INTEGRATING ECOSYSTEM SERVICES
IN REGIONAL AND LANDSCAPE PLANNING

Kaisa Mustajärvi, Ramboll
Ilpo Tammi, Tampere regional council
Jussi Rasinmäki, SIMOSOL
STRUCTURE OF THE PRESENTATION

The background
Ecosystem services and sustainable planning

Main drivers

Case studies
Tesoma
Tempere region (County)
Kymenlaakso (County)

Lessons learned
The client feedback
AN EXAMPLE OF THE TYPOLOGY OF THE INTERACTIONS BETWEEN DIFFERENT COMPONENTS IN OUR WORK FIELD

Sustainable communities
- Economic wellbeing
  - Preparation for the future
  - Consumption
- Services
- Economic growth
- Public Dept
- Financial structures

Environmental wellbeing
- Health environment
- Climate and energy
- Natural resources
- Biodiversity
- Ecosystem services
- Emissions
- Air quality
- Water quality

Human wellbeing
- Health care and social services
- Basic needs
- Food
- Water
- Environment
- Human health
- Personal development
- Education
- Equality
- Accessibility

AN EXAMPLE OF THE TYPOLOGY OF THE INTERACTIONS BETWEEN DIFFERENT COMPONENTS IN OUR WORK FIELD

E. Kalliala 2013
FUNCTIONALITY AND INTERACTIONS - ECOSYSTEM

01 Air quality
02 Health
03 Climate change
04 Natural resources
05 Biodiversity and endangered species
06 Quality and management of water systems
07 Stormwater control
08 Ecological corridors
09 Ground water
FUNCTIONALITY AND INTERACTIONS - ECOSYSTEM

- Air Quality
- Health
- Climate Change
- Quality and Management of Water Systems
- Ecological Corridors
- Biodiversity and Endangered Species
- Natural Resources
- Stormwater Control
- Ground Water
HOLISTIC PLANNING

Ecosystem services

- Positive Planning and Adding Value
- Integrated and Scalable Approach
- Resilience of Nature and Society
- Wellbeing and Health
- Anthropocentric
- Democratic Decision Making
- System Perspective

Liveable cities and places
MAPPING OF ECOSYSTEM SERVICES

LANDSCAPE PLANNING
MAPPING OF ECOSYSTEM SERVICES

REGIONAL PLANNING
Challenge
A new 3,866 square kilometer planning area
A need to synthesize and concretize nature, recreational and landscape values in the area

What we did
Ecosystem services were mapped on a large and detailed scale
Green infrastructure was valued by using ecosystem services approach

Effect
A new green infrastructure network where nature, recreational and landscape values are in synthesis
The hot spots of green infrastructure values identified
MAPPING OF ECOSYSTEM SERVICES

REGIONAL PLANNING:
COUNTY PLAN OF TAMPERE REGION
To move from identification of services to mapping the value of service
Summer cottage living

Berries (lingon berry)
Net value of all services

Including:
- Eg. Nutrient retention in water basins
- Wood production
- Crops
- Recreation...

PIRKANMAA, Council of Tampere Region
FEEDBACK

FROM CLIENTS
CLIENT FEEDBACK

✔ Facilitates participation
✔ Highlights the multi-functionality of green spaces
✔ Facilitates communication and understanding between stakeholder groups
NEXT STEPS

NEW PROJECTS
GREEN AND BLUE INFRASTRUCTURE OF KYME VALLEY
THANK YOU!

Kaisa Mustajärvi, Ph.D. Ecology
Ramboll, Espoo

+ 358 50 5360488
kaisa.mustajarvi@ramboll.fi