WRC-15 AI 1.1

ADDITIONAL IMT SPECTRUM

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GLOBAL MOBILE DATA TRAFFIC IS EXPECTED TO INCREASE TENFOLD BETWEEN 2013 AND 2018

The growing adoption of data services has become the major source of traffic since 2010. Mobile data traffic is growing exponentially and can exceed forecasts dramatically.

Sources
Analysys Mason, Global Mobile Network Traffic, Nov 2013
ABI Research, Mobile Data Traffic & Usage, July 2013
Cisco VNI Mobile Forecast, Feb 2014
Ericsson Mobility Report, June 2014

Nb. ABI Research data missing for 2014-2016 so has been estimated.
HOW MUCH SPECTRUM IS NEEDED AT WRC-15?

KNOW YOUR NATIONAL MOBILE SPECTRUM REQUIREMENTS FOR 2020?

- ITU predicts 1340-1960 MHz total mobile spectrum required for mobile by 2020
  - GSMA research shows governments need to make 600-800 MHz more available at WRC-15
- New mobile bands MUST be identified at WRC-15 or it could be too late
  - Can take a decade or more to make new mobile bands available
  - Existing spectrum will meet near-term demand, WRC-15 is for demand in 2020-2025 - or later
  - Countries with lower spectrum requirements still benefit from future lower cost devices

MOBILE SERVICES WILL STRUGGLE TO MEET GROWING DEMAND WITHOUT MORE SPECTRUM
GSMA had agreed widespread mobile operator support for 4 new mobile allocations:
- Sub-700MHz UHF (470-694/8MHz)
- 2.7-2.9GHz
- L-Band (1350-1518MHz)
- C-Band (3.4-4.2GHz)

These provide coverage & capacity. These bands must be harmonised globally to drive lower cost equipment/services.
- Pursuing other bands risks creating a fragmented market.

TARGET BANDS FOR WRC-15

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency Range</th>
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<tbody>
<tr>
<td>470-694/8 MHz</td>
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<tr>
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<td>2.7-2.9 GHz</td>
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<td>3.8-4.2 GHz</td>
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WHAT'S AT STAKE GLOBALLY? NOT JUST MHz

At risk is the future development of cost effective mobile to meet the needs of consumers wanting ubiquitous data. This will impact...

**GDP**

2013 Mobile Industry Impact

US$ 2.4tn

3.6% GLOBAL GDP 2013

2020

5.1% Mobile industry estimated to contribute around 5.1% of global GDP in 2020

**Jobs**

10.5M JOBS 2013

15.4M JOBS 2020

Supported by mobile ecosystem

**Public Funding**

Contribution to public funding (excluding regulatory and spectrum fees)

US$ 336bn 2013

US$ 465bn 2020
## HOW CAN YOU HELP?

<table>
<thead>
<tr>
<th>BAND</th>
<th>PROPOSED POSITION</th>
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<tbody>
<tr>
<td>470-698 MHz</td>
<td>Support US, Canada, Mexico and Colombia proposal for IMT in the UHF-band</td>
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<tr>
<td>1427-1518 MHz</td>
<td>Support IAP for IMT in L-band supported by 15 administrations</td>
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<tr>
<td>3.4-4.2 GHz</td>
<td>Support converging proposal for IMT use in the lower part of the C-band</td>
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