

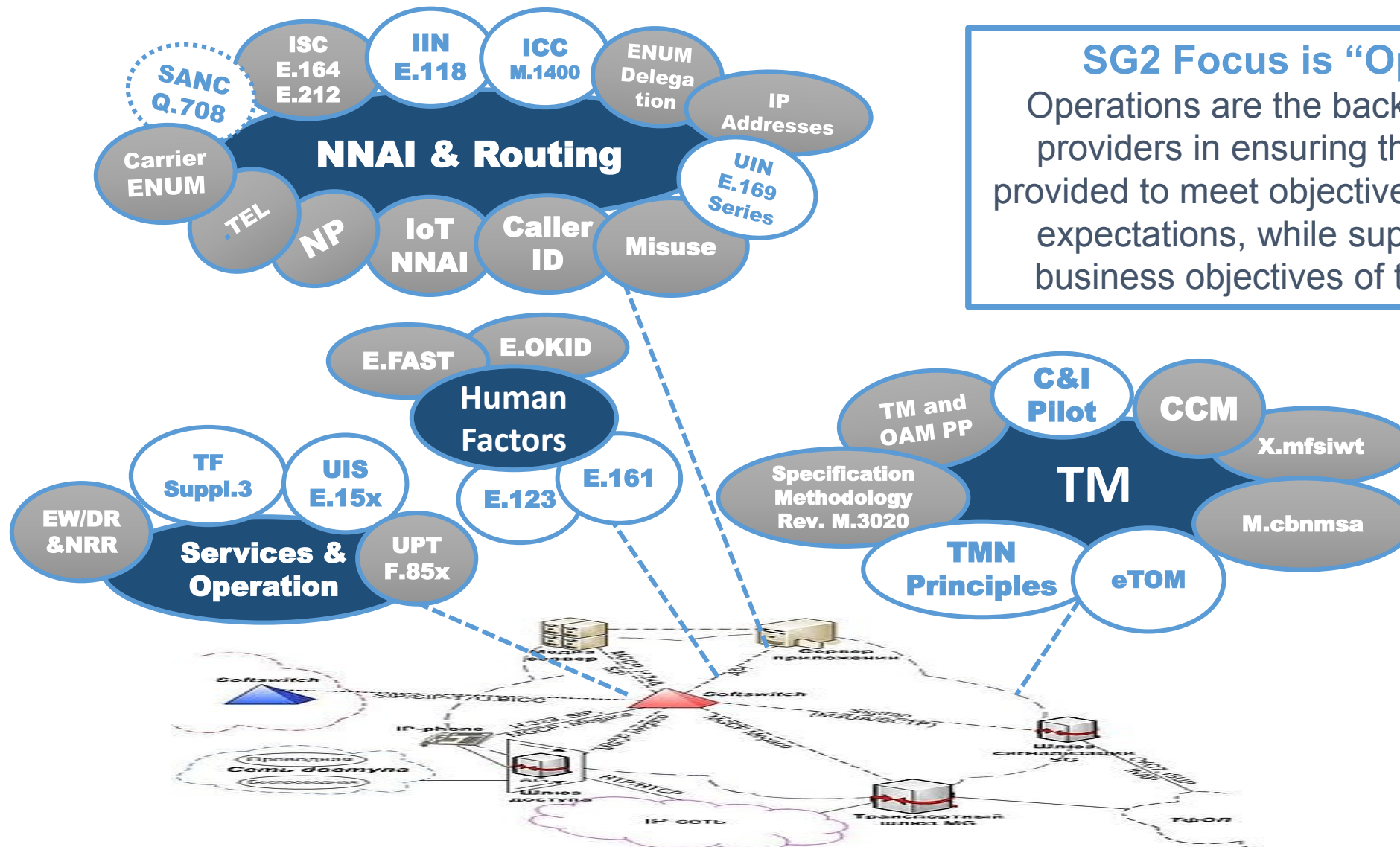
ITU-T STUDY GROUP 2

Operational aspects of service
provision and telecommunications
management



Dr. Sherif Guinena
Chairman of SG2

SG2 Main topics



SG2 Focus is “Operations”

Operations are the backbone of service providers in ensuring that services are provided to meet objectives of the customer expectations, while supporting the key business objectives of the corporation.

Achievements, and Future Work

NNAI for Global Networks and Services

Highlights of Achievements

Enabling new and/or expanding global networks and services through assignment of shared numbering resources:

12 E.164 shared
CC and ICs
were assigned

14 E.212 shared
MCC and MNCs
were assigned



One of the Main Competencies of SG2
is NNAI

NNAI and Routing

Future work

Lead role: in NNAI and Routing

Evolution: Draft new Rec. E.NNAI-IoT

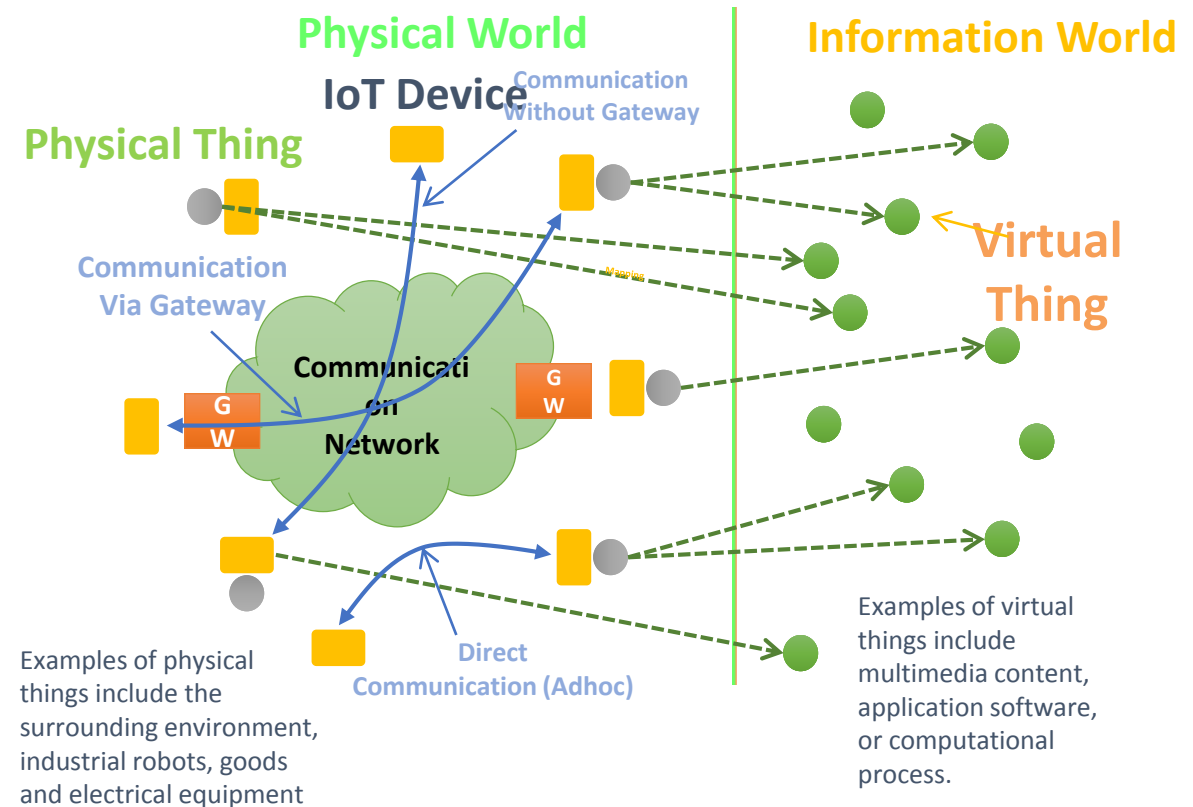
New applications: of E.212 Mobile Resources

Number Portability: in an IP environment.
(Carrier ENUM for international IMS interworking)

Originating Identification: CPND, CLI, OI : E.157

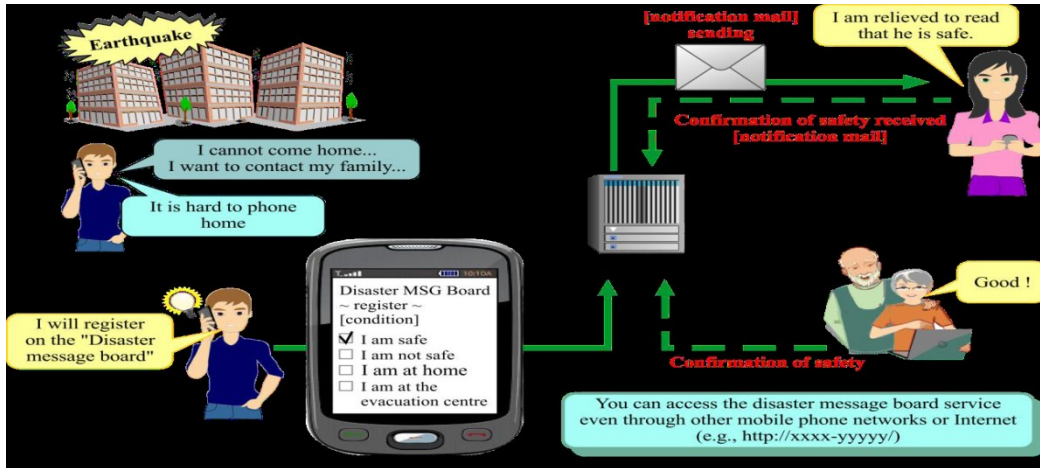
Routing information: ACP

Misuse: Guidelines : E.156



Disaster Relief

Highlights of Achievement



DR&NRR Focus Group: 8 Deliverables

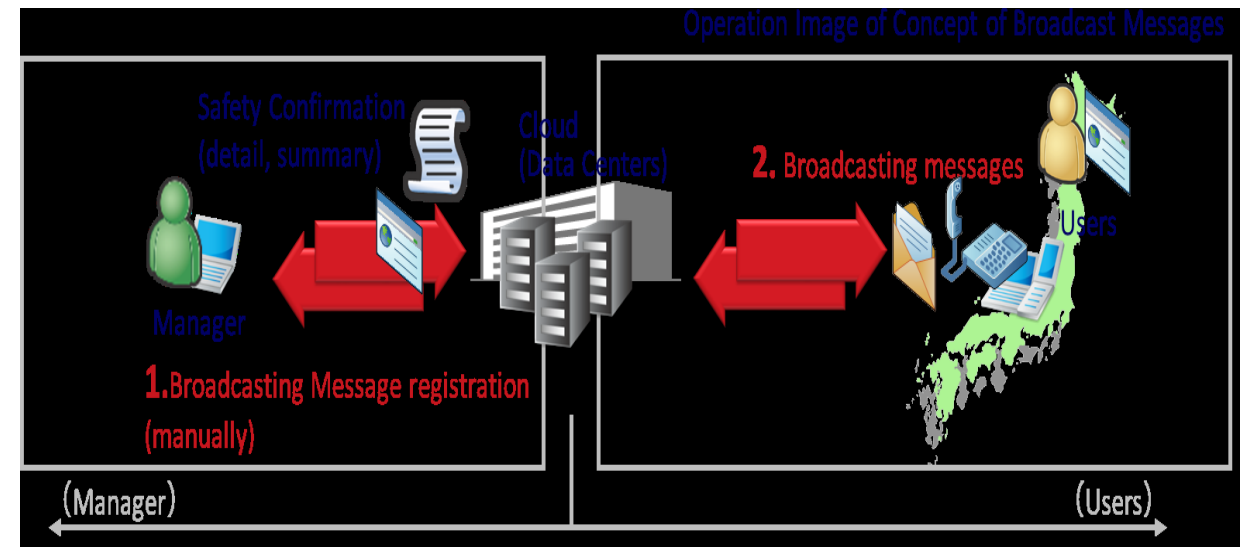
New E.108, Requirements for a disaster relief mobile message service.

New E.1110, CC 888 for UN OCHA

Revised E.129, Presentation of NNP

Future Work

Requirements for Safety Confirmation and Broadcast Message Service for Disaster Relief.



Human Factors, Telecom Management

한국어 키보드

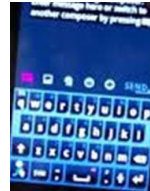
HF: New Annex A to E.161,
Arrangement of digits for Korean
KBD character set and symbols.

Future Work



E.FAST : Face-to-Face Translation

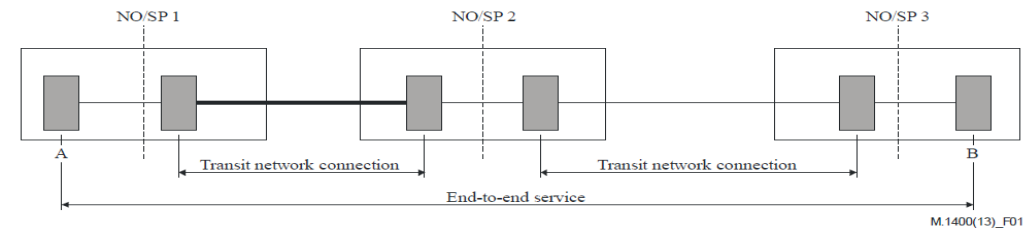
E.OKID : On screen
Keyboard Standardization



Human Factors for 5G , IoT, DFS

Network Management

9 New Recommendations
11 Revised /Amended Rec.



Future Work

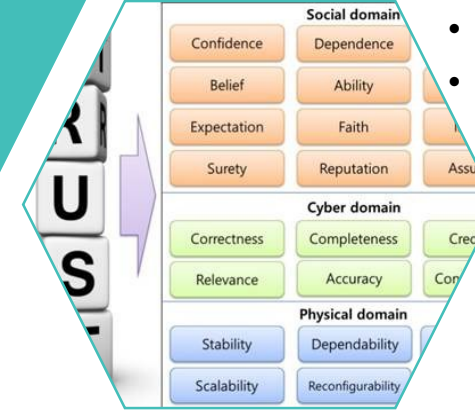
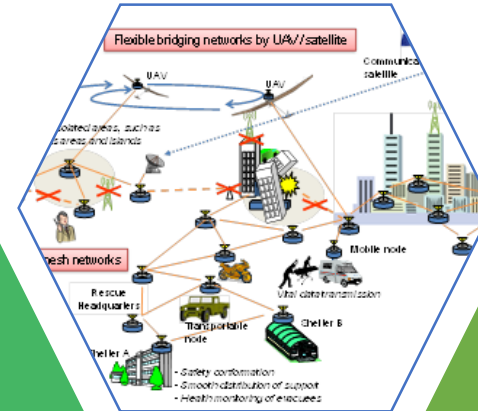
Management for Future Telecom Networks/Services



New critical operational requirements to prevent Telecom fraud globally

Building TRUST

- in Origin Identification in IP environment.
- in use and veracity of NNAI Resources:
 - SS7 , NUMB-DB ...
 - Classification of Data Networks.
- in IoT Identifiers: Unique, persistent, transparent scalable, reliable, interoperable, private/secure.



- in EW and DR&NRR
- in Digital Financial Services
- Re-innovation of UPT

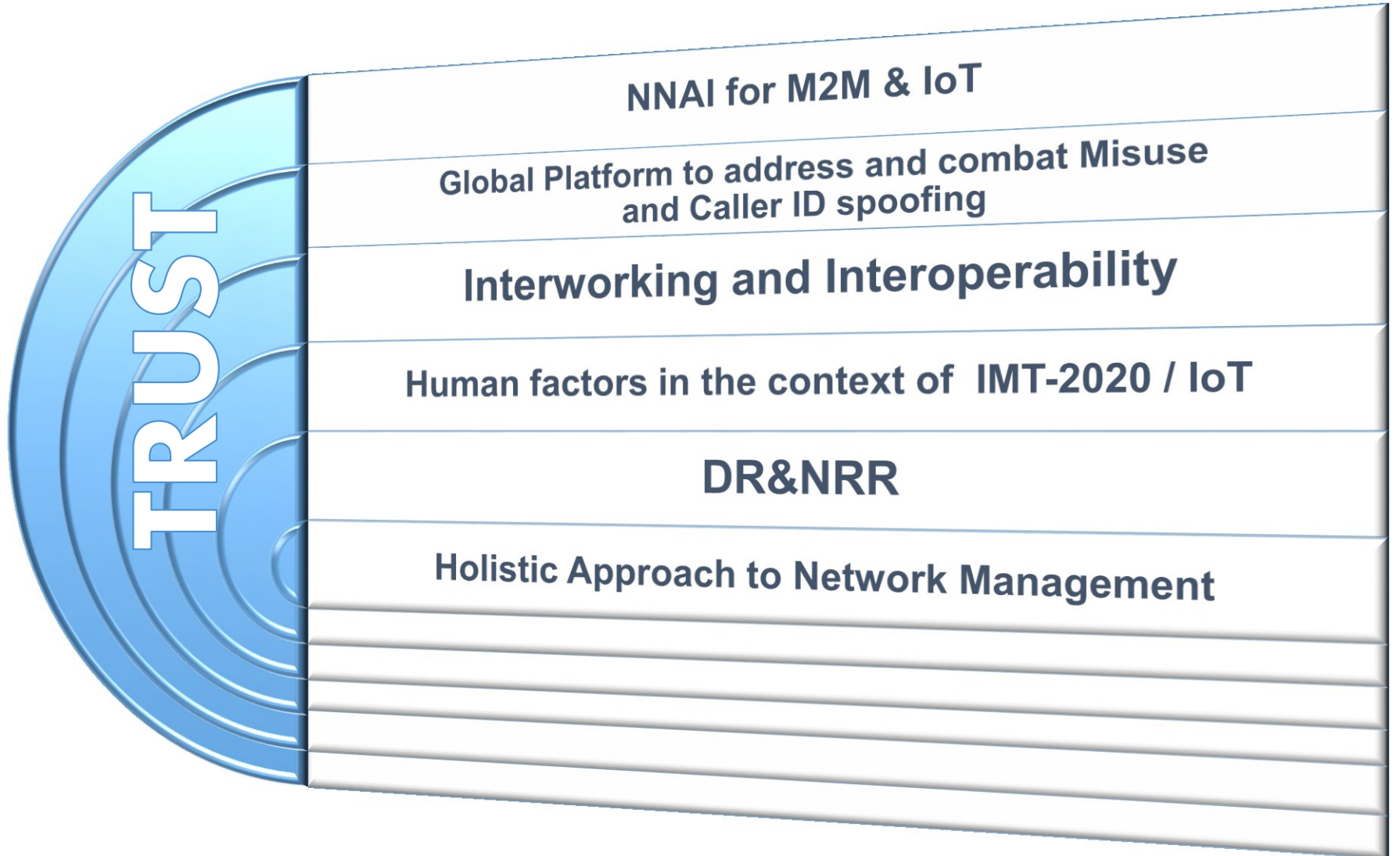


- in Routing → ACP
- in carrier ENUM (ENUM Query), for international IMS interworking.
- in Number portability in IP environment

- in management Security.
- in Security management.
- New consideration for management of network entirety , in the physical domain and in the cyber domain, for trustworthy management



Future ?



TRUST

NNAI for M2M & IoT

Global Platform to address and combat Misuse
and Caller ID spoofing

Interworking and Interoperability

Human factors in the context of IMT-2020 / IoT

DR&NRR

Holistic Approach to Network Management



Thank
You