

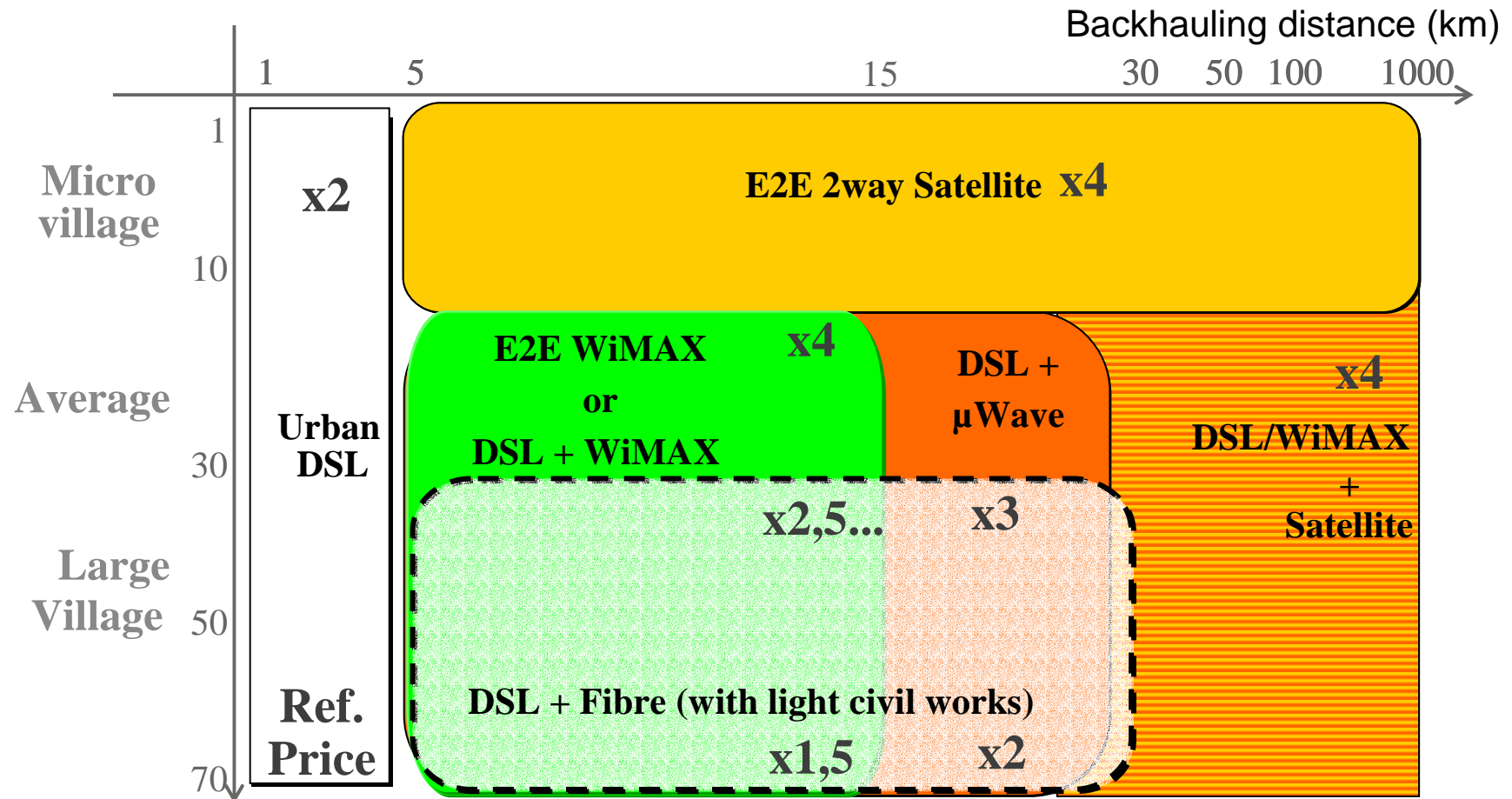


***Session 5:
The Role of Government & the Private Sector***

◀ BROADEN YOUR LIFE ▶

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A Future View of Technologies for Rural Areas: 2006 End to End Costs



connected users

First technology listed is the access technology, while the second one is the backhauling technology

Recommendations to Public Authorities:

1- Satellites for Sparsely Populated Areas

▼ Recommendation: Very Sparsely Populated Areas

- *In very sparsely populated areas with less than 20 users, broadband via satellite is an ideal technological solution. This can be based on existing satellites with a new initiative according to growing user needs and evolution.*

▼ Key Considerations:

- BB access costs for very sparsely populated areas are more than 10 times higher than urban areas using wired or WLAN, WiMax solutions;
- The decision to launch a satellite cannot be taken at regional level due to investment considerations and large territorial coverage
- As a first step, the role of public authorities is to bring all actors together (regional governments, satellite operators, suppliers) to aggregate demand

Recommendations to Public Authorities:

2- Public Private Partnerships for Medium Density Areas

▼ Recommendation: Medium Density Areas (20-50 homes)

- *In a medium density areas, various technological solutions can be economical. For example, WiMAX or a combination of WiMAX with DSL or fibre are good solutions with reasonable investment costs. Many different PPPs can be envisaged encompassing both technology and services.*

Key Considerations:

- Where eServices and entertainment services are offered, wired and wireless solutions (eg. WiMAX, WiMAX+ DSL or fibre + DSL) are suitable, including for SMEs
- The most important point of investment is civil works
- A PPP between the local community and operators, can improve the business case for operators. Different PPPs can be envisage for technology & services.

Recommendations to Public Authorities:

3- No Public Action for Areas with over 50 Users

▼ Recommendation: High Density (over 50 Users)

- *In metropolitan areas with more than 50 users, no public action is needed to assure coverage. ADSL is still the most competitive solution based on cost and average user bit rate.*

Key Considerations:

- In high density areas, ADSL or cable are excellent solutions
- In most cases, the natural evolution will be from ADSL to ADSL+ or VDSL combined with “fibre to the cabinet”, and then eventually, “fibre to the home” as needed. This will permit a gradual evolution achieving 8 Mbps and more according to user needs
- Fibre is economical in “greenfield” situations or where there is the right business case based on high bit rate services and foreseeable operations savings