

Long tradition of urban forest design and management for recreation and other services...examples from the the Danish "Lystskove"



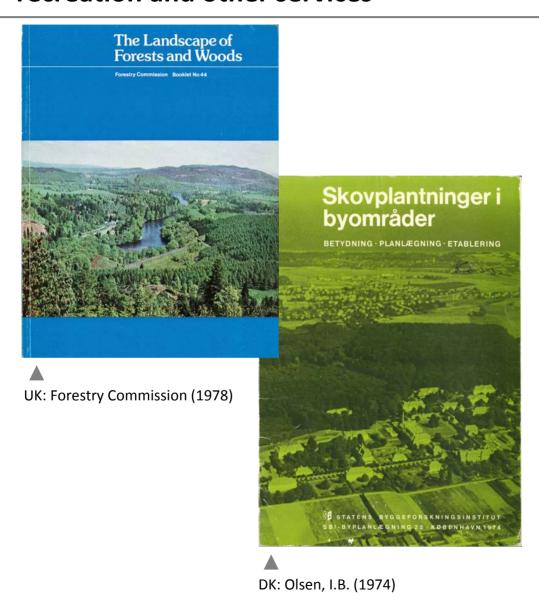
"In the late 19th century, Every larger Danish cities with respect for itself acquired forest. The forest was connected to the town by pathsystems, which often followed the beach or vantage points. In the forest were often placed a pavilion, a concert arena and a shooting range".

Translated from: Olsen, I.A. (1974) Skovplantninger i byområder. SBI-Byplanlægning 25. København

Marselisborg skov purchased by Aarhus in 1896

Dinning place in Suserup Skov. Picture, ca. 1920.

More than 30 years of research on forest design and management for recreation and other services







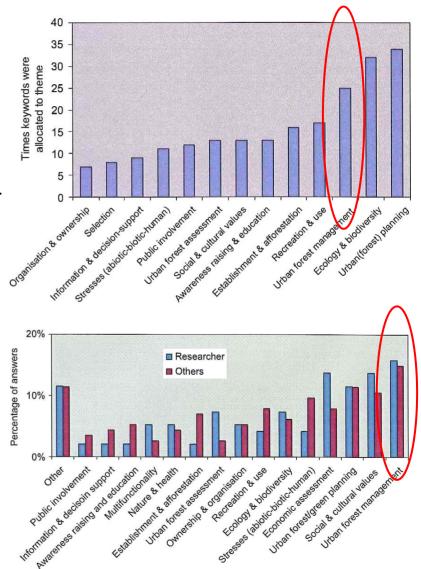
SE: The most preferred and last preferred photo among 28 photos in a national preference study from 1983 in Sweden. Photos: Sven G. Hultman

Urban forest Design and Management research and research needs

- In the Nordic and Baltic countries

Frequency of Urban forestry research themes anno 2005......

Priorities for future urban forestry research.....



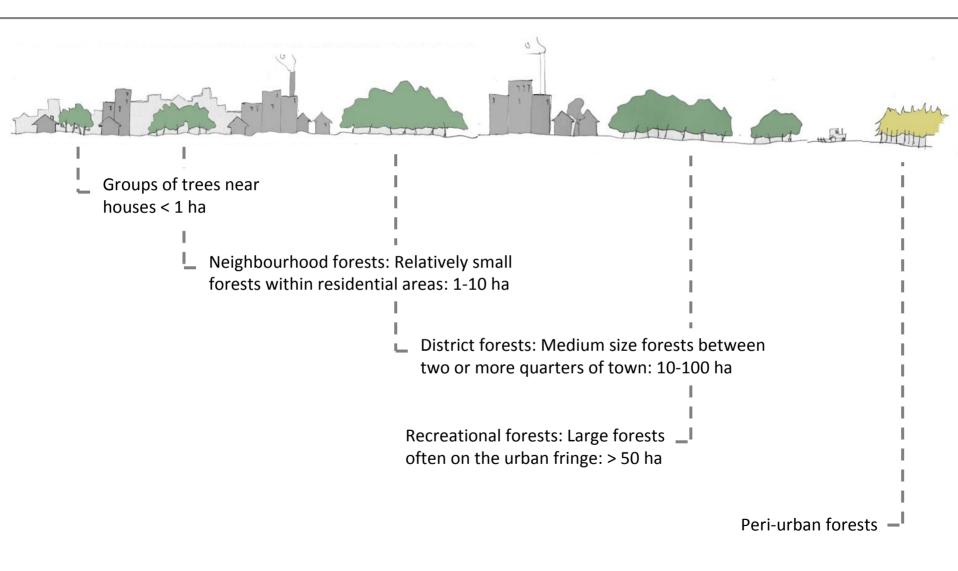
Source: Konijnendijk et al: Urban Forestry & Urban Greening 6 (2007) pp. 302 and 304.

Forests along the urban-rural gradient...

Forest type	Spatial characteristics	Social function	Number of functions	Increase of are
Urban woodlands	In build up areas or between built-up areas and open land			
Peri-urban woodlands	Part of the cultural landscape close to urban areas			
Non-urban woodlands	Part of the open (near-natural) landscape far from urban areas			

Modified from: Kowarik, I. 2005. Wild Urban Woodlands: Towards a Conceptual Framework.

Urban woodlands in relation to their location and size...



Developed from Rydberg, D. and Falck, J.: landscape and Urban Planning 47 (2000): pp. 1-18.

Forest and other wooded land cover across the European North Atlantic region

Country	Forest and other wooded land cover
Finland	75 %
Sweden	74 %
Norway	39 %
Estonia	48 %
Latvia	45%
Lithuania	30 %

Urban development in forest dominated landscapes

Denmark	14 %
Iceland	1 %
The Netherlands	11 %
Ireland	10 %
United Kingdom (incl. Wales and Scotland)	12 %

Urban development in forest poor landscapes

Sourve: FAO 2000, FAO 2005

Groups of trees near houses and small neighbourhood forests...



Groups of trees near houses and small neighbourhood forests

- Integration of forest and housing in a new city district (and landscape laboratory): Holstebro, DK



District forests: forests of medium size between two quarters of town



Large recreation forests



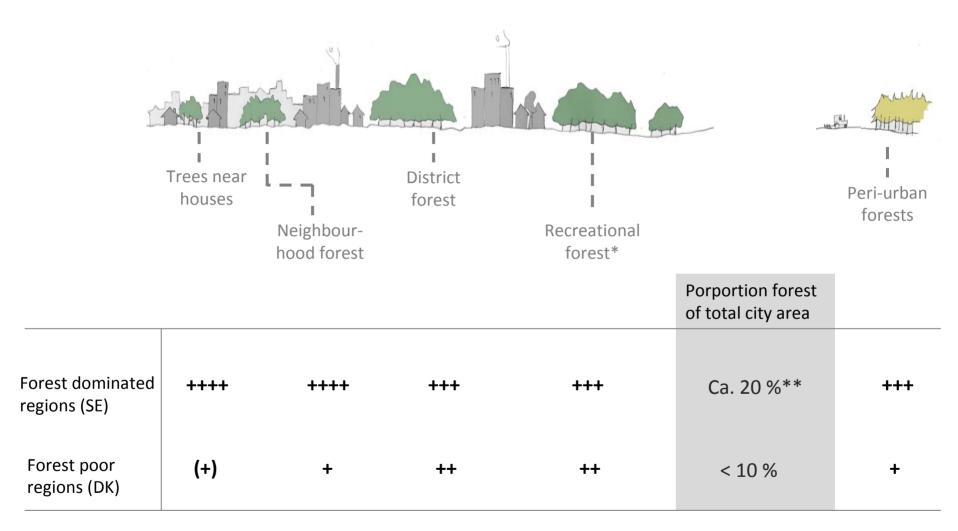
Large recreation forests...new generation in Denmark

Public afforestation efforts during the last part of the 20th century have created a new generation of large recreation forests close to all larger (mostly > 200 ha) cities in Denmark





Summary...

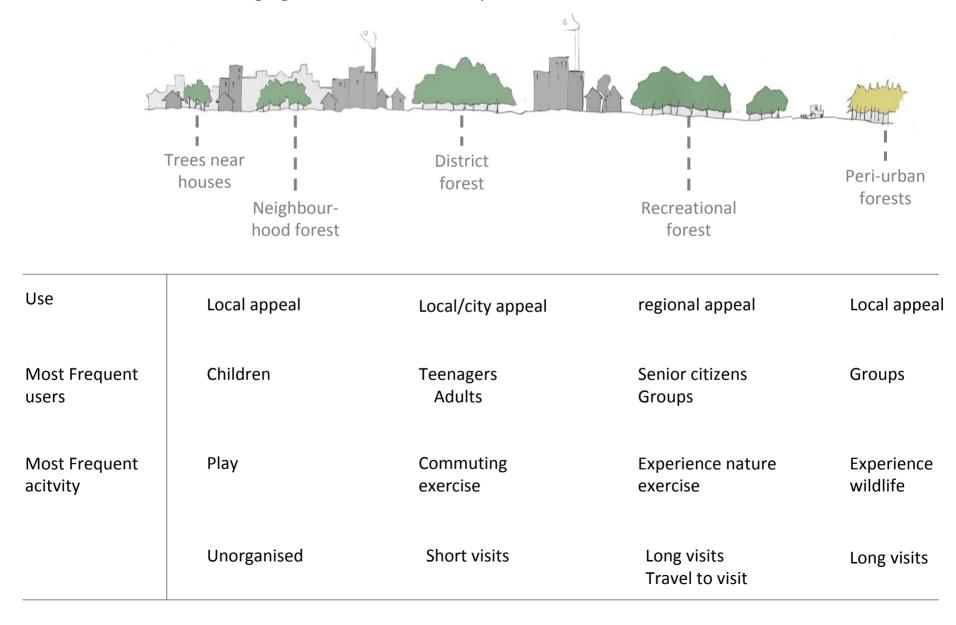


^{*}Including forests with special character such as arboretums, deergardens etc

^{**} Hedblom and Söderström: Landscape and Urban Planning 84 (2000): 62-73.

Dominating patterns of use in relation to forest size and location...

For whom are we managing and what are their expectations?



To what extend research meets practice...



are 4 ha*



Many published research and guidelines on forest design and management of large urban woodlands

Scientific recommedations:

- Understory
- Coppice systems
- Half open forest types

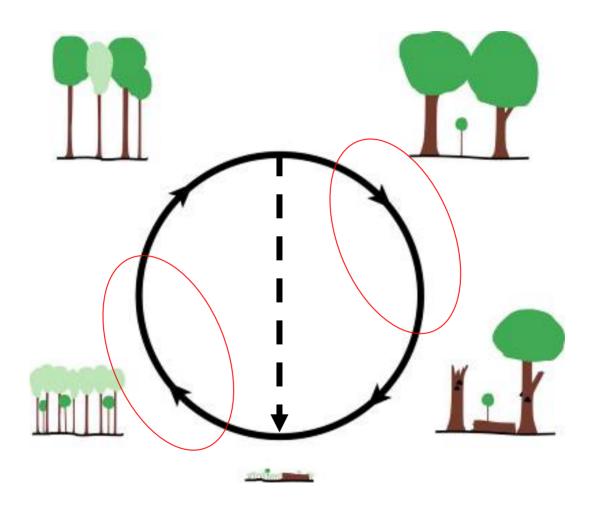
Few experiences and studies of historical/new forest design and management systems in urban settings.

General guidelines for design and management for recreation and other services

Based on adaptation of "contemporary" even-aged forest management systems

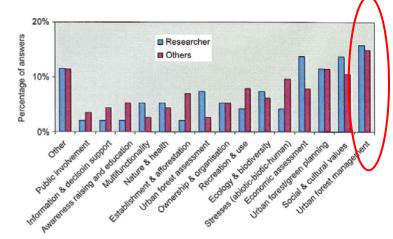
^{*}Hedblom and Söderström: Landscape and Urban Planning 84 (2008): pp. 62-73.

To what extend do management produce continous qualities?





Priorities for future urban forestry research.....



Small scale woodlands

Large scale woodlands

Place related design and management solutions

General design and management information

Young woodlands

Mature woodlands

"Oldgrowth" woodlands

Historical and new management systems

Contemporary management systems

