

Global trends in 5G and beyond: snapshots from recent Cullen International research

30th OSIPTEL anniversary

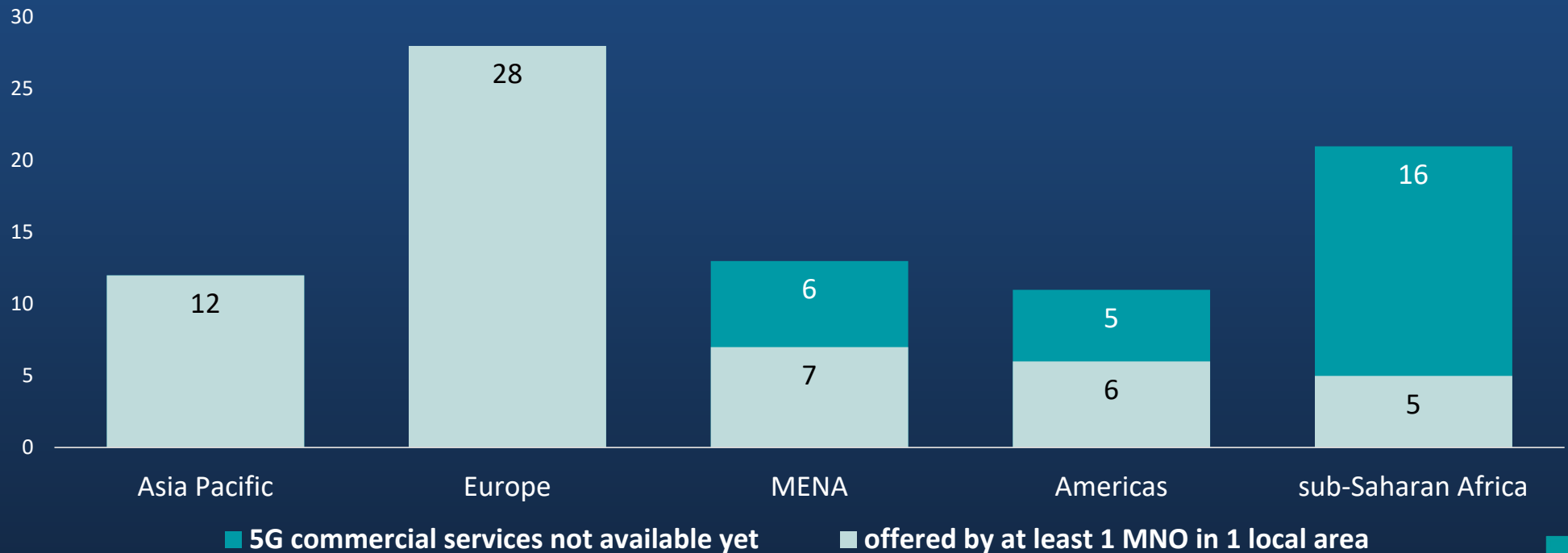
Lima, 14 March 2024

Elena Scaramuzzi, Head of Global Research, Cullen International

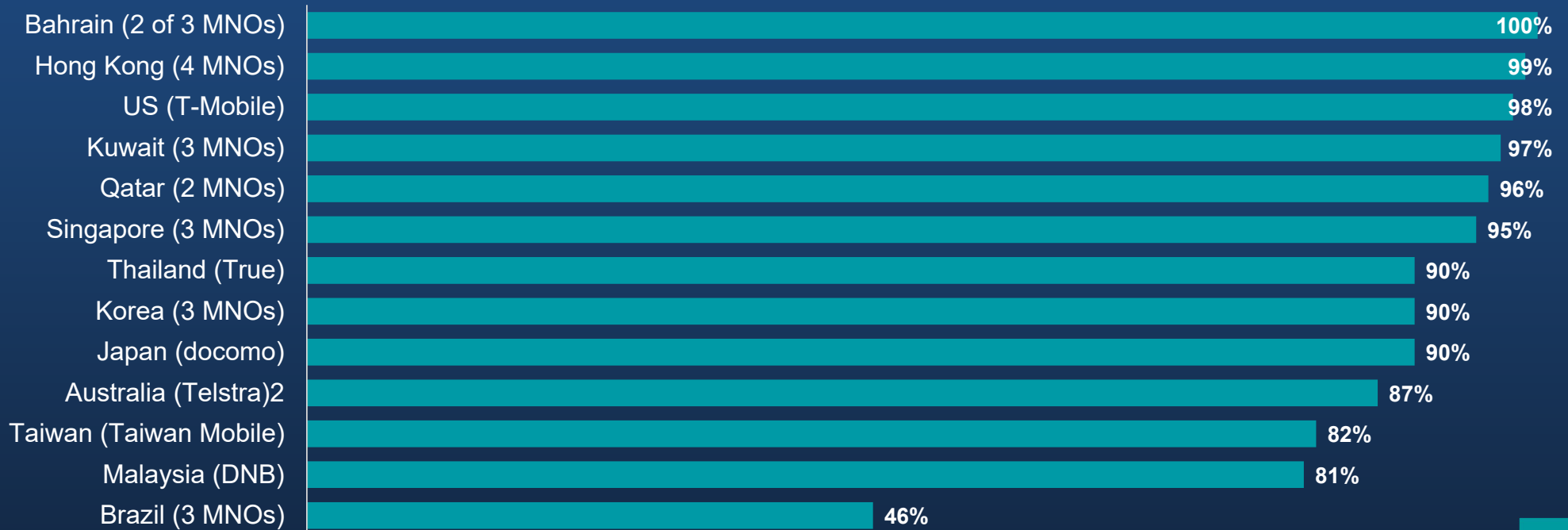
Global Trends research on “5G and beyond”

1. Status of deployments, if any, by individual MNOs across all regions in the World. What type of deployments? What is available in the market? Trends on supply and demand, incl. take-up statistics where available.
2. Policies put in place by governments capable of generating concrete impacts on 5G availability and affordability (spectrum availability, access to key infrastructure, incentives on supply and demand, policies on technology providers, or on the use of the networks).
3. Spectrum assignments, by type and including terms and conditions on the use of radio spectrum (fees, coverage & quality obligations, flexibility in the use of radio spectrum).
4. Towards 6G

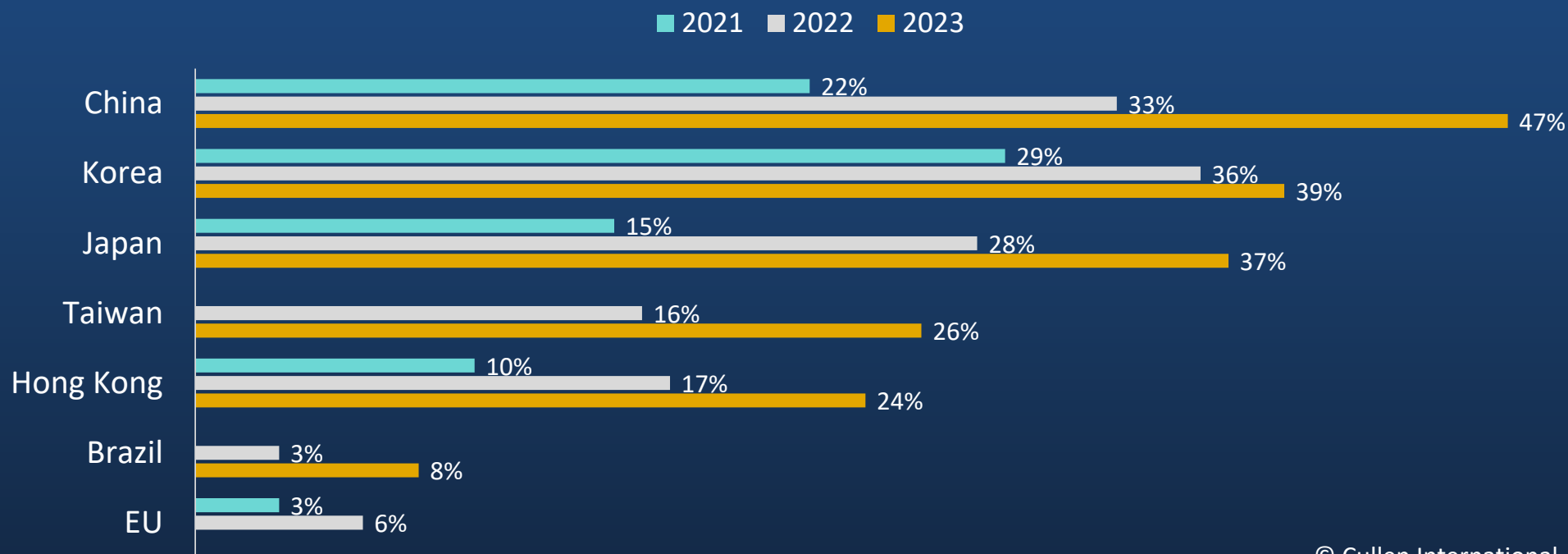
Commercial availability of 5G services in 85 countries surveyed















High diversity in 5G population coverage across countries















5G take-up



Deployment-friendly policies for 5G: selected examples

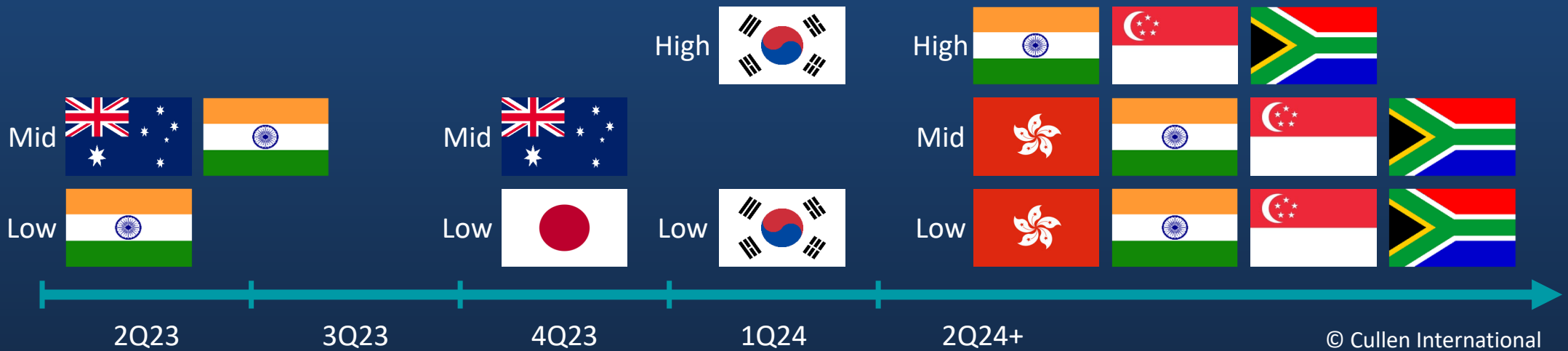
												
	AU	BR	CN	EU	HK	IN	JP	SK	NZ	SG	TW	US
OPERATIONAL												
Planning of sites, small antennas	✓	✓	✓	✓				✓				✓
Facilitating rural deployments					✓		✓		✓			✓
RoW access to public and private infra			✓	✓	✓	✓		✓		✓	✓	✓
Sharing and co-deployments			✓				✓				✓	
FINANCIAL												
5G use cases, innovation, R&D	✓	✓		✓	✓	✓	✓	✓		✓		
Tax exemptions infra stimulus		✓	✓	✓	✓		✓	✓				
Capacity upgrades			✓	✓			✓		✓		✓	✓

Spectrum for 5G

												
ASSIGNMENT METHODS	AU	BR	CN	HK	IN	JP	SK	NZ	SG	ZA	TW	US
Auction	✓	✓		✓	✓		✓			✓	✓	✓
Beauty contest						✓			✓			
Direct assignment			✓					✓				
USE CONDITIONS												
Coverage obligations		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Access/sharing obligations			✓			✓	✓					
Use or lose provisions				✓	✓		✓	✓				✓
Specific quality requirements for 5G		✓							✓			✓

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A few relevant spectrum awards



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First steps towards 6G

Activities	Government focus						
Government strategy							
Radio spectrum (6 GHz)							
R&D							

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**PASADO Y FUTURO DE LAS
TELECOMUNICACIONES
EN EL PERÚ**

Thank you!

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