



LIFE projekts

Assessment of ecosystems and their  
services for nature biodiversity  
conservation and management

**«LIFE EcosystemServices»**  
**LIFE13 ENV/LV/000839**

**Course “An Introduction to Ecosystem Service Theory  
and Practices”**

**LUA, Jelgava, 03.11.2016.**





# About project

**Project title:** Assessment of ecosystems and their services for nature biodiversity conservation and management

**Acronym:** LIFE EcosystemServices

**Partners:** Nature Conservation Agency of Latvia, NGO „Baltic Coasts” and Saulkrasti Municipality

**Budget:** 753 290 EUR; EU contribution (50%), co-financiers - LEPFA and associated beneficiaries

**Project duration:** 01.06.2014 -31.05.2018





# Project objectives

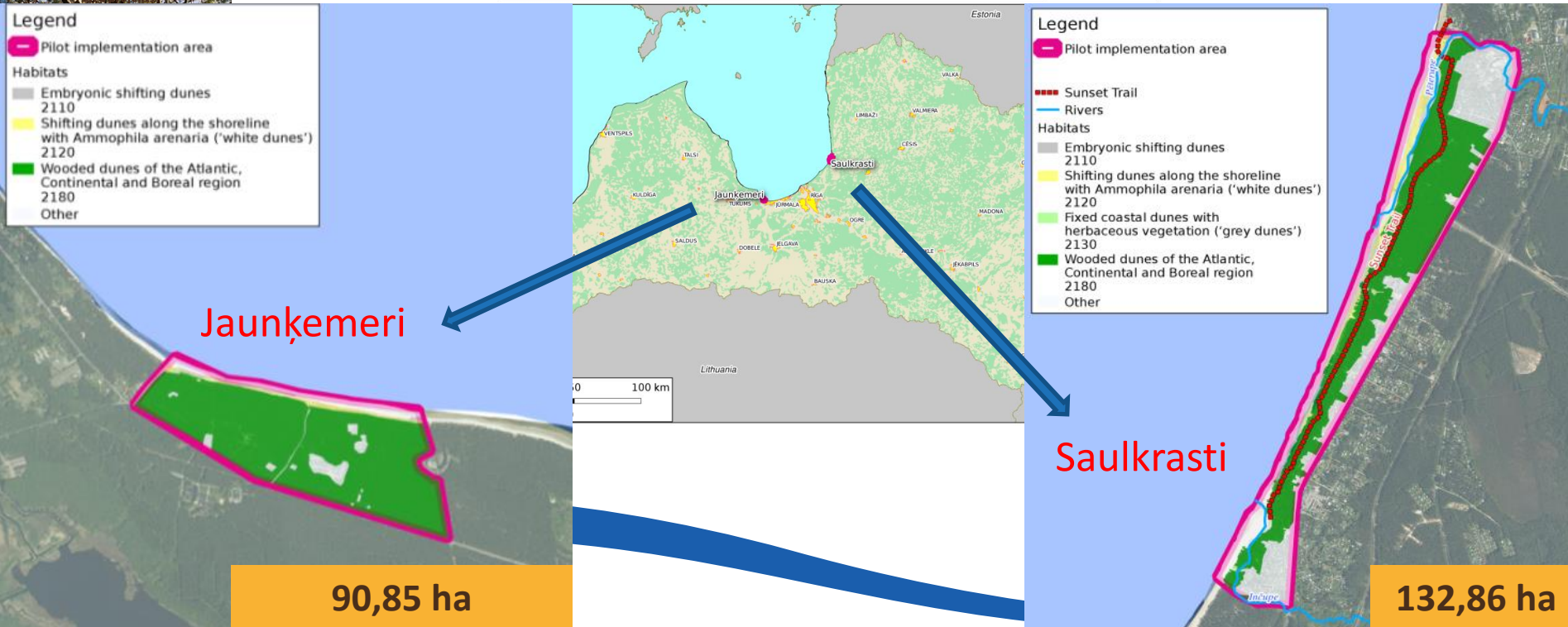
- Introduce an innovative approach to the conservation of nature values, through balancing those values with social and economic considerations; the best EU practice will be applied and adapted for situation and conditions of Latvia;
- The project will develop general recommendations that will help to integrate ecosystem services assessment approach into decision-making and spatial planning processes of municipalities and elaboration process of nature conservation plans;
- Information and environmental awareness raising activities; explain to the target audiences the importance of ecosystem services assessment and application possibilities to increase the region's overall well-being.





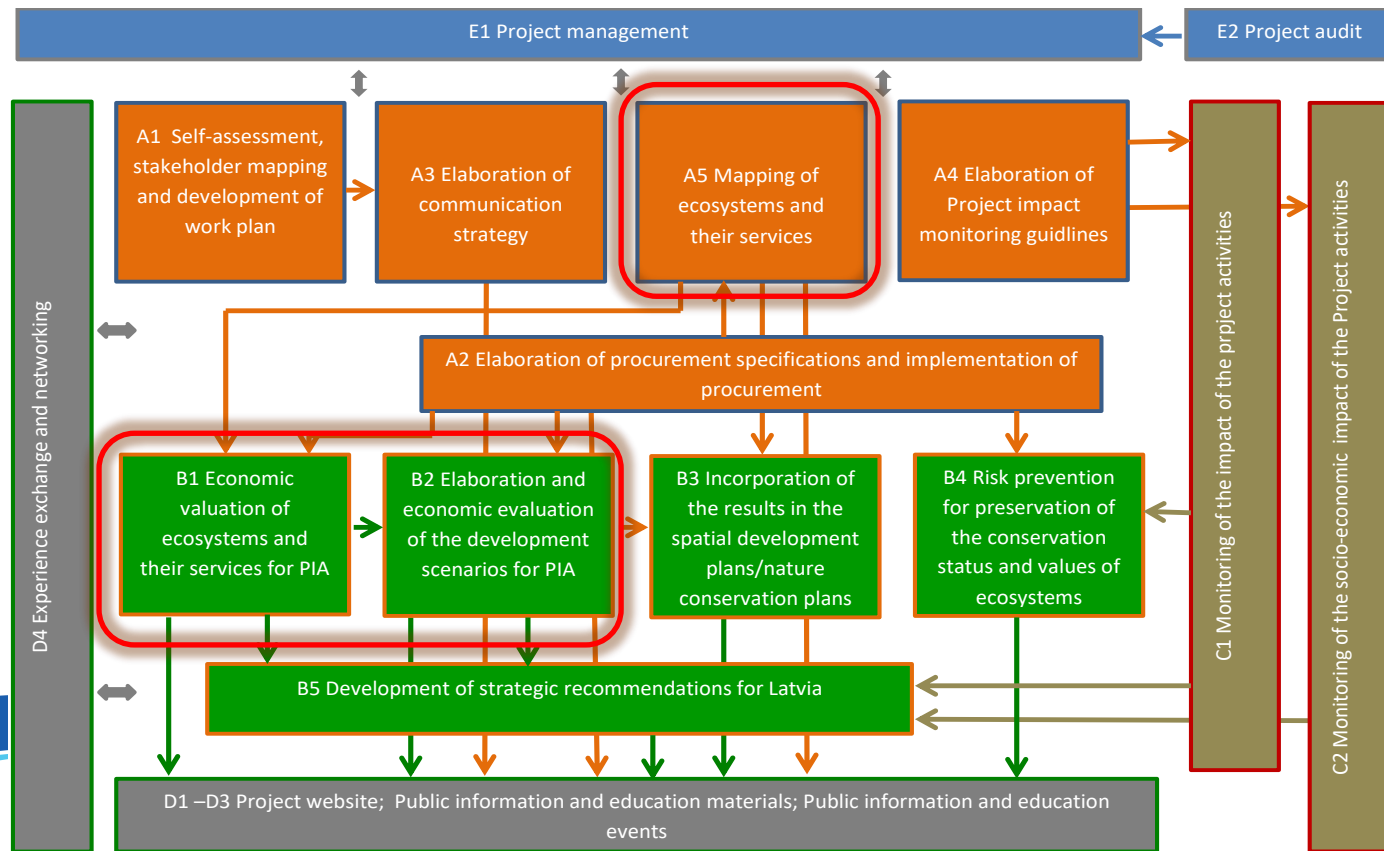


# Project implementation areas





# Project actions





# Project results

**Data** – mapping and assessment of ecosystems and their services (biophysical assessment - completed, social survey – ongoing; economic assessment – ongoing) and **related methodologies**

**Communication** - logo, **web site**, articles, **E-newsletter**, **publications**, **short documentaries**/ common work events, **seminars**, **final conference**

**Project Prototype – Nature Design Park in Saulkrasti** (to prevent the risk of further degradation of ecosystems and their quality; to enhance the appeal of the site to the visitors; to promote the social awareness of visitors) – opening event in September, 2016

**Final recommendations for Latvia and Toolkit** (supplementary instrument for implementation of recommendations) – May, 2018;





# Ecosystem services

## Ecosystem services what we deal with

- **22 ES** (Provisioning - 4, Regulation & Maintenance – 13, Cultural – 5) were identified in two pilot areas in the coastal zone – Jaunkemeri (~ 90 ha) and Saulkrasti (~ 132 ha).

## The actions that we take to evaluate/describe/assess them

- Mapping of the ecosystems and their services; economical evaluation of the identified ES.

## Methods used

- **Mapping** - ES assessment matrix (developed by B. Burkhard et al, 2009, 2012 and 2014); 5 point scoring system; elaboration of the indicators for the ES assessment; the assessment values were used to create a map for each ES and a multi - layer map of ES provided as sum of different services.
- **Economical evaluation** - secondary data – **market price method** for provisioning ES, **market price method/benefit transfer method** for regulation & maintenance ES, **benefit transfer method** for cultural ES; primary data – **travel cost method/contingent method** for cultural ES







# Ecosystem services - results

**Results to share** - mapping of the ES using biophysical data and expert judgement; tested and assessed the criteria and indicators for the coastal ES assessment appropriate for specific Latvia condition.

**Conclusions** - method used provides an opportunity to describe spatially distribution and importance of the ES in the given area, to identify most valuable areas with regard to the ES supply as well as to evaluate the impact on the ES supply for development scenarios.

**Reports, publications available** – Mapping and Assessment of Ecosystem Services in Jaunkemeri and Saulkrasti Pilot Areas within the “LIFE EcosystemServices” (LIFE13 ENV/LV/000839) project (EN, Summary of the Final report).

**Reports, publication planned** – Report on Economic evaluation of ES, elaboration and economic evaluation of the development scenarios for PIA.







# Communication



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



[Twitter.com/EkosistemasLv](https://twitter.com/EkosistemasLv)



[Facebook.com/ekosistemas](https://facebook.com/ekosistemas)



LIFE13 ENV/LV/000839 projekts LIFE Ekosistēmu pakalpojumi/ LIFE EcosystemServices



<https://www.youtube.com>





# Thank you!

**Inga Hoņavko**

LIFE EcosystemServices project manager

e-mail: [inga.honavko@daba.gov.lv](mailto:inga.honavko@daba.gov.lv);

phone: +371 28607129

