



Spectrum licensing best practice

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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
jeopardize Roll out



Licensing Challenges

What spectrum will be available and when:

- To plan what spectrum operators need to invest in over the near-to-long term to meet rapidly growing data demand (this should encompass coverage & capacity bands, existing and future bands)

Regulatory certainty:

- e.g. allocation methodologies, renewal procedure, projects and programme

Licensing regime:

- e.g. refarming, resource pricing, spectrum sharing

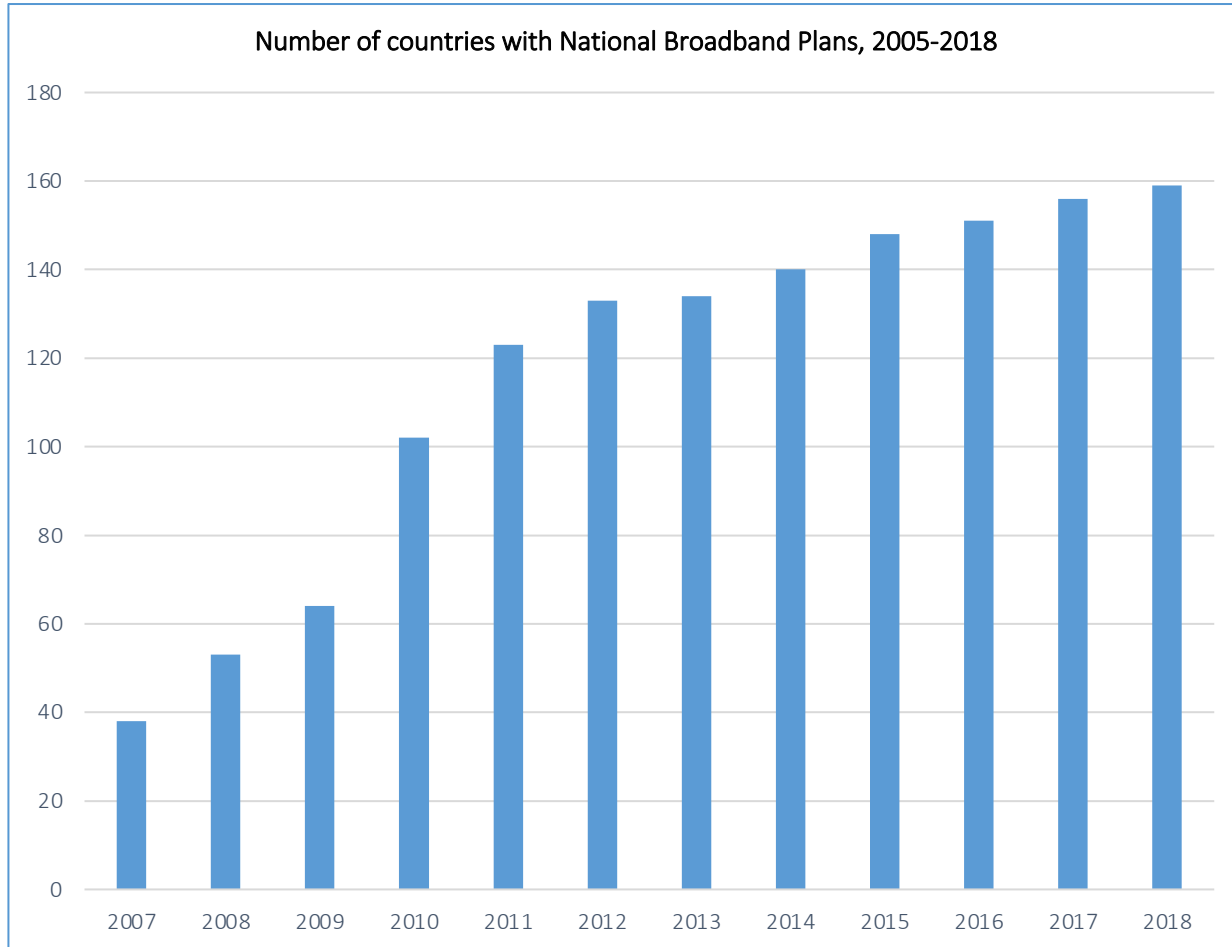
Harmonised future spectrum:

- To reduce equipment costs, limit interference and enable roaming

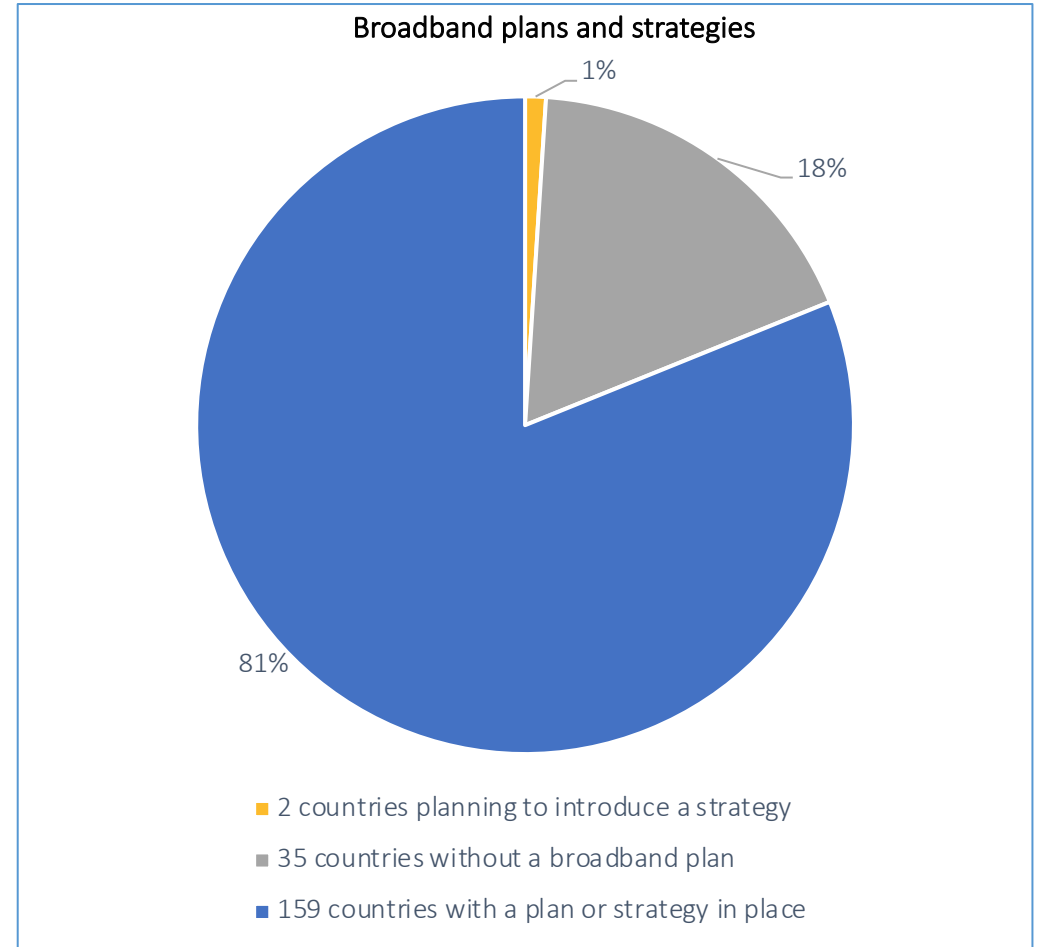




Spectrum Roadmaps



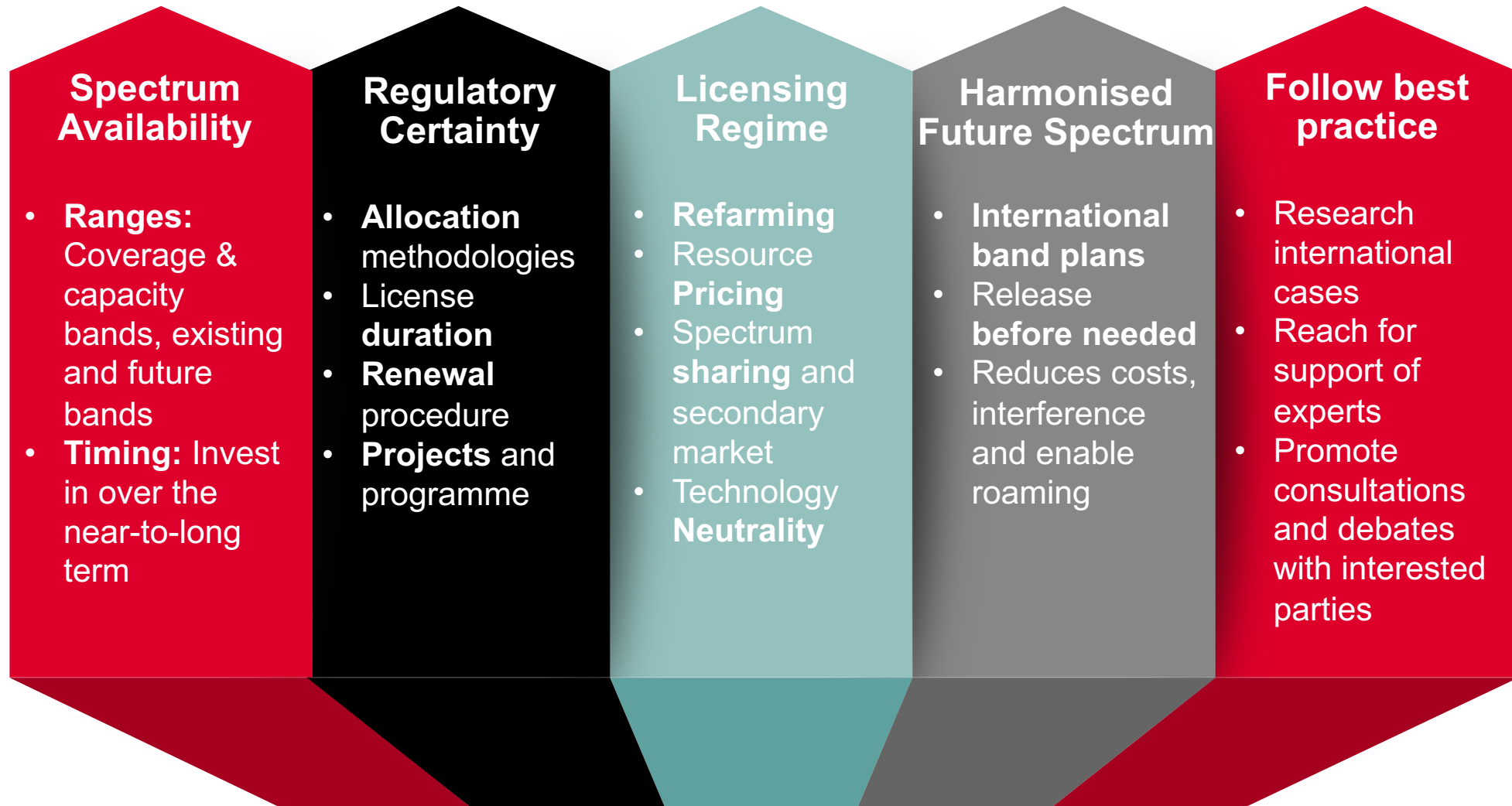
Source: ITU



Source: ITU, The State of Broadband 2018



Spectrum Roadmap: How to plan?





Impacts of higher spectrum prices



Network Coverage



Network Quality



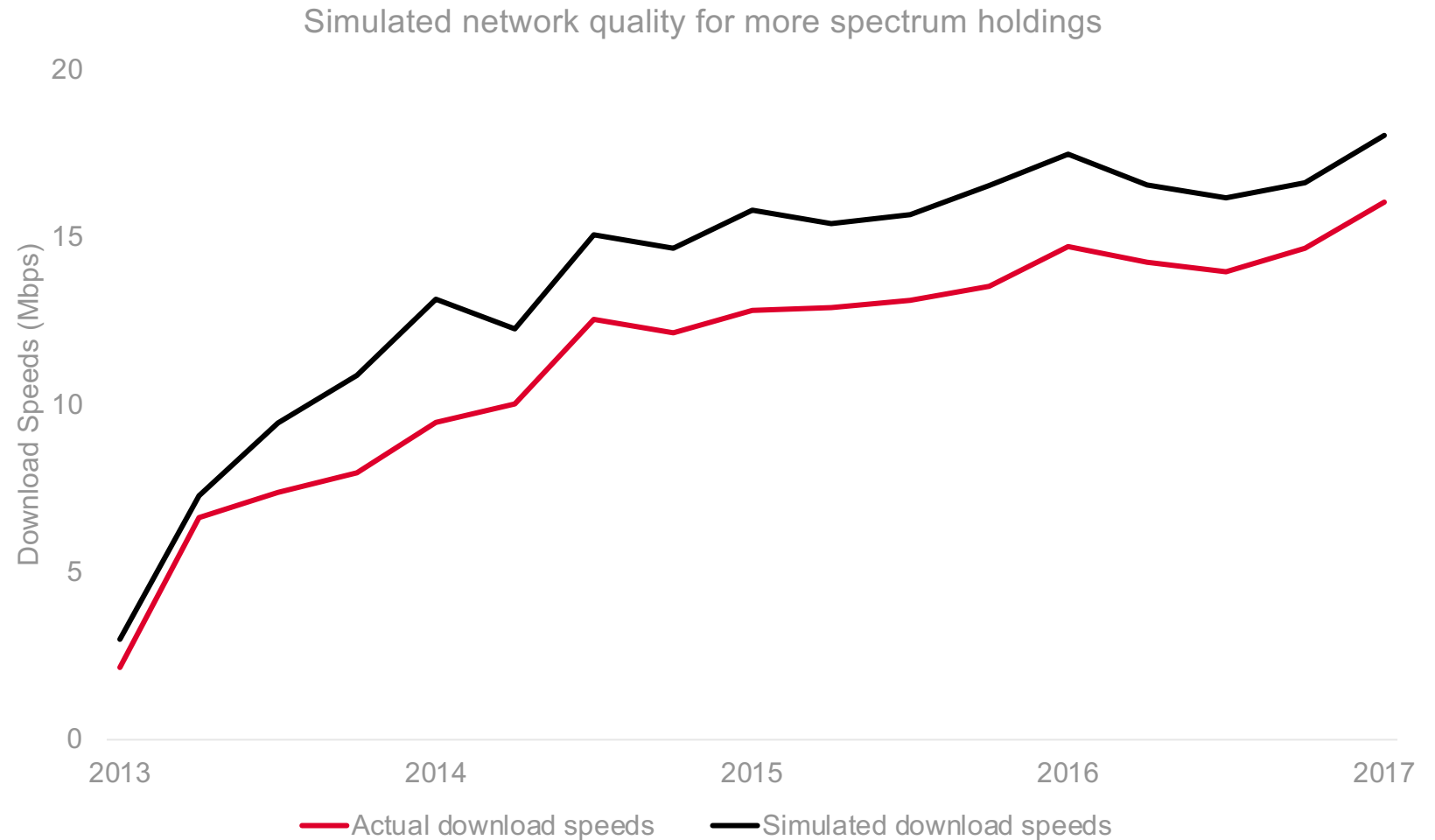
Consumer Prices

Analysis based on 229 operators in 64 countries (34 high income and 30 low & middle income) from 2010-2017



Spectrum holding impact on quality

- Amount of spectrum impacts network quality
- Compare actual with simulated download speeds if more spectrum released to operators with 20 MHz less than median
- Speeds would have been 2.5Mbps faster (15% increase) over the period if spectrum holdings had been at average levels





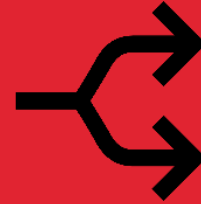
In summary, Spectrum should be made available:



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

Work with the operators to understand how much is needed

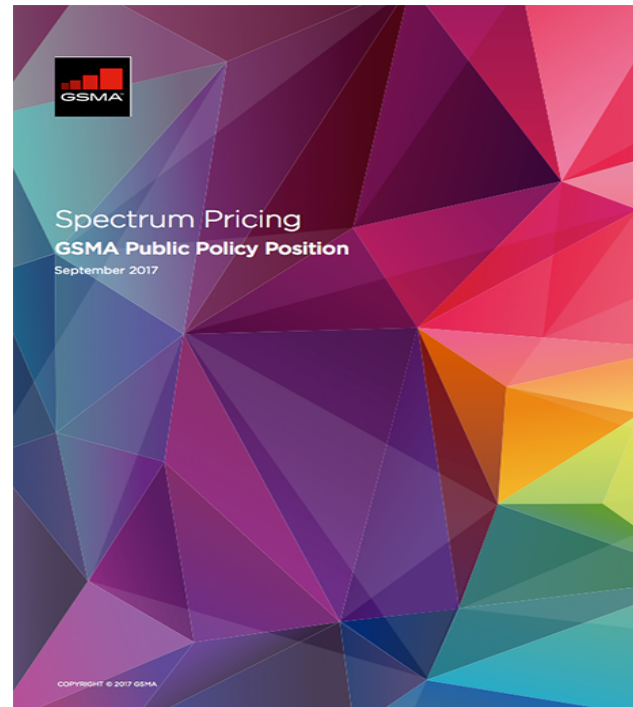


AT THE RIGHT PRICE

Auctions should determine the price



GSMA Studies



<https://www.gsma.com/spectrum>



Africa Awards Spectrum Report from GSMAi

We are delighted to invite you to participate in our webinar entitled, **'Spectrum Award Policies to Expand Mobile Connectivity'**.

Coinciding with the launch of GSMA's new report on spectrum availability and pricing for Africa, this 1 hour 45 minute event will discuss evolving spectrum best practice to drive investment in high quality, affordable, mobile broadband services.



Online event
Invitations to follow



Wednesday 4 November, 2020 English
Thursday 5 November, 2020 French
10:00-11:45 GMT.