



National IT and Telecom Agency

Ministry of Science
Technology and Innovation

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Policy objectives and lessons learned

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Today's subjects:

- Policy objectives and tools
- New spectrum legislation from 2010
- Current initiatives (2.5 GHz, 900-1800 MHz, digital dividend)



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Policy objectives:

- By 2010, all Danes must have possibility for access to the internet via broadband

Status:

- Denmark has nearly reached this goal – more than 99% can access a broadband connection
- Broadband penetration: 37.1 (fix) – 7.6 (mobile)

General tools:

- Competition-driven approach, balance between infrastructure and service competition
- Mobile and wireless broadband access are essential, especially in rural areas



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Specific and basic tools – wireless networks:

Auction design:

- Promoted new entrance at 2.1 GHz

Results:

- 87% geographic coverage
- HSDPA speed 21 Mbit/s

Auction design:

- Coverage obligation in certain zip codes at 3.5 GHz

Results:

- Roll-out of FWA/Wimax coverage – 4 Mbit/s



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New challenges I:

New legislation on frequencies from 1 January 2010

Objective:

- Innovation, competition and effective use of spectrum

Basic principle:

- Service and technological neutrality
- Secondary trading
- Spectrum hoarding ban



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New challenges II:

Demand for capacity, high speed and rural coverage

Future auctions:

- 2.5 GHz - capacity, high speed and competition
- 800 MHz (digital dividend) – rural coverage

Refarming – 900 and 1800 MHz:

- Existing licenses mean 95% 3G geographic coverage
- Spectrum to a newcomer



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Real challenges:

Refarming: Existing right versus competition

Digital dividend: Existing use versus future use

A huge European challenge!