



LIFE projekts

Possibilities for applying ES assessment results in spatial planning in Latvia

Inga Hoņavko

LIFE EcosystemServices project manager

LIFE Viva Grass seminar, Sigulda, 17.05.2018



Projekts LIFE EcosystemServices, LIFE13 ENV/LV/000839



Interaction between ecosystem services and economic activity



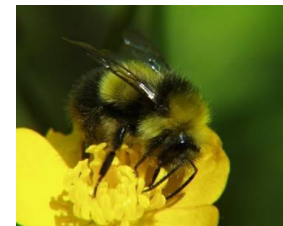
Economic activity **impact** ecosystems and their services



Changes in ecosystems poses **risks and opportunities** for economic activity

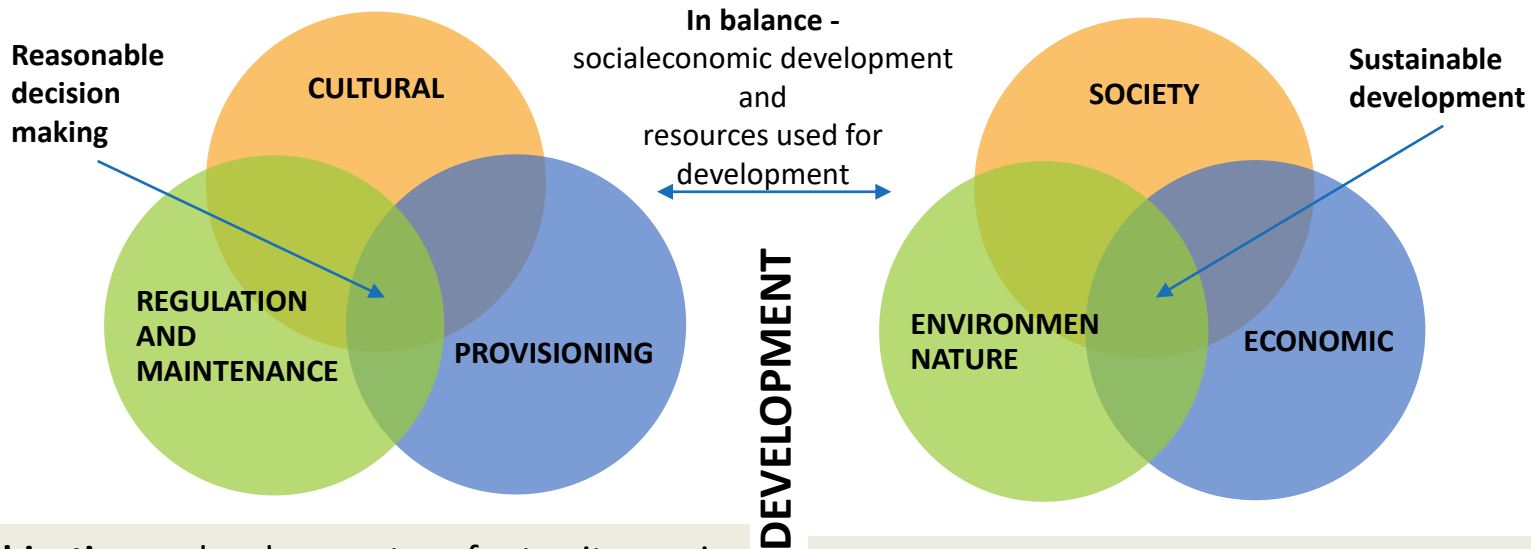


Economic activity **depends on** ecosystems and their services





Ecosystem services approach and sustainable development – correlation



Objective: development of territory in reasonable and non-degrading manner by respecting ecosystems capacity to provide ecosystem services.

Steps: ES mapping, assessment, modelling of development scenarios (analysis of benefits and losses), decision making, implementation.

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Objective: to balance our economic, environmental and social needs, allowing prosperity for now and future generations.

Steps: identifying the situation (needs and possibilities), vision, definition of strategic objectives and priorities, development of action program and budget planning, implementation.



LEVELS OF SPATIAL DEVELOPMENT PLANNING





National level documents for reasonable decision making by respecting capital of nature - I

Sustainable Development Strategy of Latvia until 2030

- ✓ Latvia – leader provider of sustainable nature services in EU
- ✓ Capital of nature have to be assessed - ecosystems quality assessment



Proportion of area of special areas of conservation, % of the state territory - **18**

Now
~ **12%**

National Development Plan of Latvia for 2014-2020 (NDP2020)

- ✓ Action – sustainable management of capital of nature and culture
- ✓ Maintain capital of nature as the basis for sustainable economic activity

Proportion of organic farming, % of the state agricultural land - **10**





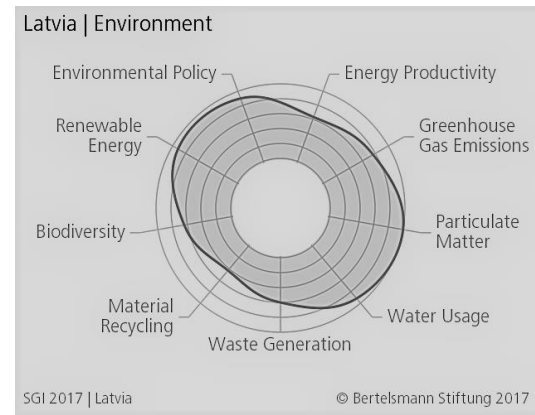
National level documents for reasonable decision making by respecting capital of nature - II

Environmental policy strategy 2014 – 2020

- ✓ **Objective** – ensure environment in good quality as a basis for society well – being
- ✓ Nature protection - one of thematic sector
 - ensure quality of ecosystems;
 - balance between nature protection and socioeconomic interests

Actions

- ✓ integration of environmental aspects in early stage territorial planning and respect these aspects;
- ✓ to fill nature data gaps (mapping of species and habitats – base for assessment);
- ✓ integration of nature conservation plans and territorial plans





Policy implementation

Key action

- ✓ **Collection of detailed and complete information about Latvia's natural capital - a Nature Census (2017 – 2020) – mapping of EU importance habitats in Latvia**

National level planning

- ✓ The national Maritime Spatial Plan (MSP)

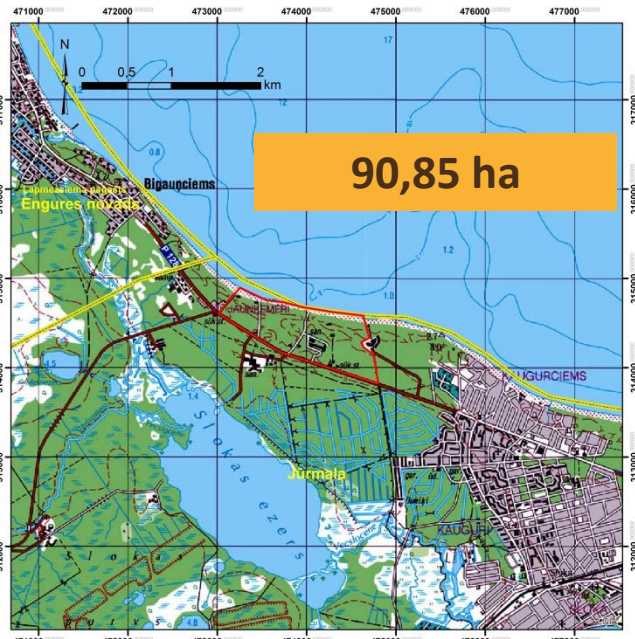
Actual case studies and projects

- ✓ LIFE Viva Grass - grasslands
- ✓ LIFE EcosystemServices – terrestrial coastal areas
- ✓ Latvian State Forest Research Institute Silava and JSC “Latvian State Forests” collaboration project: “The impact of forest management on forest and related ecosystem services” – forests
- ✓ LIFE Restore - peatlands





LIFE Ecosystem Services project case – Jaunķemeri and Saulkrasti

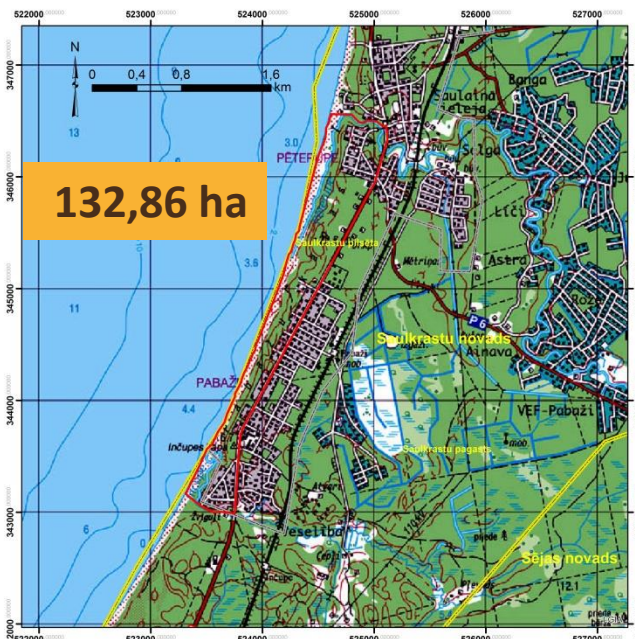


Jaunķemeri pilotteritorija

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Apzīmējumi

- Pilotteritorija
- Novadu un valsts nozīmes pilsētu robežas
- Pagastu un pilsētu robežas



Saulkrasti pilotteritorija

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Apzīmējumi

- Pilotteritorija
- Novadu un valsts nozīmes pilsētu robežas
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Objectives and tasks

To create an innovative approach within the territorial planning processes in Latvia by developed methodology of ecosystems and their services assessment in accordance with the best EU practices.

ES mapping and assessment/valuation (biophysical and economic) methodology

Applying the mapping and valuation results in planning documents

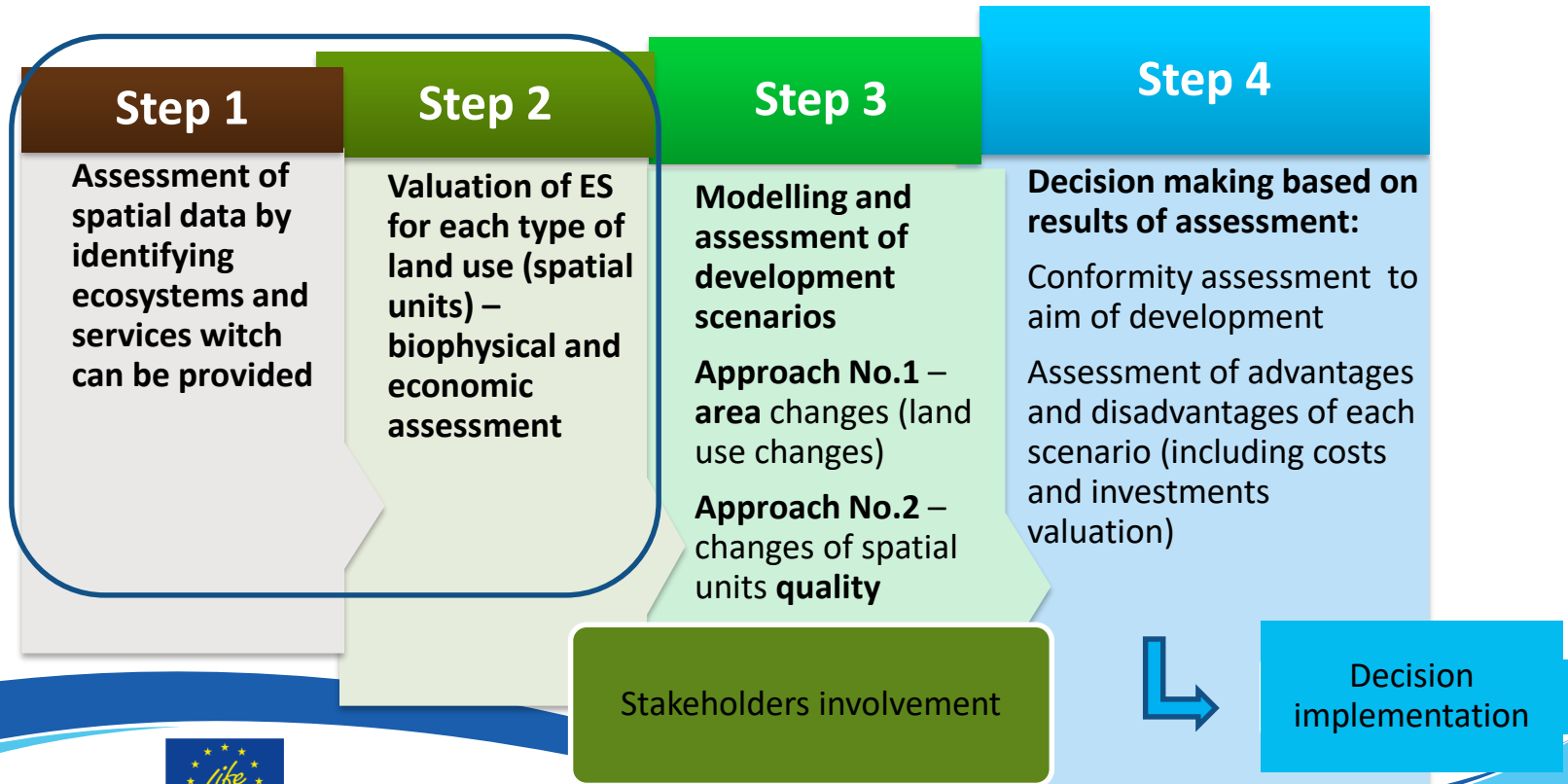
Recommendations and Toolkit for practical ES approach applying in planning process

Creation of Nature Design Park in Saulkrasti





ES approach applying steps for local level





Results of 1st – 2nd step

22 ES identified and assessed – biophysical and economic:

- ✓ 4 provisioning
- ✓ 13 regulation and maintenance
- ✓ 5 cultural

Ibašs	Indikators	Militārs Pudināle	Kāpos	Embrionālās kāpas	Peečkāpas	Mēzandē pagārs kāpas	
						veģēta ucuma un brīstauce	pieaugas un pārēaugas audze
Savvaļas augi, sēnes, aļģes un to produkti	Mēla ogu raža	0	0	0	0	1	3
Savvaļas zivis (upes)	Nāģu mazu skaits	0	0	0	0	0	0
Šķiedras un citi materiāli no augiem, aļģēm un dzīvniekiem tēlā z marantāna vai pārstrāde	Potenciāli iegūtamais kokneses krājas apjoms	0	0	0	0	1	2
Šķiedras un citi materiāli no augiem, aļģēm un dzīvniekiem tēlā z marantāna vai pārstrāde	Ārstniecības augi	0	0	0	0	1	1
Augu vaieti izcēlmes resursi	Potenciāli iegūtama izcēlmes biomasas enerģētiskās vajadzības	0	0	0	0	1	1
Piesaites un uzturēšanas procesi ekosistēmās	Augšnes spēja barības vielu piesaistī un uzturētānā	1	1	1	1	2	2
Piesārņojuma attīstīšana saistīdēnos ekosistēmās	Piesārņojuma attīstīšanas spēja upē	0	0	0	0	0	0
Troksņu mazināšana	Audzes biežība	0	0	0	0	4	3
Erozijas kontrole: veģetācijas seguma, kas aizsargā saucēnes ekosistēmās	Saules apgums mūsdienu eozās skumūkojās reģētā	0	1	2	2	0	0
Būvniecība un masu pēlmas vārdāšana	Saules apgums	4	0	0	0	0	0

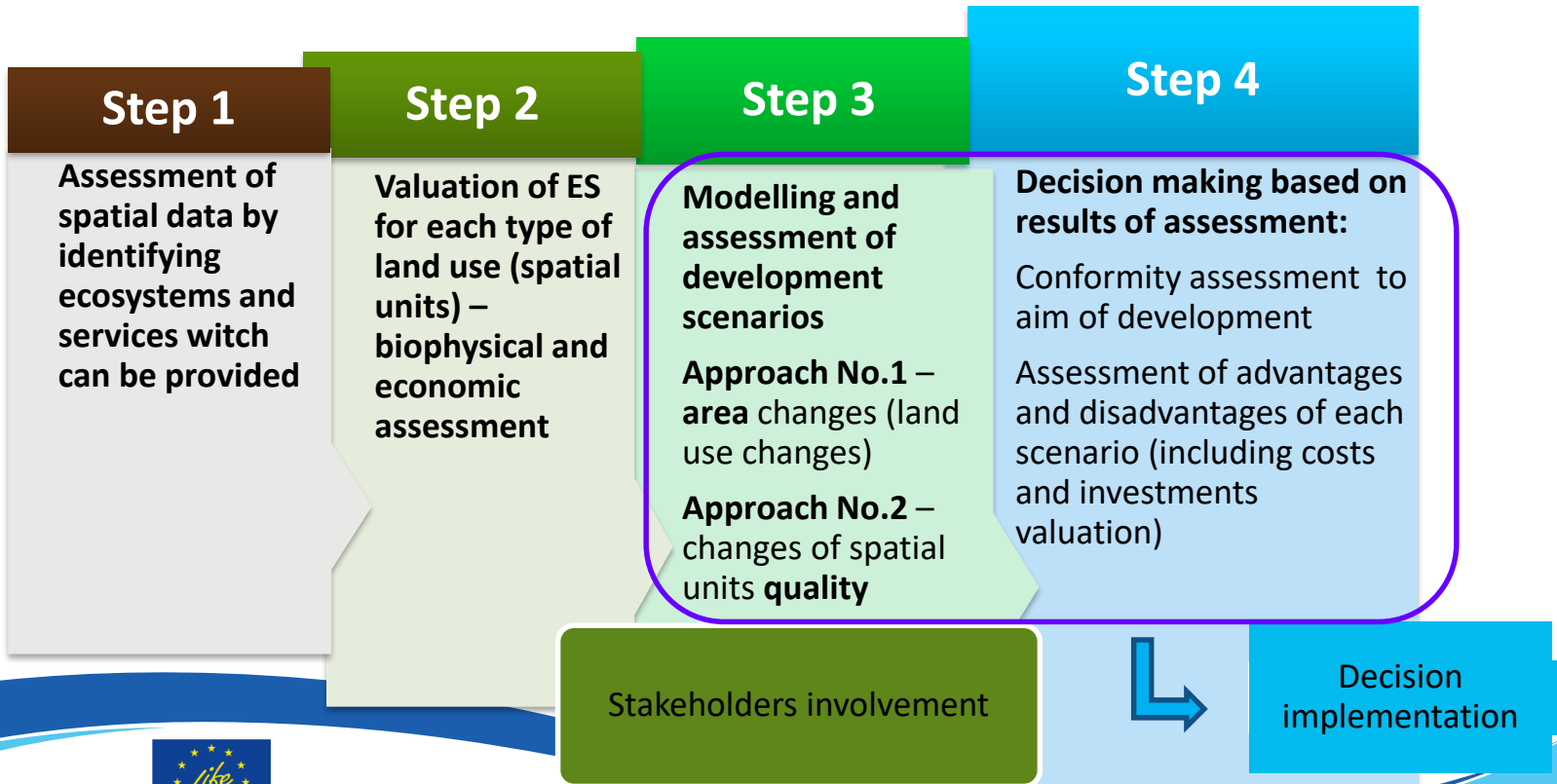


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EKOSISTĒMU PAKALPOJUMU DATŪ IZVADES TABULA		Atsēcināmie scenāriji																			
IZVĒLĒTIES SCENĀRIJU		I. un 3. scenāriji								I. un 3. scenāriji											
2: Plānotā attīstība		Indikatora nosaukums:																			
Geotēpiskās vienas pēc zemes seguma veids		Indikatora numurs:																			
		Absolūtais	Mēlveģētāciskā vērtība (vērtība L 2)	Mēlveģētāciskā vērtība (vērtība L 2)	Mēlveģētāciskā vērtība (vērtība L 2)	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2, B3	B4	B5	B6	B7	B8	
10	Pudināle	1	16.40	16.40																	
11	Kāpas	1	0.85	2.00	0.85									1.0							
12	Pēdēdēģes	1	3.39	9.38										1.0							
13	Upe	1	3.71	3.00	3.71																
14	Upe	1	3.71	3.00	3.71																
15	Upe	0	0.00	0.00																	
16	Mēlveģētāciskā kāpas un pēdēdēģes audze	1	12.09	12.09		562	0	0.00	2.05	5%	0.00			1.5	0	0.70			2	1	2
17	Mēlveģētāciskā kāpas un pēdēdēģes audze	1	12.43	12.43		111	0.00	2.05	5%	0.00				1.5	0.80				2	2	3
18	Mēlveģētāciskā kāpas un pēdēdēģes audze	1	13.39	13.39		562	52.20	1.68	5%	18.30				1.5	0.70				2	1	2
19	Mēlveģētāciskā kāpas un pēdēdēģes audze	1	22.85	3.00	22.85		111	48.20	1.68	5%	16.90			1.5	0.80				2	2	3
20	Pudināle	1	2.35	2.35																	
21	Embrionālās kāpas	1	28.49	45.00	28.49																
22	Publiskā apdēģes teritorija	1	0.73	4.00	0.73																
23	Publiskā apdēģes teritorija	1	2.85	4.00	2.85																
24	Publiskā apdēģes teritorija	1	7.43	14.00	7.43																



ES approach applying steps for local level





Proposal for ES assessment applying in planning documents – Nature Conservation Plans (NCP) of specially protected nature territories of Latvia

ES identification

Updating of legal base

- ES is defined as a part of basic information of specially protected area's nature values
- Nature values maps include maps of ES provided by area as well

ES valuation

Elaboration of NCP

- Necessity for ES identification and mapping defined in updated legal base
- Socioeconomic valuation of nature values means ES assessment methods using

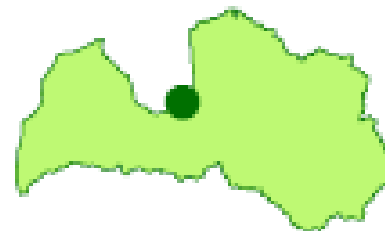
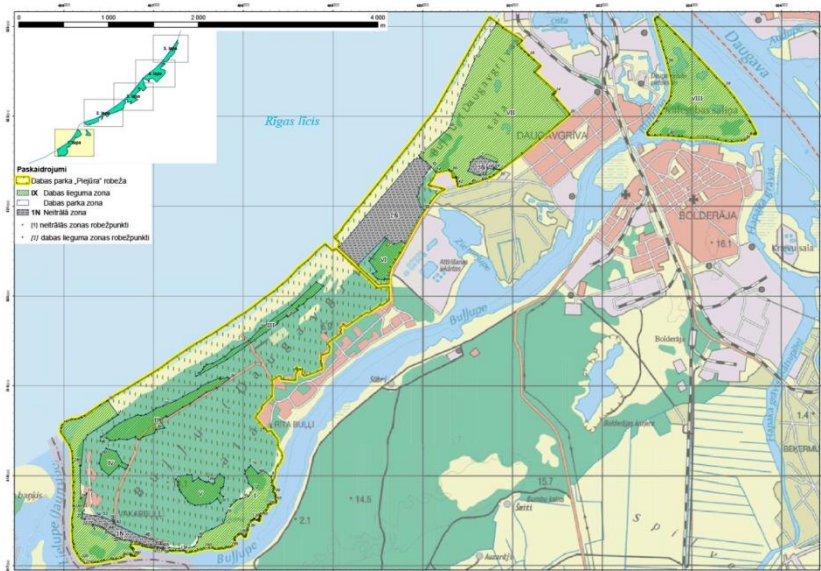
ES assessment results

Elaboration of NCP

- Applying for NCP objectives (both long and short term) defining and justifying
- Applying for concrete conservation action justifying
- Applying for justification of proposals for changes in municipalities spatial plans/specially protected nature territory zoning/ specially regulations of using and management of specially territory



Nature Conservation Plan for Nature park “Piejūra” – first case



Nature Conservation Plan elaboration – 2018 – 2020 in close cooperation with LIFE EcosystemServices project





Thank you!

Inga Hoņavko

LIFE EcosystemServices project manager
inga.honavko@daba.gov.lv;



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



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