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EU LIFE Programme project
"Optimising the Governance and Management of the Natura 2000 Protected Areas Network in Latvia"
(LIFE19 IPE/LV/000010 LIFE-IP LatViaNature)

State Regional Development Agency Republic of Latvia

LIFE-IP LatViaNature project actions on IAS

Jēkabs Dzenis, Jānis Saulītis, Santa Rutkovska - Nature Conservation Agency of Latvia, project LIFE-IP LatViaNature experts

Projects LIFE-IP LatViaNature and NATURALIT
20.05.2024. Sigulda, Latvia

General info






Focus on invasive alien species (IAS)

- The threat caused by IAS to native species, natural and semi-natural habitats, ecosystem functions, human health and economics is serious and constantly growing
- Their damage to the environment, including biodiversity, is rapidly increasing also in Latvia
- Urgent need for action – active management, prevention, legislation, monitoring and engagement of private landowners

Regulation 1143/2014 - from the 88 IAS of EU concern in Latvia

- 11 species are in wild (3 plants+8 animals)
- 12 species are kept in captivity (8 plants+4 animals)

- *Elodea nuttallii*
- ***Heracleum sosnowskyi***
- ***Impatiens glandulifera***

- *Eriocheir sinensis*
- *Faxonius limosus*
- ***Nyctereutes procyonoides***
- *Ondatra zibethicus*
- *Orconectes limosus*
- *Pacifastacus leniusculus*
- *Percottus glenii*
- *Trachemys scripta*

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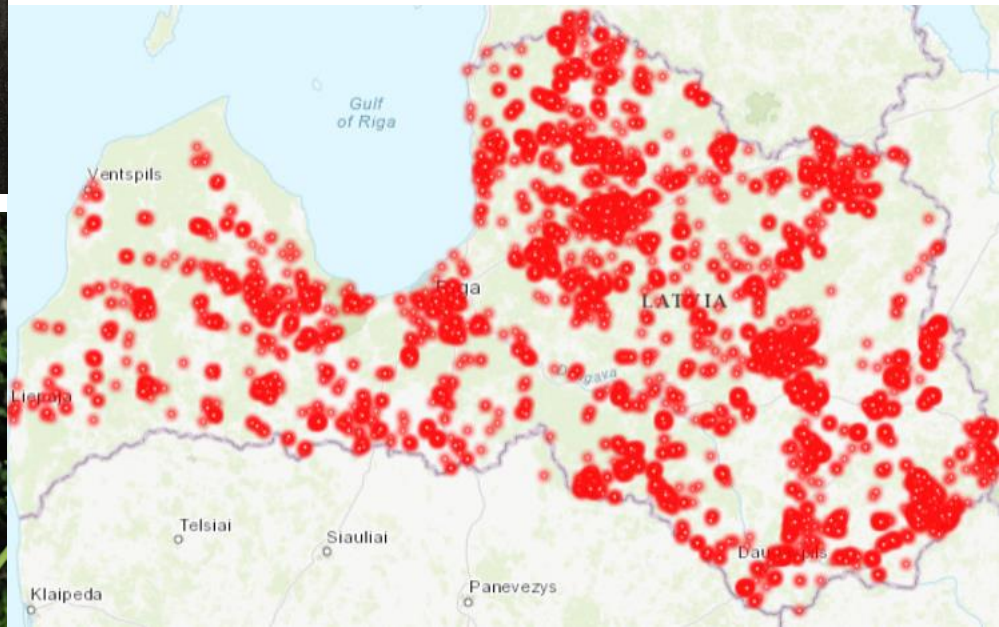
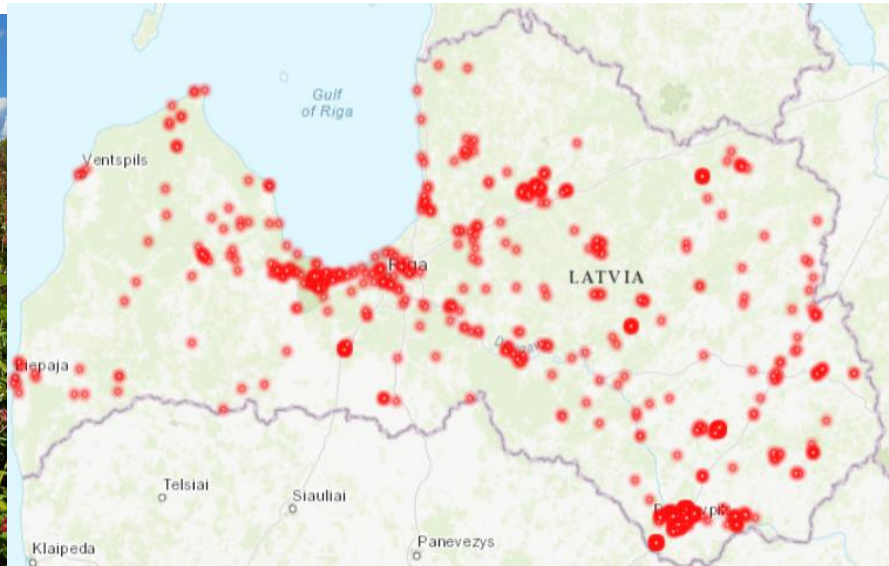
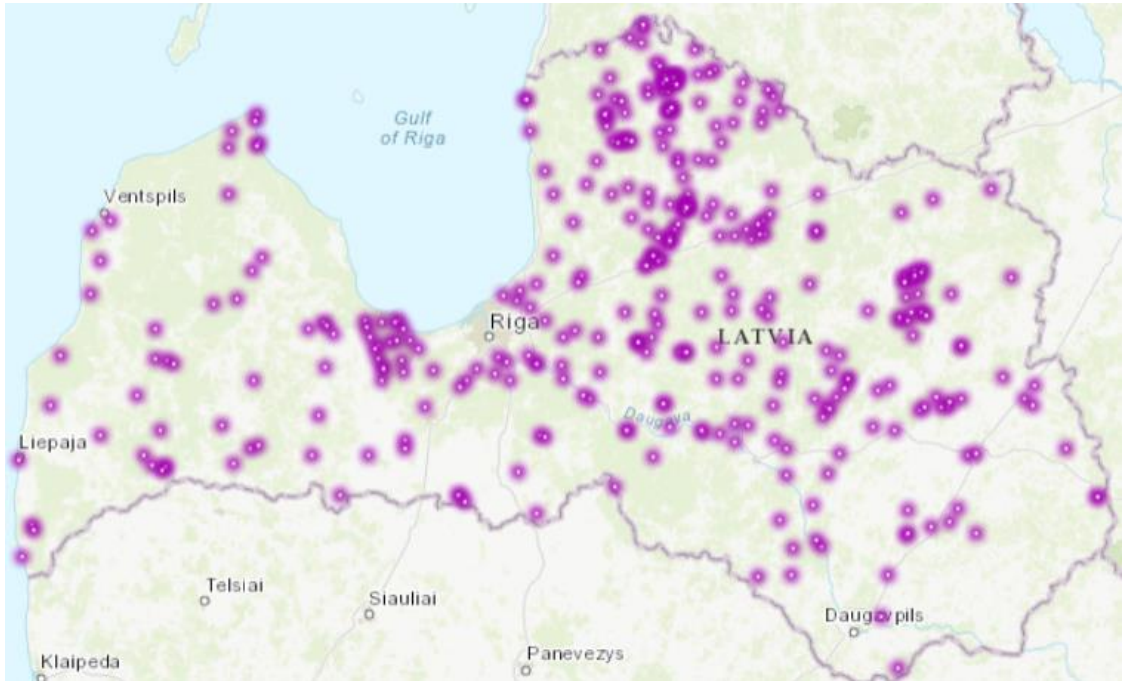
Hogweed *Heracleum sosnowskyi*



Himalayan balsam *Impatiens glandulifera*





Raccoon dog *Nyctereutes procyonoides*

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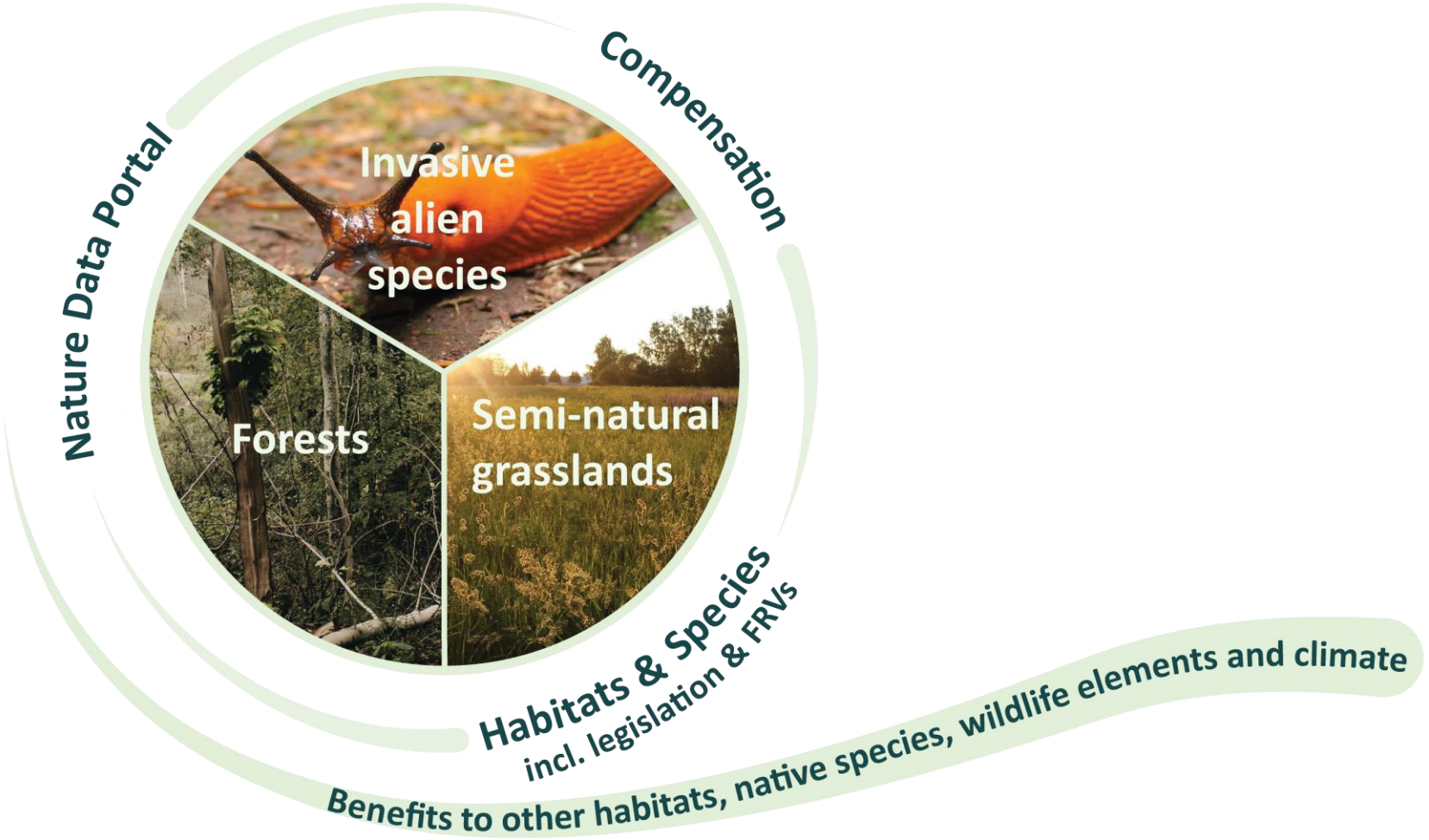
The two 3s

3 FOCUS GROUPS
3 THEMATIC BLOCKS



4 Action Blocks

Development of regulatory framework

New methods of eradication

Improve the information gathering

Raising public awareness

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Valsts reģionālās attīstības aģentūra

Action C.5.1. Adjusting national biodiversity monitoring system to detect invasive alien species

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Monitoring

- Context – before the project monitoring programme developed only on IAS plants, but it has never been implemented to the full extent
- In the project 16 sub-programmes of the national biodiversity monitoring programme evaluated and for 12 of them recomendations developed on how to incorperate monitoring of IAS
- Steps of Early detection and rapid eradication system also incorperated
- *IAS Manager* as tool for citezen science and monitoring

IAS Manager

Tool available in the website and ArcGIS Survey123 smartphone App

Aim

- to educate and create public awareness about IAS
- involve the public in reporting IAS locations
- collect IAS distribution data
- provide an opportunity to easily and quickly obtain and use the collected IAS data

http://bit.ly/invazivs

IAS Manager

Baltā robīnija

Izpētīt

Ošlapu kļava

Izpētīt

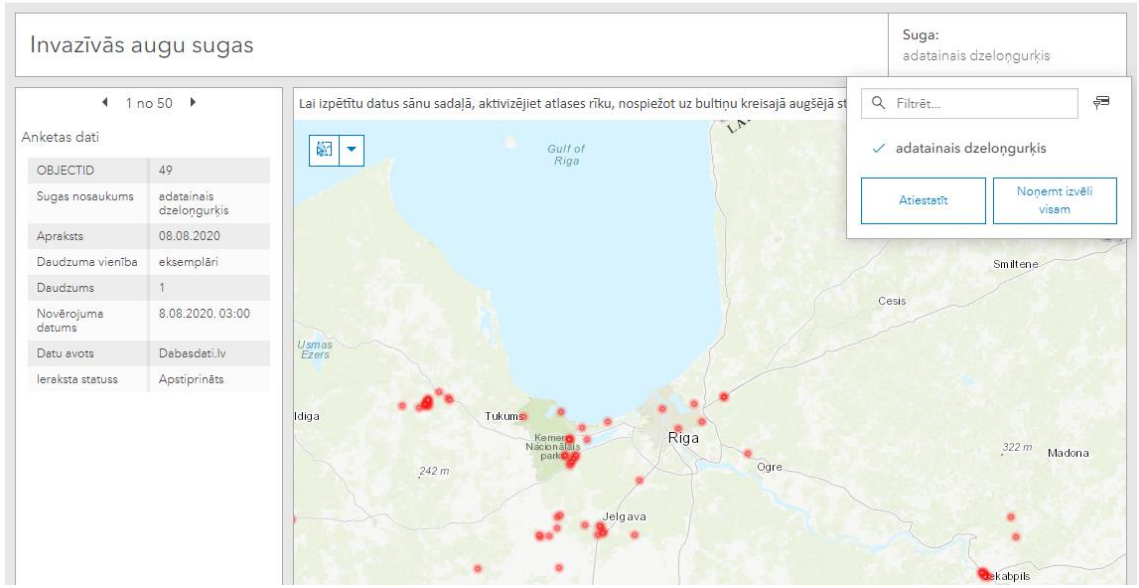
Adatainais dzeloņgurķis

Izpētīt

Austrumu dižpērkone

Izpētīt

Sugas novērojumi kartē



Jā

Nē

Invazīvās augu sugas

Sugas nosaukums*

-Lūdzu, izvēlieties-

Apraksts

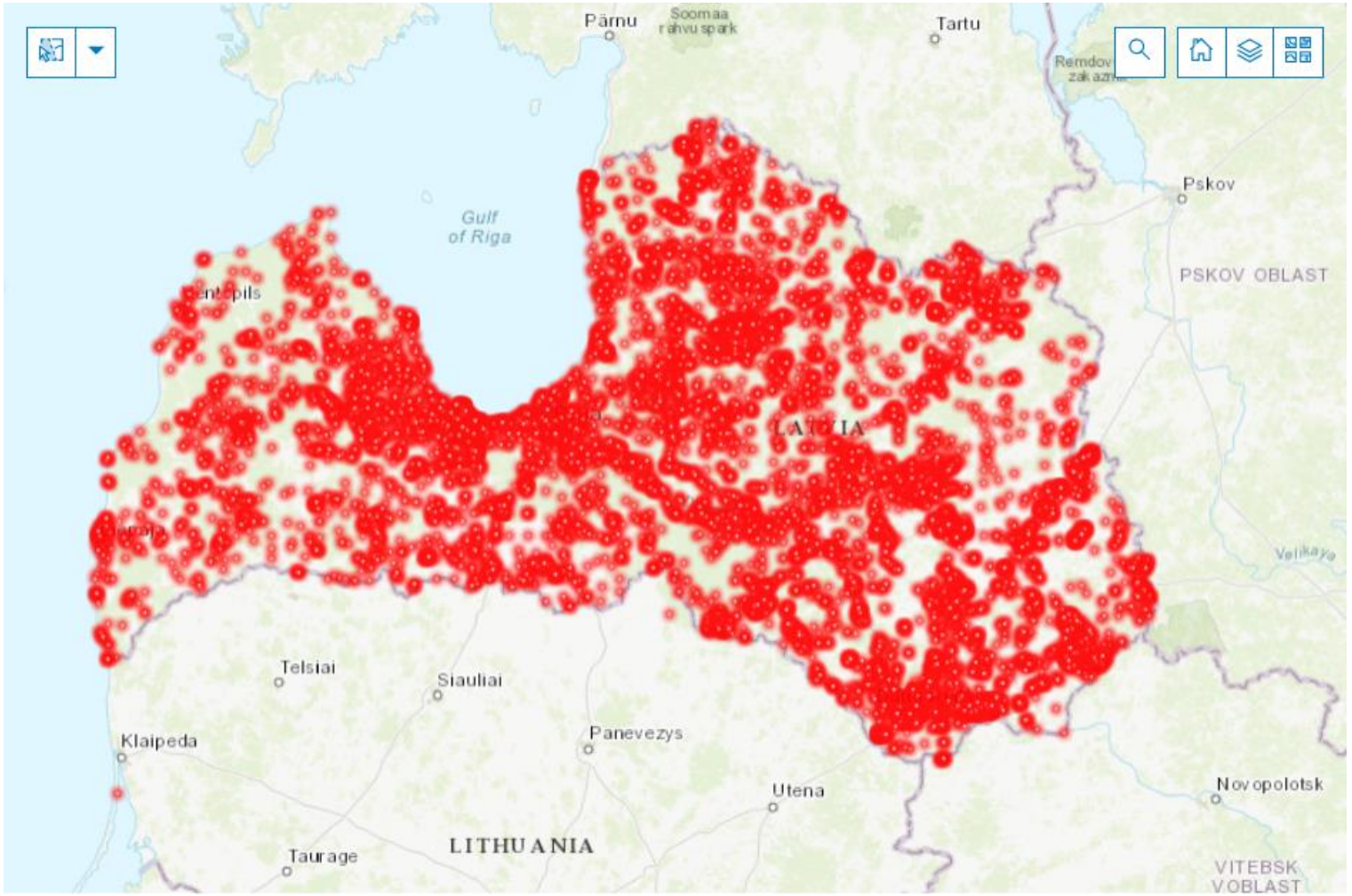
Īss atradnes raksturojums, piezīmes.

1500

Daudzuma vienība*

eksemplāri — kvadrātmetri — Cits

Reports on IAS locations
the website «IAS Manager"
since 06.05.2021.



6146 Reports (on 21.09.23.)

- Plant species – 4900
  - Heracleum sosnowskyi (2308)
  - Solidago canadensis (538)
  - Lupinus polyphyllus (262)

- Animal species – 1246
  - Arion vulgaris (409)
  - Neovison vison (291)
  - Nyctereutes procyonoides (117)

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Action C.5.2. Guidelines for inclusion of species into the list of invasive alien species in Latvia

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National list - context

- In the national list only one species - hogweed *Heracleum sosnowskyi.*
- Indirectly the IAS animals species are tackled in the Hunting regulation - "*species not characteristic of Latvian fauna or invasive species - Mustela vison, Nyctereutes precyonides, Dama dama, Ovis orientalis, Cervus nippon, Procyon lotor, Myocastor coypus Molina, Marmota bobak* - are allowed to be hunted all year round"

Guidelines for the national list of IAS

- Guidelines for the development of national list of IAS developed, including risk assesment
- After the evaluation from 74 plant species and 84 animal species - 62 plant species and 33 animal species are considered invasive in Latvia
- Working group established (all involved state institutions)
- Work on the legislation part - ongoing

Acer negundo
Acer pseudoplatanus
Allium paradoxum
Amelanchier spicata
Aronia prunifolia
Asclepias syriaca
Aster salignus
Bidens frondosa
Bunias orientalis
Campylopus introflexus
Caragana arborescens
Celastrus orbiculatus
Corispermum pallasii
Cotoneaster lucidus
Echinocystis lobata
Elaeagnus argentea
Elodea canadensis
Elodea nuttallii
Epilobium adenocaulon
Galega orientalis
Gypsophila paniculata
Helianthus tuberosus
Heracleum mantegazzianum
Heracleum persicum
Heracleum sosnowskyi
Hippophae rhamnoides
Impatiens glandulifera
Impatiens parviflora
Lactuca tatarica
Ligustrum vulgare
Lonicera caprifolium
Lupinus polyphyllus
Malus domestica
Parthenocisus quinquefolia
Petasites hybridus
Populus alba
Populus longifolia
Prunus cerasifera
Quercus rubra
Reynoutria japonica
Reynoutria sachalinensis
Robinia pseudoacacia
Rosa pimpinelifolia
Rosa rugosa
Rudbeckia hirta
Rumex confertus
Salix daphnoides
Sambucus nigra
Sambucus racemosa
Solidago canadensis
Solidago gigantea
Sorbaria sorbifolia
Spiraea alba
Spiraea chamaedryfolia
Spiraea latifolia
Spiraea x billardii
Spiraea x rosalba
Swida alba
Swida sericea
Symphoricarpos albus
Telekia speciosa
Veronica filiformis
Koenigia polystachya

Agrilus planipennis
Aprocerus leucopoda
Arion vulgaris
Astacus leptodactylus
Branta canadensis
Castor canadensis
Cervus nippon
Dama dama
Dikerogammarus villosus
Eriocheir sinensis
Dreissena polymorpha
Faxonius limosus
Harmonia axyridis
Krynickillus melanocephalus
Leptoglossus occidentalis
Nyctereutes procyonoides
Ondatra zibethicus
Neovison vison
Obesogammarus crassus
Pacifastacus leniusculus
Perccottus glenii
Oryctolagus cuniculus
Procambarus clarkii
Procambarus virginalis
Procyon lotor
Paramysis lacustris
Pseudorasbora parva
Pelodiscus sinensis
Pontogammarus robustoides
Potamopyrgus antipodarum
Tamias sibiricus
Trachemys scripta
Trichoferus campestris

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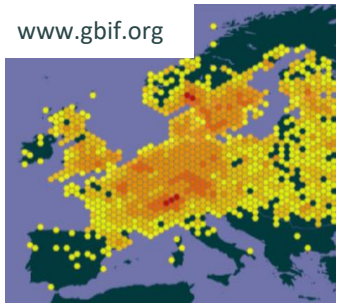
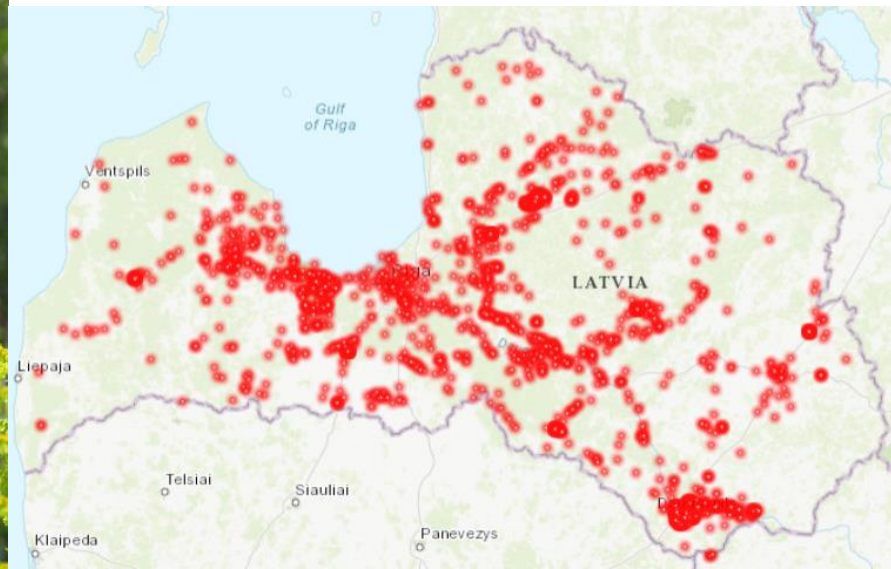
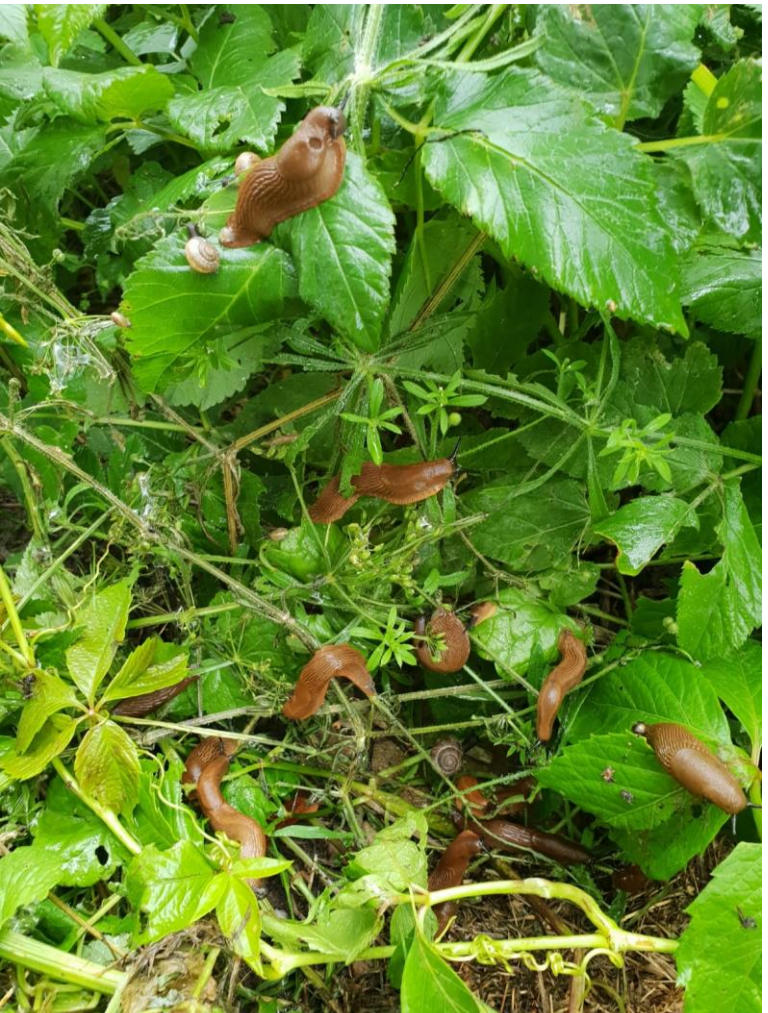
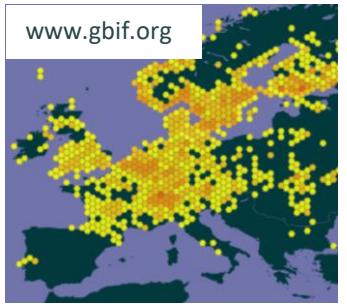
www.gbif.org



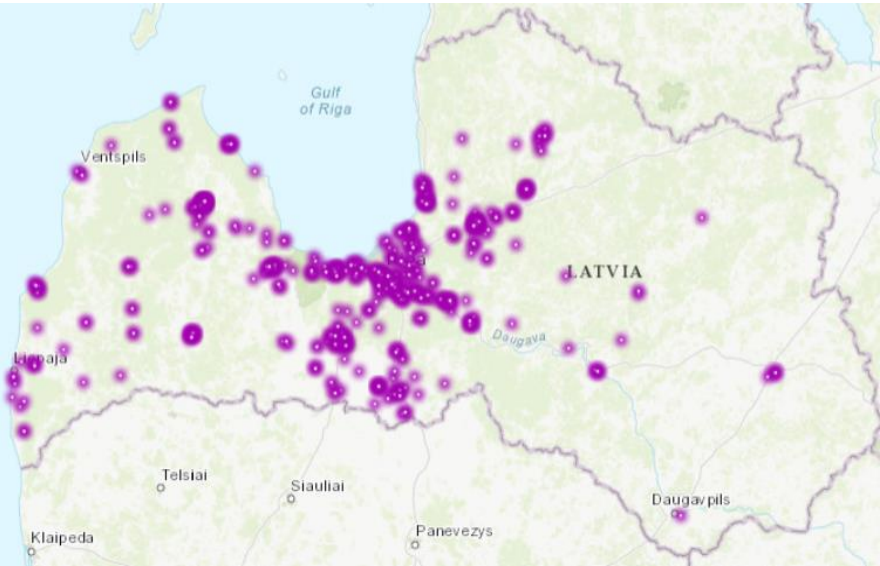
Solidago canadensis







Arion vulgaris



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Valsts reģionālās attīstības aģentūra

Action C.5.3. Development of early detection and rapid eradication systems for invasive alien species

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System for early detection and rapid eradication

- Working group established (all involved state institutions and municapilities)
- Scheme (authorities, responsibilities, informing) for early detection and rapid eradication developed
- *IAS Manager* as part of the system
- Work on the legislation part - ongoing

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Valsts reģionālās attīstības aģentūra

Action C.5.4. Development of guidelines for management plans for invasive alien species

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System for early detection and rapid eradication

- Guidelines for development of management plans developed
- Management plan includes – description of species, necessary actions (including responsibilities, budget, timetable, description of known eradication and control methods)
- Development of management plans for 2 pilot species – ongoing.
- Information about eradication methods included in the *IAS Manager* - ongoing
- Work on the legislation part – ongoing.

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Valsts reģionālās attīstības aģentūra

Action A.6.1: Survey on invasive alien species

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The survey

Target auditory (respondents)

- Private landowners and managers

The aim – to learn about

- the general knowledge about and attitude towards IAS
- the motivating or preventing factors (for involvement in management actions)
- the previous experience regarding eradication of IAS (new methods)

The format

- Section for each aim and respondent profile, around 20 min for compliting
- Both online and in-persons surveys in seminars for the target auditory

Results

- 503 forms (359 usable for analysis)
- Respondents evaluated their knowledge about IAS as insuficient, but meanwhile rather large portion of them see IAS as significant problem (*level of education impacts the results*)
- 52% of the respondents had surveyed their properties to find out the occurrence of IAS
- The main reasons that hinder the eradication of invasive plants - the lack of time (62%), funding or suitable equipment (61%), action in the neighboring teritoreis (58%) and information (52%)
- Posible motivational mechanisms - good practice from other land managers (82%), co-financing (82%), real estate tax reliefs during the implementation of eradication measures (80%) and specialist consultations (80%), practical information materials (74%).
- Almost half of respondents idicated that the eradication of IAS was primarily the responsibility of landowners (including state and local governments)
- 49% indicated that the information about invasive plant species was insufficient


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Invazīvo sugu pārvaldnieks
Puķu sprigane
(Impatiens glandulifera Royle)
latvianature.lv


ĶERAM SVEŠOS!
Arion vulgaris
(Spānijas kailgliemezis)
ātri vairojas
pārnēsā slimības un parazītus
bojā kultūraugus
iznīcina augus un dzīvniekus
Ja redzi, ziņo – invazivs.lv
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Filma "Invazīvo sugu detektīvi"
INVAZĪVO SUGU DETEKTĪVI
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NATURA 2000
Valsts reģionālās attīstības aģentūra
0:06 / 22:27
YouTube


SADARBĪBAS PROJEKTS
Pie durvīm svešinieks. Kā reaģēt?


DABAS KLASE
LATVIANATURE
NATURA 2000
Life


#StandWithUkraine
900"
SĀKAS KAMPAŅA INVAZĪVO SUGU APKAROŠANAI
07:44
SAEIMA KONCEPTUĀLI ATBALSTA LIKUMA GROZĪJUMUS ALKOHOLA PATĒRIŅA SAMAZINĀŠANAI
+8°

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Actions C.6.2 testing of new methods for eradication of IAS D.1.4. monitoring of the results

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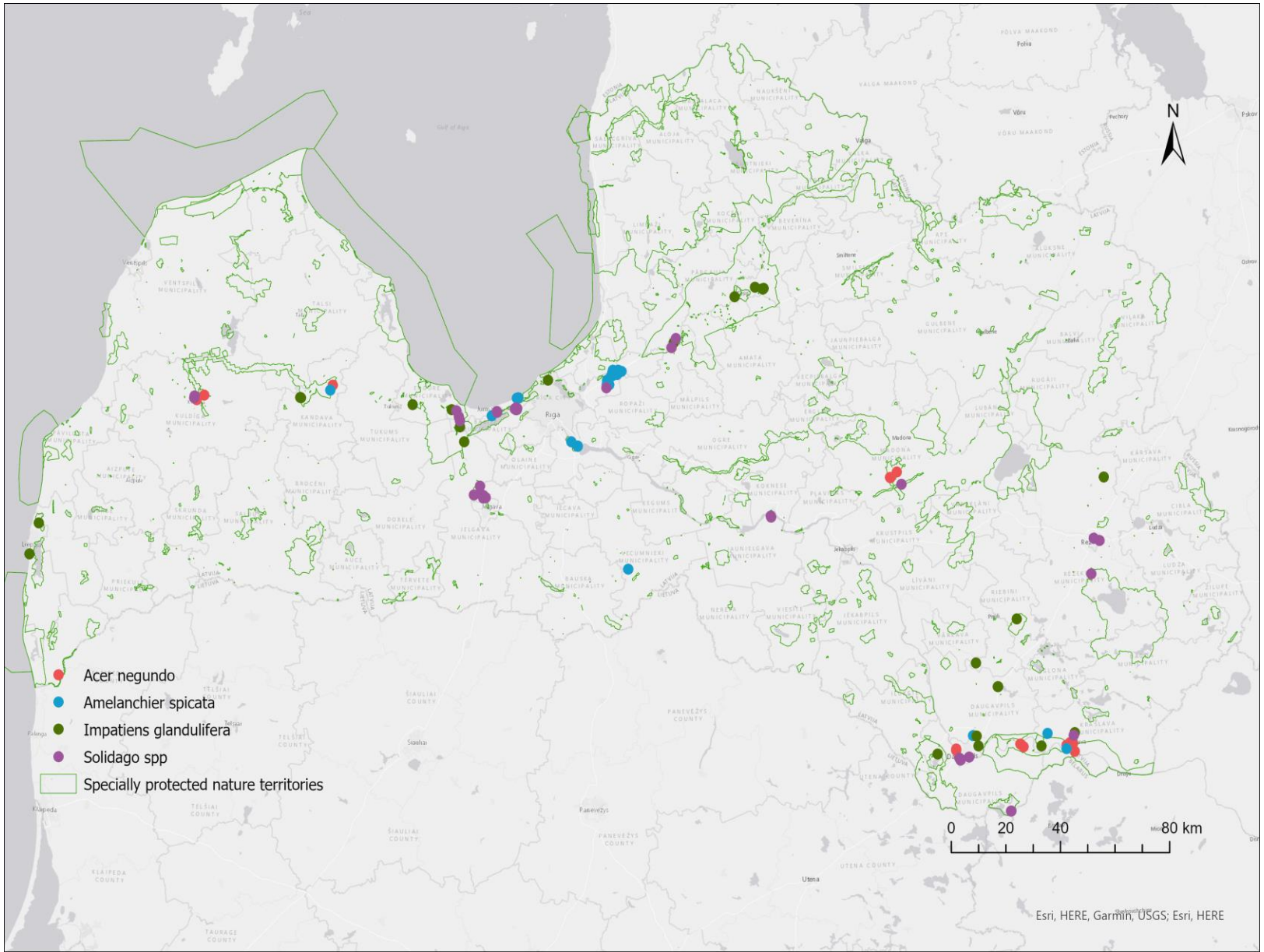
Preparatory works



- The first step – criteria for selection of pilotsites
- Initially 64 sites selected for further analysis (including field visits)
- Simultaneously – work on selection of methods
- Permits and expert opinions
- Procurements

13 pilotsites ~ 100 ha

State, municipal and private land

Datu avoti: DDPS OZOLS, Invazīvo sugu pārvaldnieks, VZD

Boxelder maple
(Acer negundo)

Dwarf serviceberry
(Amelanchier spicata)

Himalayan balsam
(Impatiens glandulifera)

Japanese rose
(Rosa rugosa)

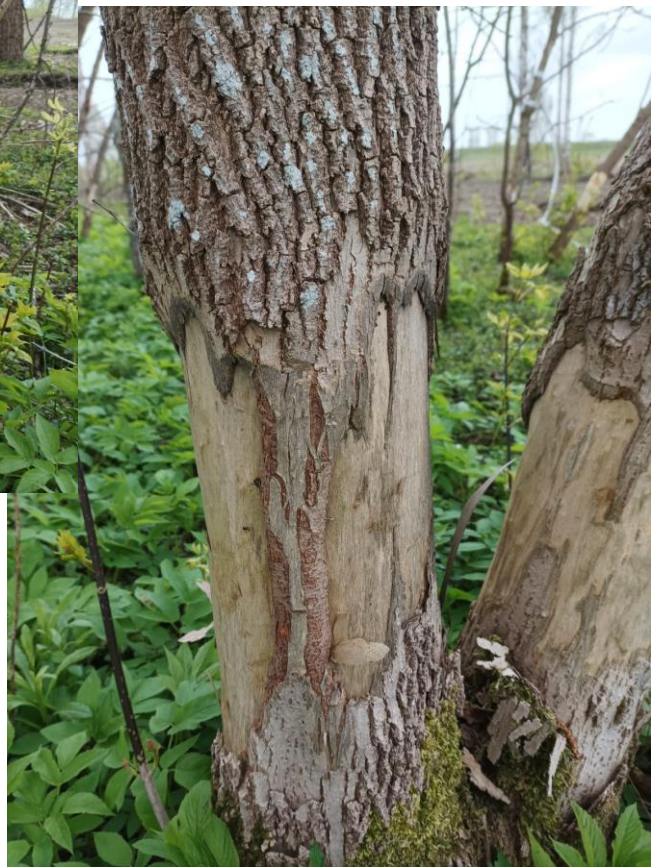
Canadian goldenrod
(Solidago canadensis)

Canadian goldenrod *(Solidago canadensis)*

- Testing carried out in 4 locations, total area – 22,76 ha;
- Methods:
  - Frequent mowing – 2 times per season;
  - Root milling;
  - Seeding of competitor species;
  - Covering stands with plant mulch;
  - Pulling out plants with hands.

Boxelder maple *(Acer negundo)*

- Testing carried out in 2 locations, total area – 22,62 ha;
- Methods:
  - Cutting and root milling;
  - Trunk ringing;
  - Applying stumps with chemical plant protection agents;



Himalayan balsam *(Impatiens glandulifera)*

- Testing carried out in 6 locations, total area – 23,75 ha;
- Methods:
  - Treatment with hot water/steam;
  - Grazing with ponies;
  - Pulling out plants with hands.

Dwarf serviceberry *(Amelanchier spicata)*

- Testing carried out in one location, toal area – 32,68 ha;
- Methods:
  - Pulling out shrubs using small tractor;
  - Pulling out shrubs with hands or hand tools;
  - Frequent cutting – multiple times per season;
  - Applying stumps with chemical plant protection agents.

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State Regional Development Agency Republic of Latvia

Thank You

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Communication and nature education action coordinator
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Nature Conservation Agency Republic of Latvia

Ministry of Environmental Protection and Regional Development Republic of Latvia

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