

**Joint Internet Society, CITEEL and ITU**

**Workshop on Combating SPAM**

**(Mendoza, Argentina, 7 October 2013)**

**ITU-T Standardization on Countering  
Spam**

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Mendoza, Argentina, 7 October 2013



# WTSA-12 Resolution 52

## Key amendments

### ■ *Instruct TSB Director*

- ➔ to initiate a study – including sending a questionnaire to the ITU Membership – indicating the volume, types (e.g., email spam, SMS spam, spam in IP-based multimedia applications) and features (e.g., different major routes and sources) of spam traffic, to help Member States and relevant operating agencies to identify such routes and sources and volumes, and in estimating the amount of investment in facilities and other technical means to counter and combat such spam;

# WTSA-12 Resolution 52

## Key amendments

- *further invites Member States*
  - ➔ to take appropriate steps to ensure that appropriate and effective measures are taken within their national and legal frameworks to combat spam and its propagation.

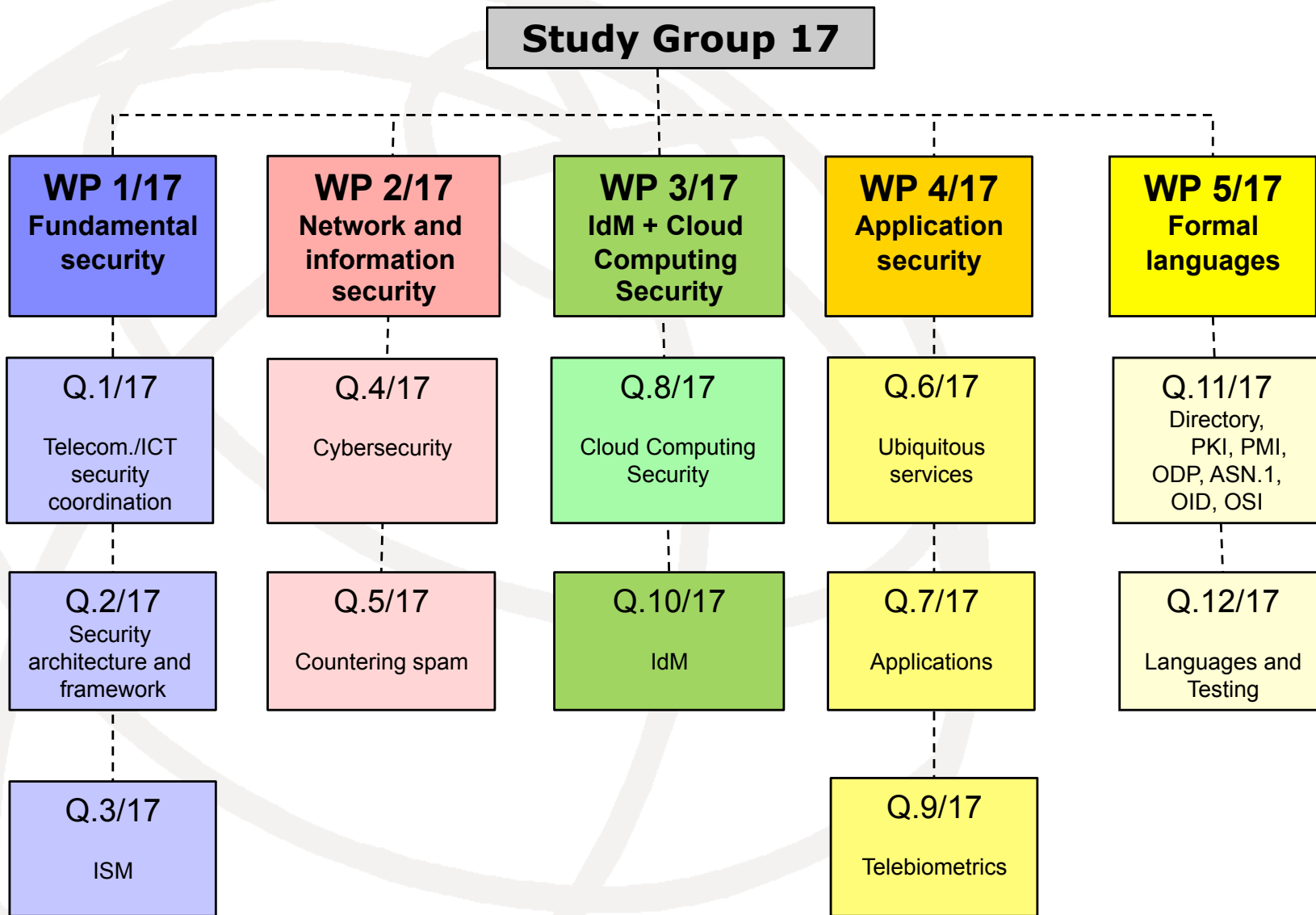
# Action Plan on WTSA-12 Res. 52

- SGs, particular SG17, to accelerate their work on spam.
- SGs to collaborate with other relevant organizations to develop Recommendations with a view to exchanging best practices;
- SG17, through Question 5/17 “Countering spam by technical means”, has approved 5 Recs. and 7 Supplements. Two additional texts are in development.
- Workshops, training sessions, etc. ITU spam workshop on 8 July, Durban, South Africa
- SG17 has started considering the questionnaire/study on spam. Contributions are solicited.

# **SG17 mandate established by World Telecommunication Standardization Assembly (WTSA-12)**

- To build confidence and security in the use of ICTs
- “Countering spam” explicitly in SG 17’s mandate
- Responsible for 12 Questions
- Meets twice a year. Next 15-24 Jan 2014
- 89 new or revised Recommendations and other texts are under development for approval in January 2014 or later
- More information <http://itu.int/ITU-T/studygroups/com17>

# SG17, Security



# 1. Introduction to Question 5/17

- Name: Countering spam by technical means
- Establishment: 2005
- Role: Act as the lead group in ITU-T on countering spam by technical means according to WTSA-12 Resolution 52 (Countering and combating spam)
- Achievement: 7 existing Recommendations and 2 ongoing work items from Q5/17 in the ITU-T X.1230~X.1249 series Recommendations, 4 supplements exclusive

# 1. Introduction to Q5/17

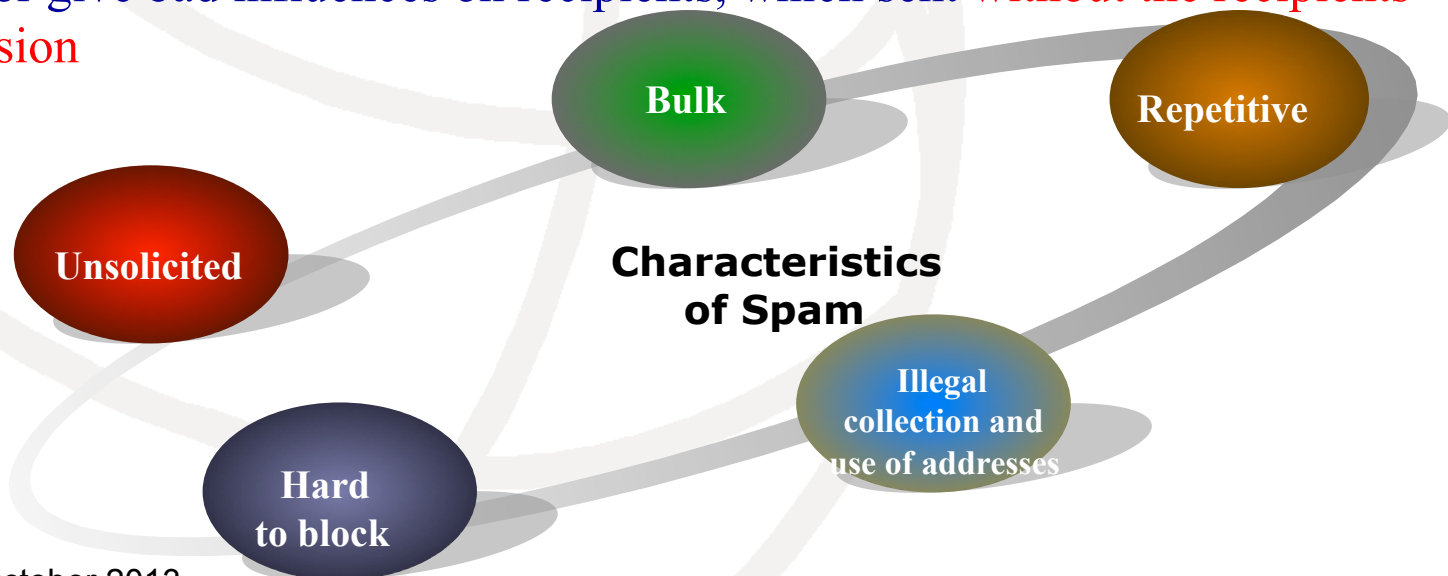
## ■ Objectives:

- Establish effective cooperation with the IETF, the relevant ITU study groups and appropriate consortia and fora, including private sector entities for this area.
- Identify and examine the telecommunication network security risks (at the edges and in the core network) introduced by the constantly changing nature of spam.
- Develop a comprehensive and up-to-date resource list of the existing technical measures for countering spam in a telecommunication network that are in use or under development.
- Determine whether new Recommendations or enhancements to existing Recommendations, including methods to combat delivery of spyware, worm, phishing, and other malicious contents via spam and combat compromised networked equipment including botnet delivering spam, would benefit efforts to effectively counter spam as it relates to the stability and robustness of the telecommunication network.
- Provide regular updates to the Telecommunication Standardization Advisory Group and to the Director of the Telecommunication Standardization Bureau to include in the annual report to Council.
- Maintain awareness of international cooperation measures on countering spam.

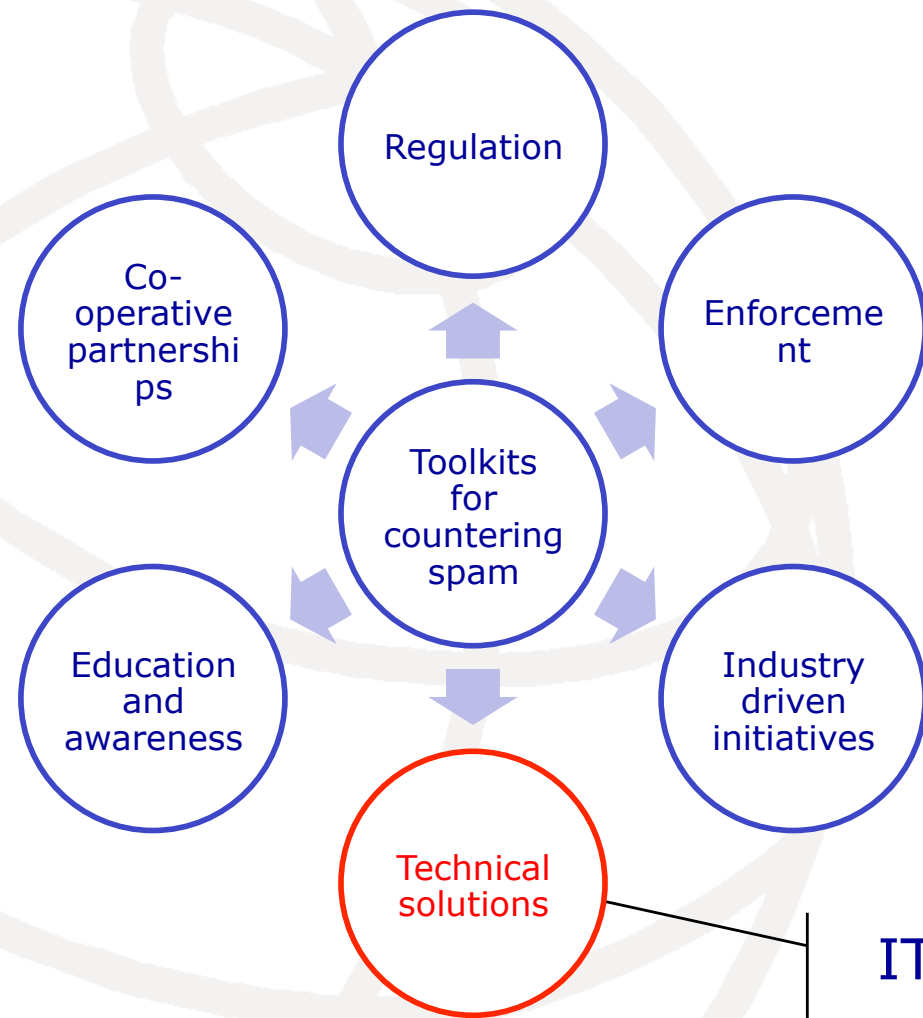


# 2. Introduction to spam

- Understanding of Spam (defined in Rec. ITU-T X.1231):
  - Spam is electronic information delivered from senders to receivers by terminals such as computers, mobile phones, telephones, etc., which is usually unsolicited, unwanted and harmful for receivers.
  - ✚ administrations considers inappropriate **in alignment to national laws and policies** (out of scope)
  - ✚ annoy or give bad influences on recipients, which sent **without the recipients' permission**

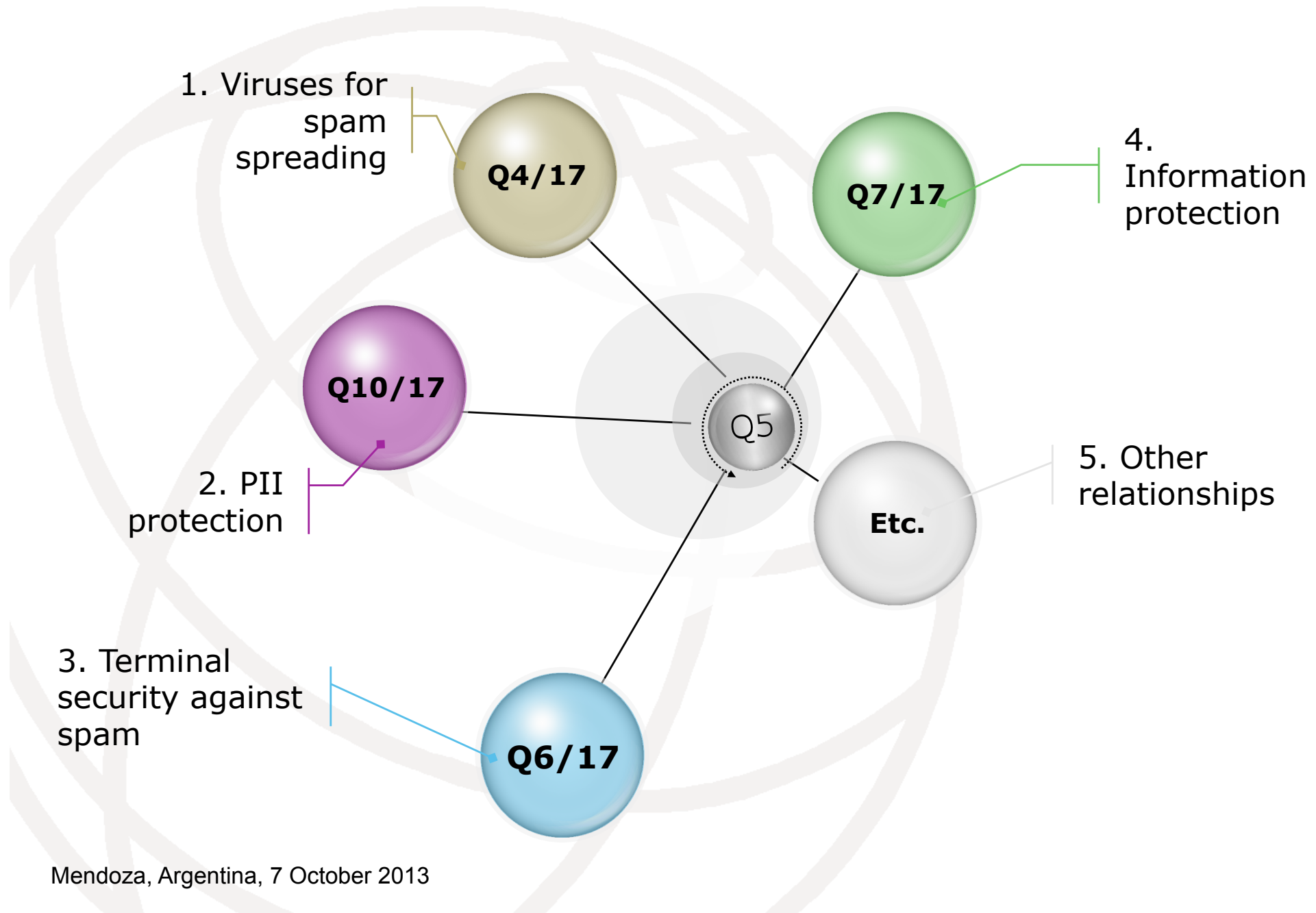


## 2. Introduction to spam



ITU-T Q5/17

## 2. Introduction to spam



# 3. ITU-T Standardization Roadmap



## Principals on countering spam

**Avoid the legal issues**

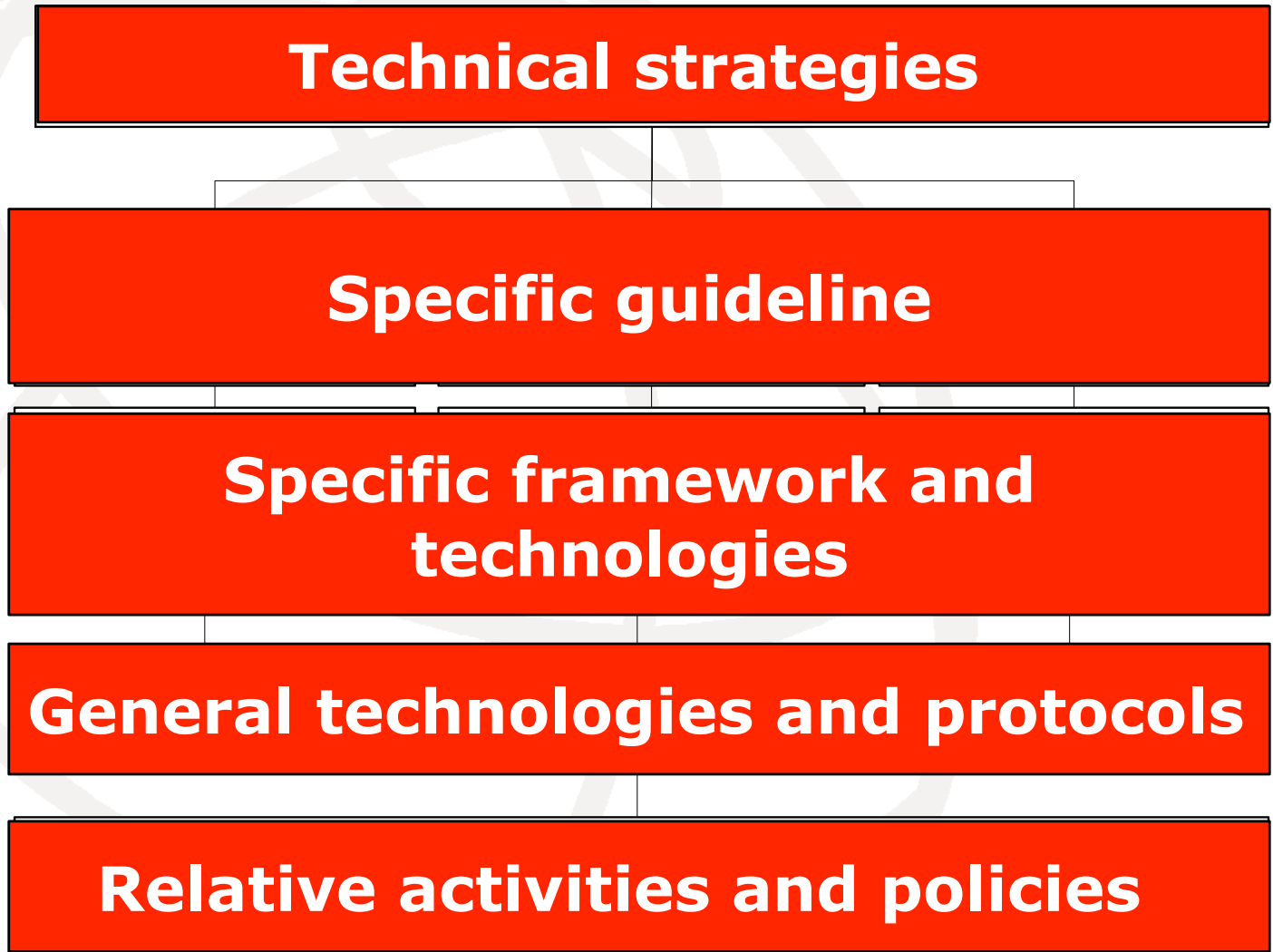
**Minimize changes to user interface**

**Increase the satisfaction of users**

**Implement easily with good interoperability**

**Minimize changes to the existing network system**

# 3. ITU-T Standardization Roadmap



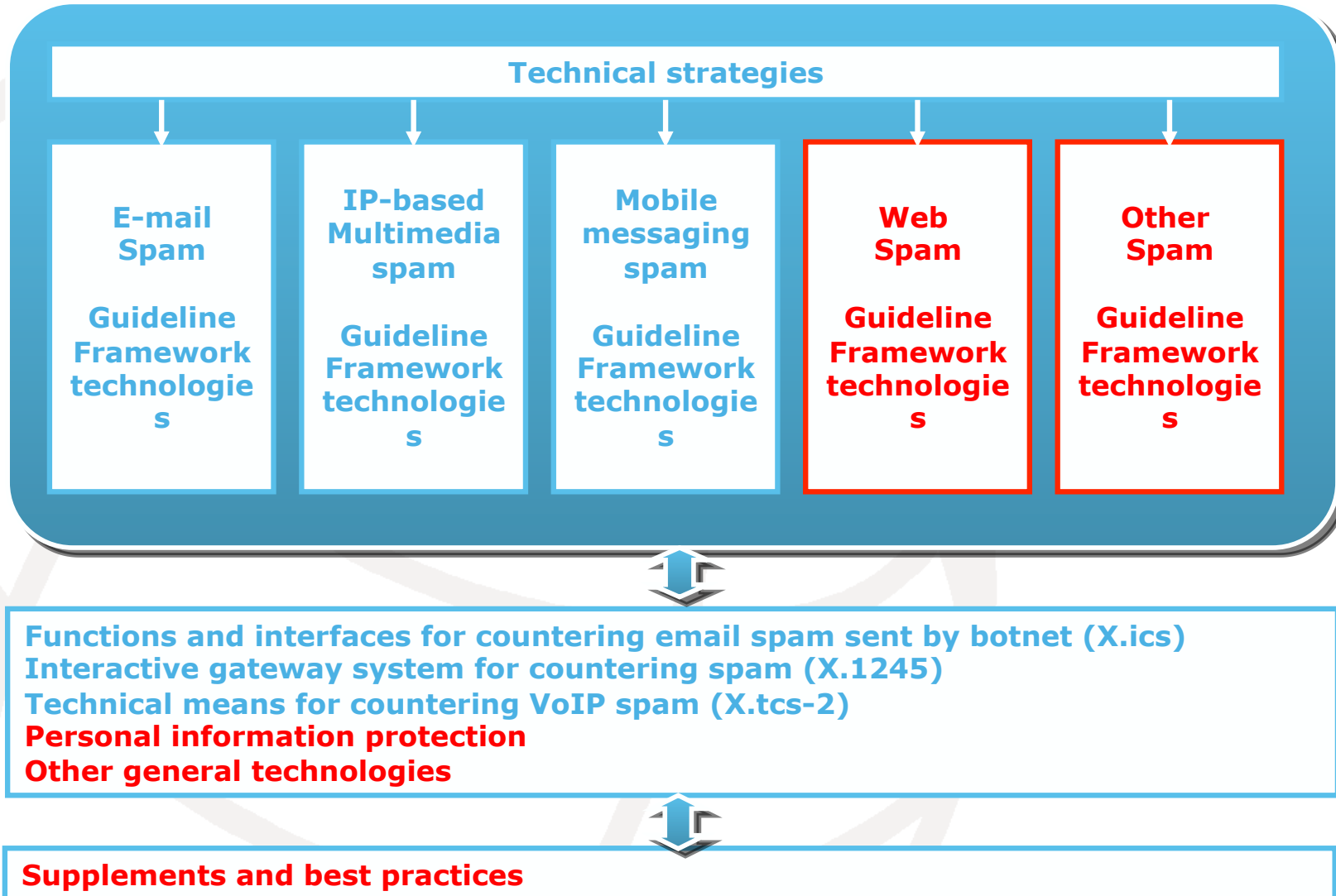
# 4. Standards on countering spam

- Recommendation ITU-T X.1231: Technical strategies for countering spam
- Recommendation ITU-T X.1240: Technologies involved in countering e-mail spam
- Recommendation ITU-T X.1241: Technical framework for countering email spam
- Recommendation ITU-T X.1242: Short message service (SMS) spam filtering system based on user-specified rules
- Recommendation ITU-T X.1243: Interactive gateway system for countering spam
- Recommendation ITU-T X.1244: Overall aspects of countering spam in IP-based multimedia applications
- Recommendation ITU-T X.1245: Framework for countering spam in IP-based multimedia applications

# 5. Supplements on countering spam

- Supplement X Suppl. 6: ITU-T X.1240 series – Supplement on countering spam and associated threats
- Supplement X Suppl. 11: ITU-T X.1245 - Supplement on framework based on real-time blocking lists for countering VoIP spam
- Supplement X Suppl. 12: ITU-T X.1240 - Supplement on overall aspects of countering mobile messaging spam
- Supplement X Suppl. 14: ITU-T X.1243 - Supplement on a practical reference model for countering e-mail spam using botnet information

# 6. Future works







# Thank You !

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