

ASTAP-29 STANDARDISATION WORKSHOP

IMDA TELECOMMUNICATIONS STANDARDS ADVISORY COMMITTEE

22 AUGUST 2017

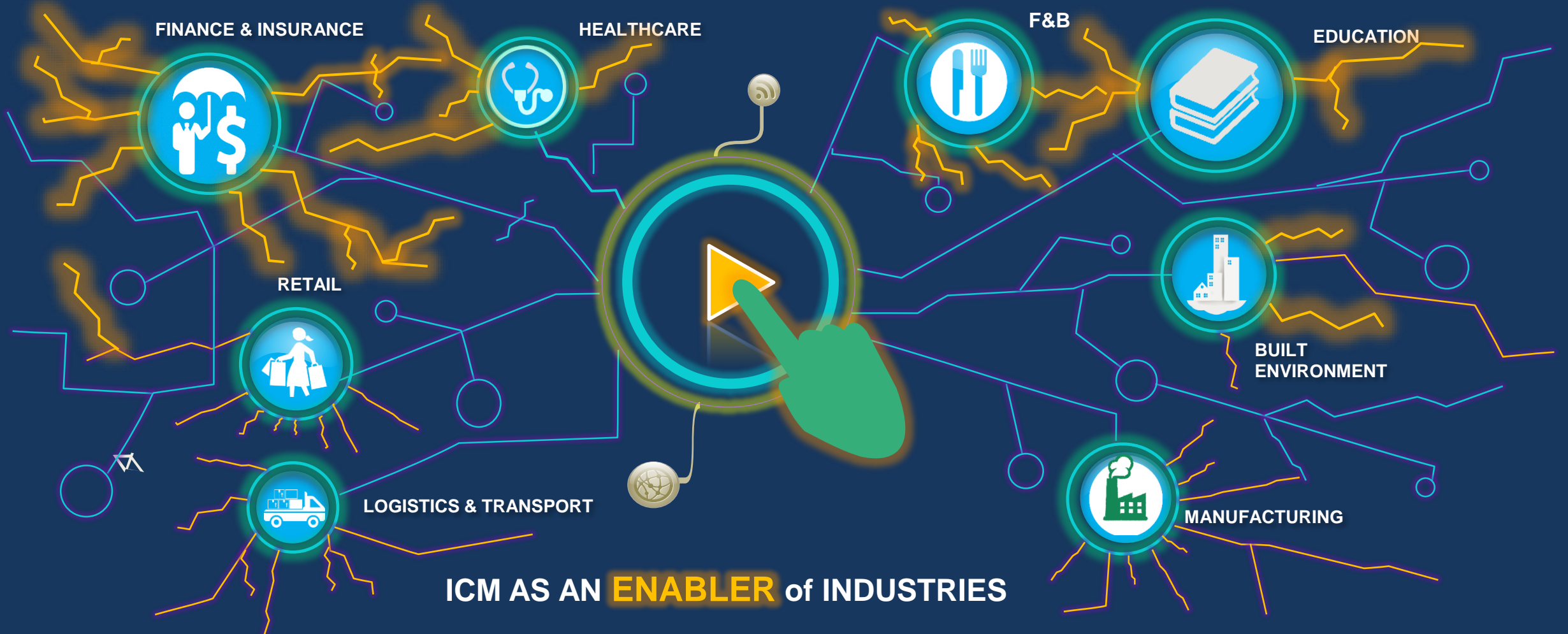


AGENDA

- 1) IMDA Digital Economy (DE)
- 2) Purpose of IMDA Standardisation
- 3) TSAC Roles, Structure & Activities
- 4) Challenges

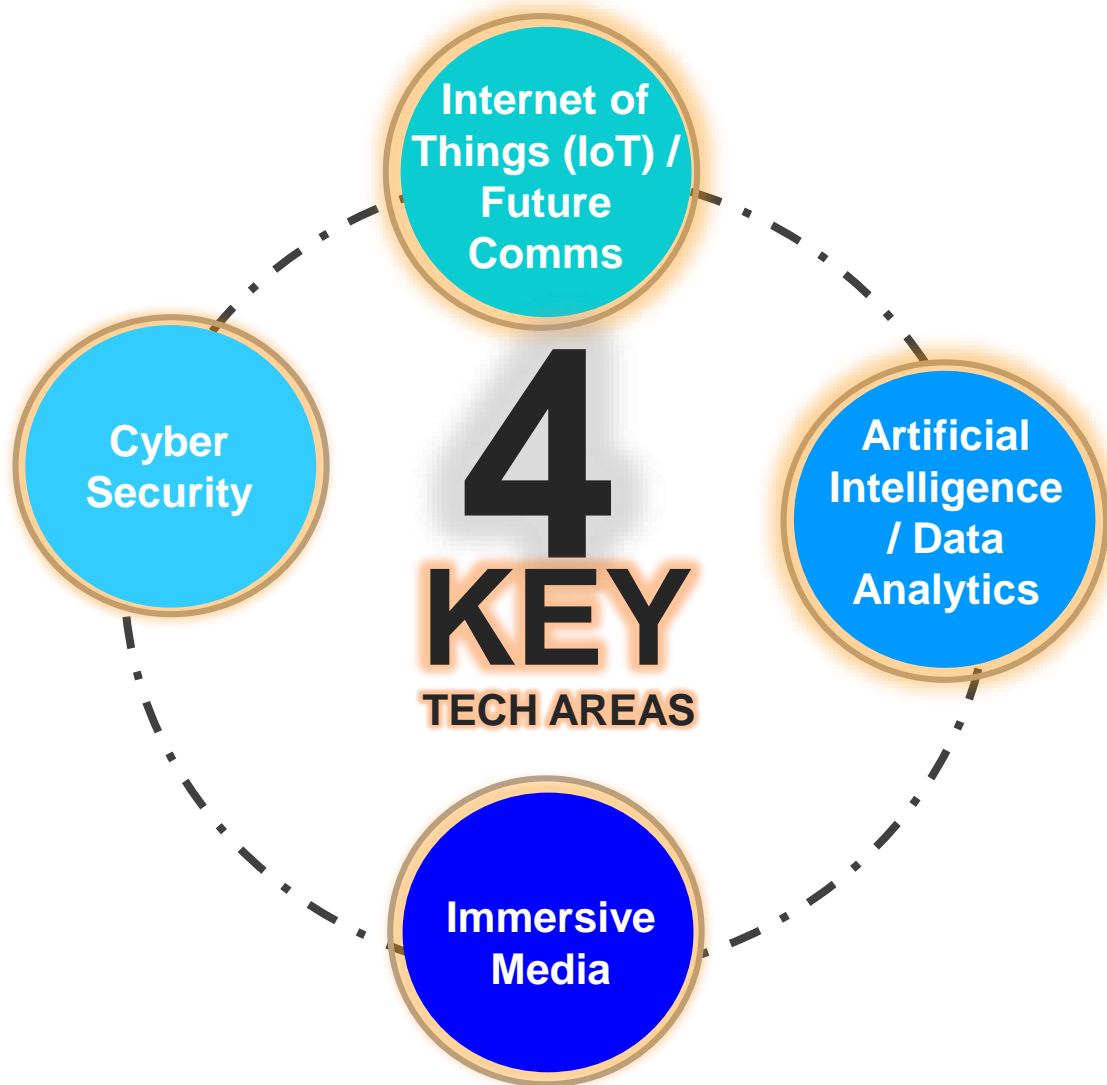
SINGAPORE'S DIGITAL ECONOMY

The Digital Economy is the network of economic activities that are enabled by infocomm and media technologies. These activities include but are not limited to digital communications, business transactions, education etc using the internet and/or other digital devices



*Note: ICM as a horizontal enabler is covered under the CSIP Horizontal: "Leveraging ICT as an enabler" which spans across all 23 ITMs / 6 CSIP Sub-Committees.

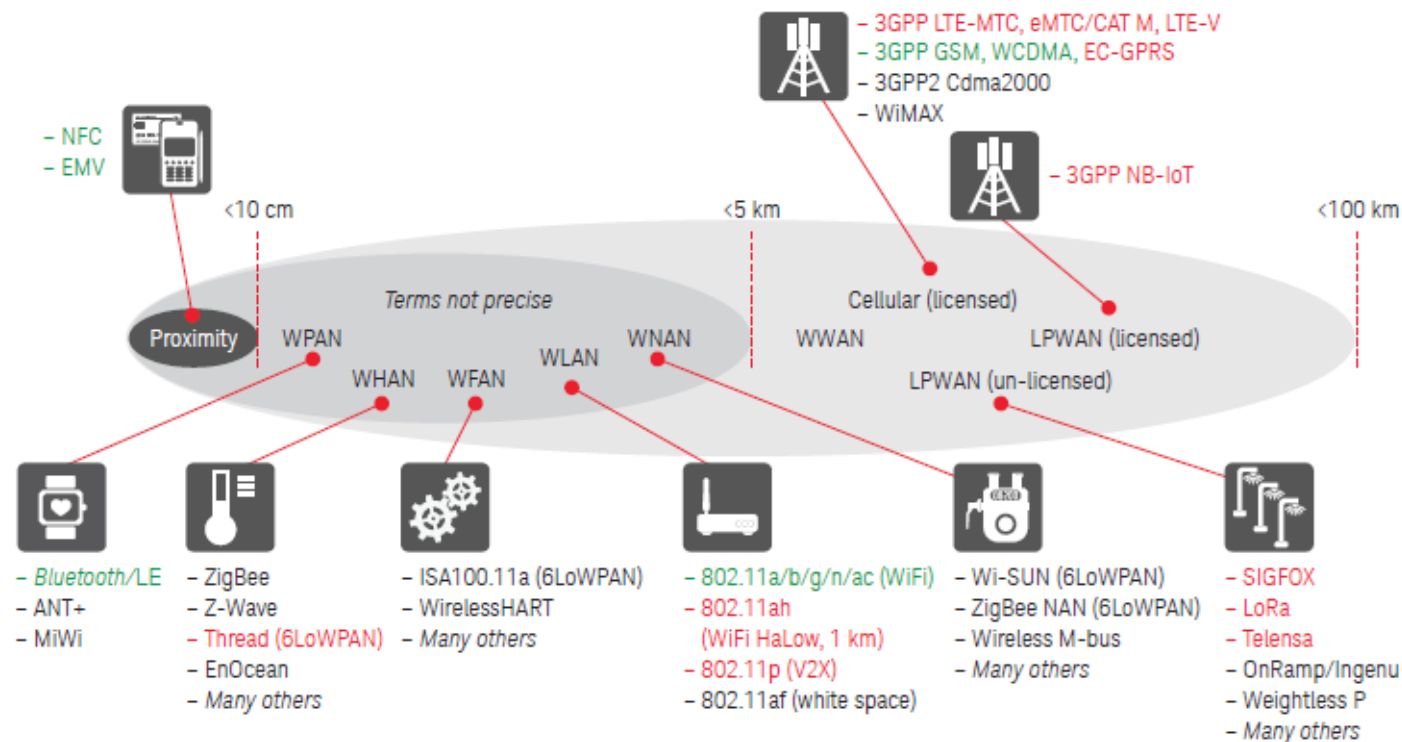
FOUR KEY DISRUPTIVE TECHNOLOGIES IDENTIFIED



**HUGE POTENTIAL FOR GROWTH
& OPPORTUNITIES**

**Projected compound annual
growth rate of between 9% to 33%**

NEED FOR STANDARDISATION



■ : > Billion units/year now
 ■ : Emerging

WPAN: Wireless Personal Area Network
 WHAN: Wireless Home Area Network
 WFAN: Wireless Field (or Factory) Area Network
 WLAN: Wireless Local Area Network

WWAN: Wireless Wide Area Network
 LPWAN: Low Power Wide Area Network

Interoperable?
 Reliable &
 Safe?



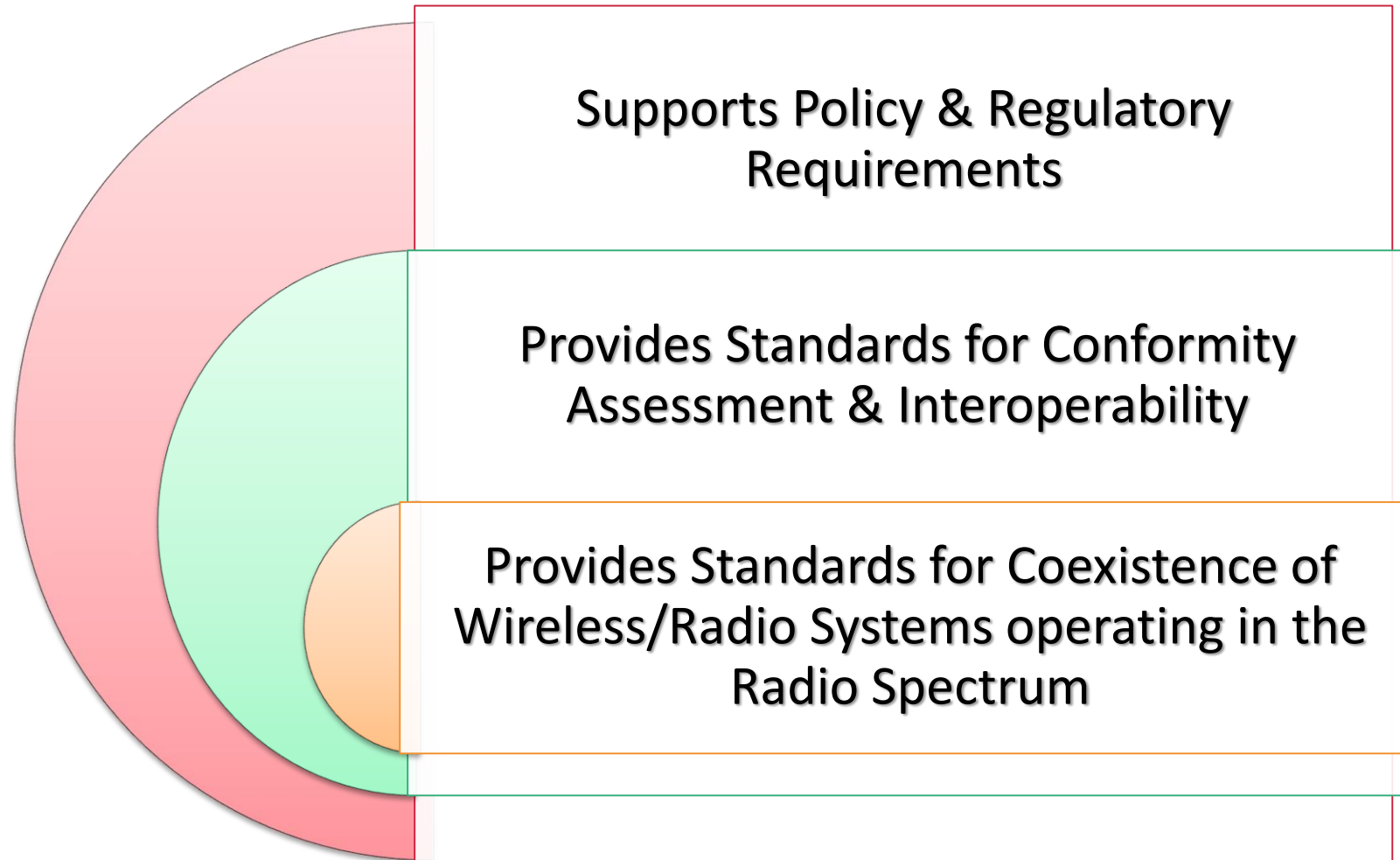
IMDA'S TELECOMMUNICATIONS ACT

Telecommunications Act - IMDA to regulate the sale and use of infocomm equipment in Singapore

- Manufacturers and equipment dealers must demonstrate compliance with IMDA's standards



PURPOSE OF IMDA STANDARDISATION



TELECOMMUNICATIONS STANDARDS ADVISORY COMMITTEE (TSAC)

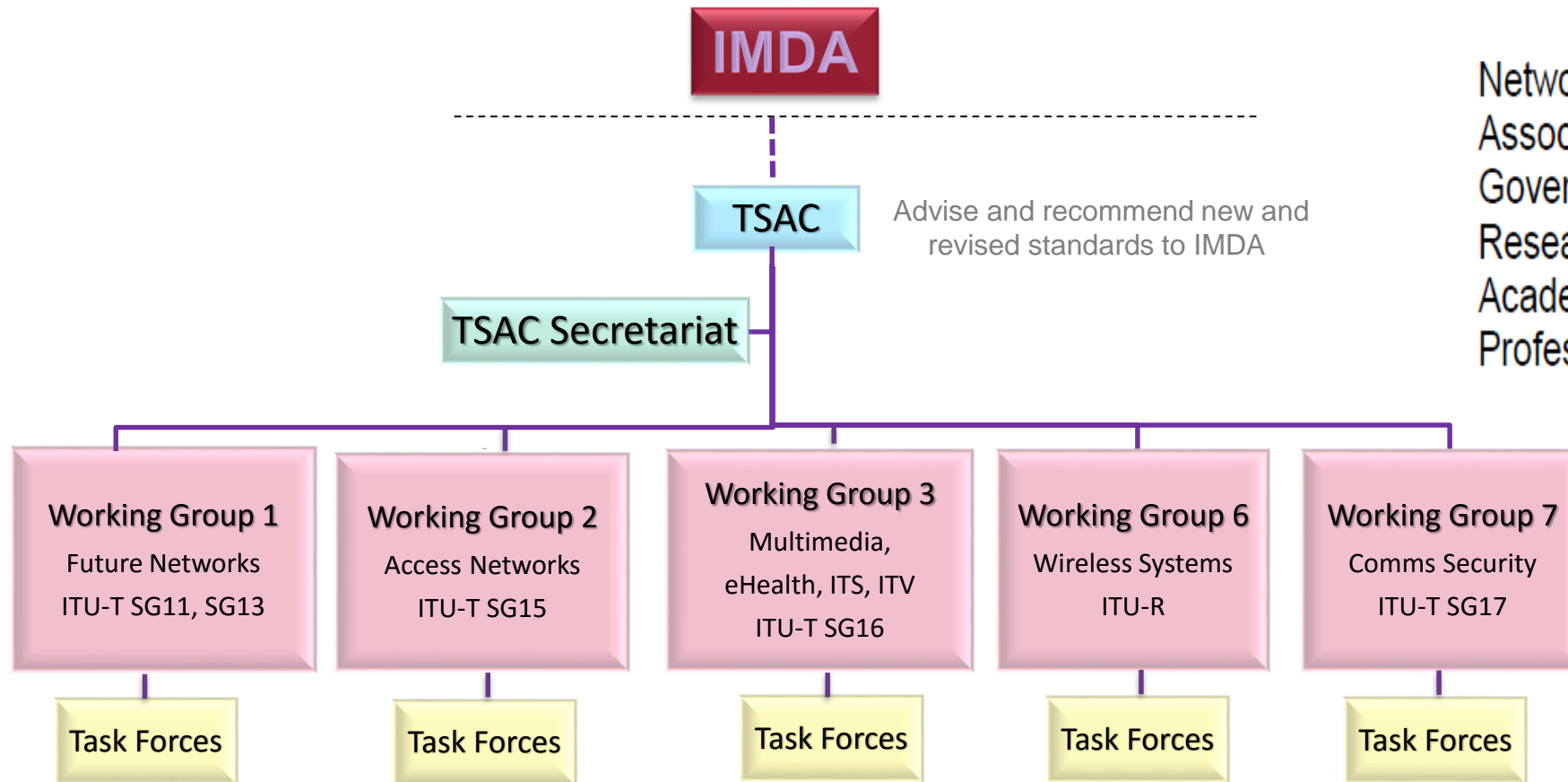


Set strategic direction
Work programme priorities
Procedures for standards-setting

Advises IMDA on infocommunications standardisation
Represents professional, trade and consumers' interest
in ICT

Addresses standardisation work items

TELECOMMUNICATIONS STANDARDS ADVISORY COMMITTEE (TSAC) STRUCTURE

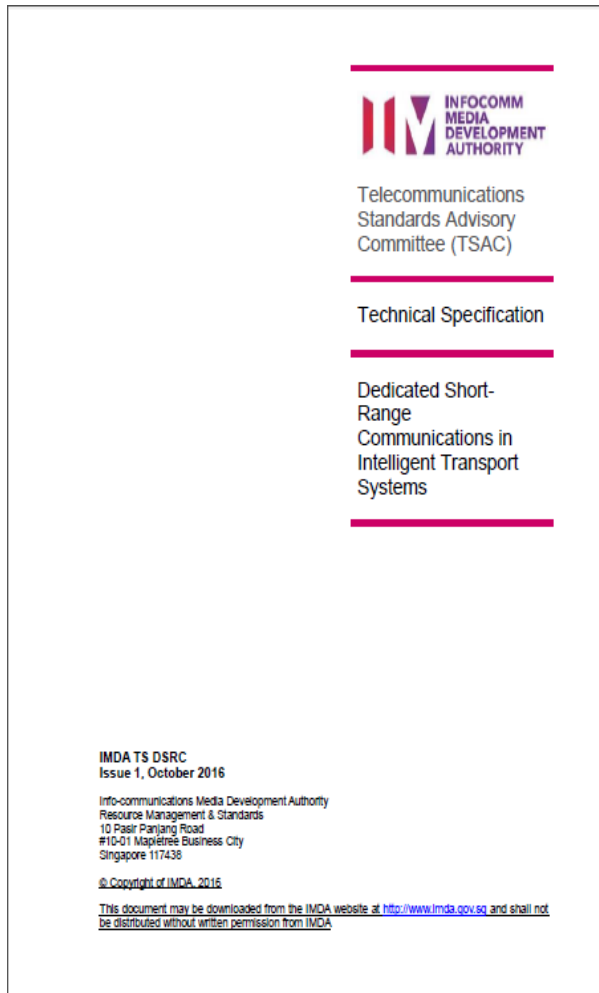


Membership:

Network & Service Operators
Association(s) of Suppliers/Manufacturers
Government Agencies
Research Institute(s)
Academia
Professional Bodies

KEY TSAC ACTIVITIES

Singapore's 5.9GHZ ITS-DSRC Technical Standards



Published on 6 Oct 2016

<https://www.imda.gov.sg/~media/imda/files/regulation%20licensing%20and%20consultations/ict%20standards/telecommunication%20standards/radio-comms/imda%20ts%20dsrc.pdf?la=en>

In progress...

Comms security to support Singapore's 5.9GHz ITS-DSRC Technical Standards



KEY TSAC ACTIVITIES

- **IoT Technical Specification**
- **Comms Security to Support Singapore's IoT technical Specification – Low OverHead Encryption for IoT (LOHEI)**
- **Future Networks**
- **eHealth**



CHALLENGES

- **Small markets in Singapore**
- **Competing interests from the industry stakeholders**
- **Technology advances ahead of standardisation works**



THANK YOU

