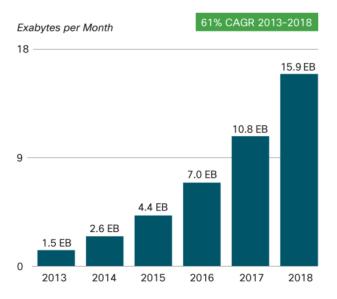




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## Mobile Operators Are Motivated to Use Unlicensed Spectrum

#### **Rapidly Increasing Demand for Mobile Data**



#### **Over 500 MHz of Unlicensed Spectrum in 5 GHz**

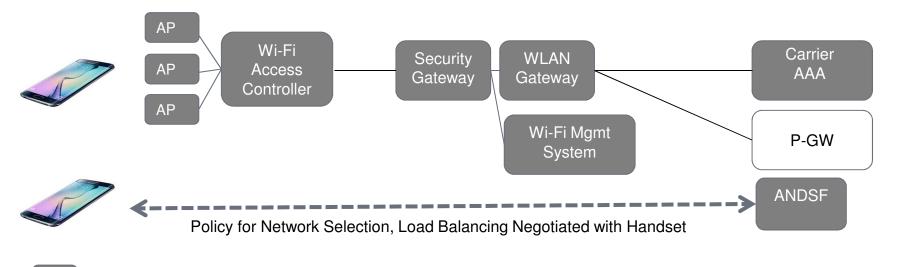
	Band A 200 MHz		Band B 255 MHz	Band C, 100 MHz
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Source: Cisco VNI Mobile, 2014



## Wi-Fi is an option, but has two problems

### From Backhaul to Gateways, Carrier Wi-Fi is expensive to build



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**New Network Elements Introduced** 

### Yet, Subscribers expect Wi-Fi to be "Free"

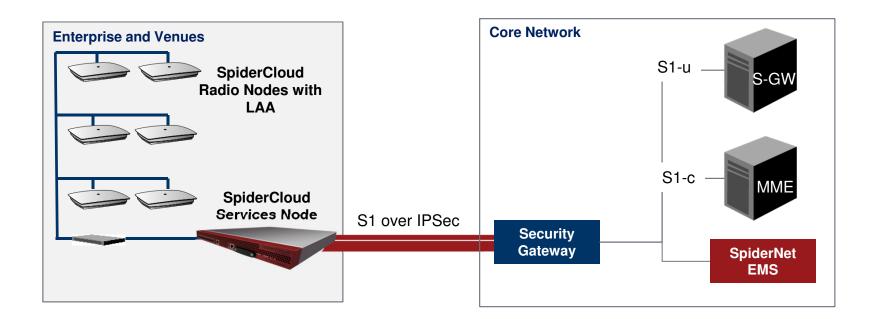
Others (from small coffee shops to mighty Google) have better means to monetize Wi-Fi than mobile operators – driving price of Wi-Fi access to zero





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# The LTE-U/LTE-LAA Alternative



- LTE supports carrier aggregation; unlicensed becomes just another carrier
- LTE small cells decide how traffic is balanced between licensed/unlicensed
- No additional network integration required
- Straightforward to monetize

