

Incentives to foster investment for digital services

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Intelligently Connecting Everyone and Everything to a #BetterFuture

The mobile industry is the first to formally commit to the UN Sustainable Development Goals

Representing the interests of







Hosting the world's leading mobile industry events, MWC Barcelona, MWC Shanghai, MWC Los Angeles and the Mobile 360 Series attract

230,000 people from across the globe

The GSMA works to deliver a regulatory environment that creates value for consumers by engaging regularly with





TELECOMS REGULATORY AUTHORITIES



INTERNATIONAL & NON-GOVERNMENTAL ORGANISATIONS



MOBILE CONNECTIONS WORLDWIDE





Promote industry best practice, harmonise operational frameworks and standards



Mobile ecosystem contribution to public funding (before regulatory and spectrum fees)



Plus 350,000 indirect jobs





*Excluding licensed cellular IoT



Operator revenues and investment

Total revenues

Operator capex of **\$38.8 billion** for the period 2019-2025

524.2bn



The CIS is a diverse geography, with headline numbers masking markets at different stages of development



Unique mobile subscribers Subscriber penetration (%) (millions)



Snapshot: Ukraine





15

Following 3G's peak, 4G is set to take the lead in 2021, reaching 290 million connections by 2025

Percentage of connections (excluding licensed cellular IoT)





With the majority of launches a few years away, critical mass for 5G in the CIS is still some way off

Millions





2025 view – 5G customer adoption



5G connections (mln)*

These five economies will account for ~70% of the 1.5 billion 5G mobile connections expected globally by 2025

Source: GSMA Intelligence. * Excluding licensed cellular IoT and fixed wireless



5G commercialisation



	Country	Operator	Country	Operator
	Australia	Optus	Philippines Qatar	Globe Telecom Vodafone
	Austria	TOIStia	Romania	Digi Mobil Vodafone
un an	Bahrain	Batelco Viva	South Africa	Rain
			Hungary	Vodafone
	Finland	TeliaCompany Elisa	Saudi Arabia	STC
	Germany	Vodafone	Spain	Vodafone
	Ireland	Vodafone	Switzerland	Sunrise
	Italy	TIM		Swisscom
		Vodafone	UAE	du
	South Korea	KT LG Uplus SK Telecom		Etisalat
			UK	Three EE
	Kuwait	Ooredoo Viva Zain		O2 Vodafone
			USA	AT&T Sprint T-Mobile Verizon Wireless
	Maldives	Dhiraagu		
	Monaco	Monaco Telecom		

Data correct to 28 **October** 2019 For updates, see gsmaintelligence.com







Policy and Regulatory foundation





How strongly Countries believe in the benefits 5G will bring to its citizens and economy



Willingness to sacrifice the small shortterm gains for the bigger, long-term, benefits



Spectrum: Policy Challenges





INFORMATION TO BE SENT BY THE SYSTEM





Deployment: EMF Policy





Several European and CIS countries do not apply the international ICNIRP guidelines

As a result, citizens are affected by less efficient mobile network deployment

EMF issues will be compounded given the propagation characteristics of 5G frequencies



Deployment: Siting Policy





Multi-layered (National, Regional, Local) and very bureaucratic with a heavy administrative burden

5G deployment will need a significantly higher number of sites (2-3x times) than previous generations

Streamlining and simplifying the process will significantly help 4G and 5G deployment



Concluding remarks

• Growth and development in the CIS region is going well

• Although 5G is sometime away, a solid 4G foundation will be fundamental

• Applying forward-look policies, especially on spectrum and deployment will have a big impact on investment