Digital television and telecom

MEVIT3300/4300

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Network effects

- · Network effects:
 - When the value of a product to one user depends on how many other users there are.
 - · Real networks: Phone, fax, internet etc
 - · Virtual networks: Users of macs, windows etc

It is better to be connected to a bigger network than a smaller one.

Outline

- · Key concepts and mechanisms
 - Network effects
 - Emerging market structures
- Telecom markets
 - Which changes has the telecom sector gone through the last decades?
 - What are current challenges for the telcos and in telecom markets?
- · Digital television
 - What does digitalization mean for the future of television?
 - Which implications may this have for public and private television?

Emerging market structures?



- Dominant firm model
 - size and scale economies gives it a cost advantage over smaller rivals enhanced by network effects and lock ins (Microsoft)
- Differentiated product market
 - firms competing producing the same "kind" of information (films, series etc)

Telecom monopolies

- 1899 Norwegian monopoly adopted by parliament
 - Private companies are bought over the next decade
 - 1974 state buys the last private telco
- · Arguments in favour of monopoly:
 - Ensure interoperability
 - Telecom a natural monopoly
 - Ensure universal distribution

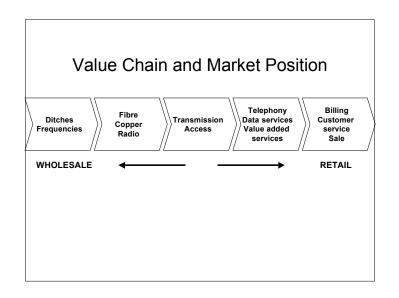
Liberalization meant re-regulation

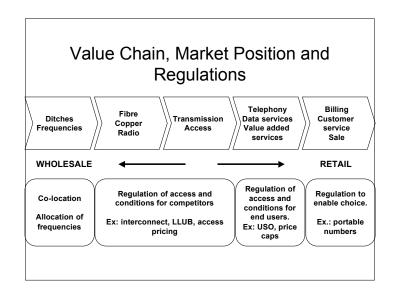
- In order to create competition
 - Encumbent [™] de facto monopoly
 - Network effects [™] advantage for large users
 - Without regulations never real competition
- · In order to ensure universal service provision
 - Markets may leave unprofitable areas unserved

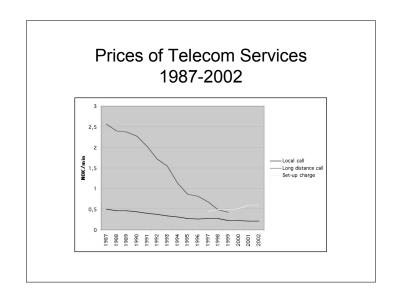
Telecom lib

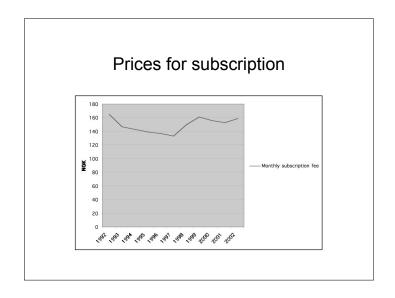
- Liberalization
 - From late 1980s: Terminals, in-house networks, cable tv networks
 - Early 1990s: GSM, datacom
 - 1.1.1998 remaining monopoly privileges abolished
- · Arguments in favour of liberalization
 - Liberalization ™ competition ™ cheaper and better services.

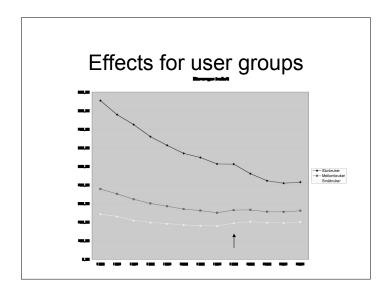
Value Chain | Ditches | Fibre Copper Radio | Transmission Access | Telephony Data services Value added services Sale | Sale | Transmission Access | Telephony Data services Sale | Telephony Data services Sale | Telephony Data services | Telephony Data











Effects on competition

Entrants

- Want better conditions for access
- Dissatisfied with level of competition

Incumbent + vertically integrated operator

- Want better incentives for investments
- Dissatisfied with level of regulation

Emerging market structures?

A strong position in Scandinavia



Dominant firm model

- size and scale economies gives it a cost advantage over smaller rivals enhanced by network effects and lock ins
 - Telenor...?

Differentiated product market

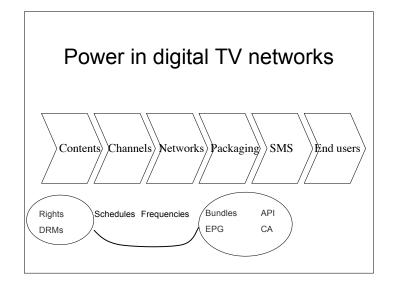


- firms competing producing the same "kind" of information
 - service providers competing on Telenor's networks?

TV - political starting point

Television regulation

- Networks regulated as bottlenecks
 - Culture NRK as public broadcaster + TV2's license to terrestrial television
 - · Access penetration of terrestrial networks + must carry in cabel tv
- Telecom regulation
 - Regulation of access (wholesale + USO)
 - No cultural policy
- · General regulations
 - Competition, industry, consumer etc.



Economic perspectives

- Industrial development
- Enable strong Norwegian actors and a Norwegian media industry.
- NRK (and TV2) as media industry locomotives
- Bottleneck control as strategy
 - Enables network effects and economies of scale and scope.

- Competition policy
- Enable more actors in the television markets in all parts of the value chain
- "normalise" tv-markets
- Bottleneck control as problem
 - Enables networks effects and creates market structures with dominant firms.

Cultural perspectives

- · Public sphere
 - Secure the position of PSBs
 - Diversity within the channels
- Bottleneck control as strategy
- Freedom of choice
 - More opportunities for individual choice
 - Diversity in the market
- Bottleneck control as problem

Dilemmas

	Bottleneck control as strategy	Bottleneck control as problem
Economic perspectives	Industrial developments	Competition
Cultural perspectives	Publics and PSBs - but limit commercial bottlenecks.	Freedom of choice

