



Economic valuation of ecosystem services for implementation areas

LIFE Platform meeting on Ecosystem Services
10-12 May 2017, Sokos Hotel Viru, Tallinn, Estonia

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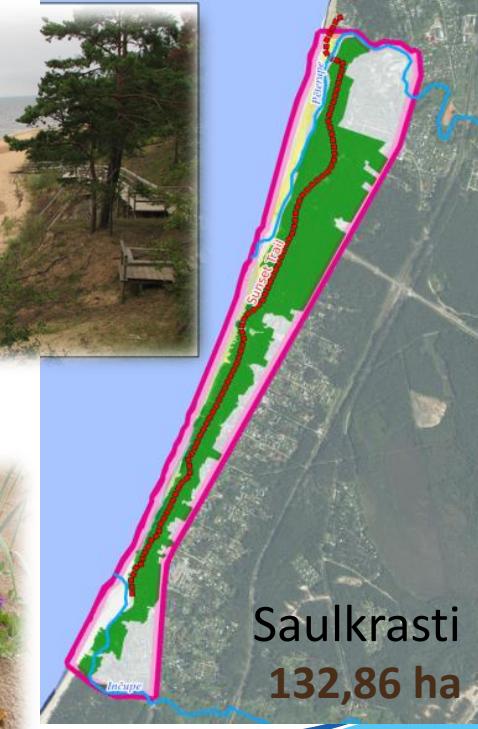
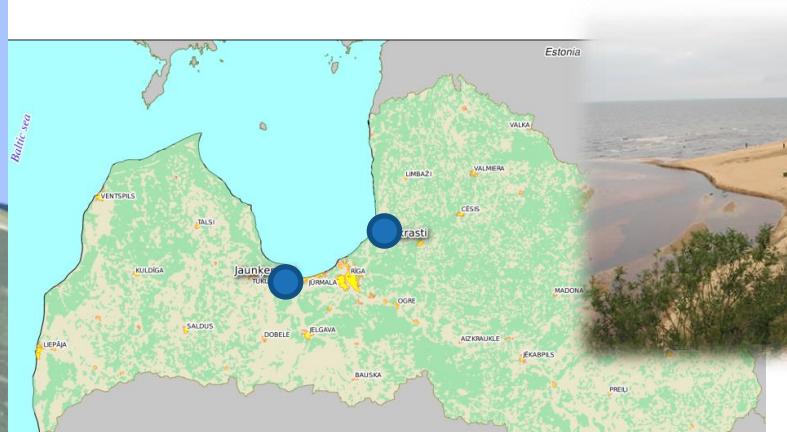




Project implementation areas

Jaunkemeri

90,85 ha



Saulkrasti
132,86 ha



Why economic valuation?

- Ecosystem values are measures of how important ecosystem services are to people – what they are worth.
- Monetary unit is used as a common metric to compare aspects of wellbeing



<https://ensia.com/voices/nature-priceless-value/>

Widely recognized, comparable to other services
Easily incorporated into decision-making





Ecosystem valuation methods used

collection
of
primary
data

aggregation,
comparative
assessment of
secondary data

ecosystem
services
indicators

EUR/ha per year





Ecosystem valuation methods used

Valuation method

Benefit transfer

Market price

Travel cost

Contingent valuation

Ecosystem services

Provision (wild berries; fishing; wood; medical plant)

Regulation (erosion control; noise reduction; Flood protection; Storm protection; pollination; water quality)

Cultural (Active and passive recreation; environmental education; cultural heritage; Aesthetic landscape attractiveness)





Market price method

+

Price data are relatively easy to obtain;
The method uses standard, accepted economic techniques.

-

Limited number of goods and services;
Seasonal variations and other effects on prices need to be considered

Geospatial unit	Area, ha	Potencial wild berry harvest, kg/ha	Wild berry harvest, kg	EUR (10EUR/kg) 2015.g. prices	EUR/ha
Wooded coastal dunes, middle-aged and mature forest	3.8	286	1086.8	10868.0	2860.0

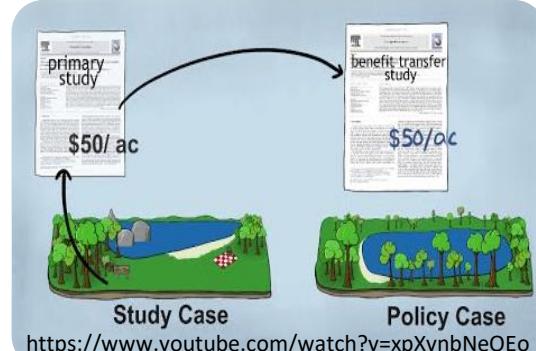


Photo:A.Soms





Benefit Transfer method



TEEB (*The Economics of Ecosystems and Biodiversity data base*)

-
Good studies for the policy or issue in question may not be available;
Benefit transfers can only be as accurate as the initial value estimate

+

Less costly;
More quickly;



Photo:A.Soms



Travel costs method



+

Actual people behaviour;
Relatively inexpensive to apply;
Opportunities for large sample sizes

-

The value of the site may be overestimated;
Defining the value of time spent traveling

Medical plants

Bird waching

Active and passive recreation

Environmental education

Cultural heritage

The cultural visual identity





LIFE_ekosistemu_pakalpojumi_darba_variants.xlsx - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View

Cut Copy Paste Format Painter Clipboard

Font Alignment Number Conditional Formatting as Table Styles Cell Insert Delete Format Cells Cells

AutoSum Fill Clear Sort & Filter Find & Select Editing

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1 EXOSISTĒMU PAKALPOJUMU DATU IEVADES TABULA

2 IZVĒLIETIES SCĒNIĀRIU!

3 Attiecīgās scenārijs:

4 Indikatora nosaukums:

5 2: Plānotā attīstība

6 1. un 3. scenārijs

7 1. un 3. scenārijs

8 1. un 3. scenārijs

9 Geotelpiskās vienības pēc zemes seguma veida

10 Atsevišķi 1/0

11 Platība (ha) 16.40

12 Platība (ha) 0.85

13 Platība (ha) 8.38

14 Platība (ha) 5.71

15 Platība (ha) 0.00

16 Melnais piejūras kāpas un pļaugutā un pārāzugai audze. Vei vai sabūti boriņi mēri. Vidēja veuma un briesztasutes

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18 Ruderālās

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25 1. ietotīja definēta papildus geotelpiskā vienība

26 2. ietotīja definēta papildus geotelpiskā vienība

27 3. ietotīja definēta papildus geotelpiskā vienība

28 KOPĀ 132.85 79.00 132.85

29

30

31

14 2. Datu ievade 3. Finanšu-statistikas konst. 4. Nodrošinjuma EP 5. Regulējošie EP 6. Kultūras EP 7. Kopsavilkums /inputlists-hid /S3-hid /validacija-hid Count: 3 70% +





Thank you!



<http://ekosistemas.daba.gov.lv>



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