

Technology Shaping the Future

Ultra Broadband FWA for Rural Areas using the 28GHz band







A Global Challenge





How to bring broadband to the last and most remote location?







MIDDLE EAST



Rural Landscape Challenges



Landscape

- Adverse terrain
- Scattered villages
- Clustered houses
- Hard or costly to reach

Challenges

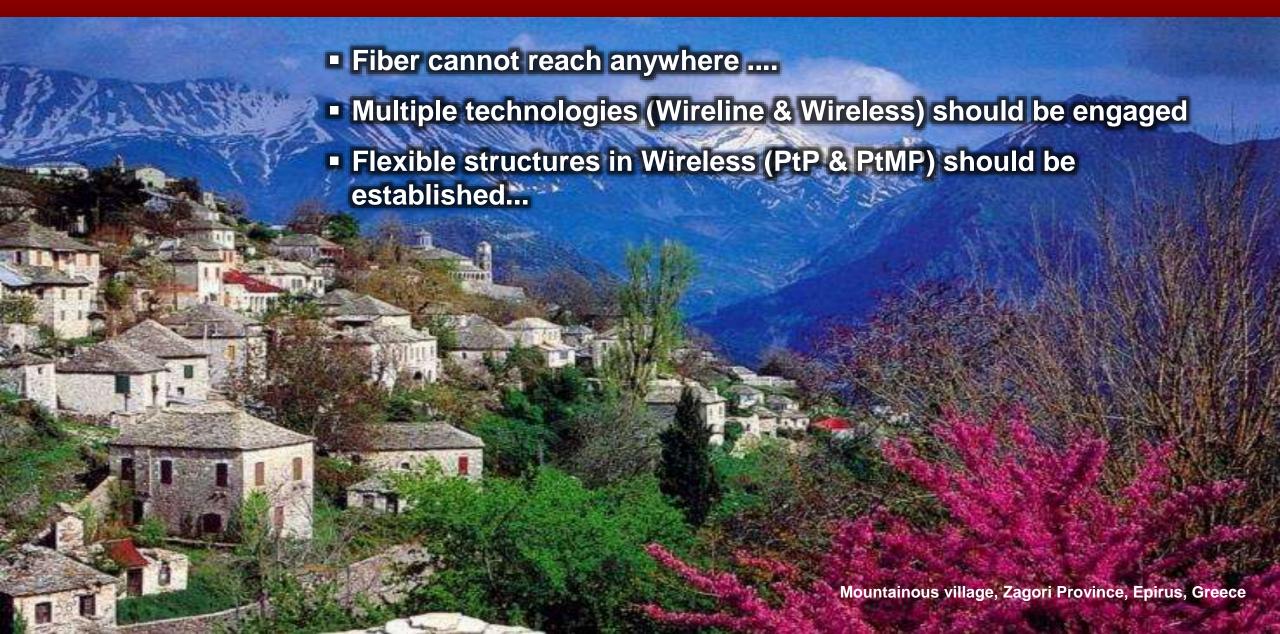
- Limited infrastructure
- Low per capita income
- Digital poverty
- Obtain site permits
- Urgency to comply to national vision



Services reach here?

No Rural Technology Champion





Myriad Technologies – A Common Deficit!





5G Spectrum in Europe



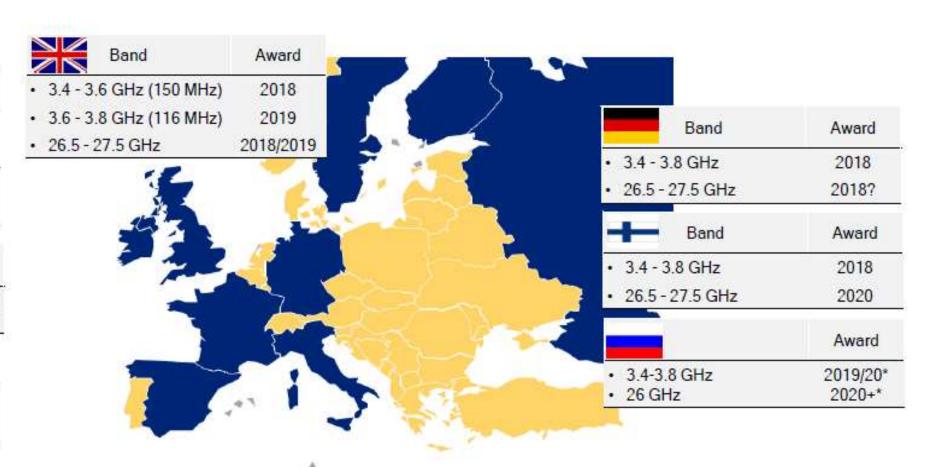
Focus on mid-band (3.4-3.8 GHz) and 26 GHz (24.25-27.5 GHz) for 2018+

Band	Award
• 3.4 - 3.8 GHz (350 Mhz)	2017
• 26 GHz	2018

Band	Award
3.46 - 3.8 GHz	2018
26 GHz	2019

ŧ	Ris .	Band	Award
	3.4-3	3.8 GHz	2019/2020
•	26.5	- 27.5 GHz	2019/2020

Band	Award
• 3.6 - 3.8 GHz	2018
• 26.5 - 27.5 GHz	2018



The Objectives for Rural Broadband

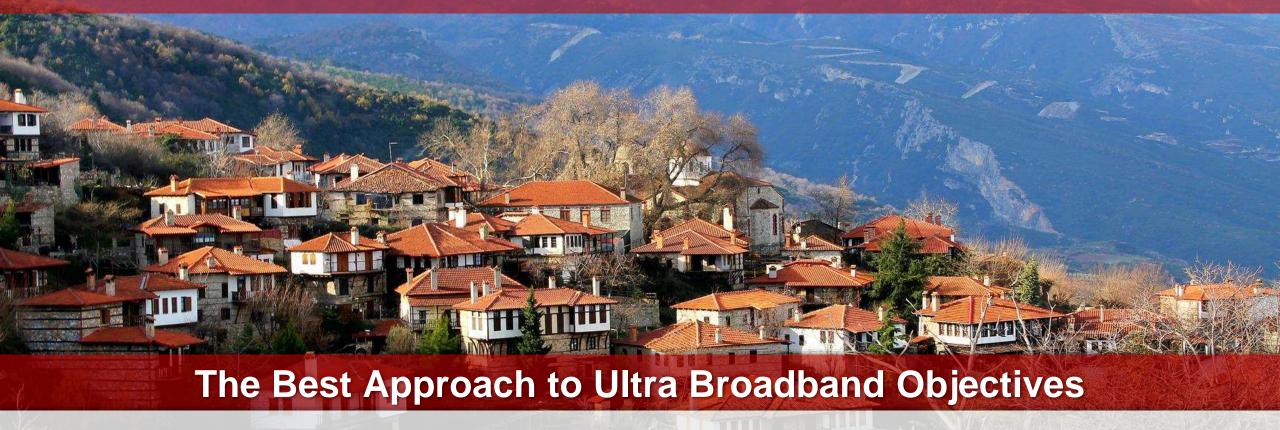




Only a purpose-built technology can be a good solution!

Our Rural Proposition for 5G Speeds... Now!









- ► 5G speeds (1Gbps/sector, 500Mbps/terminal)
- Fully Outdoor Compact Radio Connectivity
- Extended Coverage
- **Excess Capacity**
- Affordable User Equipment

WiBAS OSDR



Hub

WiBAS micro-BS



Hub

WiBAS connect



Case Study Network Connectivity with WiBAS-Connect





Relay capability & Small Cell coverage

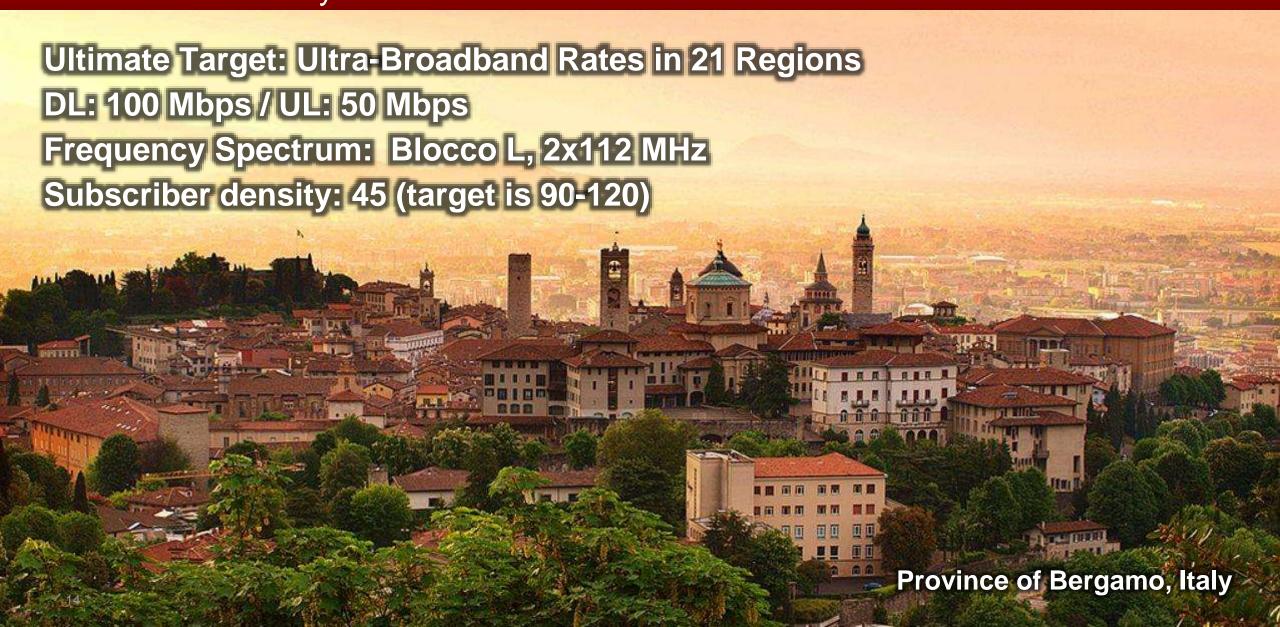






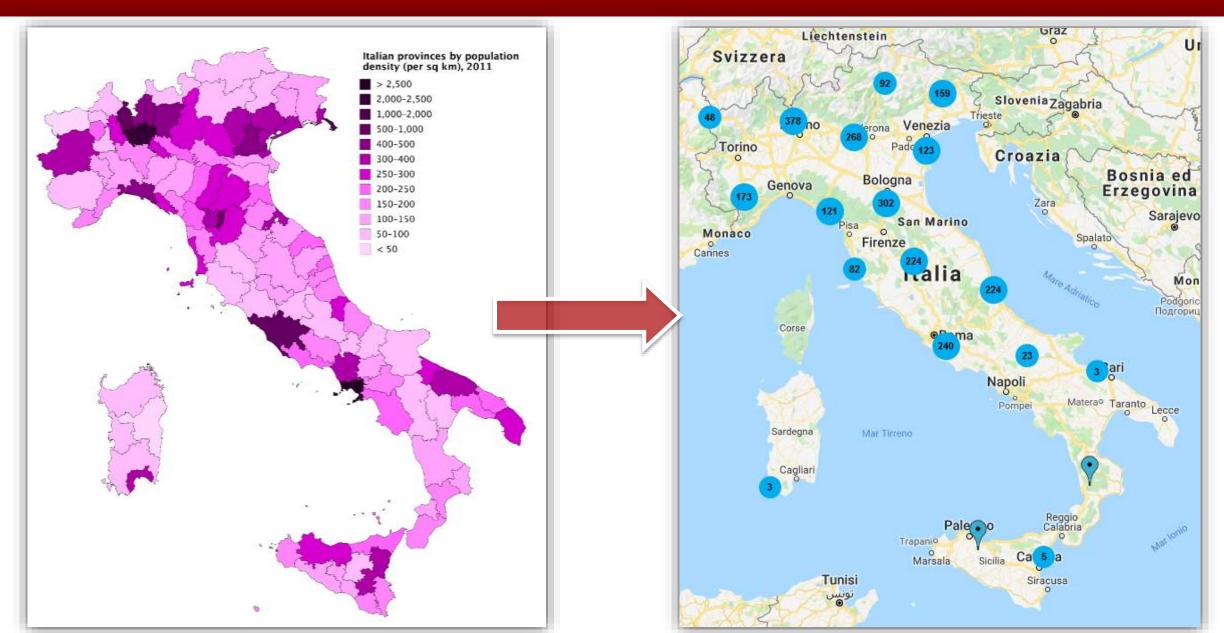
The Rural Italy Case Network Connectivity with WiBAS™-Connect





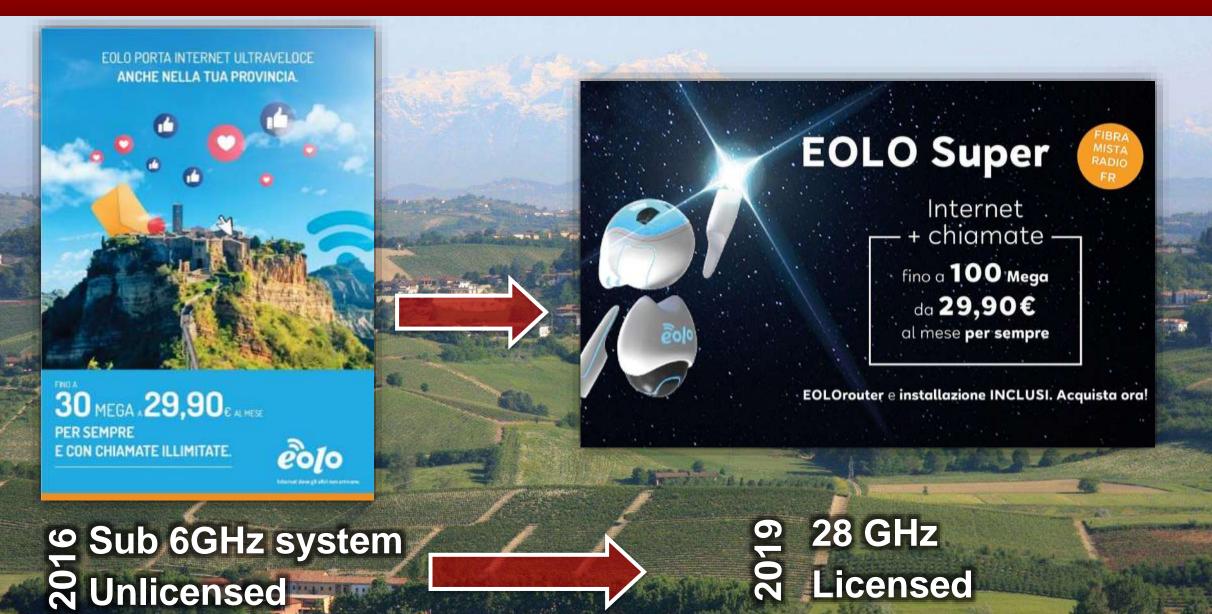
Population Density – Italy, Base Station Deployments (EOLO)





EOLO FWA campaign 2016-2019

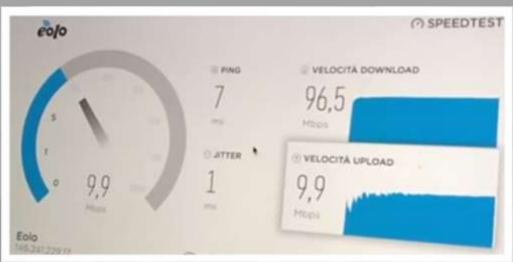






EOLO 100 Mbps Fixed Wireless Service (EOLO Centa)







Telecom Italia FTTH Service



VS



Our Rural Toolkit











