

International Telecommunication Union
Workshop on Promoting Broadband
9-11 April, 2003

Efficient Broadband Markets

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What is Necessary for Broadband to Succeed?

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- Consumer demand
- Availability of service

How can service be made available at affordable prices?

- Real competition
 - Or at least the threat of competition
 - Lessons from Korea, Canada, Denmark, Belgium, USA
- Separation (divestiture) of telephony and cable TV network operations
- Incentives for broadband deployment
 - Or at least remove disincentives
- Support for appropriate loop length and technical innovations

Efficient Markets Require...

- Appropriate incumbent regulation
 - WTO Telecoms Treaty Regulatory Reference Paper requires regulation of major suppliers
- Competitor access to the last mile
 - And therefore access to end-users
- Availability of high speed transport
 - Leased line (private line) provision

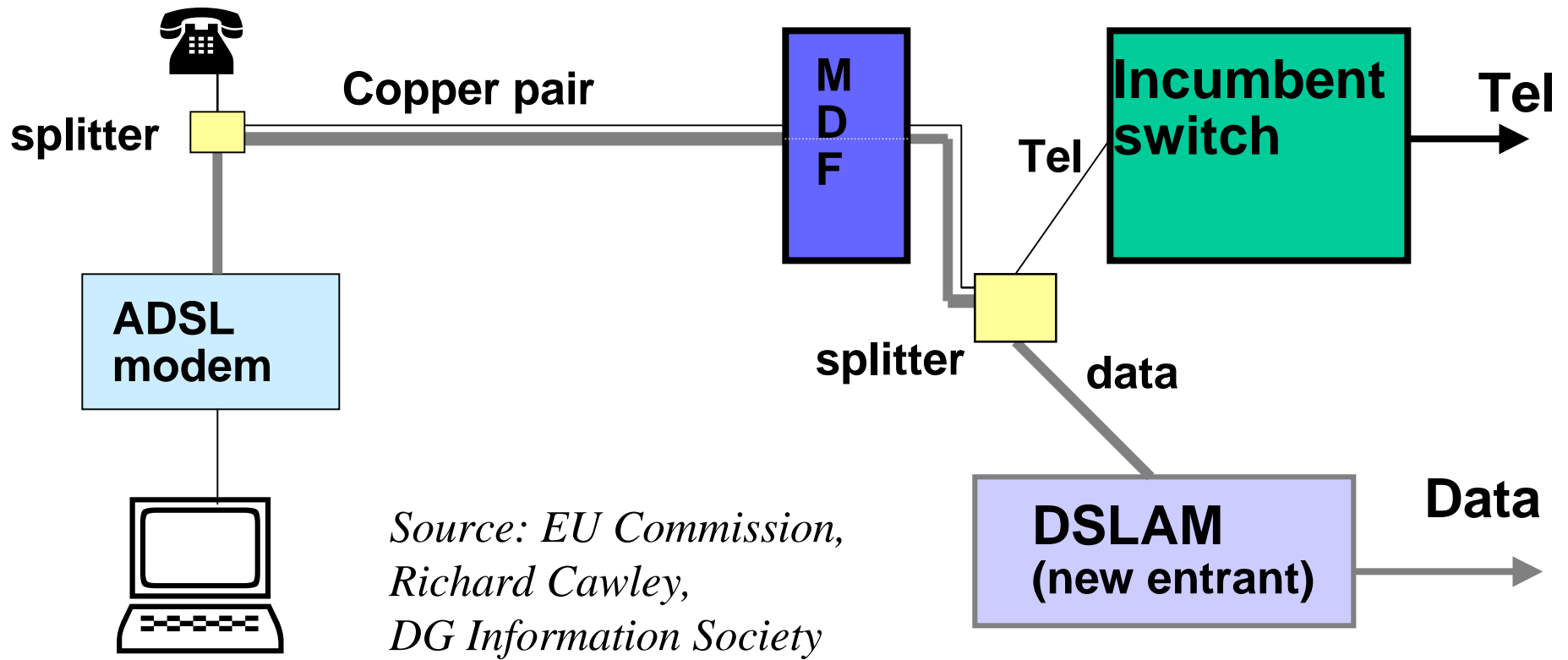
Broadband Paths

- CATV
 - Cable modem service
- DSL
 - Telephony copper loops
- Fibre to the end-user

Broadband Paths (2)

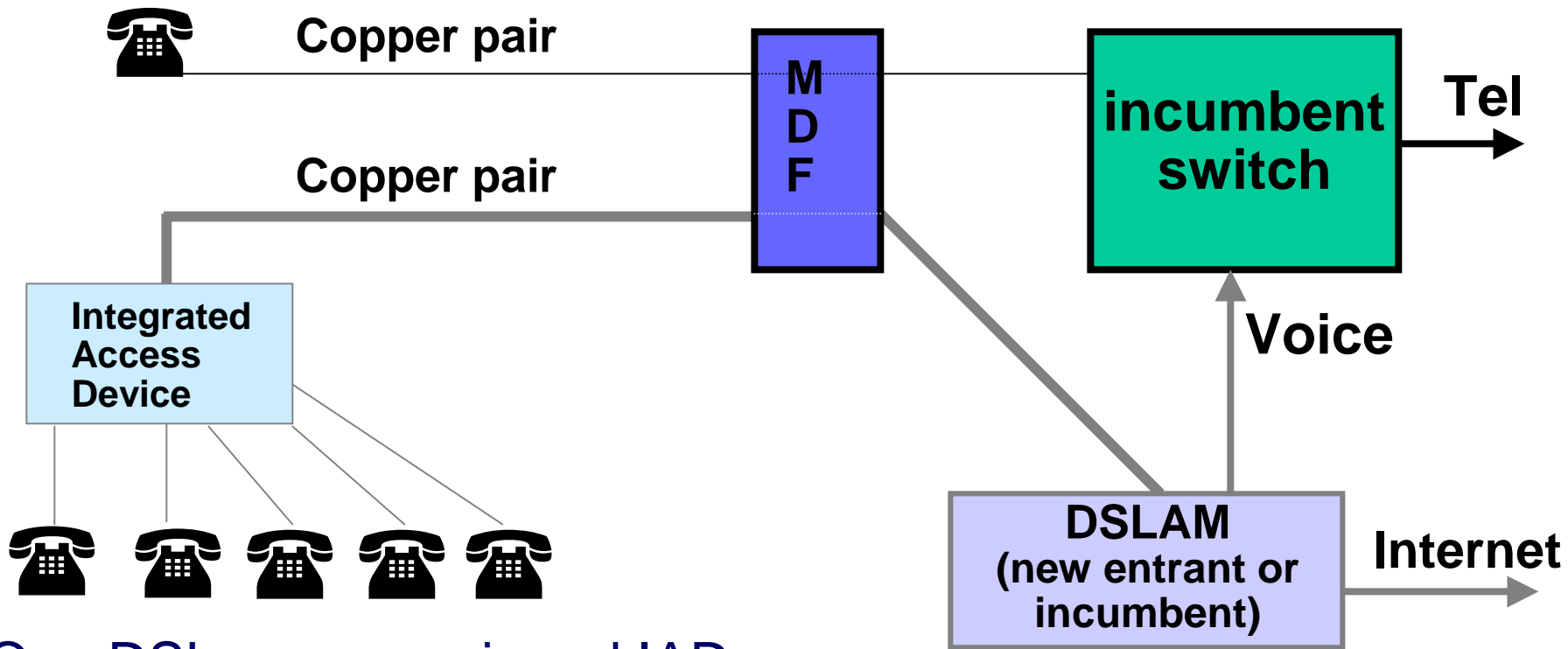
- Wireless
 - 3G mobile telephony
 - Satellite
 - Wi-Fi
 - IEEE 802.11b
- Other means
 - Electric power lines

Telephony/DSL Shared Access



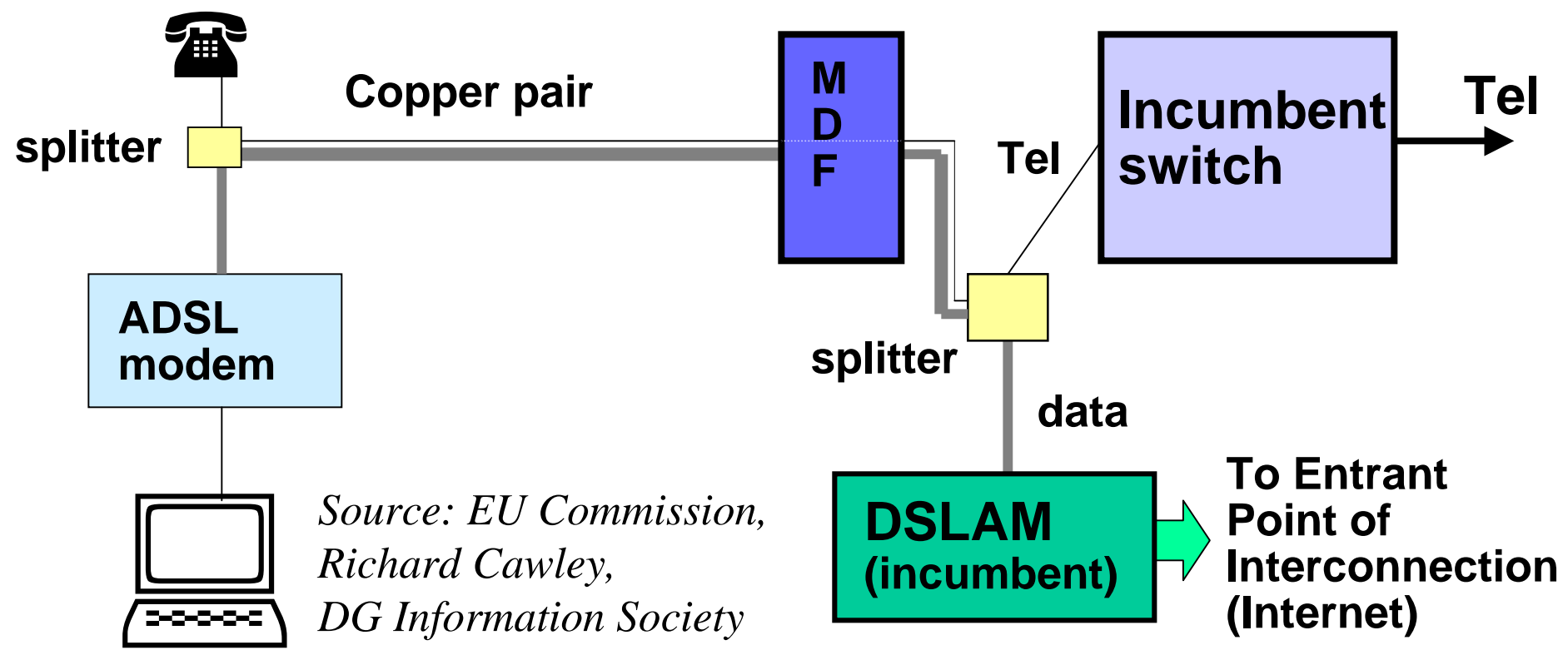
*Source: EU Commission,
Richard Cawley,
DG Information Society*

Using DSL for Multiple Voice Lines



One DSL copper pair and IAD can support multiple voice lines

Incumbent High Speed Bit Stream Service



*Source: EU Commission,
Richard Cawley,
DG Information Society*

Unbundling for VODSL

- Equipment providers claim VODSL can support up to 24 voice lines per DSL line
- Deregulate/divest inside wiring
- Allow resale
- Access to numbering resources

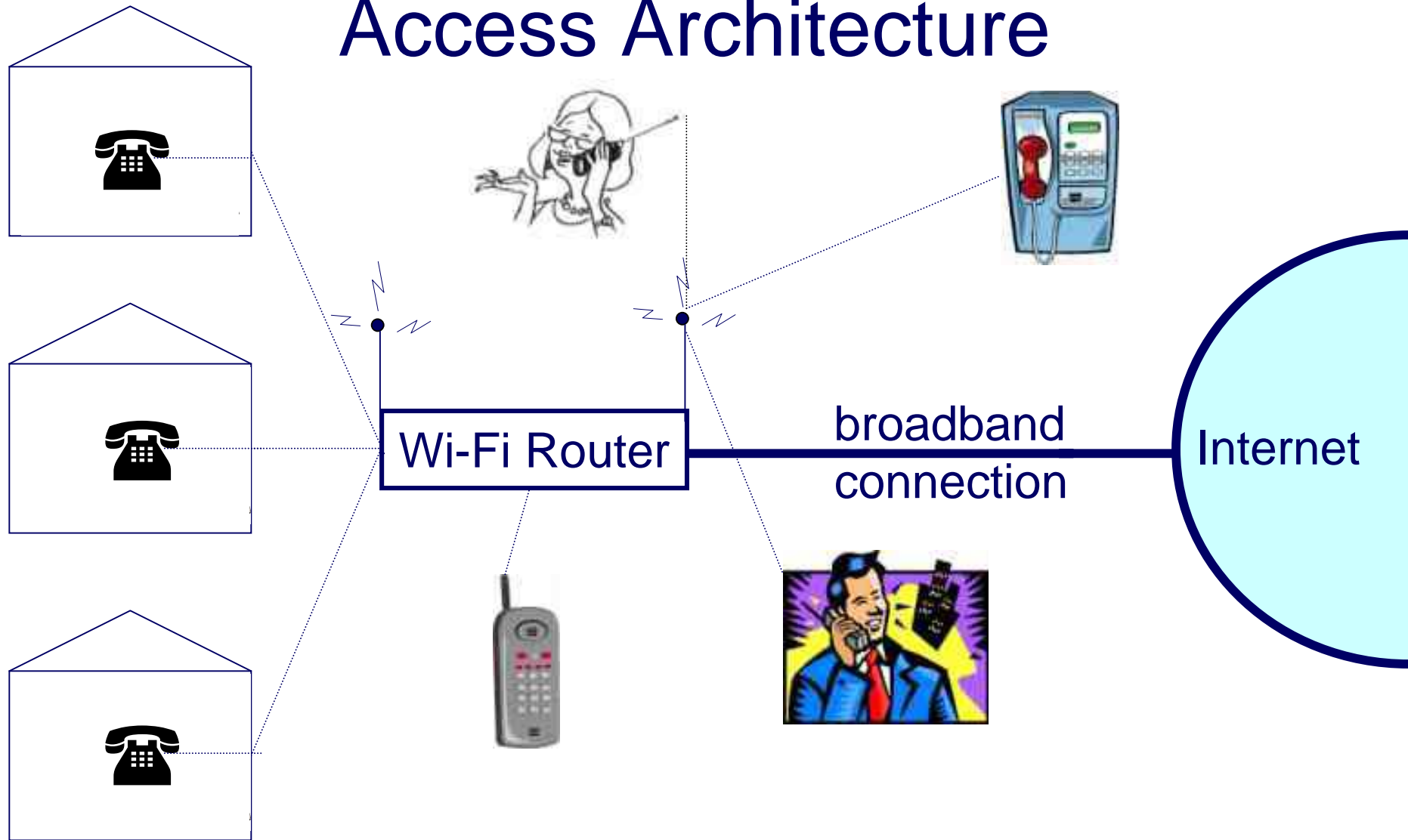
Unbundling for VODSL (2)

- Wholesale rates
 - Loop, co-location and transport prices
 - Avoidance of price squeeze
 - Major supplier non-discrimination required by WTO Telecoms Treaty Regulatory Reference Paper
 - Bit-stream access
- Neighborhood associations or small business as telcos

Universal Service Obligations and Funds

- Use USO/funds or development funds to establish micro-telcos
- Use vouchers or telco-credits to give consumers real choice

Wireless (Wi-Fi) Access Architecture



Conclusion

- Competitive markets ensured by regulation will lead to speediest and most efficient broadband deployment
- Innovative uses of broadband may assist telecommunications development and deployment

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