

Desafíos de la planificación eficiente del espectro: Casos en América Latina

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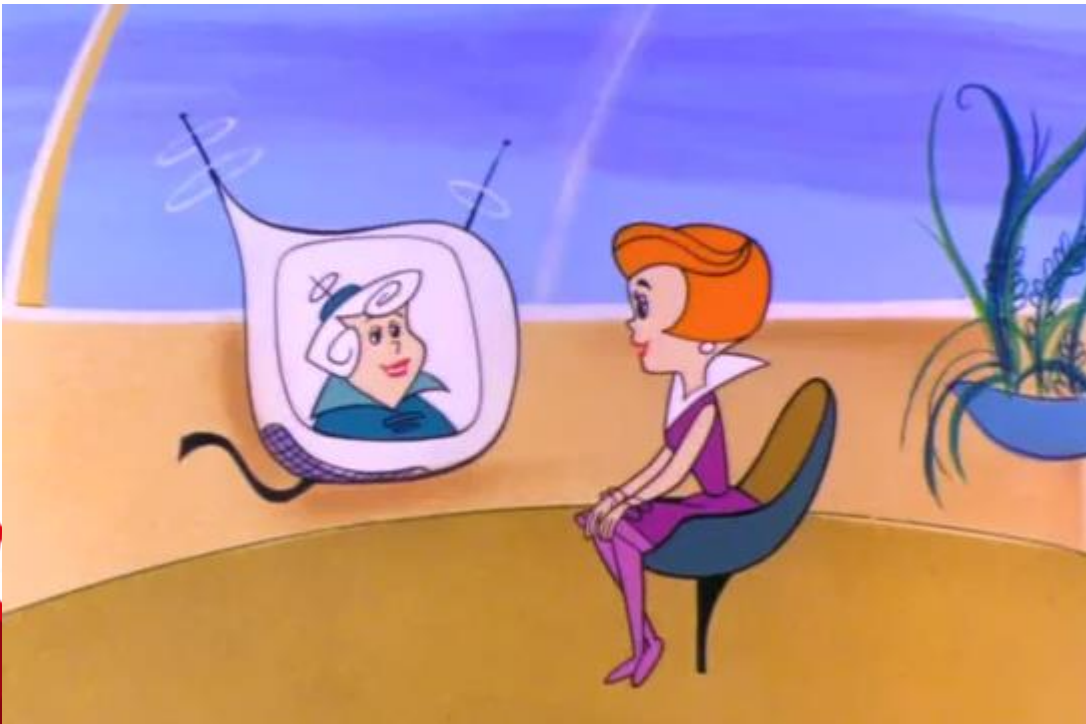
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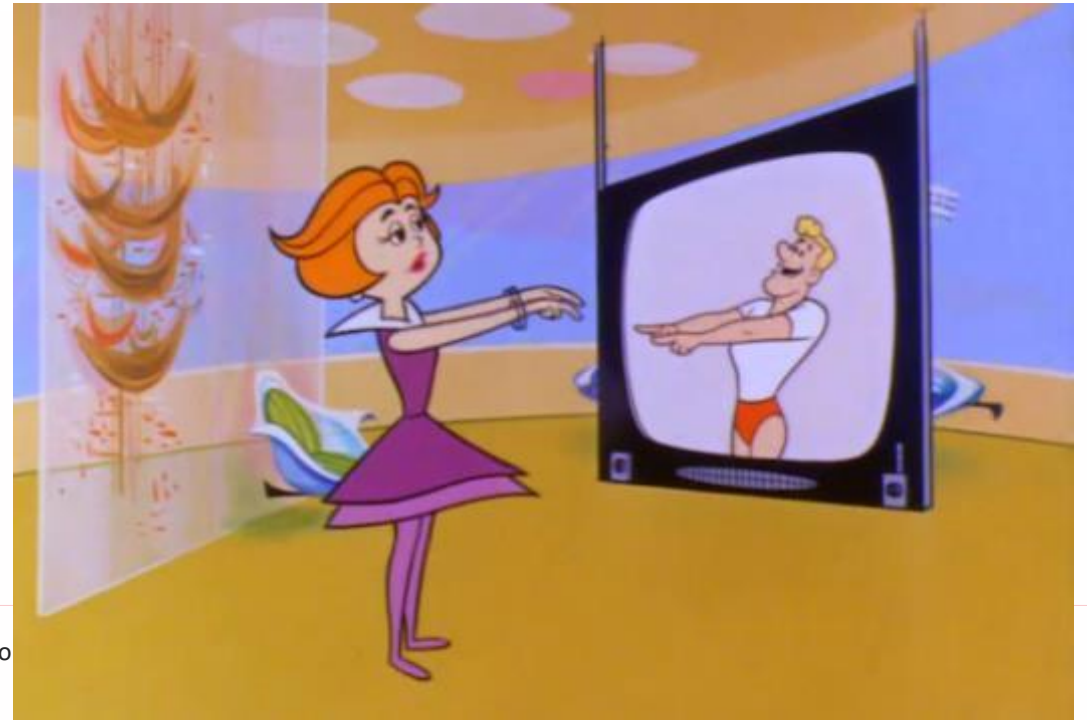
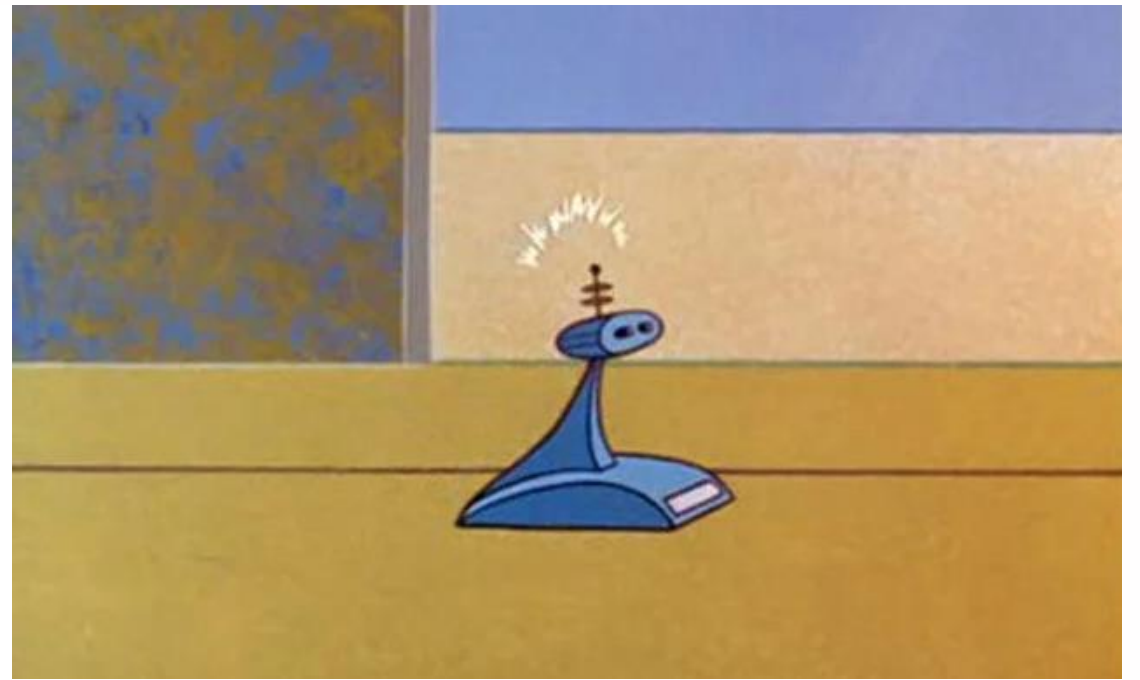
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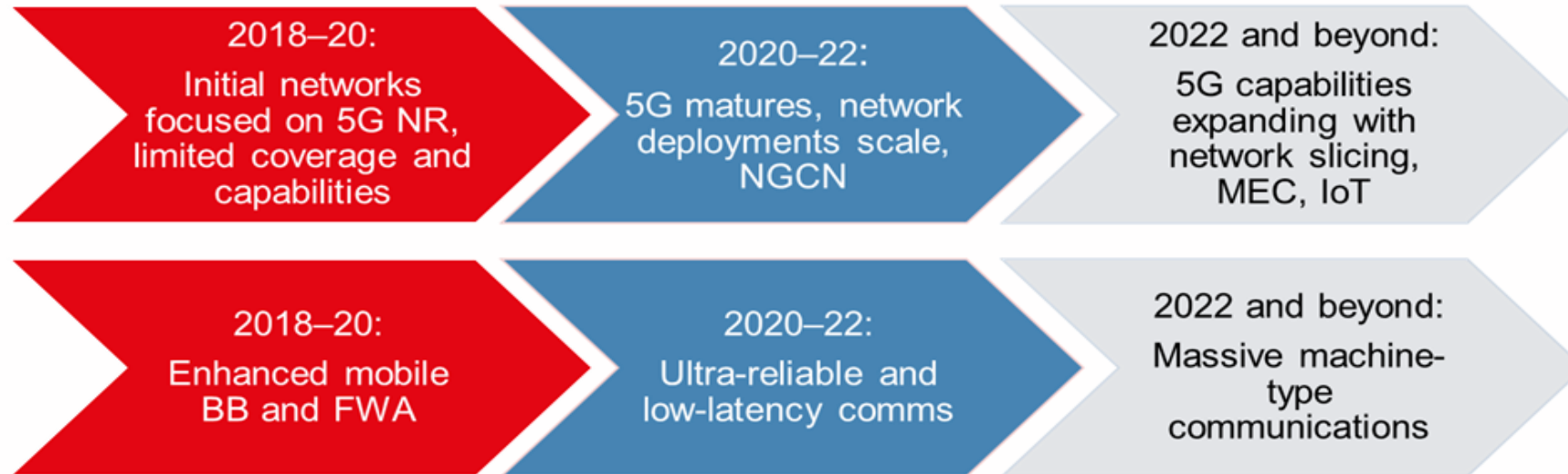
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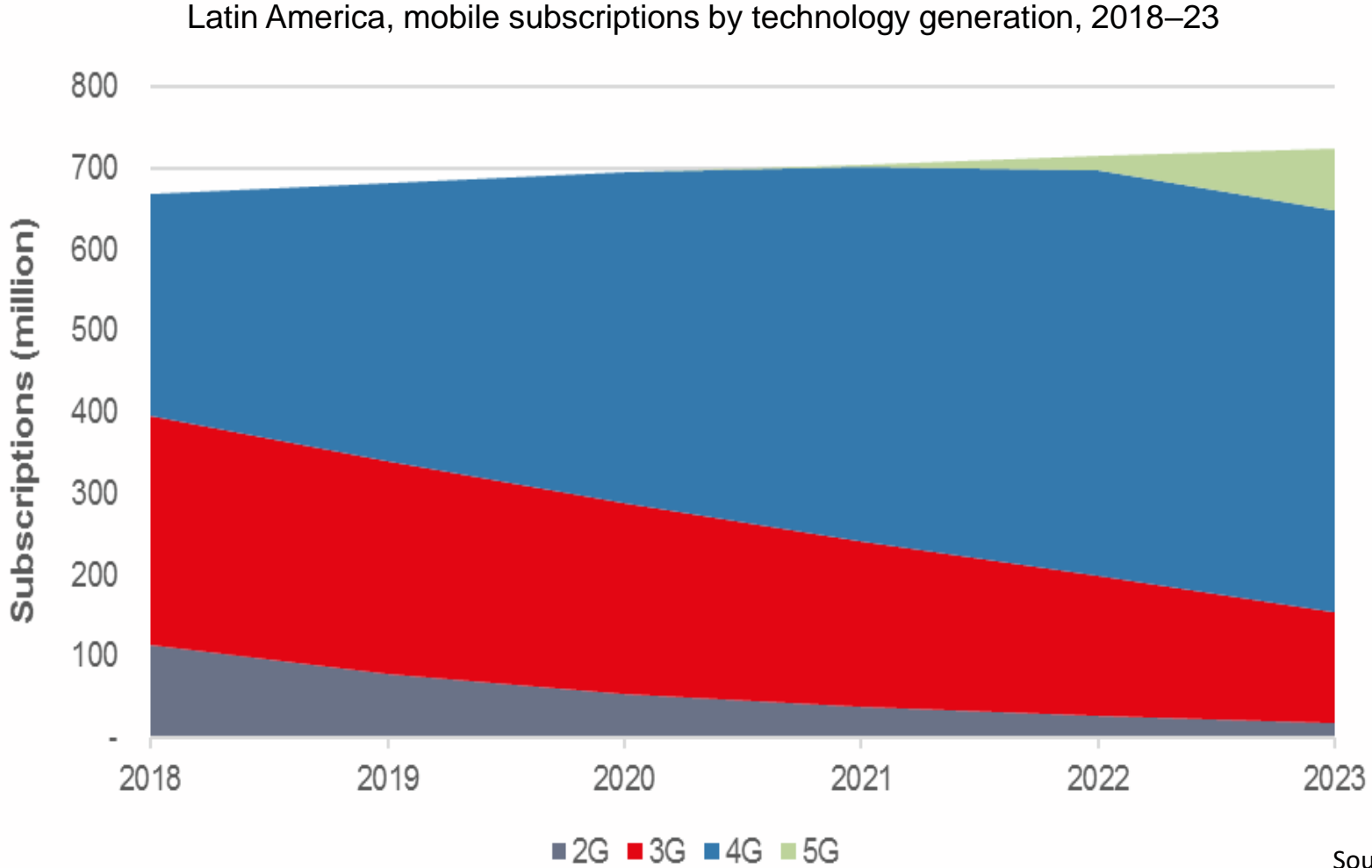
5G will be **evolutionary** as well as **revolutionary**



- You need to look at every mobile G or generation over a 10-year period, not just at its initial launch; 5G will have its own long term evolution
- The 5G of today will be very different than the 5G of tomorrow
- And the advent of 5G hardly means the end of LTE services or investments



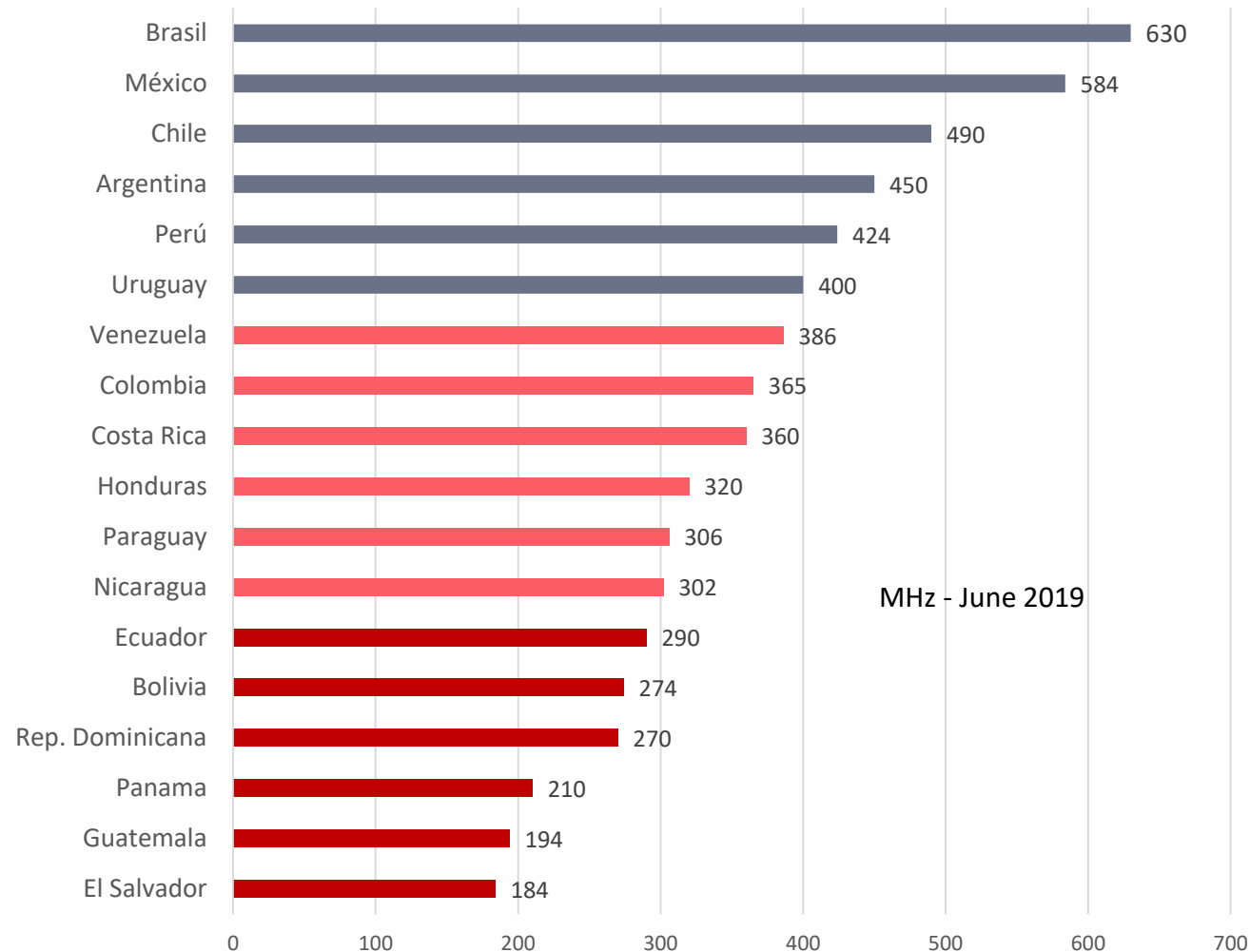
4G is and will still be the main broadband technology in Latin America



Source: Ovum



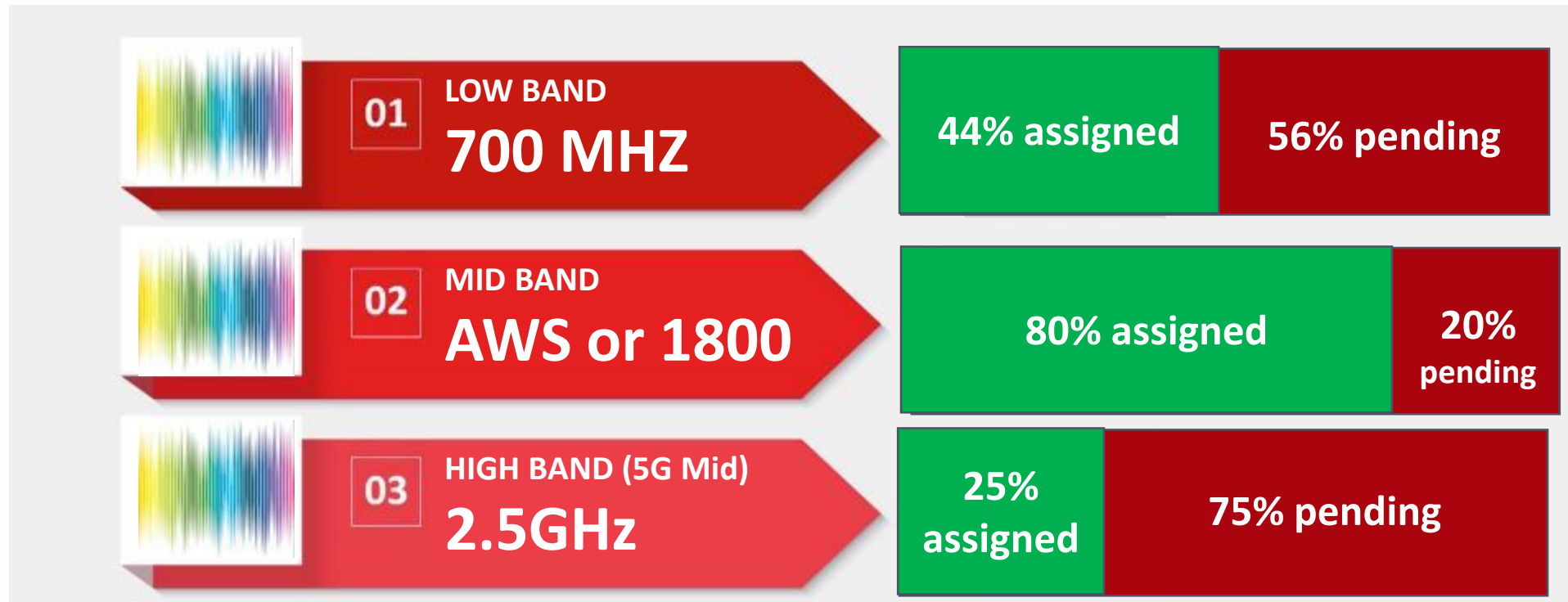
Mobile spectrum allocation in Latin America



ITU recommends for 2020 a total between 1,280 and 1,720 MHz of IMT spectrum per country



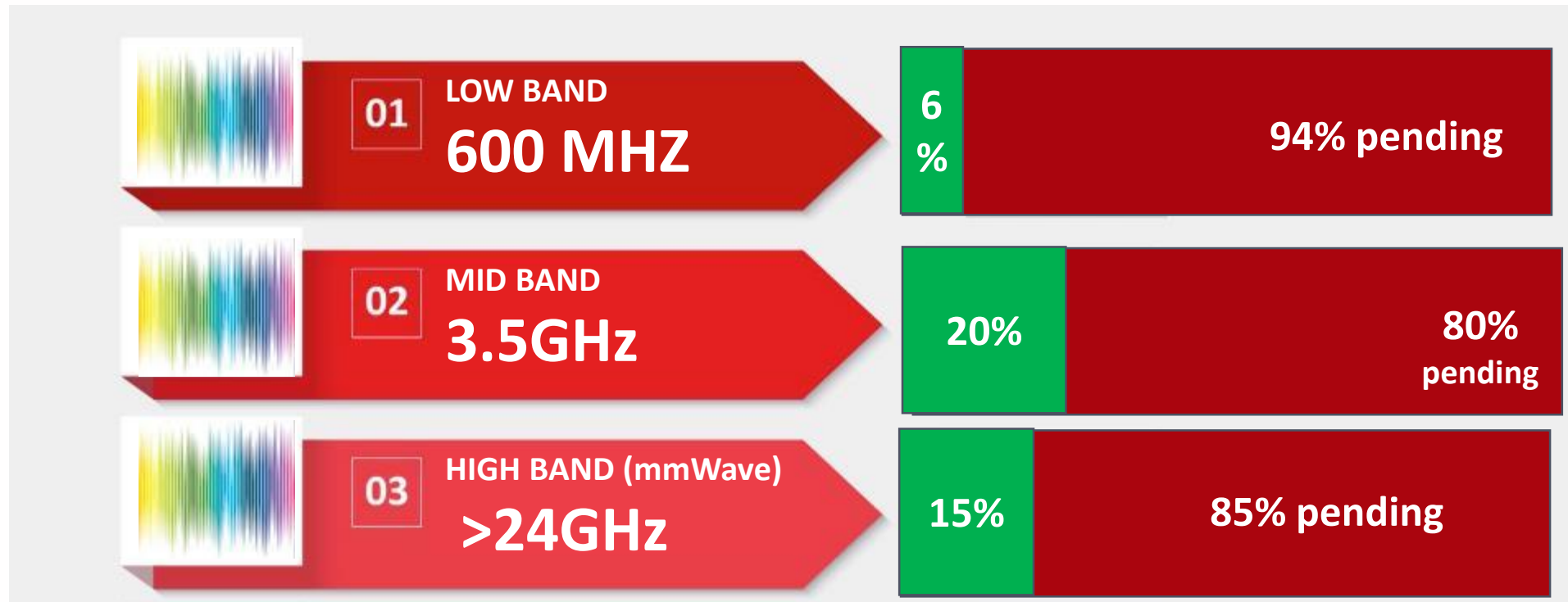
LTE core bands allocated in Latin America



Source: Ovum (18 main Latin American countries, based in total spectrum per band per country)



5G core pioneer bands under pre-award process in Latin America



600 MHz, 700 MHz, L Band, 2.3 GHz, 2.5 GHz, 3.5 GHz, 26 GHz, 28 GHz

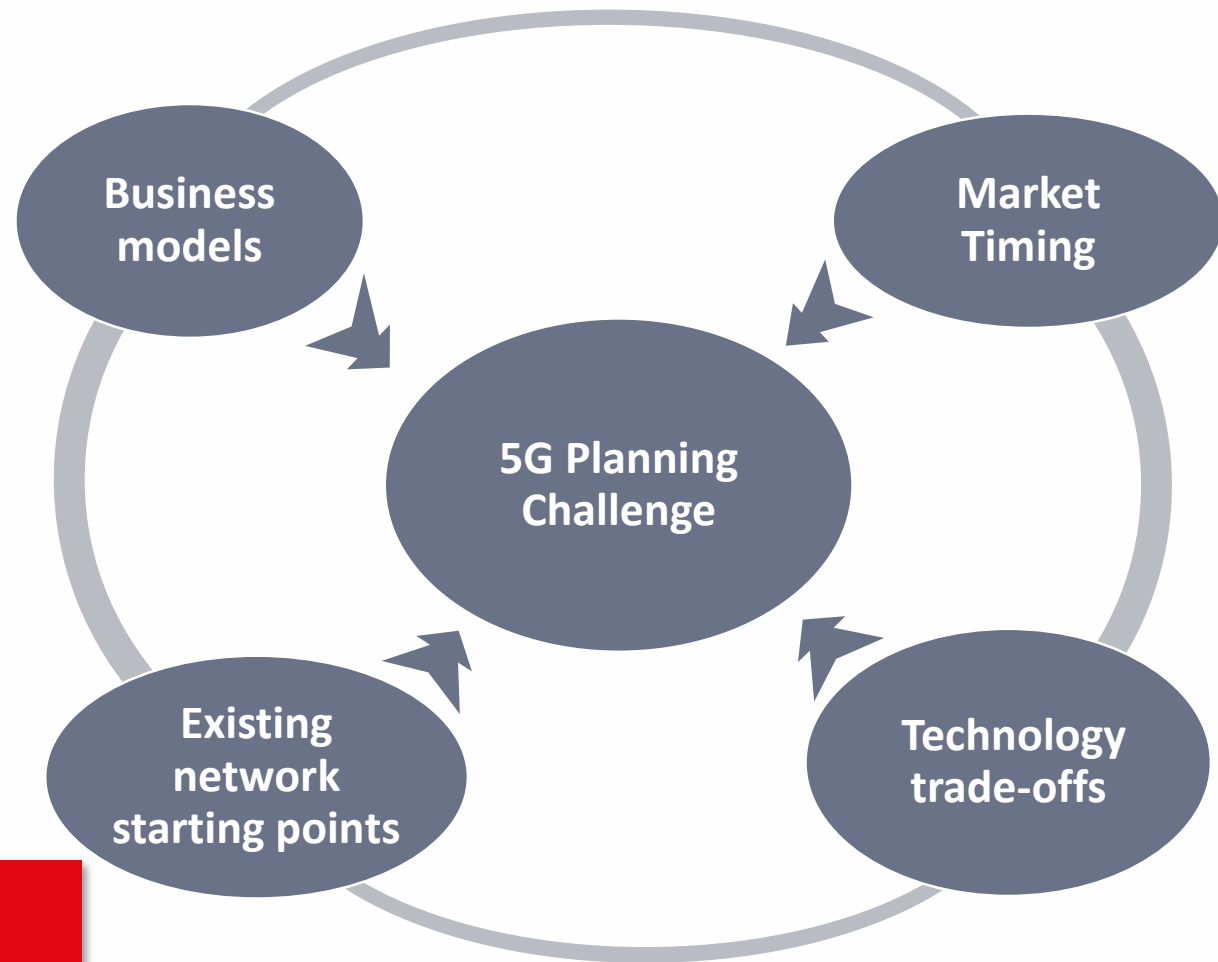
Other bands: current 4G spectrum, L-band (1,5 GHz), 2.3GHz...

Source: Ovum (18 main Latin American countries, based in total spectrum per band per country)



5G: The planning challenge

- Network planning: large scale network planning-technology optimization problem, attempting to optimize on many dimensions
- CSPs have differing views on:
 - Business models & applications
 - Profit & loss
 - Technology approaches
- CSPs have differing:
 - Starting point network assets
 - Available fiber resources
 - Deployment goals



The industry, currently lacking clarity on the optimal path forward

Source: Ovum



5G Nationwide Footprints



31,829 Base Stations installed and in operation



6 Major cities & large parts of 85 cities



Gyeongbu · Honam Line highways
& 47 Service areas



KTX · SRT Express railways



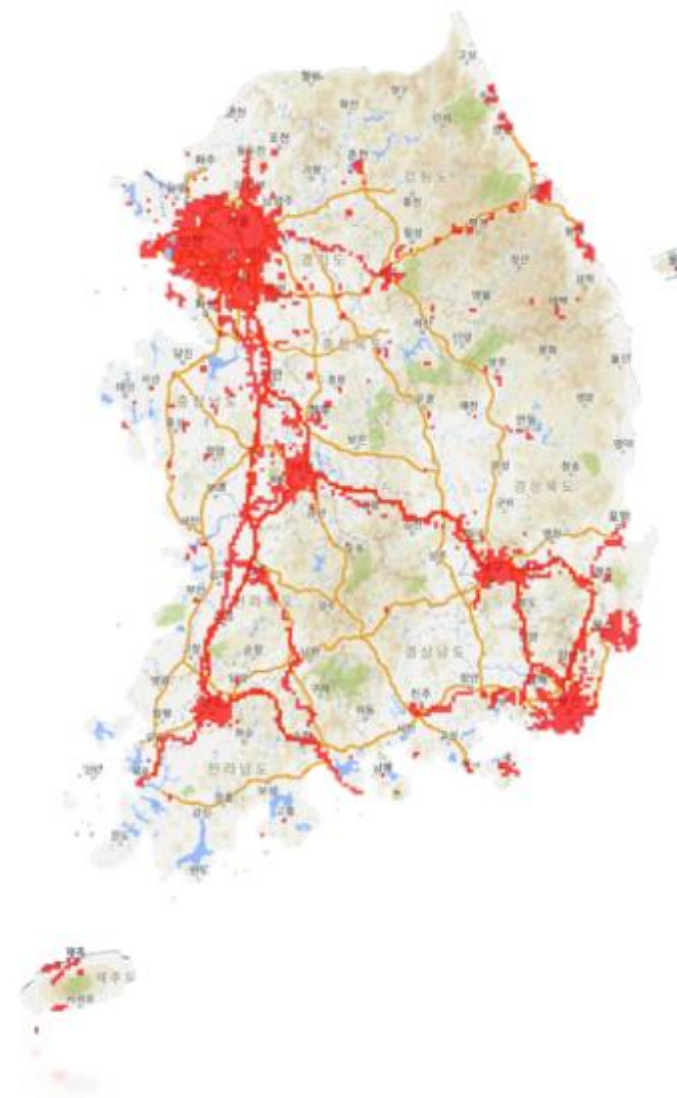
6 Major airports



70 Key Shopping malls
& Department stores



464 Eco partner sites



Key messages



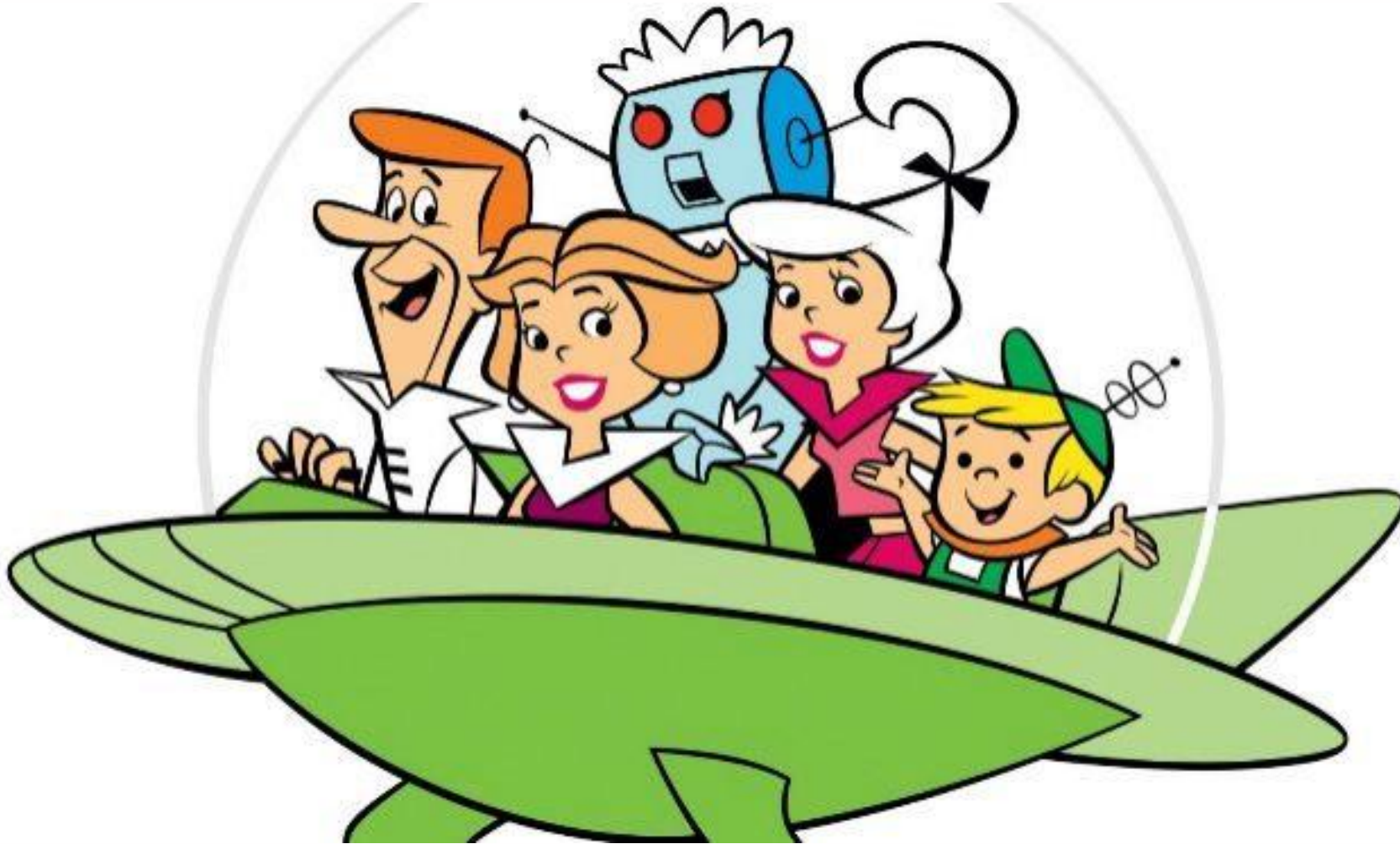
- Spectrum needs long term planning and focus
- Latin America is behind, a clear roadmap is required
- Ensure the appropriate ruling and pricing
- Provide predictability to support the new network investment needed
- Spectrum per operator is critical to ensure a cost effective network deployment (100MHz in mid bands)

No Spectrum



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TMT intelligence | informa

With Spectrum





Muchas gracias!

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