Drivers and bottlenecks for broadband diffusion

Jan W. Stumpel
Ministry of Economic Affairs
The Netherlands

Digital Divide?

PC and Internet households
Smallband predicts broadband

% households with cable modem or adsl vs % households with Internet

Broadband Bottlenecks

- Regional disparities
- Transition to ‘real’ broadband
- Security
- Energy Consumption

‘Broadband Pilots’

- Local governments can help in creating favourable conditions for constructing broadband infrastructure (rights of way, regulations, bundling public and private demand)
- Many different models possible; opportunities for learning and experience sharing
- Central government can give some assistance; budget appr. £15 million
Energy use of appliances (1)

Energy Use of Appliances (2)

Economies of (small) scale (1)
Economies of (small) scale (2)

2 Households, 1 ADSL connection
Results (for each household):
- Same download speed
- Upload speed doubled
- Cost down from £100.- to £87.50 per month
- Energy use halved