Industry Summit, Promoting Digital Indonesia

Socio-economic Benefits of the Digital Transition and Key challenges

Thursday 6 February 2020, Jakarta

GSMA

S. ASEAN International Advocacy & Consultancy

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KOMINFO

Key challenge two: national digital switch-over implementation

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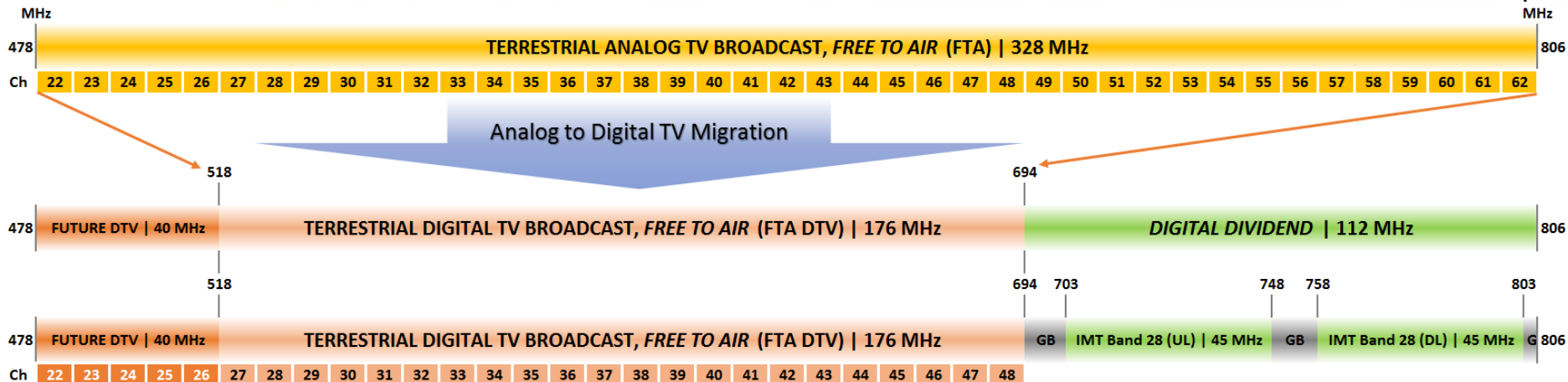# NATIONAL DIGITAL SWITCH-OVER (DSO) IMPLEMENTATION

Dr. Denny Setiawan, Director of Spectrum Policy and Planning

GSMA Industry Summit

Jakarta | 6 February 2020

Ministry of Communications and Informatics (MCI)
Republic of Indonesia

700 MHZ PLANNING

MHz

| 478 | TERRESTRIAL ANALOG TV BROADCAST, *FREE TO AIR* (FTA) | 328 MHz | 806 |

Ch | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 |

Analog to Digital TV Migration

518 | 694

| 478 | FUTURE DTV | 40 MHz | TERRESTRIAL DIGITAL TV BROADCAST, *FREE TO AIR* (FTA DTV) | 176 MHz | *DIGITAL DIVIDEND* | 112 MHz | 806 |

518 | 694 | 703 | 748 | 758 | 803

| 478 | FUTURE DTV | 40 MHz | TERRESTRIAL DIGITAL TV BROADCAST, *FREE TO AIR* (FTA DTV) | 176 MHz | GB | IMT Band 28 (UL) | 45 MHz | GB | IMT Band 28 (DL) | 45 MHz | G | 806 |

Ch | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

Directorate of Spectrum Policy and Planning. MCI, Indonesia

Future DTV (22-26):
Reserved for upcoming terrestrial DTV developments (e.g next video codec, etc)

DTV FTA (27-48):
Migration from analog to digital TV broadcast.
FTA
DVB-T2, MPEG-4
MFN and SFN

Digital Dividend (49-62):
Reserved for mobile broadband service for public, rural communication, and as enabler for digital economy, disaster relief, intra-government communication, long-distance education, health service.

ANALOG TV, FACTS & FIGURES

Remarks	Service Area	Areas (est.)	Populations (est.)
Not-Occupied by Analog TV	95 (43%)	313 (61%)	96,000,107 (37%)
Occupied by Analog TV not using APT700	41 (18%)	40 (8%)	16,303,771 (6%)
Occupied by Analog TV using APT700	86 (39%)	161 (31%)	148,838,507 (57%)
Total	222	514	261,142,385

*Areas calculated by number of cities/regencies

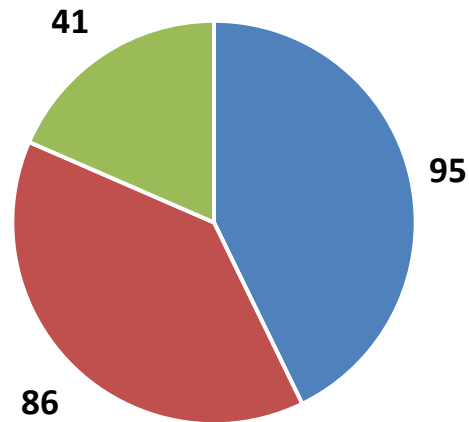| Public Broadcasters	Community Broadcasters	Commercial Broadcasters
• 1 national (TVRI) • 20 regional (municipalities)	• 18 communities	• 487 affiliated • 202 non-affiliated

Analog TV Service Area

- ■ Not Occupied
- ■ Occupied, using APT700
- ■ Occupied, not using APT700
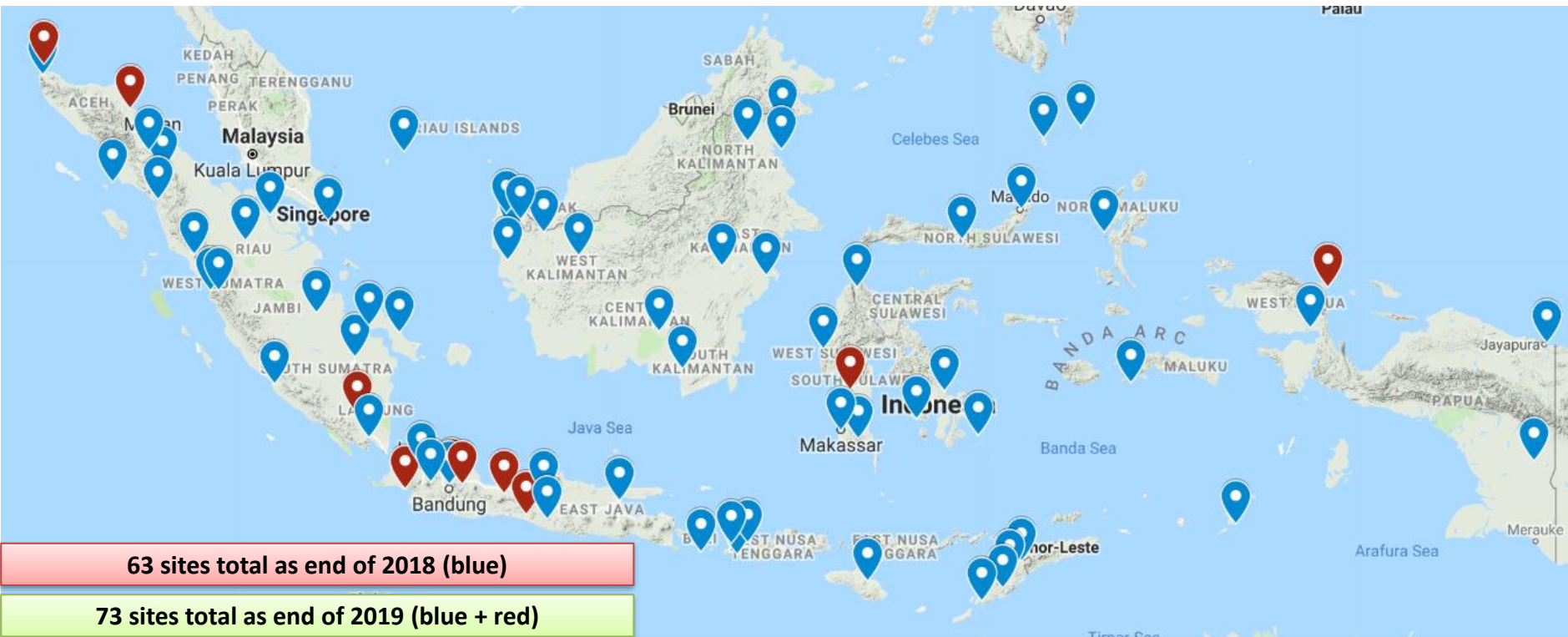
DSO, WHERE ARE WE?

ATV = Analog TV
DTV = Digital TV

WE ARE here

Simulcast Staging						ASO Staging	
2019 Aug	**2019 Oct**	**2019 Nov**	**2020 Jan**	**2020 Mar**	**2020 Dec**	**2021 Apr**	**2022 Apr**
• Officially launched DTV simulcast (3 border area) • TVRI and commercial MUXs	• Submission of National Priority Legislation • 5 ATV in Batam migrated into digital • Assigment of MUXs in 12 provinces	• Sounding DTV Task Force • Simulcast in 12 provinces	• Simulcast in 12 provinces	• Preparation for simulcast in 22 provinces	• Expected establishment of new Broadcasting Act	• Expected nation-wide simulcast • Expected partial ASO	• Expected ASO completion in National Broadcasting Day

TVRI UHF DTV INFRASTRUCTURE

63 sites total as end of 2018 (blue)

73 sites total as end of 2019 (blue + red)

DSO CHALLENGES

Finalisation of new Broadcasting Act

- **ASO date**

DTV Infrastructure & coverage

- **TVRI MUX**
- **Commercial MUXs**

Incentive and disincentive for industry

- **Incentive for simulcast**
- **Incentive for migration**
- **Disincentive for analog**

Public Relations

- **Public awareness**
- **DTV "Killer Content"**
- **DTV receiver market availability**
- **DTV receiver penetration**

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