Technical standards

- **Develop** international technical standards for digital technologies

- **Bridge the standardization gap** between developed and developing countries

- **Foster cooperation** among national, regional and international standards bodies

✓ **ITU international numbering resources**
  ○ **8.9 billion phone** subscribers
  ○ **3.5 billion machines** (Internet of Things)

✓ **ITU-standard digital certificates for authentication are a cornerstone of trusted exchanges online**

An estimated **95% of international traffic** runs over **fiber** networks built to **ITU standards**

Optical networks have grown in capacity by an average of **40% a year for the past 40 years.** Such rapid growth, at viable costs, was enabled by ITU standards.

Video accounts for over 80% of Internet traffic, enabled by Primetime Emmy-winning video-compression algorithms standardized jointly by **ITU, ISO and IEC.**

Standards enable advances on a global scale, as cost-effectively as possible

Stimulate global access to technological capabilities and help close digital divides

Capture innovation to create basis for continued iterative innovation

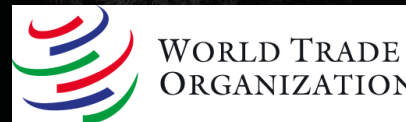Help new industries to grow and established industries to keep moving forward

Time-tested, trusted ITU standardization process

Contribution-led and consensus-based

All participants' voices heard and every step forward determined by consensus decision

Process compliant to WTO Technical barriers to trade agreement

WORLD TRADE ORGANIZATION

Technical tools supporting the achievement of policy objectives

e.g. vehicle emergency calls, universal chargers, international telecom operations

Consensus built standards create basis for effective public-private cooperation

World Standards Cooperation - ITU, ISO and IEC

Common Patent Policy and related Guidelines

Standardization Programme Coordination Group

Academia and industry are key partners in research and development, as well as in bringing the latest innovations to market.

Three key avenues for academia to engage:

ITU Academia membership (reduced fee)

ITU Journal on Future and Evolving Technologies

ITU Kaleidoscope academic conferences

ITU Academia members participate in ITU expert groups responsible for radiocommunication, standardization, and development.

Contributions from academia strengthen ITU's work and increase the impact of research.

ITU standards support the global adoption of solutions developed collaboratively by academia and industry, and boost return on investment for both.

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ITU standards community

Study Groups

Membership-driven Study Groups develop international standards.

Focus Groups

Open to all interested parties, Focus Groups define new directions in ITU standardization.

Workshops and symposia

Open-to-all events analyze emerging trends and encourage peer-learning.

ITU standardization: Technical foundations

- Transport, access and home networks
- Multimedia
- Service quality
- Numbering & emergency comms
- **Artificial intelligence**
- Cybersecurity
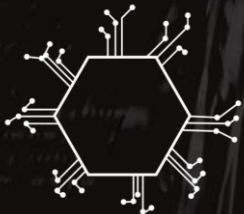- Internet of Things
- Environmental efficiency
- Quantum information tech
- Accessibility

Of the **over 4,000 published standards** in force, around **100 are AI-related**

Each year, our standardization work is driven by around **5,000 experts.**

Our Bridging the Standardization Gap programme assists developing countries in maximizing the value of their participation in our work.

Our Network of Women champions women role models in standardization, supported by a training programme on standardization skills.

ITU AI standards

+220

AI standards published or under development

Quality assessment

Energy efficiency

Multimedia

Network orchestration and management

Security

Protocols & test specs

Cable networks

Network operations & maintenance

Including standard frameworks to integrate AI/ML in networks, standard terms and definitions, standards to evaluate AI/ML models and their results, standards for data handling

Partnerships laying groundwork for new standards on AI for health (ITU, WHO, WIPO), natural disaster management (ITU, WMO, UNEP), and digital agriculture (ITU and FAO)

AI-RELATED FOCUS GROUPS & INITIATIVES

AI:+ **AI for Health**
World Health Organization | WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

AI: **AI and Internet of Things for Digital Agriculture**
ITU Focus Group
FAO FIAT PANIS

AI: **AI for Natural Disaster Management**
ITU Focus Group
WORLD METEOROLOGICAL ORGANIZATION + UN environment programme

AI: **Machine Learning and 5G**
ITU Focus Group

AI: **AI for Environmental Efficiency**
ITU Focus Group

AI: **AI and Data Commons**
Global Initiative

AI: **AI for Road Safety**
Global Initiative
= **AI:** **AI for Autonomous and Assisted Driving**
ITU Focus Group
+ **UN Special Envoy for Road Safety** + **UN Envoy on Technology** ITU

ITU-WHO-WIPO
Global Initiative on AI for Health

AI 4 Health published:
35 Specifications and Reports
Open Code Initiative (OCI): implementing benchmarking and auditing
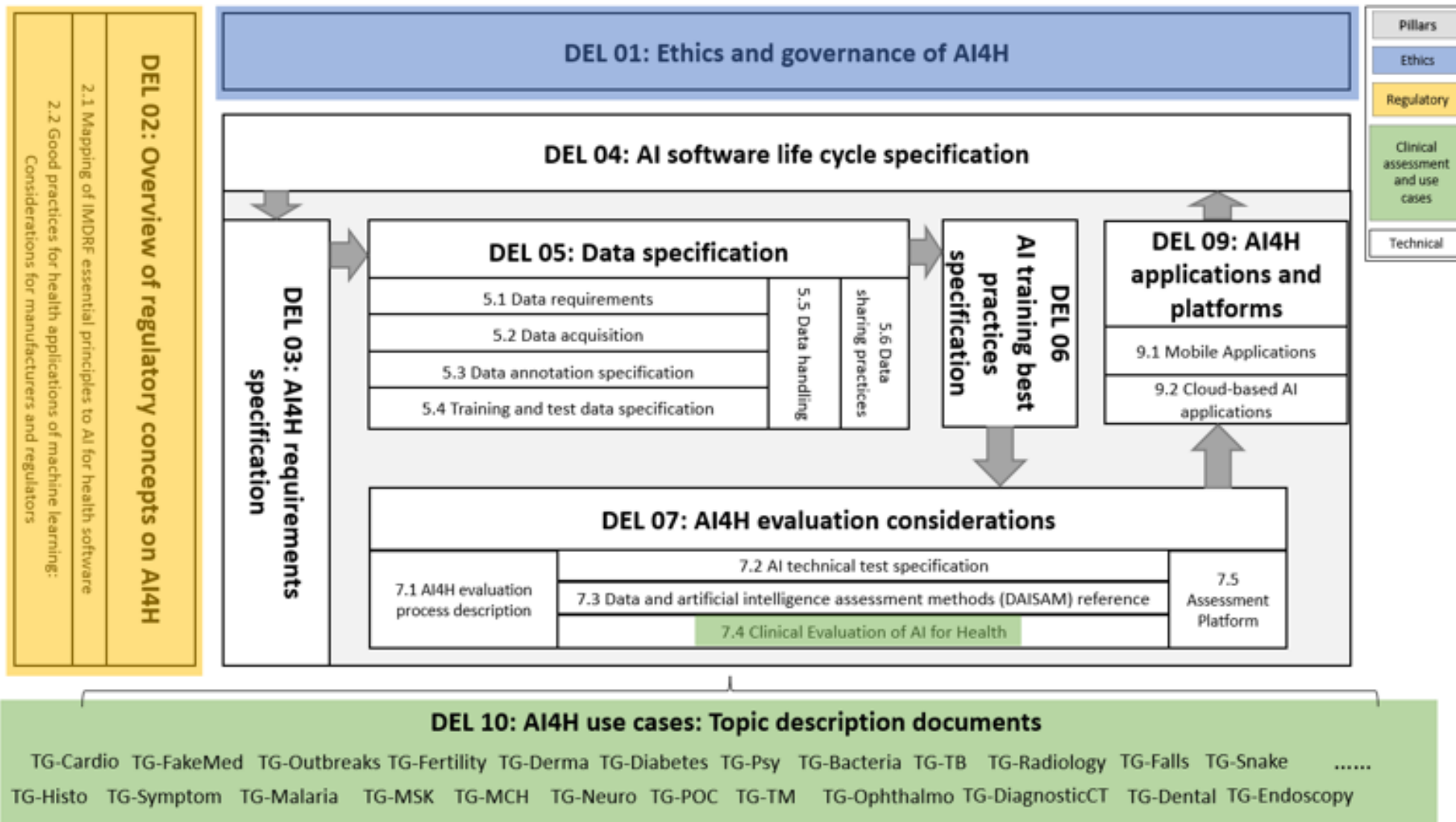
FG-AI 4 Natural Disaster Management
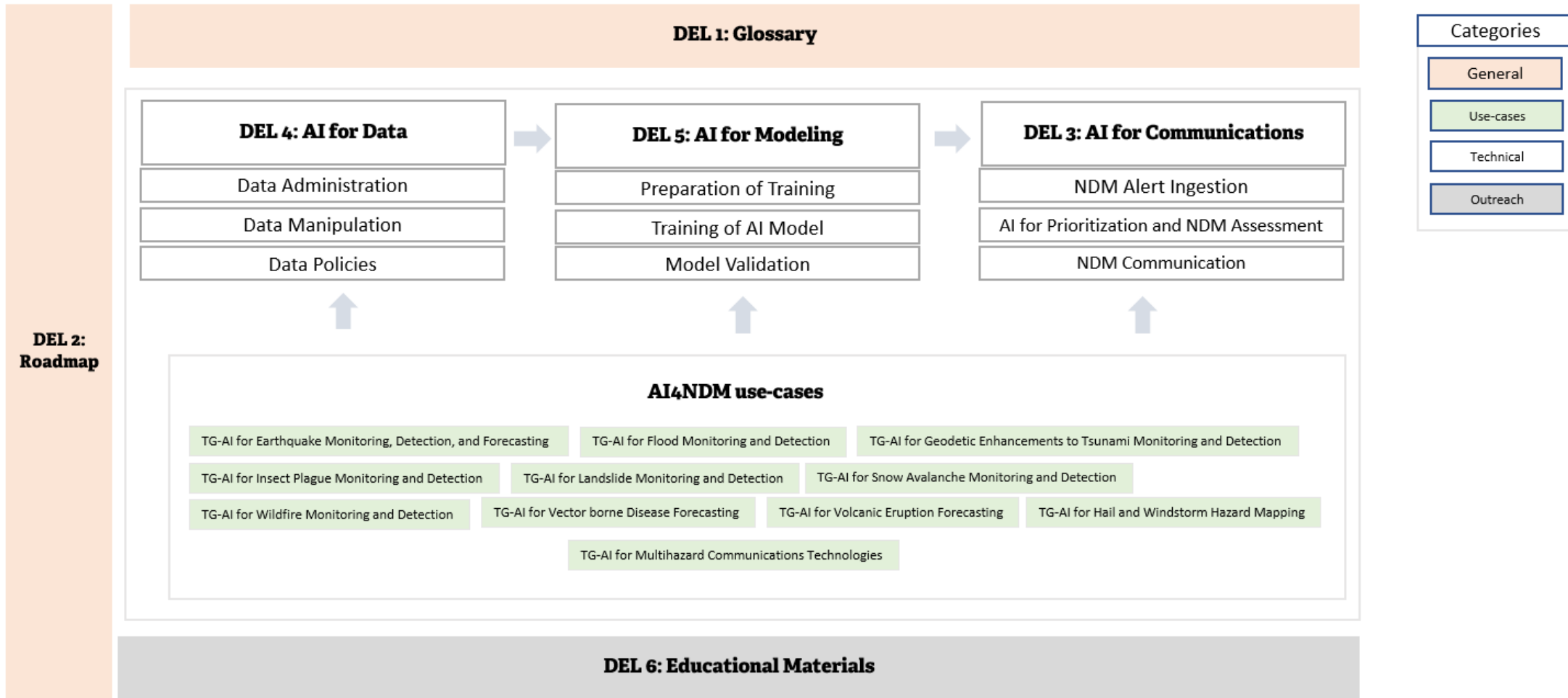
FG-AI & IoT 4 Agriculture
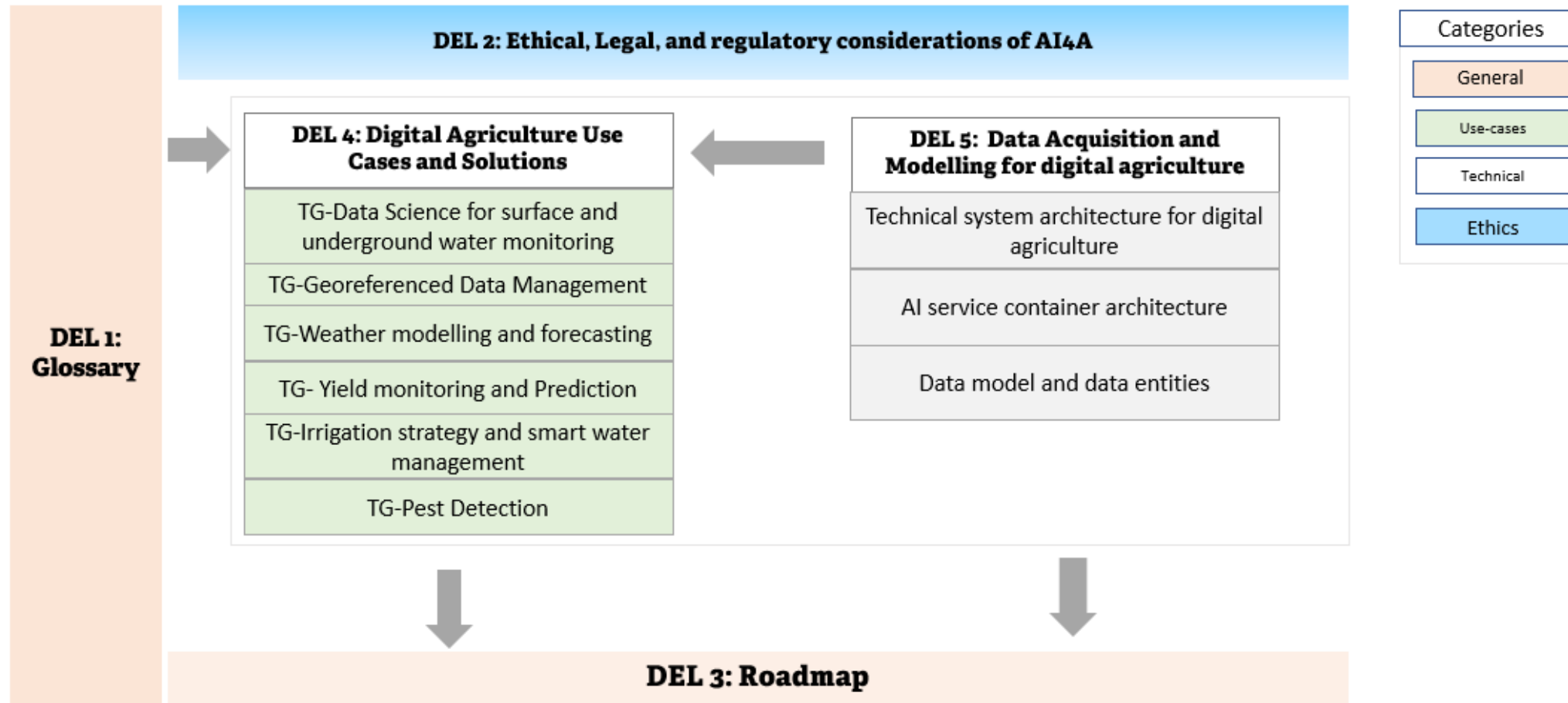
ITU standards authenticate voice calls to combat AI-generated voice

Biden calls for ban of AI voice impersonations in State of the Union address

ITU workshop on improving the security of signalling protocols

29 November 2021
13:00 - 17:00 CET

Join us online!
http://itu.int/go/WS-SSP

Spam Calls per User per Month in 2020

58% of all spam calls were determined to be fraudulent while 42% were nuisance

CA 7
DE 6
ES 14
US 16
FR 12
IT 12
MX 22
UK 8
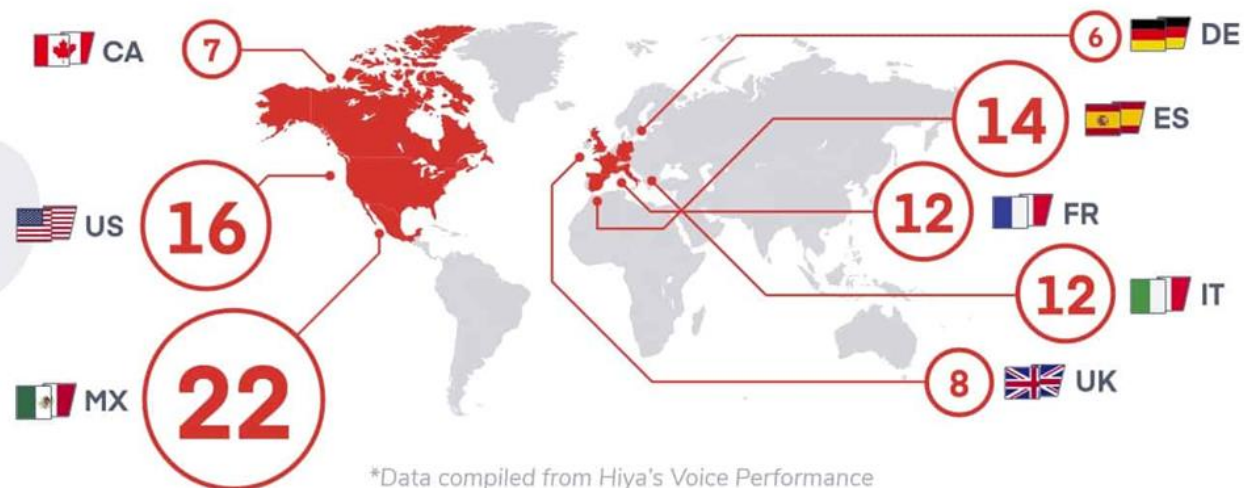
*Data compiled from Hiya's Voice Performance Platform, which processes 13 billions calls per month.

5   STATE OF THE CALL | 2021   hiya.com/state-of-the-call

How can the watermark detector(s) be trusted?

US government has mandated tech companies to find ways to identify AI-generated content.

The EU is also looking at enshrining watermarking requirements in law (AI Act Dec 2023).
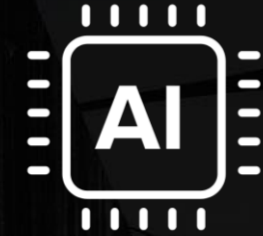
China has mandated that AI-generated content be clearly **labelled**.
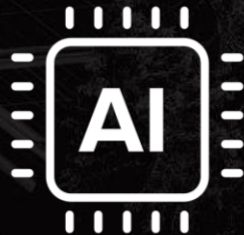
AI watermarking and multimedia authenticity initiatives need standards and governance

Different tech companies have their own solutions with no interoperability

Launching standards collaboration on AI watermarking and multimedia authenticity

31 May 2024

The value proposition should (internal consultation):

- Speak to **experienced** and **less experienced** standards experts and **developed** and **developing countries**.

- Highlight the **value of ITU's freely available standards** and the associated **business case** for participating in ITU-T in language **appealing to executives** responsible for decisions on investment in standardization.

- Outline the **tenets of ITU-T's inclusive standardization process** and how its reliability, consistency and focus on equitability creates **trust in the process**.

- Explain the advantages of **ITU-T's status as an international SDO**, including with respect to standards bodies and other organizations' **collaboration with ITU-T**.

The value proposition should (internal consultation):

- Elaborate the benefits of the **ITU-ISO-IEC Common Patent Policy** and related Guidelines.

- Describe the advantages of **electronic working tools** developed specifically for ITU-T's processes and multilingual environment.

- Emphasize ITU-T's unique position as a **UN standardization platform** and associated respect for UN values, highlighting ITU-T's focus on international relevance and inclusion.

- Touch on the advantages of a dedicated **secretariat funded by the public and private sector** and the secretariat's commitment to serving the collective membership.

ITU WTSA
NEW DELHI **2024**
15-24 October 2024
New Delhi, India

ITU GSS
NEW DELHI **2024**
14 October 2024
New Delhi, India

Side events:

WTSA-24 Expo, including Digital Wave Stage

Network of Women

Kaleidoscope academic conference

UN Day

Study group leadership training

GSS-24, including GSS-24 high-level segment

World Standards Day (GSS-24 session)

Indian Mobile Congress

- AI for Good Impact India

- Hackathon

- ITU-WHO workshop on safe listening standards

- Robotics for Youth competition

www.itu.int/wtsa2024

WTSA-24 EXPO (ITPO H1)

Draft plan

निर्देशक मानचित्र / Guide Map — भारत मंडपम, प्रगति मैदान / Bharat Mandapam, Pragati Maidan

लेजेंड / LEGEND

- एम्फीथिएटर — AMPHITHEATRE
- हाल — HALL
- टनल — TUNNEL
- कवर्ड पाथवे — COVERED PATHWAY
- मेट्रो स्टेशन (सुप्रीम कोर्ट) — METRO STATION (Supreme Court)
- आईटीपीओ कार्यालय — ITPO OFFICE
- हैलीपैड — HELIPAD
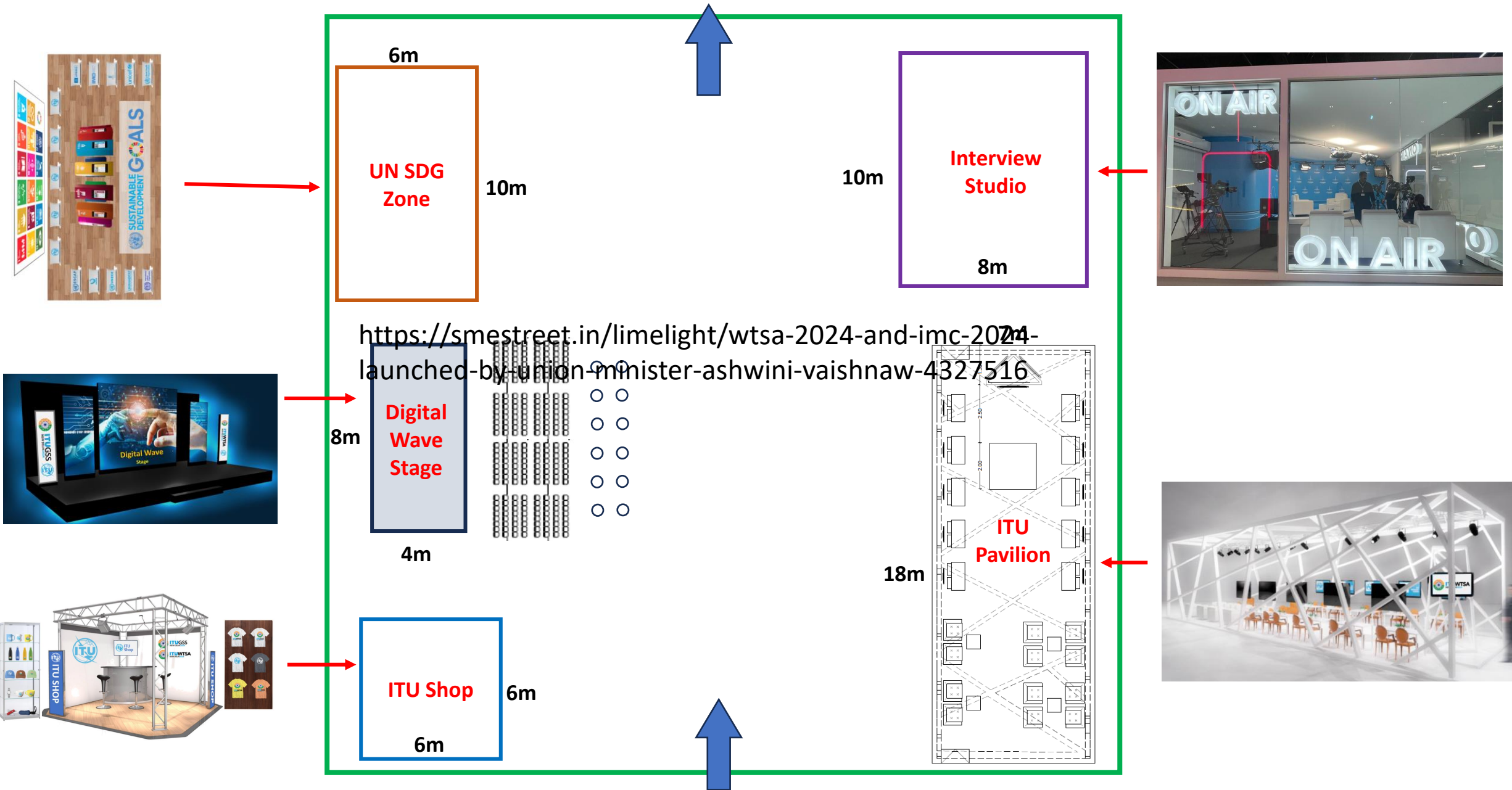
एक कदम स्वच्छता की ओर / SAY NO TO PLASTIC — TOBACCO FREE ZONE

N

RING ROAD

BHAIRON ROAD

Way to Basement 1

द्वार / Gate 1

P BHAIRON ROAD PARKING

Way to Basement 1

NATIONAL SCIENCE CENTRE

द्वार / Gate 11

हाल/Hall 6

7G 7H
7F
7E
7D
7B 7C
7A
H8

द्वार / Gate 4

हाल/Hall 5

हाल/Hall 4

द्वार / Gate 5A
द्वार / Gate 5B

हाल/Hall 9
हाल/Hall 10
हाल/Hall 11

H

हाल/Hall 3

हाल/Hall 12
हाल/Hall 12A
हाल/Hall 14

CRAFTS MUSEUM

द्वार / Gate 10

SUPREME COURT Additional Building Complex

हाल/Hall 2

BHARAT MANDAPAM (Convention Centre)

PRAGATI MAIDAN METRO STATION

हाल/Hall 1

MATKA PEER

TO ZOO / SUNDAR NAGAR

TO ITO

द्वार/Gate 9
द्वार/Gate 8
द्वार/Gate 7

MATHURA ROAD

Way to Basement 2

द्वार/Gate 6
द्वार/Gate 5C

MATHURA ROAD

from INDIA GATE (Purana Qila Road)

NATIONAL SPORTS CLUB OF INDIA

SUPREME COURT

from BHAGWAN DASS ROAD

Way to Basement 2

Lunch Area

UN SDG Zone
6m
10m

Interview Studio
10m
8m

Digital Wave Stage
8m
4m

ITU Pavilion
18m

ITU Shop
6m
6m

HALL 14 -GROUND FLOOR _PRAGATI MAIDAN

DRAWN BY	VIKAS
DATE	29/09/23
VERSION.No.	DATE

DRAWING NO:

01

PROJECT:

CLIENT:

DRAWING TITLE:
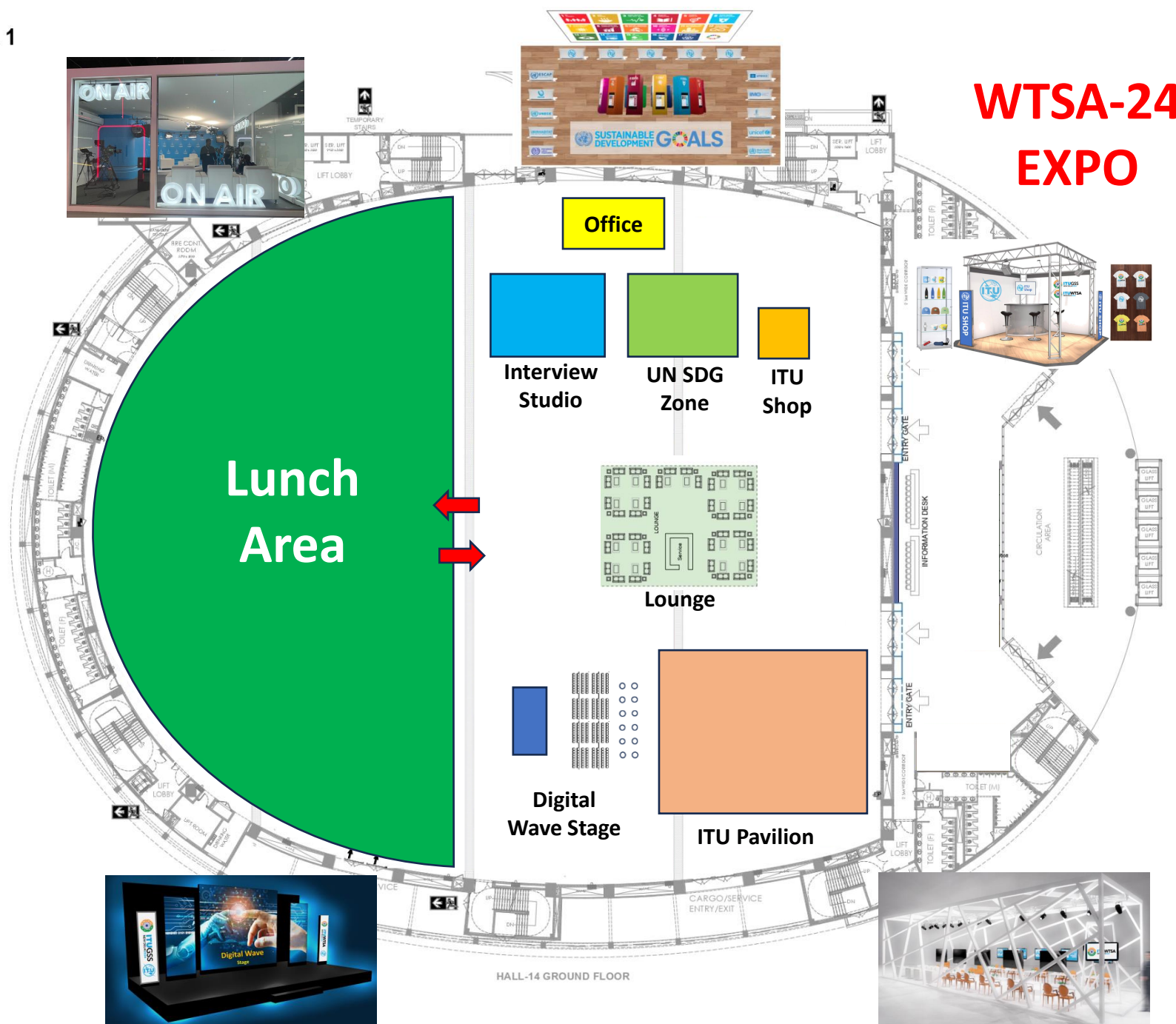
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2581217/ 18
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www.pavilionsinteriors.com

CARGO ELEVATOR

CARGO ELEVATOR

FIRE CONT. ROOM

LIFT LOBBY

TEMPORARY STAIRS

CARGO/SERVICE ENTRY/EXIT

CARGO/SERVICE ENTRY/EXIT

ELECTRICAL ROOM 4500 x 5000

LIFT LOBBY

TOILET (F)

TOILET (M)

TECHNICAL ROOM — 85 SQM

IT LOCAL STAFF — 12x8 SQM

HEAD OF AV TEAM (AUDIO VISUAL) — 12M X7M

INTERPRETERS LOUNGE — 12M X19M

COORDINATOR INTERPRETERS — 9M X7M

TRANSLATORS/REVISERS — 10M X7M

WTSA DOCUMENTS CONTROL — 10M X7M

WTSA - COM 4 (Work Prog. & Organization) — 10M X8M

WTSA - COM 3 (Working Methods ITU-T) — 8M X8M

EDH/WEB — 8M X4M

HEAD OF WTSA COMMS TEAM — 7M X8M

WTSA Communications including side events — 10M X7M

Ushers Meeting Rooms

Lockable Cabinets Room

Reprography & Documents Distribution — 8M X7M

WTSA C&P Department — 4M X4M

WTSA C&P Department — 4M X4M

Legal Affairs Unit

CMS - Logistics — 7M X4M

G5S — 8M X4M

WTSA - WG PLEN — 8M X4M

Assistant Dir BDT — 4M X4M

Director BDT — 4M X4M

Assistant Director BR — 4M X4M

Director BR — 4M X4M

Executive Assistant — 4M X4M

Executive Assistant — 4M X4M

Assistant Chairman WTSA-24

WTSA - Ad Hoc Groups

SPM/Protocol — 8M X4M

Special Advisor — 8M X4M

Inter-regional coordination — 4M X4M

Administrator COM2 — 4M X4M

Secretary COM2 — 4M X4M

WTSA Information Services Department — 12M X8M

WTSA - COM 5 (Editorial Committee) — 16M X8M

Regional Offices

Assistant — 4M X4M

Chief, OPD Department — 4M X4M

Chief,Study Groups Department — 4M X4M

Deputy Director TSB — 4M X4M

Director TSB — 4M X4M

MEDICAL ROOM — 7M X5M

PRAYER ROOM — 8M X5M

ORGANIZING COMMITTEE OFFICE — 327SQM

CONFERENCE CLASS ROOM STYLE 750 PAX — 47M x 32M

Camera Riser

LOUNGE — Service

VIP ROOM — 16M X11M

INFORMATION DESK

ENTRY GATE

ENTRY GATE

Flight Reconfirmation desk

Bank of ATM machine

Foreign Exchange Desk

Telecommunication Centre

Lost-property desk

Gifts distribution room

CIRCULATION AREA

GLASS LIFT

First Aid ROOM

Secretary (Telecom) Office

TOILET (M)

TOILET (F)

LIFT LOBBY

TOILET (F)

LIFT LOBBY

LIFT ROOM

CARGO/SERVICE ENTRY/EXIT

CARGO/SERVICE ENTRY/EXIT

CARGO/SERVICE ENTRY/EXIT

HALL-14 GROUND FLOOR

HALL 1

ON AIR

SUSTAINABLE DEVELOPMENT GOALS

WTSA-24 EXPO

Office

Interview Studio

UN SDG Zone

ITU Shop

Lounge

Lunch Area

Digital Wave Stage

ITU Pavilion

Digital Wave Stage

HALL-14 GROUND FLOOR