



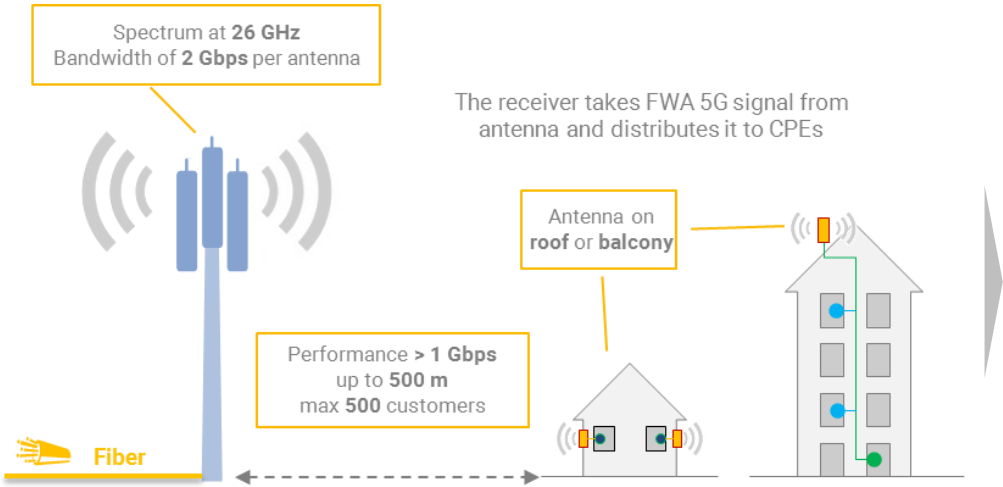
# Why 5G FWA is a Very High Capacity Network

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# 5G Fixed Wireless Access (FWA) is fully comparable to FTTH in terms of performance but much more efficient



KPI	FFTH GPON	5G FWA	4G FWA
LATENCY (ms)	5	5	25
PEAK DATA RATE (Gbps) <sup>1</sup>	>1	>1	0.1
UPSTREAM DATA RATE (Mbps)	200	200	10
TIME-TO-DEPLOY (months)	6/12	2/3	2/3
INVESTMENTS PER CUSTOMER (100%=GPON) <sup>2</sup>	100%	<50%	40%

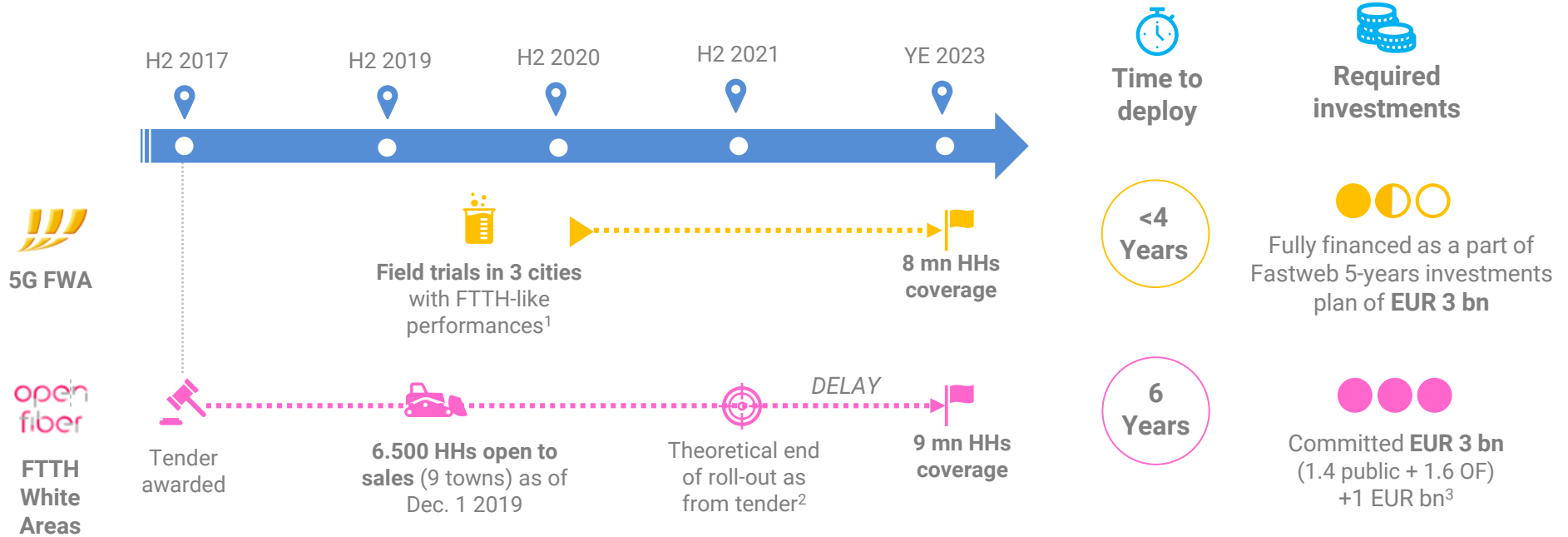


**High-capacity spectrum and innovative technical features<sup>3</sup> make 5G FWA the ideal UBB technology for small/medium cities**

<sup>1</sup> Peak data rate consider short-term evolutions of GPON allowing to overcome current peak rate of 1 Gbps    <sup>2</sup> Customer-driven and access network Capex per nr. of households passed    <sup>3</sup> Massive MIMO, Beamforming, Carrier Aggregation



# Fastweb 5G FWA network is already on field and the roll-out will lead to 8 mn-households coverage within 2024...



...while potential issues of FTTH can be exemplified by the deployment of a publicly-funded network in Italian white areas

<sup>1</sup> User downlink throughput of ~800 Mbps with 2x2 MIMO. In the future 4x4 MIMO receivers will allow to double the performances <sup>2</sup>Three years after award <sup>3</sup>Missing investments necessary to complete the plan (Fastweb estimates)



# How can policy support the deployment of 5G FWA and hence ultra broadband in rural areas



1. Explicit the **inclusion of 5G FWA** as a Very High Capacity Network in **BEREC guidelines** as a key to sustain infrastructure-based competition and guarantee ubiquitous UBB access



2. Make a **public campaign** at EU level about the **absence of health risks for 5G users**, as opposed to activists trying to spread panic against antennas and radiations all over Europe



3. Include 5G and 5G FWA in the future **EU broadband funding** plan for digital connectivity infrastructure, in order to further strengthen the ecosystem of the **Digital Single Market**

