



Recreation Monitoring and Research in Finland

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Finnish Forest Research Institute

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Content of the presentation:

Visitor monitoring on state lands

Visitor data applications

National recreation monitoring

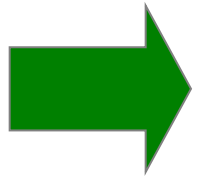
Some specific research topics

Future challenges



Visitor monitoring on state owned land

Visitor surveys and counting in national parks and recreation areas (1992 -> 2013, more than 120 in total)



Manual for visitor counting, 1997 (Horne, P. et al.)

Manual for visitor surveys, 2001. (Erkkonen, J. & Sievänen, T.)

Kajala et al. 2007. Visitor monitoring in nature areas – a manual for the Nordic and Baltic countries. (www.naturvardsverket.se)

Visitor monitoring on state land by Metsähallitus

Systematic, harmonized methodology across whole country since 2000

Volume of visitation, continuously in most national parks and hiking areas

- number of visits

Visitor information, standardized visitor survey questionnaire, once in 5 years in each park

- visitor profiles: visit motivation, socioeconomic information, area of residence etc.
- status of service satisfaction
- money spending

Metsähallitus established a visitor information database ASTA in 2006

Number of visits in national parks

Vuosi	National parks, total number	Total number of visits	Change per year, %
2012	37	2 087 300	0
2011	37	2 086 500	7
2010	35	1 958 500	1
2009	35	1 943 500	11
2008	35	1 755 500	11
2007	34	1 586 700	6
2006	34	1 493 000	6
2005	34	1 410 000	18,2
2004	34	1 153 900	2,7
2003	34	1 123 200	9,9

Examples of Visitor survey reports

Reino Anttila

Riisitunturin kansallispuiston kävijätutkimus 2012



Metsätalouden tutkimuskeskus Metsä E 131

Minna Rytönen

Helvetinjärven kansallispuiston kävijätutkimus 2012



Metsätalouden tutkimuskeskus Metsä E 130



Photos: Raimo Peuraniemi/Metsähallitus

Applications of visitor information

- Management plans
- Local economic impacts information, updated annually
 - Use number of visits and visitor money spending information gained by visitor survey
 - In 2012, economic impacts of 37 national parks were 109,5 million euros, 1412 man year of employment; one euro input makes 10 euros in local economy
- Annual reporting of use and management includes and indicator of visitor satisfaction provided by visitor surveys

Examples of Management Plans

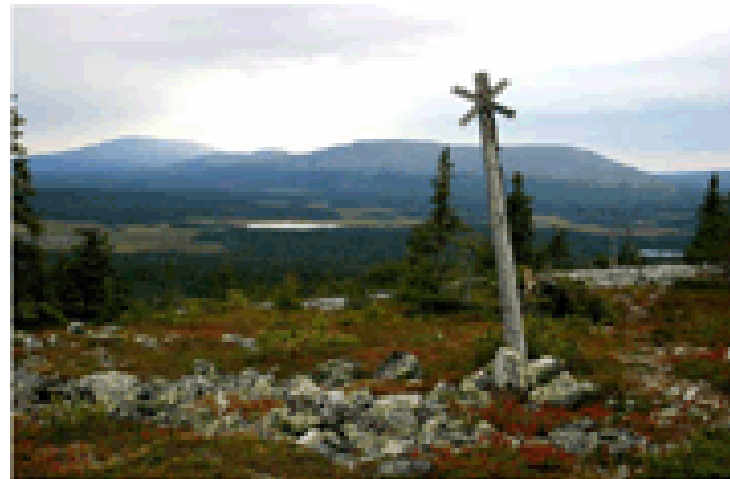
Tammisaaren ja Hangon itäisen saariston hoito- ja käyttösuunnitelma



Metsähuoltoalueen luonnonsuojelualueja. Sarja C 78

Matti Eytelä, Pekka Suksa, Tapio Rauhala ja Hanna Yläjärvi

Pallas-Yllästunturin kansallispuiston reitistösuunnitelma 2011



Metsähuoltoalueen luonnonsuojelualueja. Sarja C 120

National Recreation Demand Inventory (LVVI)



Ulkoilututkimus 2009

Läsnäytimme Teitä vielä kuumimpien ulkoiluhetkenä kysymällä Teiltä, miten Teillä on mahdollisuus saada nyt paperittomasti.

Tässä tutkimuksessa ajattelimme, kuinka ei-järkellä Suomessa asuvalle ihmiselle on mahdollisuus saada kuumempiä ulkoiluhetkiä. Tässä tutkimuksessa kysyttiin, miten Teillä on mahdollisuus saada kuumempiä ulkoiluhetkiä nyt, eikä ole mahdollisuus saada, miten ulkoiluhetkiä on mahdollista.

Mikä osate ja osasto on Teillä kuumempi ulkoiluhetki? Kuumempi ulkoiluhetki on Teillä, että osasto on Teillä, että osasto on Teillä.

Pyydämme Teitä täyttämään tämän kyselylomakkeen ja palauttamaan sen 31.8.2009 mennessä olemassa olevalla postiosoitteella Teidän kotiosoitteeseen.

Teidän osasto on Teillä, että osasto on Teillä, että osasto on Teillä.

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National Recreation Demand Inventory (LVVI)

■ **Population-based, random sampled survey**

- Whole population 15-74 years
- Data collection with Statistics Finland

■ **LVVI 1 1998-2000**

- Combined telephone & postal questionnaire survey
- Data collection in 12 samples over 24 months
- Sample size 12 000, **N=10 600**
- Response rate 84 %/ 65 %

■ **LVVI 2 2009-2010**

- Combined web and mail survey
- Data collection in 6 samples over 24 months
- Sample size 24 000, **N= 9000**
- Respond rate 38 % (25 % by web)

■

National Recreation Demand Inventory (LVVI)

■ Products

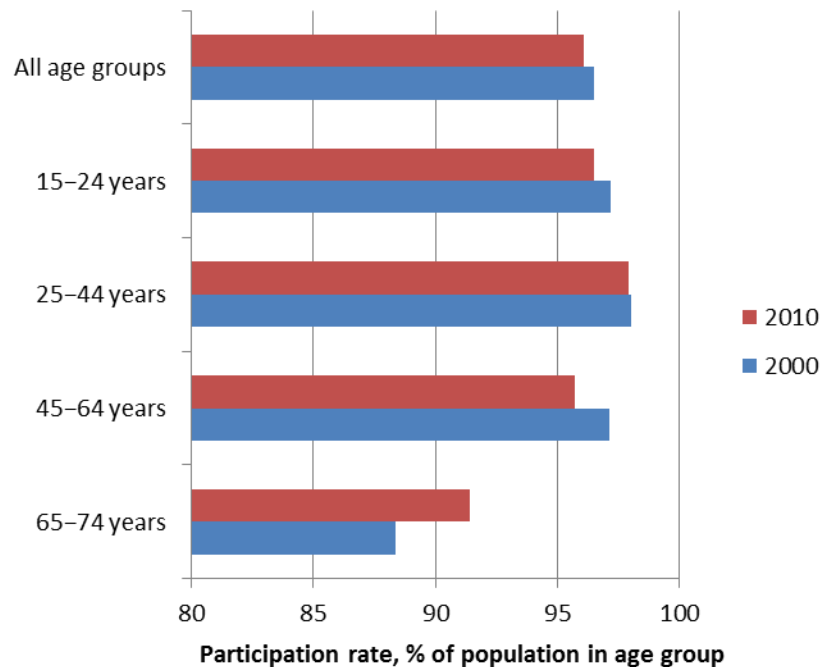
- Outdoor recreation statistics, all Finland 2001, 2011
 - 62 tables
- Regional outdoor recreation statistics 2002, 2013
 - 15 regions

OUTDOOR RECREATION STATISTICS

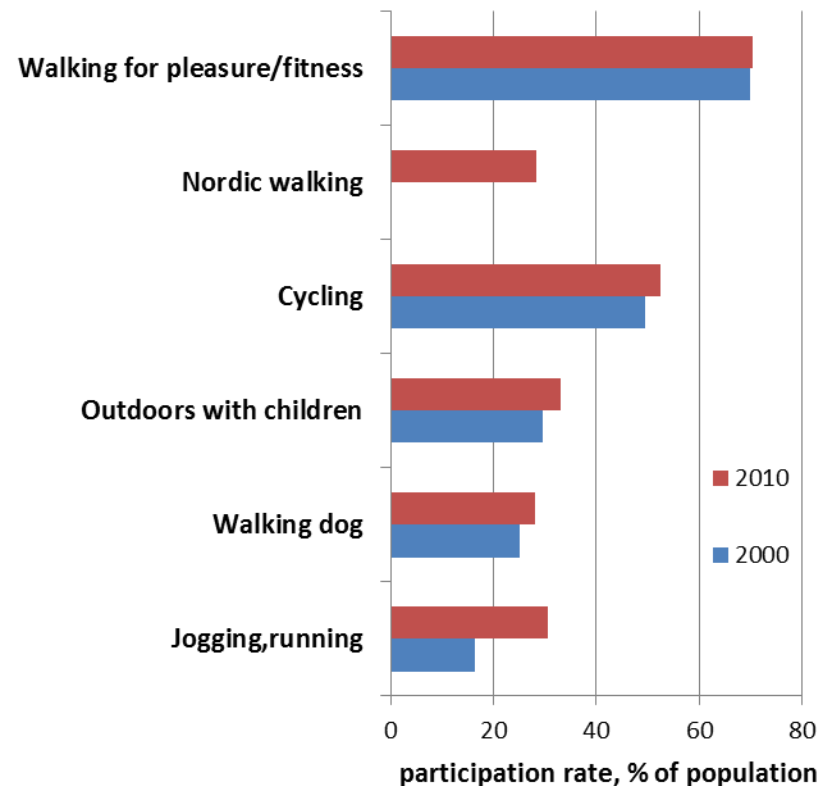
www.metla.fi/metinfo/monikäyttö/lvvi, also in English

- Participation rate was 96,5 %, average number of occasions was 2-3 times a week

Participation in outdoor recreation by age groups in 2000 and 2010



Participation



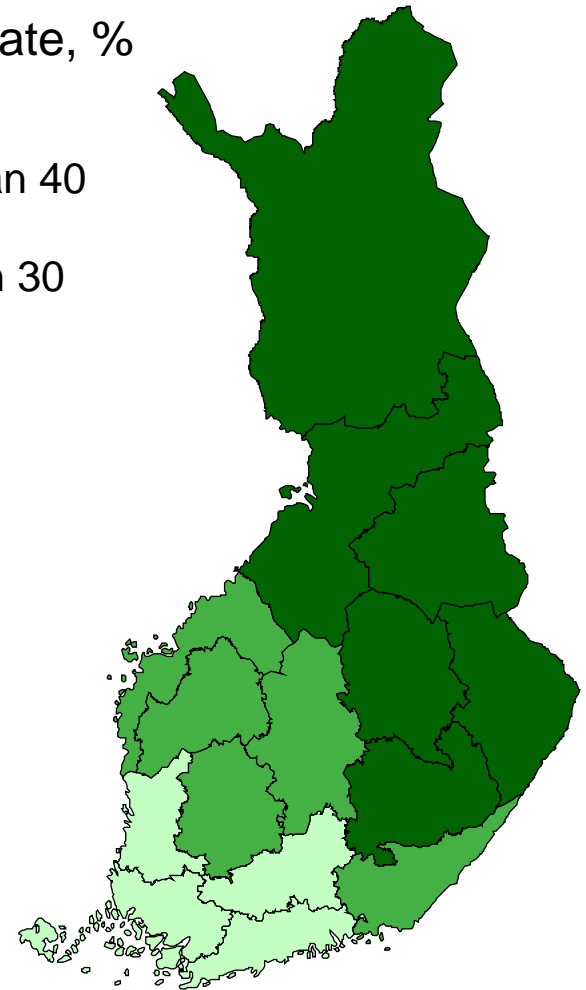
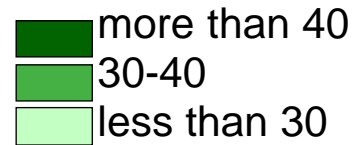
Sievänen & Neuvonen 2011

National Recreation Demand Inventory (LVVI 1 & 2)

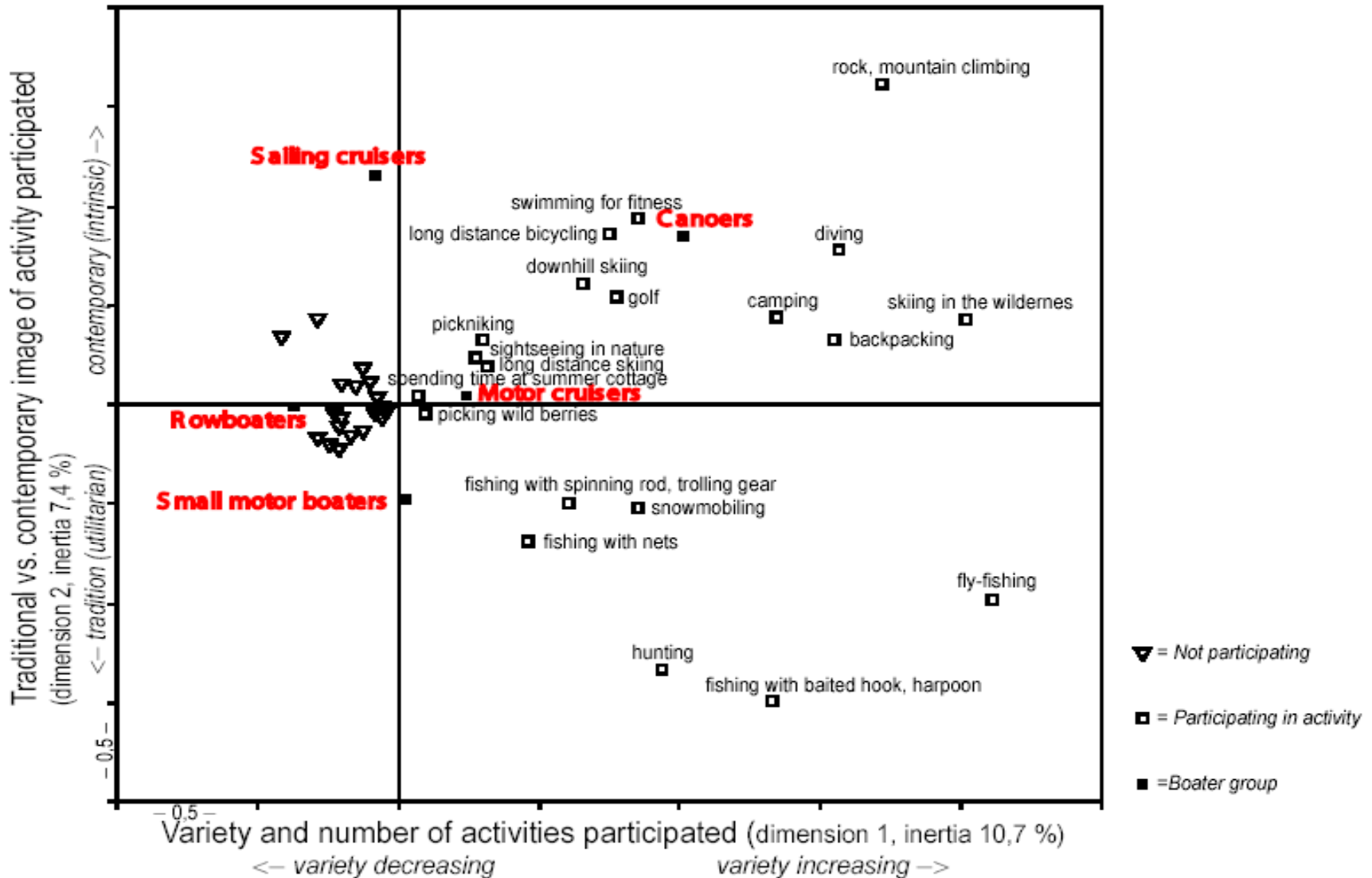
- **LVVI – specific research topics 2002-2013**
 - Profiles of recreationists; recreation behavior research
 - wild berry pickers; wild mushroom pickers; boaters; recreation home users
 - Recreational use of state owned land
 - Regional differences of recreational behavior among Finns
 - Close-to home outdoor recreation and wellbeing and health benefits: access to nature related to perceived health
 - Nature-based tourism (choice of nature trip destination, spending on nature trip)
 - Climate change and outdoor recreation
 - Foresight, prognosis and trends

Regional differences in cross-country skiing

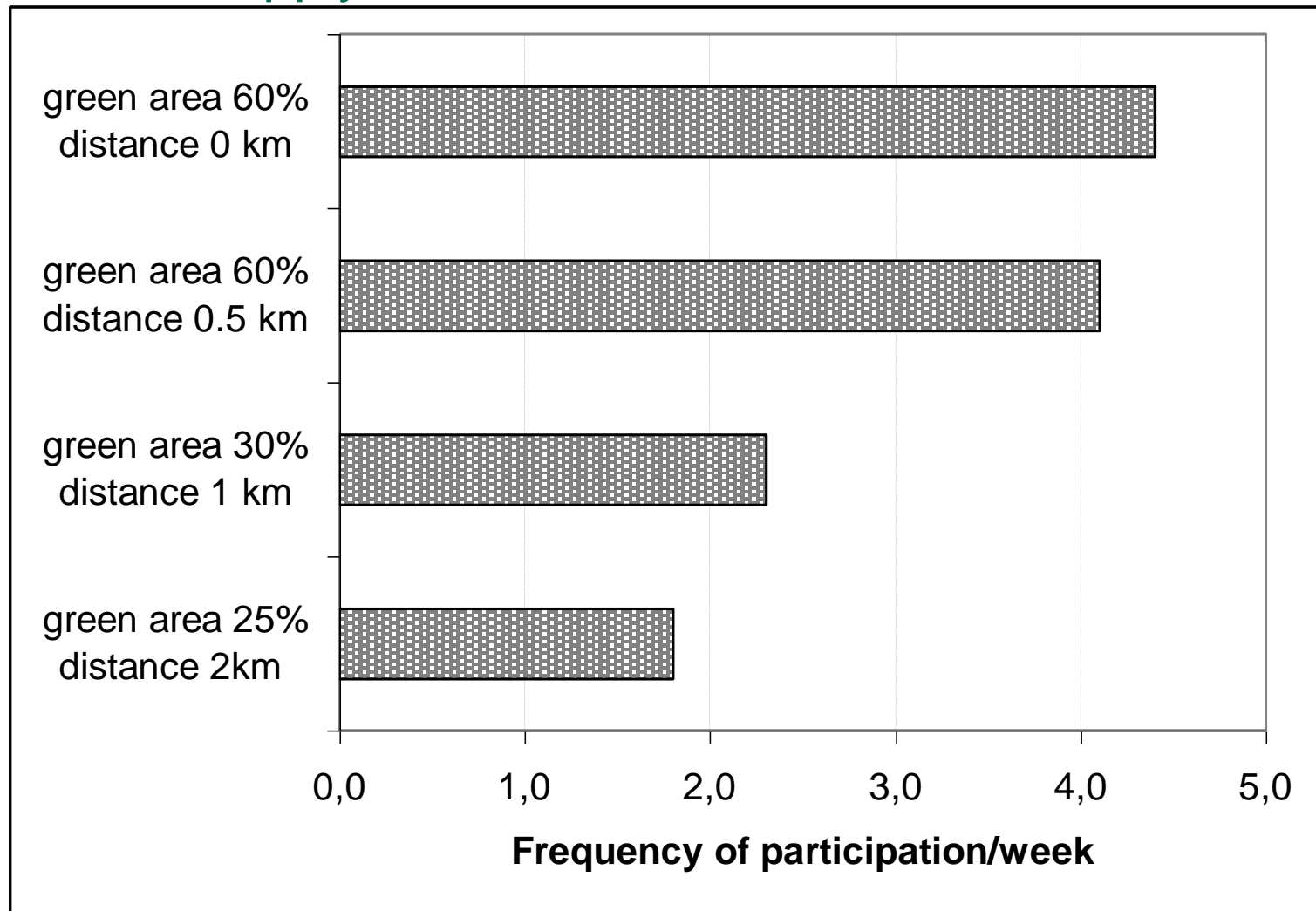
Participation rate, %



Multiple correspondence model of boaters and their recreation participation profiles (Sievänen et al

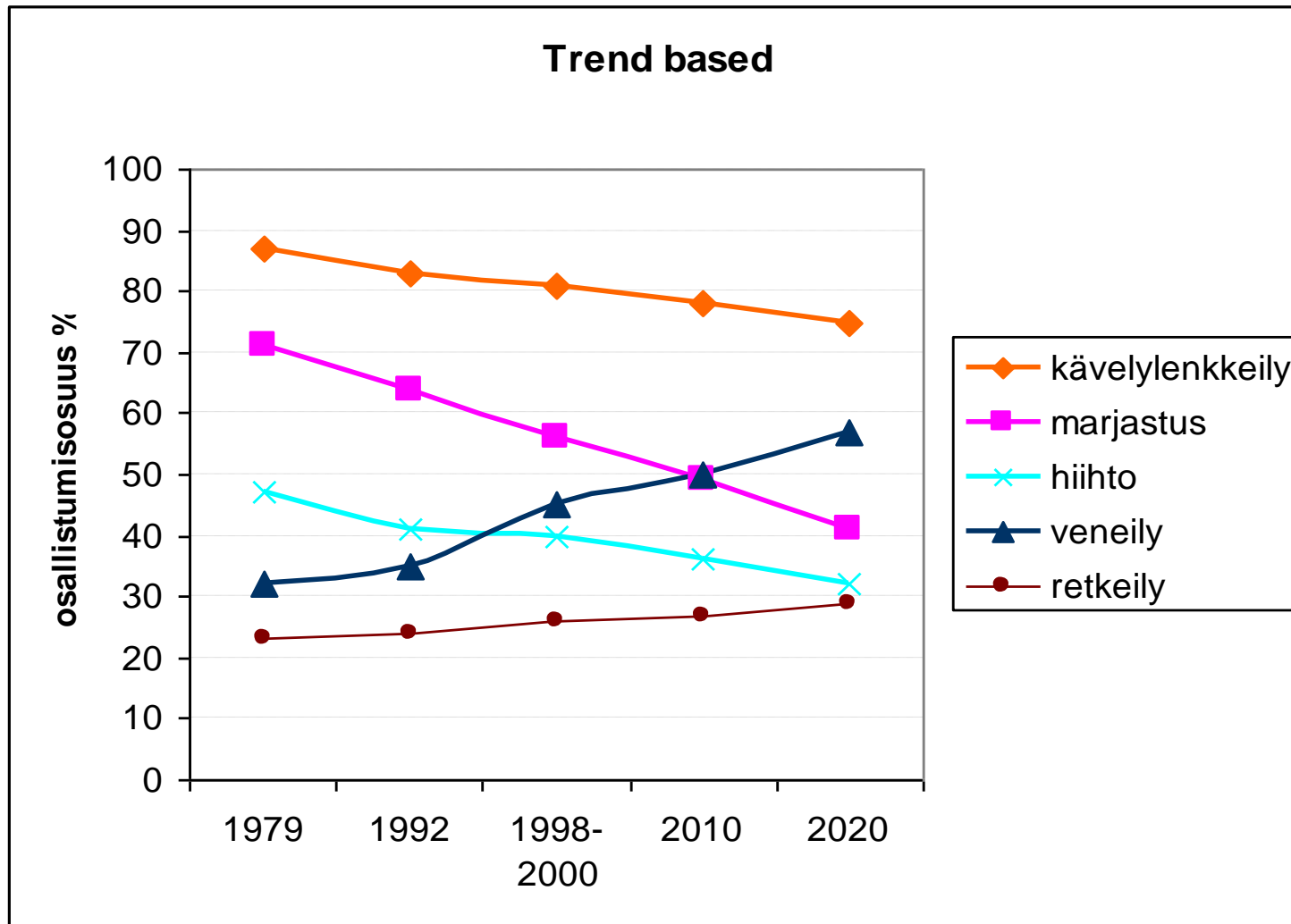


Close-to home visits in Helsinki: expected frequencies related to supply factors; results based on Logit -model

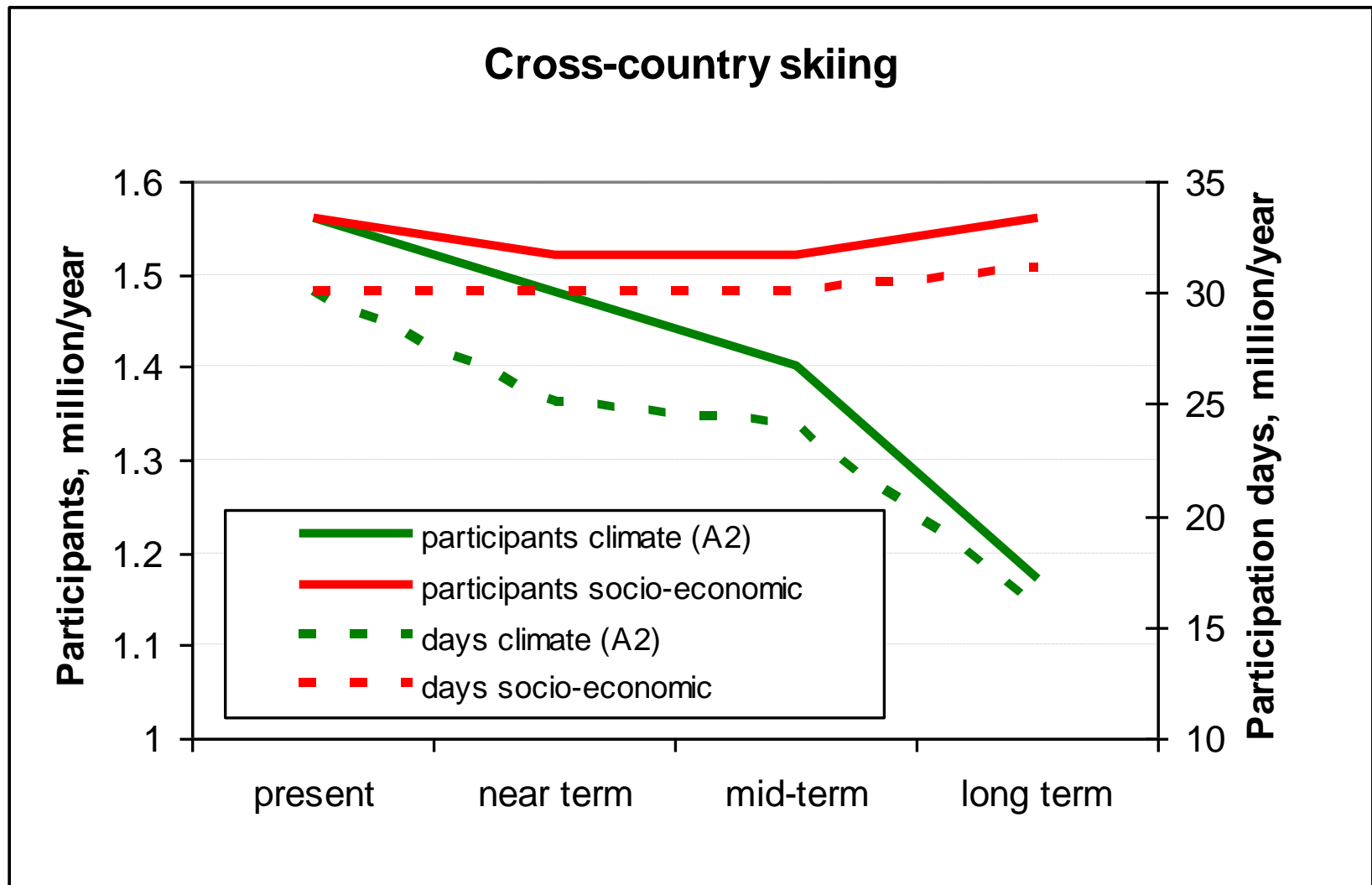


Neuvonen et al. 2007

Participation in outdoor recreation in future Recreation Scenarios and Trends

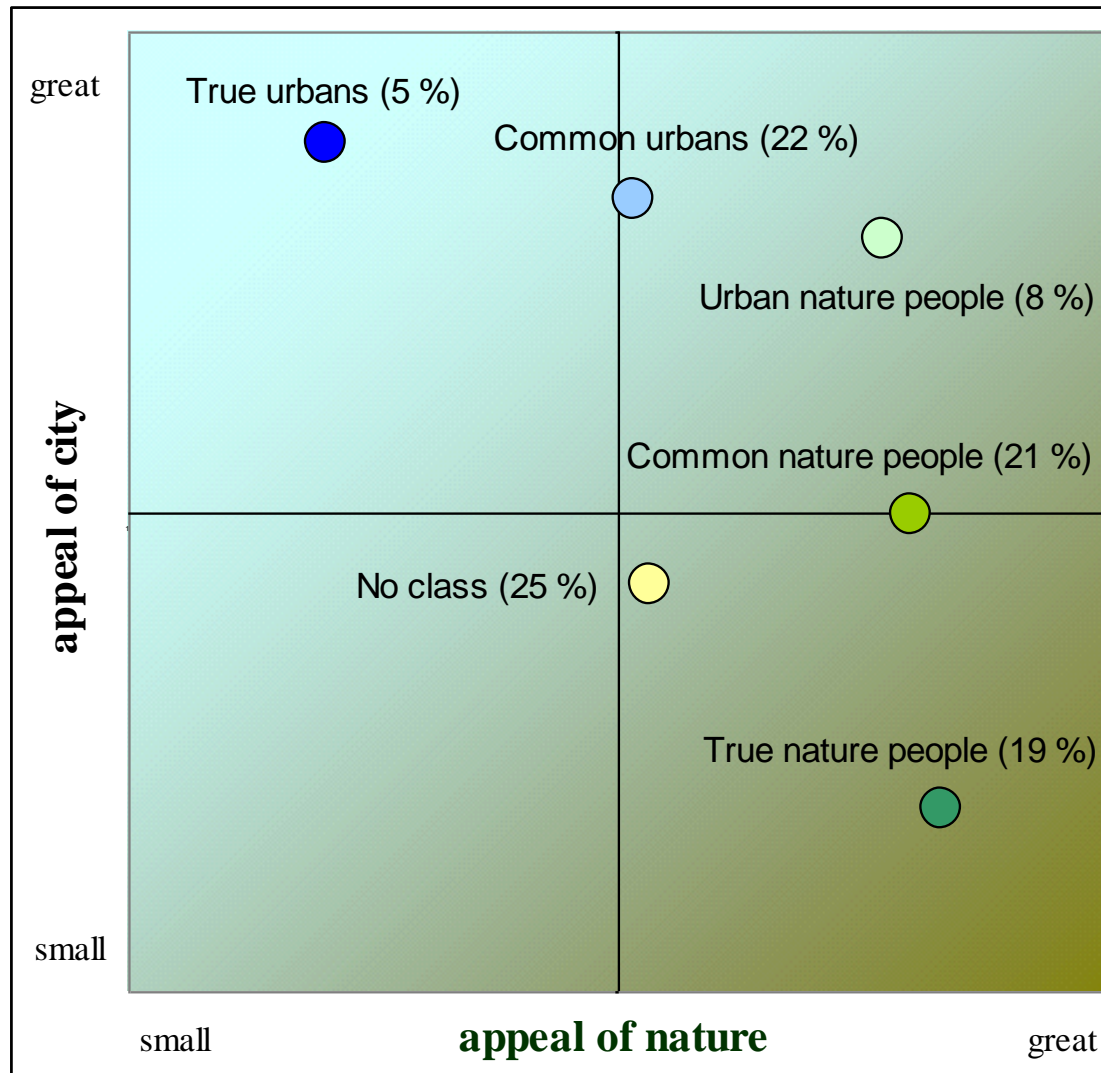


Scenarios of Cross-country Skiing and Changing Climate



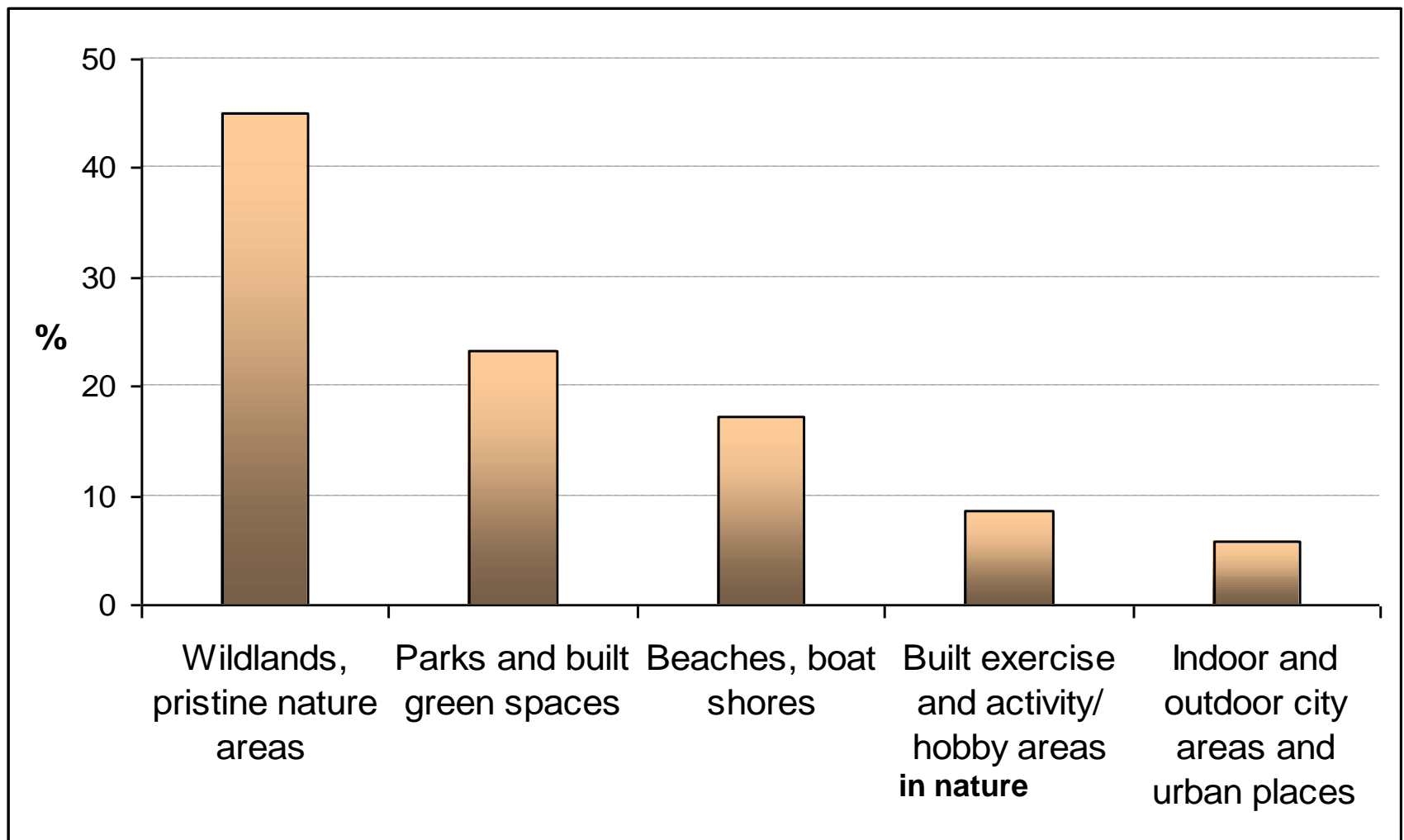
Sievänen et al. 2005

Classification of inhabitants in Helsinki & Tampere



Tyrväinen et al. 2008

Favourite places in Helsinki and Tampere



Tyrväinen et al. 2008

Forests and wellbeing– Research Program (2008-2013) METLA



Liisa Tyrväinen, prof. (nature tourism) & Tuija Sievänen (recreation)

Future challenges

- Emerging research topics in coming years
 - Recreation in green areas and human health benefits -> **indicators**
 - **Environmental changes**; climate change, quality of water, timber harvesting, landscape quality and nature tourism
 - Recreation **monitoring and indicators** of sustainable development (European project planned)
- Challenges of financing
 - commitment for long-term monitoring programs
 - continuity of expert know-how



Thank You