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CONVENTION ALPINE
ALPSKA KONVENCIJA
CONVENZIONE DELLE ALPI



REPUBLIKA SLOVENIJA
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Interreg
Alpine Space
Links4Soils

11. Dan Alpske konvencije in Svetovni dan tal
4. – 5. december 2020
Slovenski planinski muzej Mojstrana

Ohranimo živa tla, ohranimo biotsko pestrost tal

Platforma za tla Alp in uporaba spletnega orodja *Ocena za tla*

Jurka Lesjak
Kmetijski inštitut Slovenije

Na kratko o spletni Platformi projekta Links4Soils

Angleška različica



The Alpine Soils Platform

ABOUT SOILS * BEST PRACTICES * COLLECT * ASK & DISCUSS * ALPSP * EVENTS *

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APRIL 2020 LINK4SOILS BEST SOIL MANAGEMENT PRACTICES IN THE ALPS

APRIL 2020 LINK4SOILS EARTHWORKS BOOKLET AND IDENTIFICATION SHEETS

2020 LINK4SOILS ALPINE SOIL CALENDAR PHOTOS

The Alpine Soils Platform

The soil web platform serves as an information hub for users that seek information about the soils in the Alpine space. The platform shares knowledge about soils and the Links4Soils project results, such as applicable soil thematic maps, case studies reports, consultancy service with FAO, sectoral best-case practices for management and protection of Alpine soils etc., which will be gradually added to the Platform.

The Links4Soils project encourages stakeholders from different sectors like forestry, agriculture, nature conservation, natural disaster protection and spatial planning, to benefit from transborder knowledge on Alpine soils, in order to integrate it into local and regional management and planning.

Our aim is also to promote the Alpine Soil Partnership, as we strongly believe that only together we can manage soils better and set foundations for sustainable development in all sectors.

We would like to encourage you to send us information about soil management-best practice in your region, to share the knowledge and to set an example for soil conservation and soil protection in the Alps!

Spletno mesto:

- kjer lahko najdemo veliko splošnih informacij o tleh,
- informacije o rezultatih projekta,
- je možno povprašati za nasvet,
- se lahko včlanimo v Alpsko partnerstvo

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SOIL ECOSYSTEM SERVICES IN THE ALPS

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LINKS4SOILS BEST SOIL MANAGEMENT PRACTICES IN THE ALPS

EARTHWORMS

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Caring for Soils - Where Our Roots Grow

"In the end we will conserve only what we love, we will love only what we understand and we will understand only what we are taught."

— Baba Dicu, Serengeti environment protection expert on the occasion of the UN Conference on Environment and Development in Rio de Janeiro, 1992.

"A nation that destroys its soils destroys itself."

— Franklin D. Roosevelt

"To forget how to dig the earth and to tend the soil is to forget ourselves."

— Mohammed K. Gaafar

LINKS4SOILS Why talking about soil

Videi o tleh, dostopni na YouTube kanalu, FB in Vimeo kanalu.

LINKS4SOILS Why talking about soil

WHY TALKING ABOUT S

Playback speed Normal ▾

Subtitles/CC (?) Slovenian ▾

Quality Auto 480p ▾

YouTube

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Informacije o tleh:

- **O funkcijah tal**

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Soil Protection Partnerships Alpine organisations Soil Awareness

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The Alpine Soils

- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary
- Soil Etiquette
- Soil Info

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APRIL 2020 LINKS4SOILS BEST SOIL MANAGEMENT PRACTICES IN THE ALPS

APRIL 2020 LINKS4SOILS EARTHWORMS BOOKLET AND IDENTIFICATION SHEETS

2020 LINKS4SOILS ALPINE SOIL CALENDAR PHOTOS

The Alpine Soils Platform

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- The Alpine Soils
- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary
- Soil Etiquette
- Soil Info

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EARTHWORKS

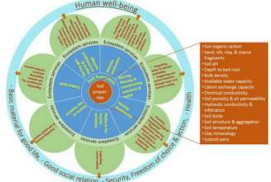
Soil Ecosystem Services

Ecosystem services are the benefits people obtain from the ecosystem (MEA 2005). As an integral part of the terrestrial ecosystem, soils play a crucial role in the provision of a myriad of so-called **soil ecosystem services**:



Soil function. Source: FAO 2018

A conceptual diagram was developed by Adhikari and Hartemink (2016), which relates individual soil properties to soil ecosystem services.



Source: Adhikari and Hartemink (2016)

Soil ecosystem services are vital components to all aspects of life and they support the production of ecosystem goods and services, such as:

- Food, fibre, and energy provision
- Water storage and purification
- Neutralization, filtering and buffering of pollutants
- Natural hazard regulation

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ABOUT SOILS ▾ **BEST PRACTICES** ▾ **SOILCHECK**

- The Alpine Soils
- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary
- Soil Etiquette
- Soil Info

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SOIL ECOSYSTEM SERVICES IN BRIEF

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EARTHWORKS

Description of SES Logos

Please read more about soil ecosystem services here, and download the larger version here.

- Agricultural biomass production**
The different horizons and the soil profile indicate the properties of fertile soil suitable for growing a variety of crops for food: the diversity and quality of food are indicated by the grain and apple.
- Forest biomass production**
The logs link soil properties, aboveground forest biodiversity, and forest production + timber needed for construction, various forestry products (e.g. furniture), as well as firewood for green energy.
- Water retention**
The drop of water lying in the middle of the soil horizons indicates the ability of soils to capture, store, and gradually release water for plants and soil biota as well as for evaporation from the soil surface.
- Nutrient cycle regulation**
Macro and micro plant nutrients (N, P, K, Ca, Mg, and many others) are present in soil due to the microbial fixation of nitrogen, weathering and transformation of primary minerals. Without soil's capacity to retain, exchange, and cycle nutrients in situ, soil fertility would decrease and be significantly reduced. Nutrient regulation and cycling ensures long-term soil fertility and, thereby, the vegetation cover, consisting of wild or cultivated plants.

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ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK

- The Alpine Soils
- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary
- Soil Etiquette
- Soil Info

ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK ASK & DISCUSS ▾ ALPSP ▾ EVENTS ▾

Soil Biodiversity – Links4Soils Earthworms booklet

Soil biodiversity reflects the variability among living organisms including a myriad of organisms not visible with the naked eye, such as **micro-organisms** and **mesofauna**, as well as the more familiar **macro-fauna**.

Soil biota contributes to the provision of **ecosystem services** in several ways. Two examples are the ability of micro-organisms to decompose pollutants and the increase of infiltration capacity by the presence of **earthworm channels**.

In the Links4Soils project, we recognise the importance of earthworms an important part of a complex, fragile network of living organisms which work in close interdependence with one another (bacteria, fungi, arthropods, earthworms). Furthermore, earthworms are The real conductors of this underground symphony.

This Links4Soils booklet aims to offer a closer look at the unique position occupied by these animals in the ecosystems on which we depend for our survival. We focused on mountain soils, long neglected due to the climatic and geographical constraints limiting their fertility. Special attention is also given to forest ecosystems.

Join us to discover the unique, little-known role of earthworms in our forests despite the considerable constraints imposed by gravity and the weather confronting them in the mountains.

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ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK

- The Alpine Soils
- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary
- Soil Etiquette
- Soil Info

ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK ASK & DISCUSS ▾ ALPSP ▾ EVENTS ▾

Soil Classification

Soil classification deals with the systematic categorisation of soils based on distinguishing **soil characteristics** as well as criteria that dictate choices in land use.

Most commonly used is a supra-national classification, also called **World Soil Classification**, developed by the **FAO**. It offers useful generalisations about soils pedogenesis concerning the interactions with the main soil-forming factors. It was first published in the form of the **UNESCO Soil Map of the World (1974)**. Many of the names offered in that classification are known in many countries and do have similar meanings.

European Soil Types, European Commission – Joint Research Centre – Institute for Environment and Sustainability

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ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK ▾ ASK & DISCUSS ▾ ALPSP ▾ EVENTS ▾

- The Alpine Soils
- Soil Functions
- Soil Threats
- Soil Classification
- Soil Glossary**
- Soil Etiquette
- Soil Info

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- + Soil biomass
- + Soil, dirt, fine earth
- Soil degradation
 - Soil degradation is defined as a change in the soil health status resulting in a diminished capacity of the ecosystem to provide goods and services for its beneficiaries, an irreversible process, often caused by human or his activity.
 - IT: Degradazione del suolo**
Danneggiamento del suolo ad opera di processi di degrado (definiti anche minacce) quali: erosione, diminuzione di materia organica, contaminazione locale e diffusa, impermeabilizzazione, compattazione, diminuzione della biodiversità, salinizzazione, frane e desertificazione.
 - SI: Degradacija**
Degradacija tal je degenerativen, nepovraten proces, ki ga pogosto povzroči človek ali njegove dejavnosti.
 - DE: Boden Degradation**
Veränderung des Bodenzustands, der zu einer Abnahme oder gar dem Verlust der Bodenfruchtbarkeit sowie anderer Ökosystemdienstleistungen führt, oft durch unsachgemäße Nutzung durch den Menschen verursacht.
 - FR: Dégradation du sol**
La dégradation des sols est définie comme un changement dans l'état de santé du sol entraînant une diminution de la capacité de l'écosystème à fournir des biens et services à ses bénéficiaires, un processus irréversible, souvent causé par l'homme ou son activité.
- + Soil depth
- + Soil desertification
- + Soil ecosystem services

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ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK ▾ ASK & DISCUSS ▾ ALPSP ▾ EVENTS ▾

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Soil Etiquette






Soil is essential for life on Earth, essential for plant growth and serves as a home for myriad organisms. Soil perform key ecosystem services that enable human well-being, ecosystem functioning and contribute to the biodiversity. Soil is essential for food and wood production, water storage and filtration, nutrient storage and regulation, surface runoff regulation, and many more.

Protecting soil is a fundamental priority for all. Many initiatives worldwide are encouraging soil conservation practices that protect the loss of this vital legacy.

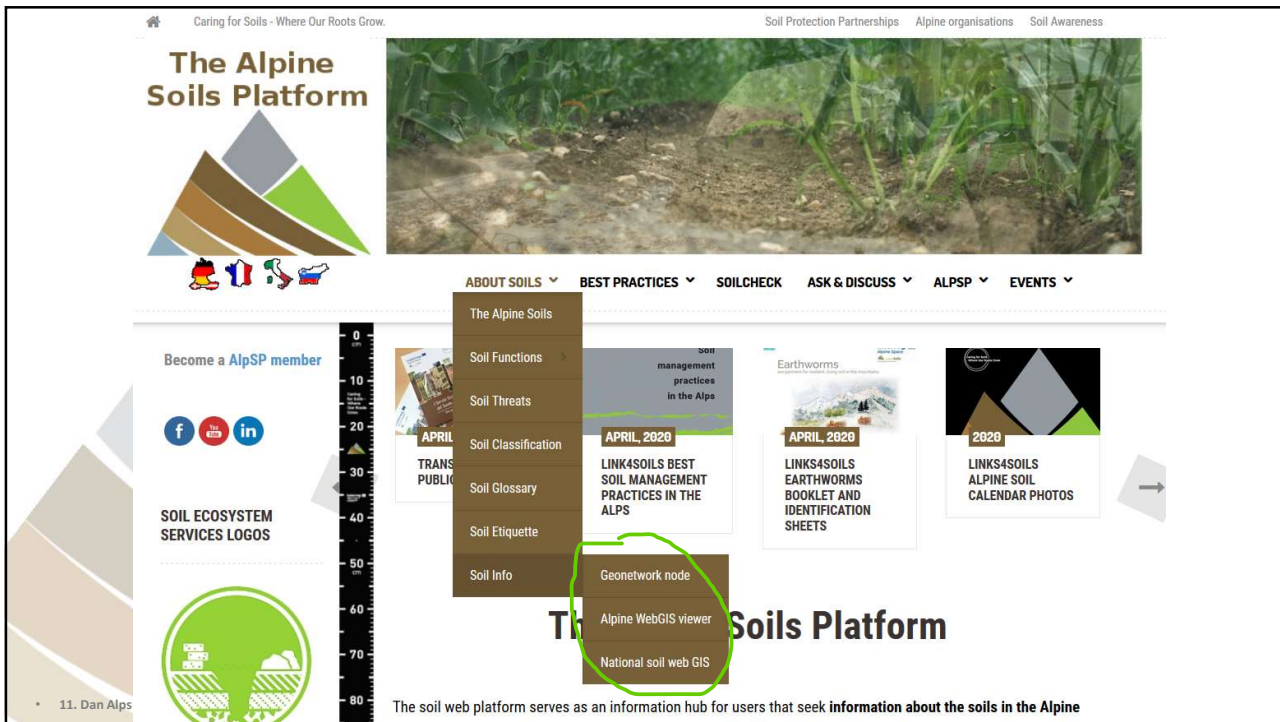
Our contribution to soil protection, in the Links4Soils project, is a leaflet with guidelines - dedicated to all "users" in order to raise awareness on soil protection in our every day.

Soils are relevant in many different sectors of decision-making and governing: Agriculture, Forestry, Natural hazard management, Nature protection and biodiversity, Tourism, Spatial planning and urban environment.

Links4Soils collected, developed and visualised guidelines for sustainable soil management.

Click on the icon:     

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Geonetwork node

Links4Soils geonetwork node is a common entry point of the spatial data infrastructure related to soil for Alpine region and was established in the project Links4Soils. It provides powerful metadata editing and search functions. It enables access to data sets and network services established for spatial data sets, as well as other services and information related with spatial data infrastructure.

The catalogue aims to improve the accessibility of the soil data. The public can access soil related information in one place via an online access point using modern and standard e-services. The main emphasis of the Links4Soils Geonetwork node is the inventory and collection of soil databases and access to them through various browsers and web servers.

For entering the Links4Soils Geonetwork node click [HERE](#).

If you need help, the video below contains some short instructions on how to use the Links4Soils Geonetwork Node.



The Alpine WebGIS viewer

The Alpine Soil Web GIS system gives access to freely available regional, national and trans-border Alpine soil data collected/registered within the Links4Soils project, built on Open Layers libraries. The viewer therefore does not contain the data itself, but their spatial extents. It is meant to be used in combination with Link4Soils Geonetwork node. The Links4Soils spatial metadata viewer is built on Open Layers libraries.

To access the viewer click [HERE](#).

If you need help, the [video](#) below contains some short instructions on how to use the Links4Soils GIS viewer.






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Geonetwork node

Alpine WebGIS viewer

National soil web GIS



National soil web GIS viewers


Austria	Austrian Digital Soil Map – eBOD and Austrian Soil Information System – BORIS	
France	French Web GIS – GISSOIL	
Germany (Bavaria)	Environmental Atlas Bavaria	
Italy	Italian Soil Information System – SISI	
Slovenia	Slovenian Digital Soil Map – eTLA and eSOIL	

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ABOUT SOILS
BEST PRACTICES
SOILCHECK
ASK & DISCUSS
ALPSP
EVENTS

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Forestry

Agriculture

Natural Hazards

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TRANSLATED PUBLICATIONS

APRIL, 2020

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The Alpine Soils Platform

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Best soil management practices

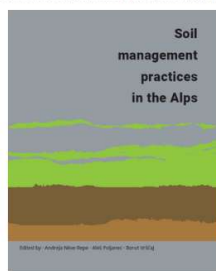
Best practices of soil management in the Alpine region.

Identified are role model soil management practices, demonstrating the potential for sustainable development, environment protection and positive social influence. Best practice influence depends on regional circumstances, such as natural environment, political situation, funding schemes or public opinion.

Sustainable management and the protection of Alpine soil enhance the quality of the Alpine environment and considerably contribute to the provision of soil ecosystem services and the resilience of ecosystems; this, in turn, helps to preserve biodiversity and ensure the well-being of humans. The Soil Conservation Protocol of the Alpine Convention, an international treaty, aims "[to] safeguard the multifunctional role of soil based on the concept of sustainable development."

In a modest way, this booklet presents seventeen soil management practices in Alpine countries: (i.e. Austria, Italy, France, Germany, Switzerland, and Slovenia). It reflects the diversity of soil and environmental management approaches used in the area, and the existing sustainable soil and nature protection management in different sectors and industries, mainly in agriculture, forestry, sports, and tourism.

We, the Link4Soils project partners, believe that a greater number of better, diverse, holistic and inspiring soil management and protection case studies are practised or developed in the diversity of Alpine countries.



You can check some of our best practices also in Slovenian, Italian and German language.

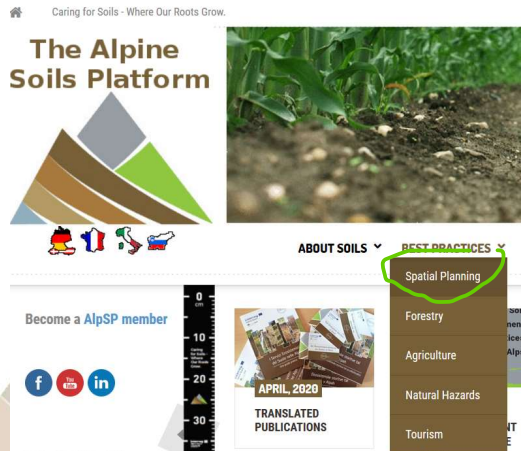
- Slovenia Forest Service – Zavod za gozdarstvo Slovenije: Integrating soil protection in forest management planning, Pokljuka, Slovenia / Vključevanja varstva tal v načrtovanje gospodarjenja z gozdovi, Pokljuka, Slovenija
- Agricultural Institute of Slovenia – Kmetijski inštitut Slovenije: Management practices on ski slopes Vojevi and

CS1. Soil research towards a sustainable mountain vineyard management – limiting soil erosion on steep slopes and preserving cultural heritage, Valle d'Aosta, Italy

CS2. Evaluation of Soil Functions in Austria – a way towards better protection and sustainable management of Austrian soils

CS3. Revegetation of degraded areas in the French Alps

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- Spatial Planning
- Forestry
- Agriculture
- Natural Hazards
- Tourism

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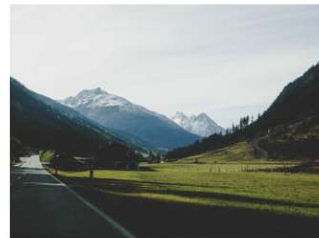
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Towards Best Soil Management Practices in the Alps

Spatial planning

Sustainable spatial planning includes evaluation of soil ecosystem services.

Case studies on integrating the Soil Ecosystem Services (SES) approach into spatial planning



Spatial planning case studies in Upper Bavaria, Germany and Tyrol Austria are integrating the SES approach and soil functions assessment into the spatial planning sector of municipalities. Planning scenarios for a sustainable land use management (avoiding land take) and soil functions assessments are developed by adapting the SES approach. Results will be transferred into practical regional/local management plans.

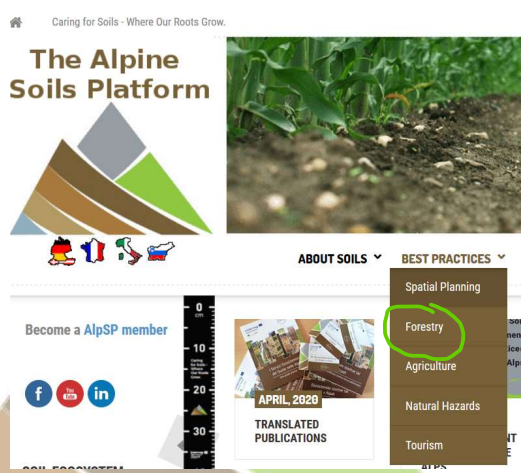
Transferring soil case study results to management plans: transnational exchange on best practice solutions

The overarching activity builds on cross-sectoral case studies results and develops best practice solutions. The best practice soil management solutions and results are transferred into local and regional management/land use plans in order to enhance soil protection measures and the capacity of involved cross-sectoral stakeholders.

We are presenting five best practices, gathered during the Link4Soils project, from Austria, Switzerland and Italy:

- Evaluation of Soil Functions in Austria – a way towards better protection and sustainable management of Austrian soils
- Soil protection on construction sites in Switzerland
- Management of vacant spaces in South Tyrol, Italy
- Austria CO2-Recycling, Climate Change Mitigation by means of Soil, Humus and Habitat Management – a Demonstration Project Report
- Database on Land Use Management in Lower Austria

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Forestry

Soil management is an inherent part of various sectors, such as forestry, agriculture, spatial planning, construction etc. To prevent soil degradation while performing sectors activities we need diverse information.

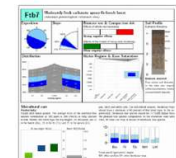
During the project, we developed many documents in order to raise awareness on sustainable management practices in the forest. We have also worked closely with our stakeholders in order to present current challenges in this sector.

Hereafter are presented maps of different information, used in different sectors. Use of specific maps helps improve management to minimize soil threats (e.g. erosion, contamination, biodiversity loss).




Integration of soil protection best practices into forest management plans

An important improvement was done in the frame of the project, with the recent addition of a Forest Type-based thematic map, showing the effects on forest soil nutrient availability of "whole-trees" harvesting measures. The traffic light system, refined and applied also in the project Case Study area of Priglaten, defines guidelines both for biomass use and compaction risk effects for each Forest Type. By explaining in detail the methodology for assigning traffic light categories in the Case Study area and specifying the respective measures to adopt in the forest, this report describes a substantial part of the management plans.



Towards Best Soil Management Practices in the Alps

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Agriculture

Sustainable Cross-sectoral Soil Management:

Case studies join mountain agriculture, tourism and water quality management sectoral approach and develop best practice for ski runs soil management. Agricultural case studies focus on soil protection activities on mountain pastures/ski areas and assess soil properties, geomorphology and natural hazards.

Our guidelines towards sustainable soil management developed within the Link4Soils project aim to provide a synthetic, useful tool for practitioners that can help them mitigate potential threats affecting mountain soils, and to promote sustainable soil management. Our reports/booklet describes the main threats to Alpine soils resulting from forest and agriculture practices and suggests selected mitigation measures.

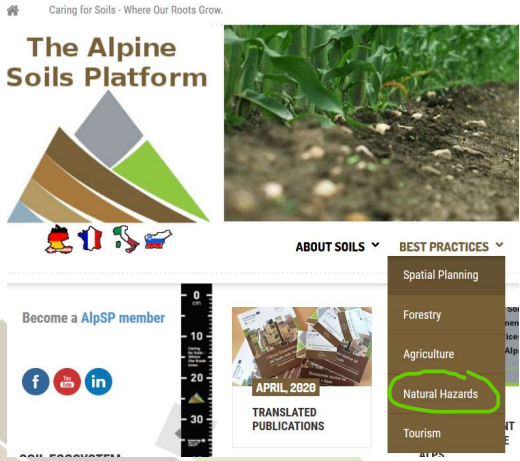


Best practice examples from the agriculture sector:

- Soil research towards a sustainable mountain vineyard management – limiting soil erosion on steep slopes and preserving cultural heritage; Valle d'Aosta, Italy
- Healthy soil for healthy food, WWF Austria

Towards Best Soil Management Practices in the Alps

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Natural hazards

Mitigating Natural Hazards by Soil Management:

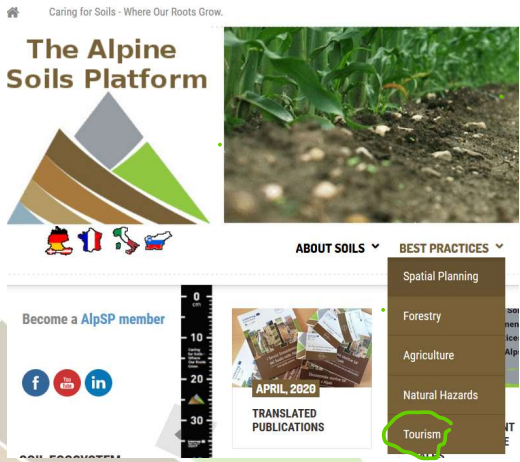
Sustainable soil management activities related to erosion protection, preventing landslides and flood risk in FR, IT, SI case study sites lead to mitigate natural hazards in the Alps. A joint case study methodology is developed within case study sites FR, IT and SI.

Based on soil data, soil degradation risks were identified, interpreted, visualised, communicated to stakeholders and used for mitigating natural hazards best practice case studies:

- Soil research towards a sustainable mountain vineyard management – limiting soil erosion on steep slopes and preserving cultural heritage; Valle d'Aosta, Italy
- Preventing hydrogeological risk in Aosta Valley Region, Italy
- Revegetation of degraded areas in the French Alps

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Tourism


Sustainable Cross-Sectoral Soil Management:

IT case studies on joining mountain agriculture, tourism, water quality (will) focus on soil protection activities on mountain pastures/ski areas and assess soil properties, geomorphology and natural hazards. Soil data are interpreted and made applicable for improved management of dual mountain sites (e.g. ski slopes). Results are transferred into management plans and discussed with e.g. ski-area managers (jobowners).

Transferring Soil Case Study Results to Management Plans: Transnational Exchange on Best Practice Solutions:

Guidelines for sustainable management practices on ski slopes are crucial, considering winter and summer tourism, which has strongly influenced and in some areas evolved the typical highland/mountainous landscape. Loss of vegetation cover, erosion and landslides are forms of ecological damage caused by winter and summer sports activities. Construction of new ski lifts, expanding ski areas and the side effects of snow grooming machines are just a few of the negative impacts that tanger with the ecology of wilderness areas in the long run.

These guidelines collect the current state of knowledge about the soil good management practices applied in ski areas. The aim is to provide a useful and practical tool that may allow sustainable soil management, favouring the mitigation of impacts caused by the construction and management of ski runs and related facilities.

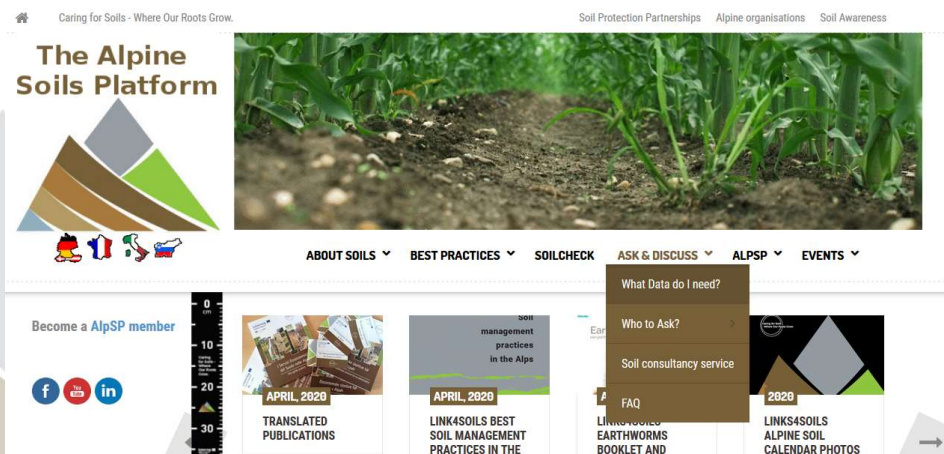


Examples from our best practices, elaborated together with our stakeholders in order to raise awareness on challenges in the Alpine tourism sector:

- Soil education trails in Austria
- Revegetation of degraded areas in the French Alps
- Research for sustainable ski-run soil management; Valle d'Aosta, Italy
- Environmental management of the Skiflitz Lech
- Management practices on ski slopes Vogel and Kranjska Gora (Slovenia)
- Managing ski areas: an example from Austria (Schmitter)

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- Kako dobiti prave informacije o tleh
- Teme, ki nas zanimajo



* 11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020. Slovenski planinski muzej Mojstrana Ohranimo živa tla, ohranimo biotsko pestrost tal

- Prostorsko načrtovanje in trajnostno upravljanje tal zahtevata dobre informacije o tleh in okolju. Odgovor na vprašanje za končnega uporabnika, na primer »Katere podatke potrebujem?« je odvisno od sektorskih potreb, pristopov, praks, ekosistemskih storitev in vrste podatkov, ki jih potrebujete za oceno mesta / lokacije.
- Povezavo do ustreznih in razpoložljivih virov podatkov o tleh, ki vas zanimajo, lahko preverite preko orodja Geonetwork, lahko pa uporabite tudi interaktivno orodje in vključite vse "parametre lokacije" in ekosistemske storitve, da dobite pregled lokacije.

What type of data do I need?

Linking Soil Ecosystem Services to Soil Data

Spatial planning and sustainable soil management require good soil and environmental information. The answer to the end-user question such as "What data do I need?" depends on the sectoral needs, approaches, practices, ecosystem services and the type of data you need in order to evaluate a site/location. You can check the links to suitable and available soil data sources of your interest here, but you can also use an interactive tool (check below) in order to include all "site parameters" and ecosystem services to get an overview of the location.

During the Link4Soils project, we have developed two interactive tools for the selection of relevant soil data and information on sustainable soil management according to the sector and ecosystem services. The first estimation tool can be used in the field, at a soil profile, to estimate the contribution of soils to eleven selected ecosystem services. In particular, it illustrates how key soil properties, which may alter under changing land uses and management strategies, impact on the individual ecosystem services. It is a useful tool for knowledge transfer and capacity building, as it exists soil experts in bringing the topic of soil-based ecosystem services closer to stakeholders.

The second, implemented in a spreadsheet tool offers users to identify essential soil ecosystem services that should be included in an individual sector-related sectoral sustainable soil management practices and which are important soil properties to assess as what measured soil data to provide/monitor at a location. The tool largely utilizes soil expert knowledge, however once the soil parameters are set and adapted to local conditions and natural setting, the tool can be used by decision-makers. The concept of the method is embedded in an automated spreadsheet tool, which allows users to select soil ecosystem service and instantly visualize relevant soil management practices, related soil properties and what soil data to collect.

Both methods or tools are useful for planning soil protection activities and decisions for safeguarding soil ecosystem services at the local/municipal level.

1) Soil ecosystem services estimation tool with the report

Key soil properties	Ecosystem services											
	Soil structure	Soil fertility	Soil biodiversity	Soil carbon sequestration	Soil erosion control	Soil water regulation	Soil nutrient cycling	Soil habitat provision	Soil cultural services	Soil recreation	Soil aesthetic services	Soil historical services
Soil texture	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil organic matter	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil pH	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil bulk density	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil porosity	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil water content	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil nutrient content	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil microbial biomass	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil enzyme activity	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil macrofauna	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil microfauna	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil nematodes	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil fungi	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil bacteria	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil archaea	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil protozoa	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Soil viruses	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low


2) Soil ecosystem services estimation tool with the report

Application	Soil properties	Ecosystem services	Soil data
Soil structure	Soil texture	Soil structure	Soil texture
Soil fertility	Soil organic matter	Soil fertility	Soil organic matter
Soil biodiversity	Soil microbial biomass	Soil biodiversity	Soil microbial biomass
Soil carbon sequestration	Soil organic matter	Soil carbon sequestration	Soil organic matter
Soil erosion control	Soil bulk density	Soil erosion control	Soil bulk density
Soil water regulation	Soil porosity	Soil water regulation	Soil porosity
Soil nutrient cycling	Soil nutrient content	Soil nutrient cycling	Soil nutrient content
Soil habitat provision	Soil microbial biomass	Soil habitat provision	Soil microbial biomass
Soil cultural services	Soil enzyme activity	Soil cultural services	Soil enzyme activity
Soil recreation	Soil macrofauna	Soil recreation	Soil macrofauna
Soil aesthetic services	Soil microfauna	Soil aesthetic services	Soil microfauna
Soil historical services	Soil nematodes	Soil historical services	Soil nematodes

* 11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020. Slovenski planinski muzej Mojstrana

Caring for Soils - Where Our Roots Grow. Soil Protection Partnerships Alpine organisations Soil Awareness

The Alpine Soils Platform



ABOUT SOILS ▾ BEST PRACTICES ▾ SOILCHECK ASK & DISCUSS ▾ ALPSP ▾ EVENTS ▾

What Data do I need?

Who to Ask?	Soil Institutions	Slovenia
Soil consultancy service	Soil Experts	Austria
FAQ	National Soil Science Societies	Italy
		Germany
		France

Become a AlpSP member

SOIL ECOSYSTEM SERVICES LOGOS

What type of data do I need?

Linking Soil Ecosystem Services to Soil Data

Spatial planning and sustainable soil management require good soil data. The answer to the end-user question such as "What data do I need?" depends on the sectoral needs, approaches, practices, ecosystem services and the type of data you need in order to evaluate a site/location. You can check the link to suitable and available soil data sources of your interest here, but you can also use an interactive tool (check below) in order to include all "site parameters" and ecosystem services to get an overview of the location.

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SOIL ECOSYSTEM SERVICES LOGOS

Soil Consultancy Service

Use the form below to ask specific/concrete questions to one of the Consultancy service team members. Some of the AlpSP and Links4Soils project members will answer soil related questions for our platform visitors.

Important Questions and Answers will be published in FAQ section.

Your Name (required)

Your Email (required)

Question:

Details and Background:

Sector: Forestry Agriculture Spatial planning Natural Hazards Tourism

Who do you want to ask? Tomaž Kralj - SI Gertraud Sutor - DE Borut Vrščaj - SI Clemens Gellner - AT Michele Frappaz - IT Frédéric Berger - FR Silvia Stanchi - IT

Yes, I have checked the FAQ and read the terms of service.

Ask the question

* 11. Dan Alpske konvencije in Svetovni dan tal 4. - 5. december 2020.

- Pridružite se Alpskemu Partnerstvu

The screenshot shows the homepage of the Alpine Soils Platform. The main navigation menu includes 'ABOUT SOILS', 'BEST PRACTICES', 'SOILCHECK', 'ASK & DISCUSS', 'ALPSP', and 'EVENTS'. The 'ALPSP' menu item is highlighted with a dark box containing the text 'About Alpine Soil Partnership' and 'Join the AlpSP'. The page features a header with the slogan 'Caring for Soils - Where Our Roots Grow.' and a background image of a traditional alpine house. A sidebar on the left encourages users to 'Become a AlpSP member'.

* 11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020. Slovenski planinski muzej Mojstrana *Ohranimo živa tla, ohranimo biotsko pestrost tal*

- Aktivnosti in pretekli dogodki

This screenshot shows the same website with the 'EVENTS' menu expanded. The menu items listed are: 'Final Links4Soils Conference: Alpine Soil Forum', 'Summer School Pokljuka 2019', 'Soil day in Scheuring', and 'Links4soils in the media'. The background image has changed to a scenic view of an alpine valley with a dirt road and a wooden building. The 'ALPSP' menu item in the navigation bar is also highlighted.

* 11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020. Slovenski planinski muzej Mojstrana *Ohranimo živa tla, ohranimo biotsko pestrost tal*

Slovenska različica

Skrbimo za tla - v njih so naše korenine.

Partnerstva za varovanje tal - Alpske organizacije - Inicijative za tla

Platforma za tla Alp

0 TLEH | PODATKI TAL | DOBRE PRAKSE | OCENA ZA TLA | VPRAŠAJ | ALPSP

Pridružite se Alpskemu partnerstvu za tla

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APRIL 2020 PUBLIKACIJE PROJEKTA V SLOVENSKEM JEZIKU

JANUAR 2020 GLAS OBČIN: OCENA ZA TLA - POZIVAMO K SODELOVANJU!

11.10.2019 OCENA ZA TLA

24.-28. AVGUST 2020 RAZUMEVANJE IN UPRAVLJANJE GORSKIH TAL IN S TEM POVEZANE EKOSISTEMSKE STORITVE

Ekosistemske storitve tal v Alpah

Platforma za tla Alp "The Alpine Soils Platform" je bila vzpostavljena kot prva spletna stran o tleh in za tla, ki pokriva celoten alpski prostor. Je prva alpska platforma za podporo informacijam in odločanju o tleh, saj vsebuje informacije o tleh, svetovanje strokovnjakov, najboljše prakse ter vse pomembne rezultate projekta Links4Soils, z namenom vključitve teme tal v lokalno in regionalno upravljanje in načrtovanje.

Vsi deležniki, tako iz gozdarskega, kmetijskega in prostorskega sektorja, ter drugi si lahko pomagajo s to platformo. Osnovna platforma je v angleščini, za vsako alpsko državo pa obstajajo strani v lokalnih jezikih, kjer najdete tudi več informacij lokalnega značaja. Prav s temi informacijami smo zagotovili uporabnost in dostopnost vsem deležnikom ter interesentom.

Naš cilj je tudi spodbujati Alpsko partnerstvo za tla, saj trdno verjamemo, da lahko le skupaj bolje upravljamo s temi in postavimo temelje za trajnostni razvoj v vseh sektorjih.

Rad bi vas vzpodbudil, da nam pošljete informacije o dobrih praksah v vaši regiji, saj je z izmenjevanjem znanja in

11. Dan Alpske konvencije in Svetovni dan tal 4. - 5. december 2020, Slovenski

Ekosistemske storitve tal

Ekosistemske storitve so koristi, ki jih ljudje pridobivajo in ekosistemi (MEA 2005).

Ker Ekosistemske storitve temeljijo na funkcijah in biotskelestvi tal boste v tem poglavju našli dodatne informacije, prav tako pa boste našli previd kolikor Ekosistemske storitve v Alpah, ter Slepno različico, obe na voljo za prenos.

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Skrbimo za tla - v njih so naše korenine.

Partnerstva za varo

Platforma za tla Alp

0 TLEH | PODATKI TAL | DOBRE PRAKSE | OCENA Z

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APRIL 2020 PUBLIKACIJE PROJEKTA V SLOVENSKEM JEZIKU

JANUAR 2020 GLAS OBČIN: OCENA ZA TLA - POZIVAMO K SODELOVANJU!

11.10.2019 OCENA ZA TLA

Ekosistemske storitve tal v Alpah

Uvod v ekosistemske storitve tal za odločevalce

Ni kratko o ekosistemskih storitvah tal

Ta imajo, ker sestavni deli kopenskega ekosistema, ključno vlogo pri zagotavljanju tako imenovanih ekosistemskih storitev tal, ki jih lahko porazdelimo v štiri skupine:

- **ustreza z delovnimi** posredno in neposredno hrano za človeka in živali, pitna/izdelava voda, biomasa za proizvodnjo (les, vlakna) in energijo (les, energijske rastline),
- **regulacijske** storitve so delovanje ekosistemov: ohranjanje kličevanja in disintegracije snovi (voda, pilin, lesnina, organska), klimatskih razmer ter naravnih procesov (erozija, poplave, senežski usaji), biotskih procesov in storitev (oprašitev, rastlinstvo in živalska biotska),
- **lahkane** tudi delujejo na ohranjanje, kulturne, rekreacijske in izobraževalne,
- **podpora** in storitve funkcionalnega ekosistema: zadrževanje in kličevanje hrani, pridobivanje in proizvodnja vlakna, vzdrževanje biotske pestnosti, Sifonija prazen.

Soil: Ekosistemske storitve tal

Raznolikost tal omogoča tudi raznolikost storitev tal. Ekosistemske storitve tal, ki koristijo ne samo ljudem, temveč tudi živalim in obojem.


V gozdem okolju za nekatere ekosistemske storitve, v primerjavi z ekosistemskimi storitvami v rizinah, če praviš gozdoma. Ti sta predstava različne preden omogoča ter različne pred gozdoma.

Zagotavljanje ekosistemskih storitev talnih ekosistemov se odraža v lastnosti procesov in funkcij tal. Pravi način zagotavljanja storitev tal zagotavlja trajnostno uporabo talnih ekosistemov, ki zagotavljajo uporabnost in dostopnost vsem deležnikom ter interesentom.

11. Dan Alpske konvencije in Svetovni dan tal 4. - 5. december 2020, Slovenski planinski muzej Mojstrana Ohranimo živa tla, ohranimo

Skrbimo za tla - v njih so naše korenine. Partnerstva za varovanje tal Alpske organizacije Iniciative za tla

Platforma za tla Alp



O TLEH ▾ PODATKI TAL ▾ DOBRE PRAKSE ▾ OCENA ZA TLA ▾ VPRAŠAJ ▾ ALPSP ▾

Vprašajte nas

Koga vprašati? Inštitucije

Pogosta vprašanja z odgovori Strokovnjaki

Svetovalna ekipa

Pedološka združenja

Mednarodne organizacije

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0 10 20 30 40 50 60 70 80 90 100 110

Trajnostno upravljanje z zemljišči kot tudi varstvo tal pogosto zahteva strokovno pomoč.

V zvezi z vprašanji iz različnih strokovnih področij, vam je spodaj na voljo seznam strokovnjakov, ki vam bodo s svojim strokovnim znanjem pomagali pri pridobivanju specifičnih informacij.

Seznam strokovnjakov bomo sproti posodabljali.

dr. Borut Vrščaj

Strokovna področja: Pedologija, kmetijstvo, naravne nesreče, turizem, varstvo narave, ozaveščanje o tleh.
Dejavnosti: Funkcije tal, upravljanje s tlemi, ohranjanje tal, raba zemljišč in soodvisnost s podzemnimi vodami, prostorsko planiranje in kakovost tal, informatika tal in okolja, talni informacijski sistemi, geoinformatika, digitalna kartografija tal.

dr. Tomaž Krajc

Strokovna področja: Gozdarstvo, kmetijstvo, prostorsko planiranje, naravne nesreče, varovanje okolja.
Dejavnosti: Tla, funkcije tal, rodovitnost tal, kakovost tal, upravljanje s tlemi, ohranjanje tal, trajnostno upravljanje s tlemi, podatkovna baza tal, GIS pregledovalnik podatkov.

11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020, Slovenski planinski muzej Mojstrana Ohranimo živa tla, ohranimo biotsko pestrost tal

Ocena za tla

Zabaven vprašalnik, ki vam ponuja rešitve za trajnostno upravljanje s tlemi v skupnosti. Zajeta so vsa pomembna področja – prostorsko načrtovanje, naravne nesreče, ozaveščanje o tleh, itd.

Kdo lahko sodeluje?

Vprašalnik Ocena za tla je namenjen **lokalnim svetnikom, delavcem v skupnosti** in vsem, ki se zavzemajo za **zaščito tal** v svoji skupnosti ali pa bi radi **izvedeli več** o tej temi.



OCENA ZA TLA

Kako se v vaši občini lotevate teme varovanje tal?

1. Naravne nesreče in erozija tal

2. Prostorsko načrtovanje in razvoj mestnih vrstob

3. Zaveščanje in ozaveščanje v prometu tal za človeka in okolje

4. Kmetijstvo in gozdarstvo

5. Zadržek pomembnosti tal

6. Sodelovanje in mreženje

7. Ohranjanje naravnih virov

8. Odličje vprašalnik Ocena za tla

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Fragebogen - Alpinesoil SI

si-soilcheck.alpinesoils.eu/si/survey/s/alpinesoil-si

KAJ JE APLIKACIJA OCENA ZA TLA?

ZBIRANJE IDEJ IN UKREPOV ZA TRAJNOSTNO UPRAVLJANJE TAL V OBČINAH

Vprašalnik "Ocena za tla" ponuja ideje za trajnostno upravljanje s tlemi v posamezni občini. Vprašanja se nanašajo na pomembne teme, od prostorskega načrtovanja do naravnih nesreč in ozaveščanja. Aplikacija Ocena za tla je razvil Klimabündnis Tirol, organizacija ki se ukvarja s podnebnimi spremembami na Tirolskem, v okviru evropskega projekta Links4Soils.

Kdo lahko sodeluje?

Vprašalnik oziroma aplikacija Ocena za tla je namenjena občinskim delavcem in vsem zaposlenim, ki želijo spoznati pomen tal ali pa želijo bolj aktivno pristopiti k varovanju tal v svoji občini.

Kako deluje?

Za izpolnjen vprašalnik boste potrebovali približno 20 minut. Če kliknete »nadaljujte pozneje«, boste prejeli povezavo, s katero boste lahko kadarkoli nadaljevali z vprašalnikom. Na koncu lahko vnesete svoje kontaktne podatke in svoje rezultate prejmete v PDF dokumentu na vaš e-poštni naslov.

Začnite Ocena za tla

Zakaj varujemo tla?

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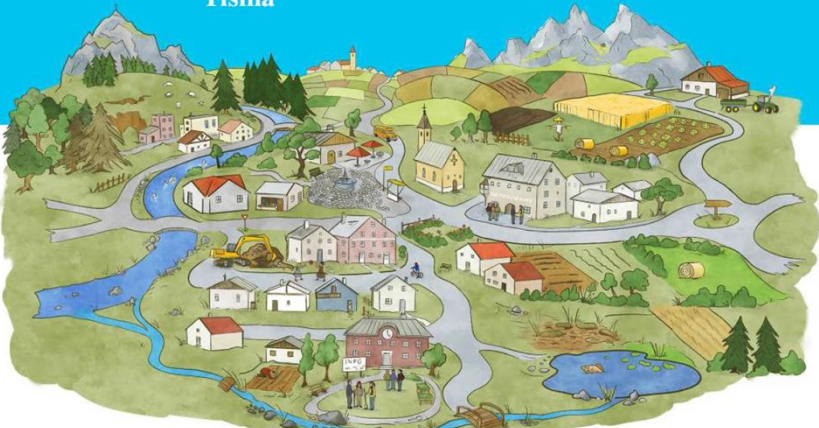
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OCENA ZA TLA

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ALPSKA KONVENCIJA
CONVENZIONE DELLE ALPI

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR

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Links4Soils

11. Dan Alpske konvencije in Svetovni dan tal
4. – 5. december 2020
Slovenski planinski muzej Mojstrana

Ohranimo živa tla, ohranimo biotsko pestrost tal

Bonton

Jurka Lesjak
Kmetijski inštitut Slovenije

Bonton

Alpska tla

- Ekosistemske storitve tal
- Grožnje tlam
- Klasifikacija tal
- Terminološki kotiček
- Bonton ravnanja s tlemi**

Bonton ravnanja s tlemi

Tla so bistveni element za rast rastlin in nudijo dom številnim organizmom. Omogočajo dobro počutje ljudi, delovanje ekosistemov in prispevajo k biotski pridelavo hrane in lesa, shranjevanje in filtriranje vode, shranjevanje in odtoka in še veliko več.

Zaščita tal je ključna za našo prihodnost. Mnoge pobude po vsem svetu spodbujajo prakse ohranjanja tal, ki ščitijo pred erozijo in izgubo hranilnih snovi.

Naš prispevek k zaščiti tal v projektu Links4Soils je zloženka s smernicami – namenjena vsem "uporabnikom", da bi vsak dan ozaveščali o varovanju tal.

Tla so pomembna v različnih sektorjih odločanja in upravljanja: kmetijstvo, gozdarstvo, naravne nesreče, varstvo narave in biotska raznovrstnost, turizem, prostorsko načrtovanje in urbano okolje.

V okviru projekta Links4Soils smo zbrali, razvili in vizualizirali smernice za trajnostno upravljanje s tlemi.

Kliknite na ikono za Bonton ravnanja s tlemi v slovenskem ali angleškem jeziku.

Pridružite se Alpskemu partnerstvu za tla

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EKOSISTEMSE STORITVE TAL V ALPAH

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BONTON RAVNANJA S TLEMI



Kmetijstvo



- Zmanjšujemo erozijo z obdelavo v pasovih in primerno pokritostjo tal.
- Uvajamo/uporabljamo pokrovne in vmesne posevke; uvajamo ohranitveno obdelavo tal in druge načine pridelave, ki povečujejo vsebnost talne organske snovi. S tem prispevamo h kakovosti tal in blažitvi podnebnih sprememb.
- Uporabljamo medvrstne posevke in ustrezen kolobar ter povečujemo raznolikost kmetijskih rastlin.
- Spodbujamo racionalno uporabo organskih in mineralnih gnojil in ekološko pridelavo; ohranjamo rodovitnost tal in varujemo sama tla kot vitalni življenjski prostor organizmov.
 - Zmanjšujemo uporabo fitofarmaceutskih sredstev in preprečujemo onesnaževanje tal.
 - Omejujemo vožnje po kmetijskih tleh, zlasti po mokrih ter tleh občutljivih na zbijanje.

* 11. Dan Alpske konvencije in Svetovni dan tal 4. – 5. december 2020. Slovenski planinski muzej Mojstrana Ohranimo živa tla, ohranimo biotsko pestrost tal

Gozdarstvo



- Zagotavljamo stalno pokritost tal z gozdnim rastjem, tudi v luči blažitev podnebnih sprememb.
- Uporabljamo primerno gozdno mehanizacijo, da bodo negativni vplivi na tla in gozdne sestoje čim manjši.
- Ustvarjamo pestro zgradbo in drevesno sestavo gozdov, ki izboljšujejo kakovost tal.
- Izboljšujemo zgradbe gozdov in izbirajmo drevesne vrste prilagojene rastiščnim razmeram.
- Spodbujamo naravno obnovo gozda s skrbno izbranimi drevesnimi vrstami.
- Izogibajmo se velikopovršinskim sečnjam, zlasti na strmih pobočjih.
- Uvajamo obnovo gozdov pod zastorom odraslega drevja ali v manjših vrzelih.
- Puščajmo manjše veje, listje in lubje v gozdu, da omogočamo shranjevanje ogljika v tleh in krepimo produktivnost gozdnih tal.

Obvladovanje naravnih nesreč



- Zavedajmo se tveganj naravnih nesreč na našem območju in vloge tal pri njihovem preprečevanju.
- Pazljivo načrtujemo rabo zemljišč, da zmanjšamo pojav naravnih nesreč, npr. usadov in plazov.
- Izogibajmo se pretirani pozidavi oz. prekrivanju tal ter omogočajmo vpijanje in odtok vode skozi tla.
- Spodbujamo celostno obravnavanje tveganj naravnih nesreč z uravnoteženimi rešitvami uveljavljenih naravnih metod in tehnik preprečevanja naravnih nesreč.
- Ohranjamo pokritost tal z vegetacijo od dna doline do vrha.
- Prilagodimo strukturo in sestavo vegetacije glede na tveganja naravnih nesreč.
- Ustrezno vrednotimo, vzdržujemo in skrbno upravljamo zaščitene gozdove.

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Varstvo narave in biotske raznovrstnosti

- Spoštujemo tla kot bistveni del ekosistemov, izboljšujemo njihovo zdravje in produktivnost.
- Zavedajmo se izjemne biotske pestrosti v tleh in ohranjamo biotsko pestrost.
- Prepoznavajmo in zaščitimo redke in posebne tla.
- Zaščitimo tla bogata z ogljikom, zlasti barja in mokrišča.
- Ohranjajmo naravna tla; izogibajmo se gnoji naravovarstveno zaščiteneh območjih.



Prostorsko načrtovanje in urbano okolje

- Upoštevajmo funkcije tal in ekosistemske storitve tal v procesih načrtovanja in izgradnje nove infrastrukture.
- Zmanjšajmo pozidavo tal (prekritje tal z betonom, asfaltom, zgradbami itd.) in promovirajmo tlakovanje s prepustnimi materiali.
- Izogibajmo se pretirani in razpršeni poselitvi, zlasti na rodovitnih in okoljsko pomembnih tleh.
- Spodbujajmo adaptacije opuščene zgradbe in pospešujemo čiščenje, dekontaminacijo, sanacijo in ponovno uporabo industrijskih in urbanih zemljišč.
- Premišljeno uporabljajmo mehanizacijo med gradnjo stavb in infrastrukture; poskrbimo za skrbno odstranjevanje in ponovno uporabo vrhnje plasti tal.
- Izogibajmo se onesnaževanju ter pretirani uporabi gnojil in fitofarmaceutskih sredstev na vrtovih, travnikih, parkih in ob cestah.

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Turizem

- Omejimo izgubo, zbijanje in onesnaževanje tal pri izgradnji turistične infrastrukture.
- Previdno načrtujemo pohodniške in gorske kolesarske poti ter zagotovimo ustrezne ukrepe za zaščito tal in zmanjšanje erozije.
- Obnavljajmo travnine na smučiščih in območjih zaščitene narave z lokalno in biotsko pestro sestavo avtohtonih vrst trav ter s tem preprečujemo nastanek erozijskih žarišč.
- Spodbujajmo turistično infrastrukturo, ki je racionalna s pozidavo in degradacijo tal in zato zagotovimo javni prevoz.
- Povečajmo zavedanja o pomenu tal med obiskovalci in domačini s povečanjem dostopnosti informacij o tleh.



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Hvala za pozornost

Za vsa vprašanja sem vam z veseljem na voljo!
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