspection of non-accessible areas





Mobile Robotics

**Rescue of people from
hazardous areas
Anti-terrorist actions**



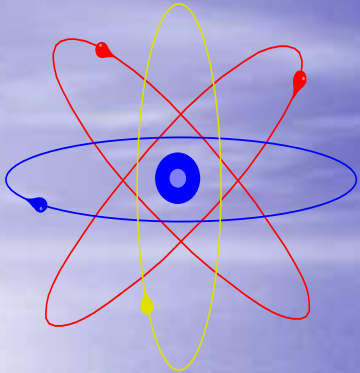
Mobile Robotics

**Incident response, both
tactical and non-tactical**



Mobile Robotics

Urban Warfare

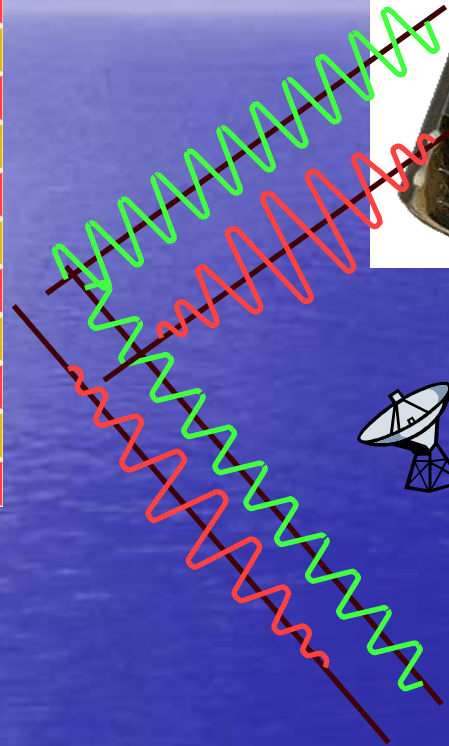


Mobile Robotics

HazMat Handling

Airborne Control

Broadband out there





Terrestrial support in a SATCOM Scenario

2 MBPS Uplink



64 MBPS Downlink Mobile Broadband Repeater Remote Disasters



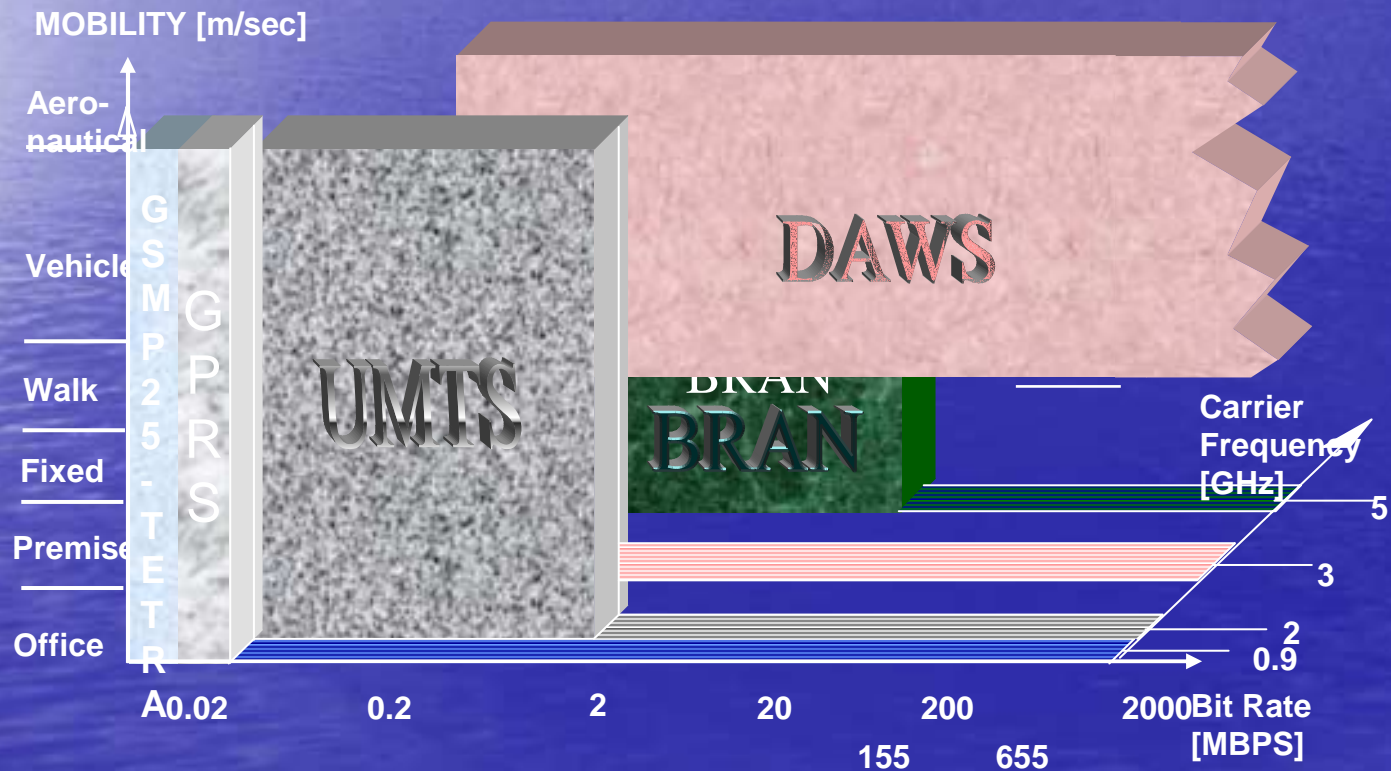
Evidence-gathering
Surveillance
Remote-sensing
Search & Rescue

Traditional and New Platforms



“Together - a perfect match”

Wireless Standardization



Conclusions



Government and Industry
Cooperation brings about
Possibilities!

Conclusions



The opportunity exists
today to advance mobile
communication
capabilities!

Conclusions



Global Cooperation
Global Markets
Global Partners

Conclusions



All Disciplines of Public
Safety Community and the
Citizens They Serve will
Benefit!

PARTNERSHIP



Public Safety Community

