



# Industry Summit, Promoting Digital Indonesia Socio-economic Benefits of the Digital Transition and Key challenges Thursday 6 February 2020, Jakarta



**Industry Summit**Promoting Digital Indonesia

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Key challenge three: regulatory enablers





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Key challenge three: regulatory enablers



2G

3G

4G

5G



All about calls and texts

The start of mobile data

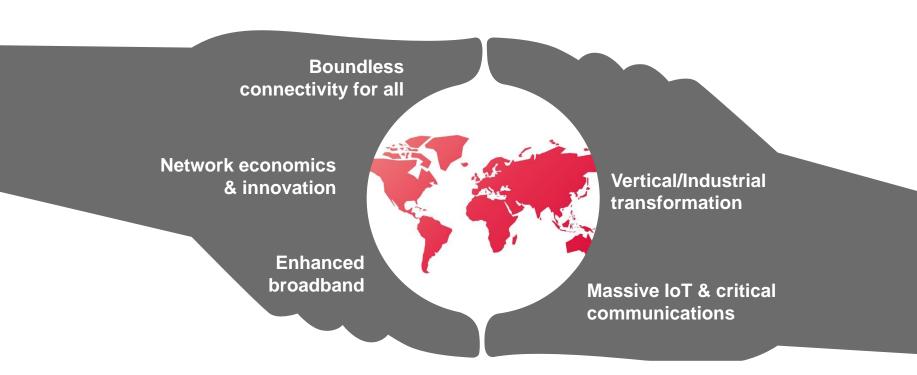
The arrival of mobile broadband services and applications

The network adapts to the application

Ultra high speed Ultra low latency New applications

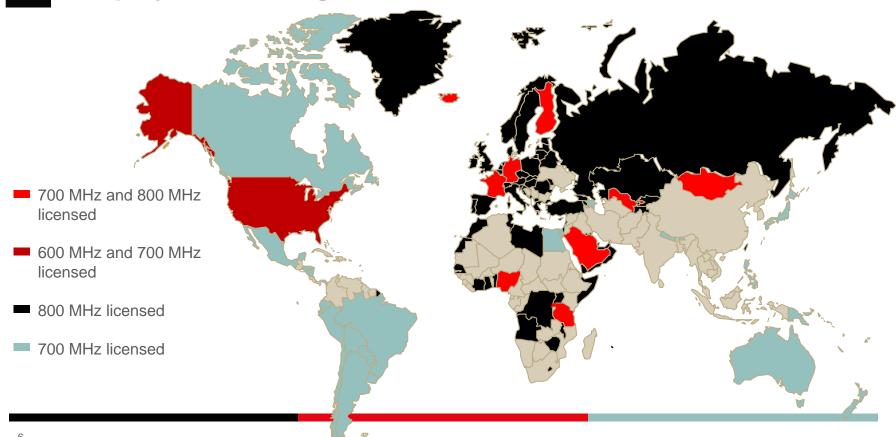


# 5G era goals





### **Deployments of Digital Dividend**

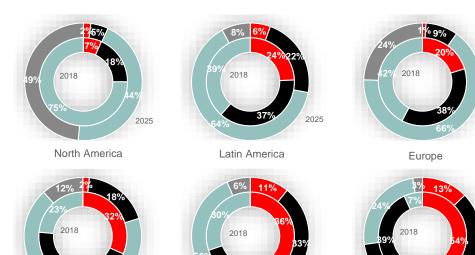




### The rise of mobile broadband

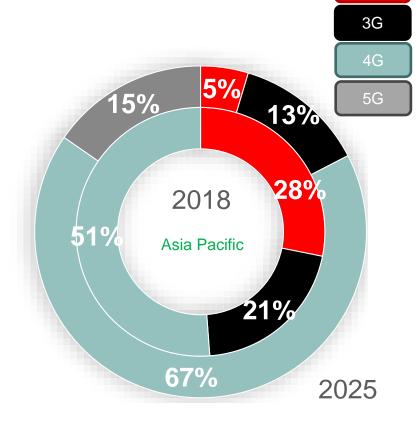
#### Regional connections by technology

2025



MENA

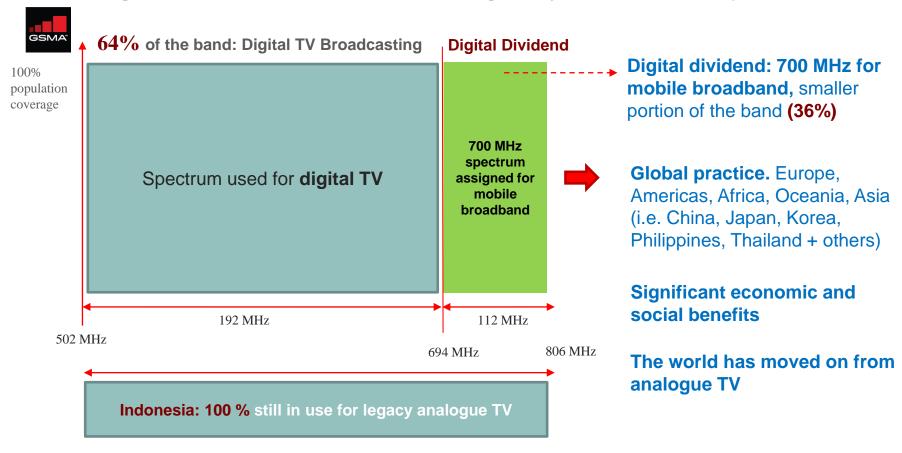
Sub-Saharan Africa



2G

Commonwealth of Independent States

### Digital television & mobile broadband: a globally standardized adoption





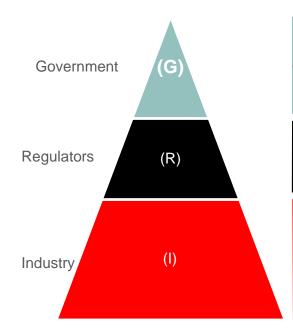
# Urgent milestones needed for Indonesia to benefit from digital transition and realize the digital dividend



- 1) Broadcasting Act amendment: sunset provision on spectrum rights used by legacy analogue TV broadcasting as soon as possible
- 2) Analogue TV switch-off date: announcement of ASO date. Implement Digital Switch Over (DSO) plan to convert to digital TV
- 3) 700 MHz release date for mobile broadband: announce and implement the assignment of the 700 MHz spectrum for mobile broadband (digital dividend)



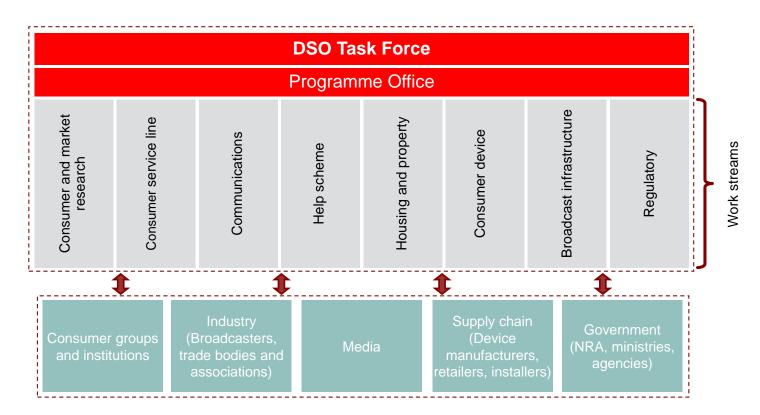
### **DSO** challenges



- 1. Develop DSO policy and legal framework
- 2. Establish plan for ASO
- 3. Develop funding policy
- 4. Establish principles for help scheme
- 1. Decide on technology and standards
- 2. Implement licensing framework
- 3. Manage radio spectrum and coordination matters
- 1. Develop consumer proposition
- 2. Establish DTT branding and conformance regime
- 3. Develop communications plan
- 4. Plan and deploy DTT network
- 5. Establish receiver specifications and costs



### DSO challenges: a national taskforce has helped in many countries





### **DSO: recommendations**

Step 1: Accelerate DSO

Step 2: Consider national frequency table

Step 3: Engage and consult

**Step 4: Determine optimal allocation** 

Step 5: Public announcements

Step 6: Address spectrum management issues



# Releasing the 700 MHz digital dividend: Licensing terms and conditions

### LICENCE TERMS & CONDITIONS CAN SUPPORT NETWORK EVOLUTION & INVESTMENT

License duration of 15 to 20 years

Remove service and technology restrictions

Use coverage obligations with caution and target them

Avoid restrictive and onerous conditions

Use annual fees to recoup costs – not maximise revenues

#### RENEWAL PROCESS SHOULD AVOID RISKING INVESTMENT & SERVICE CONTINUITY

Establish a license-renewal process inc consultation 3-4 years in advance

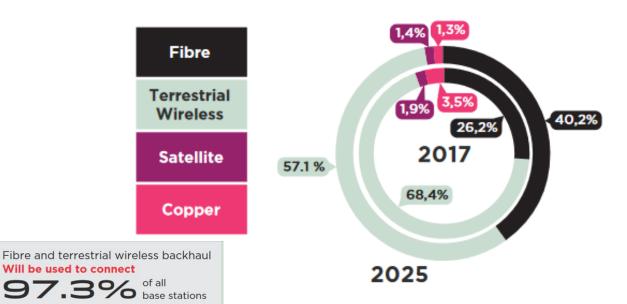
A presumption of renewal (unless terms breached) supports service continuity and investment

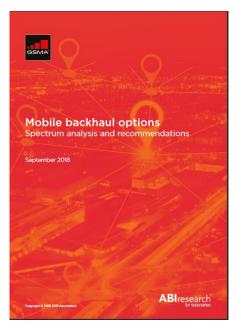
Renewal should be predictable and avoid introducing new terms which jeopardise Rol



### The growing need of spectrum for backhaul

 Terrestrial wireless backhaul is the most popular backhaul method today, and will still have the largest worldwide share by 2025.







# In summary, the 700 MHz digital dividend spectrum should be made available:



### AT THE RIGHT TIME

The earlier the better

Use a spectrum roadmap



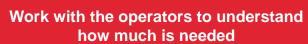
## UNDER THE RIGHT CONDITIONS

**Technology Neutrality is very important** 



### IN SUFFICIENT QUANTITY

Capacity crush in cities will define the commercial offering of an operator





#### AT THE RIGHT PRICE

Auctions should determine the price