

*Introduction to*

Priority Communications Workshop

Bratislava, Slovakia

23 September 2008

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## Outline of Introduction

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- Overview of the EC ARECI Study
- Overview of the IEEE, Communications Society and CQR

## EC ARECI Study - Introduction

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Purpose of the Study:

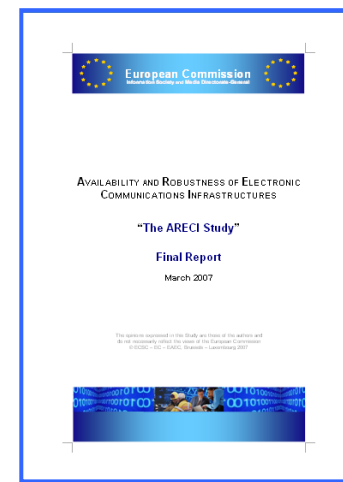
Provide guidance on how to make Europe's networks more available and more robust

## EC ARECI Study - Executive Summary

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### *Summary Statistics*

- 10** Recommendations
- 25** Member expert team conducted study
- 71** European-confirmed Best Practices
- 81** Intrinsic vulnerabilities considered
- 100** Key Findings
- 150** Contributing European stakeholder experts
- 200+** Critical trends considered for impact
- 30,000+** Distinct data points researched and analyzed during study



# ARECI Study Participants



Bell Labs uniquely positioned as a neutral facilitator . . .

*Roundtable discussions*  
*Individual conversations*  
*Virtual interviews*  
*Four workshops*

### Environment & Power Experts Workshop



3 October 2006  
Rome, Italy

### Network & Payload Experts Workshop



6 October 2006  
London, U.K.

### Hardware & Software Experts Workshop



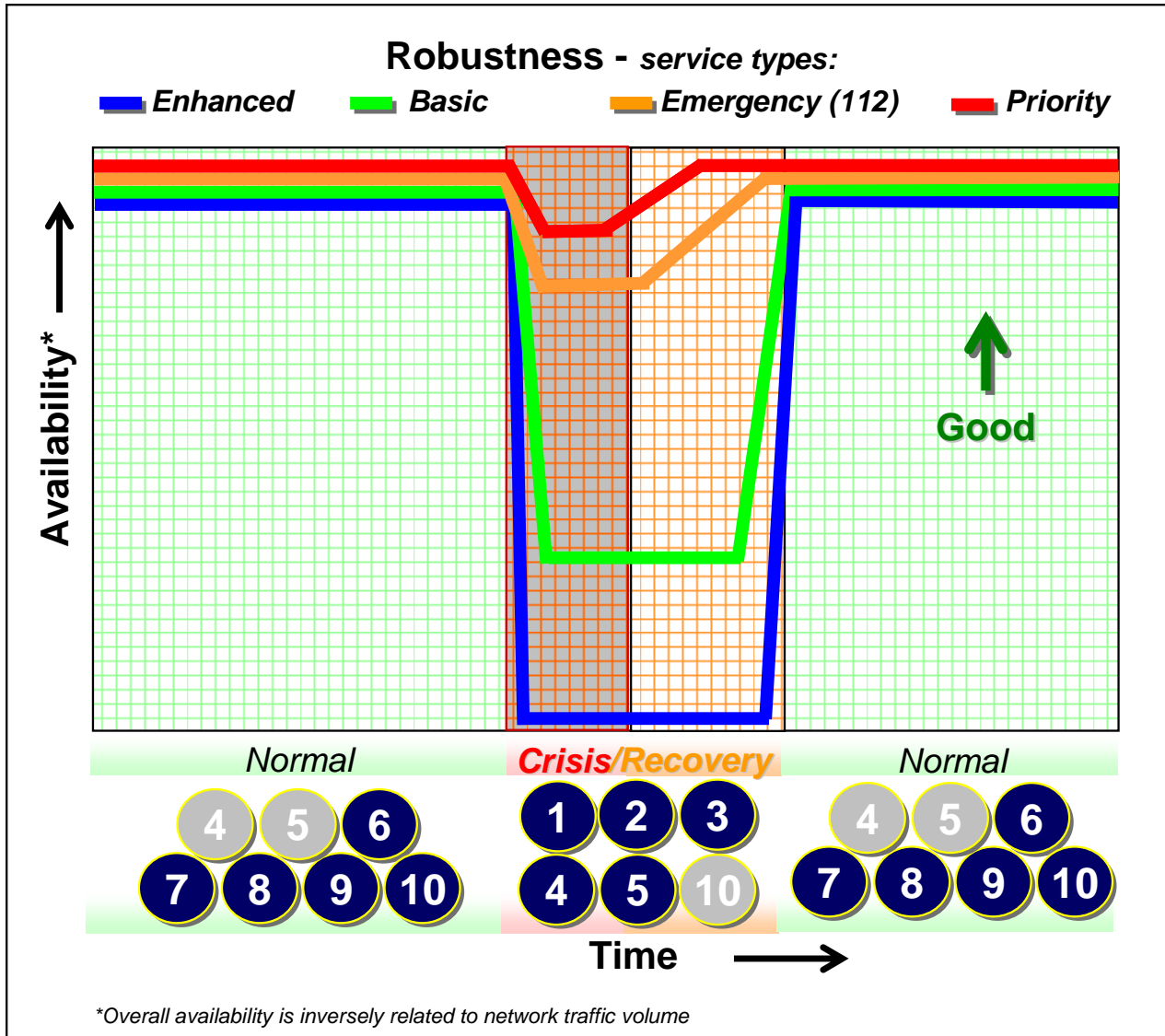
11 October 2006  
Berlin, Germany

### Policy & Human Experts Workshop



15 November 2006  
Brussels, Belgium

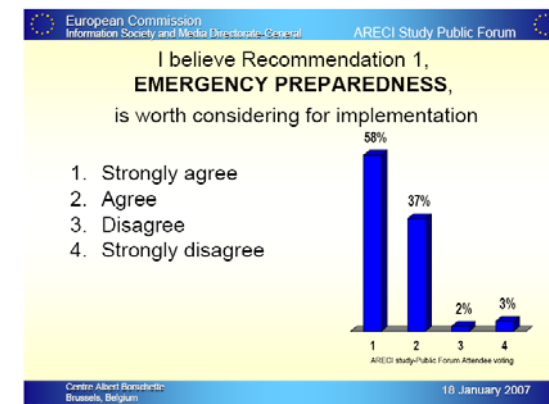
# 10 ARECI Recommendations



## 10 Recommendations

1. Emergency Preparedness
2. Priority Communications on Public Networks
3. Formal Mutual Aid Agreements
4. Critical Infrastructure Information Sharing
5. Inter-Infrastructure Dependency
6. Supply Chain Integrity and Trusted Operation
7. Unified Voice in European Standards
8. Interoperability Testing
9. Vigorous Ownership of Partnering Health
10. Discretionary European Expert Best Practices

**86%** of stakeholders agree or strongly agree

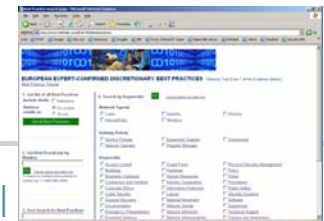






## 10 Recommendations

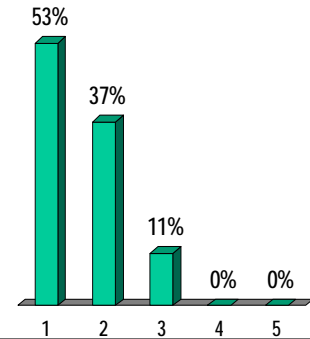
1. Emergency Preparedness **4Q07: BT-hosted Gatwick Workshop; no 2. 2Q08:I KPN**
2. Priority Communications on Public Networks **3Q08: Slovak Republic**
3. Formal Mutual Aid Agreements **4Q07: BT-hosted Gatwick Workshop; no. 2 2Q08: KPN**
4. Critical Infrastructure Information Sharing **2Q08: Holland**
5. Inter-Infrastructure Dependency **2Q – 3Q08: Germany**
6. Supply Chain Integrity and Trusted Operation **3Q08: Joint Research**
7. Unified Voice in European Standards **ETSI: France (possible)**
8. Interoperability Testing
9. Vigorous Ownership of Partnering Health **numerous examples**
10. Discretionary European Expert Best Practices **2Q07: [www.bell-labs.com/ARECI](http://www.bell-labs.com/ARECI)**





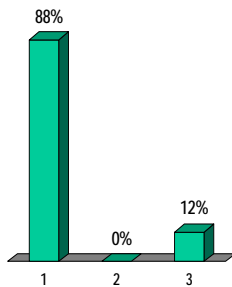
Taken as a whole, the two workshops were worth the time I spent

1. Strongly agree
2. Agree
3. Neither agree or disagree
4. Disagree
5. Strongly disagree



My organisation will take some action because of this workshop

1. Yes
2. No
3. Don't know



private sector taking the initiative to implement ARECI recommendations



# 10 ARECI Recommendations

*Directed to . . .*

Table 4: Summary of Required Leadership Posture

Recommendation	Private Sector	Member States	European Institutions
1	L	AS	AS
2	AS	L	AS
3	L	AS	AS
4	AS	L	
5	AS	L	AS
6	L	L	L
7	AS	L	AS
8	L	AS	AS
9	L	L	L
10	L	AS	AS

Key:	
AS	Active supporter
L	Primary leader

## IEEE ([www.ieee.org](http://www.ieee.org))

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- ❑ a **global non-profit** organization.
- ❑ the world's leading professional association for the advancement of technology
- ❑ name originally an acronym for the Institute of Electrical and Electronics Engineers
- ❑ a leading **technical authority** on areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics among others
- ❑ serves student members in colleges and **universities** around the world
- ❑ more than **375,000 members** including nearly 80,000 student members in more than **160 countries** (324 sections in ten geographic regions worldwide; 1,784 chapters that unite local members with similar technical interests; 1,616 student branches and 452 student branch chapters at colleges and universities in 80 countries)
- ❑ 38 societies and 7 technical councils representing the wide range of technical interests
- ❑ nearly **1,300 standards** and projects under development
- ❑ more than **1.7 million documents** in the IEEE/IET Electronic Library; publishes a total of 144 transactions, journals and magazines; sponsors more than **850 conferences annually**



IEEE Communications Society ([www.comsoc.org](http://www.comsoc.org))

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**Vision Statement:** The Vision of the IEEE Communications Society is to be the organization of choice for communications and related professionals throughout the world.

**Mission Statement:** The IEEE Communications Society promotes the advancement of science, technology and applications in communications and related disciplines. It fosters presentation and exchange of information among its members and the technical community throughout the world. The Society maintains the highest standard of professionalism and technical competency.

## Technical Committee Clusters

### COMMUNICATION SOFTWARE & SERVICES (CS&S)

- Communications & Information Security
- Communications Software
- Information Infrastructure
- Multimedia Communications
- Network Operations & Management

### COMMUNICATIONS/SIGNAL PROCESSING (C/SP)

- Communication Theory
- Data Storage
- Power Line Communications
- Radio Communications
- Satellite & Space Communications
- Signal Processing & Communications Electronics
- Transmission, Access & Optical Systems

### NETWORKING (NET)

- Ad Hoc & Sensor Communications & Networks
- Cognitive Networks
- Communications Switching & Routing
- Computer Communications
- High-Speed Networking
- Internet
- Optical Networking

### VERTICAL ISSUES IN COMMUNICATION SYSTEMS VICS

- Communications Quality & Reliability
- Communications Systems Integration & Modeling
- Enterprise Networking
- Tactical Communications & Operations
- Wireless Communications

## IEEE COMSOC CQR

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### Technical Committee on Communications Quality & Reliability

- ❑ Mission: The Technical Committee on Communications Quality & Reliability (CQR)\* focuses on and advocates worldwide communications quality and reliability on behalf of, and within, the IEEE Communications Society. CQR serves as the catalyst for global awareness and the exchange of information relative to technical and management-related aspects of communications quality and reliability.
  
- ❑ Events
  - ❑ ICC
  - ❑ GLOBECOM
  - ❑ Annual International Workshop
  - ❑ Special Workshops