







#### **SLOVAK ENVIRONMENT AGENCY**

is implementing an activity



#### INTERNATIONAL CONFERENCE

#### **CONTAMINATED SITES 2022**

TRNAVA, SLOVAK REPUBLIC, 12 – 14 OCTOBER 2022

The activity has been implemented within the framework of national project

Information and providing advice on improving the quality of environment in Slovakia.

The project is cofinanced by Cohesion Fund of the EU under Operational programme Quality of Environment.

www.op.kzp.sk www.minzp.sk www.sazp.sk

# INFORMATION SYSTEM OF CONTAMINATED SITES IN SLOVAKIA

**Erich Pacola** 

Slovak Environment Agency, Slovak Republic erich.pacola@sazp.sk

The activity has been implemented within the framework of national project Information and providing advice on improving the quality of environment in Slovakia.

The project is cofinanced by Cohesion Fund of the EU under Operational programme Quality of Environment.









# Information System of Contaminated Sites (ISCS)



#### Common objectives of ISCS development



- Create "smart" information system based on a new technologies (WEB interface, powerful database management system)
- Dissemination of official information on CS to public in modern and attractive form (web services)
- Improvement of the quality of systematic gathering and processing of data on CS
- Simplification of communication between state authorities and public



#### Content of the ISCS



Environmentálne témy Zelené hospodárstvo Agendy

#### GALAPÁGY



- NAJNOVŠIE ČLÁNKY
- 10 zaujímavých faktov o našich zvieratách pri príležitost Svetového dňa zvierat
- 04. Oct 2022, Enviroportal
- Dnes, **4. októbra**, si pripomíname **Svetový deň z** oslavu živočíšnej ríše, zdôraznenie jej nezastupite v životoch ľudí a neustálu potrebu zlepšovania podmienok zvierat na celom svete.

Zázrak jesennej migrácie potešil tisíce nadšencov po ce

(a) 04. Oct 2022, Enviroportal

Viac ako 19 tisíc ľudí sa počas prvého októbrového víkendu zúčastnilo jubilejného 30. ročníka EuroBirdwatchu - Európskeho Festivalu vtáctva, najväčšej európskej akcie zameranej na pozorovanie vtákov.

<u>Návrh nového zákona smeruje Slovensko k čistejšiemu ovzdušiu</u>

O3. Oct 2022, Enviroportal

Znižovanie celkového množstva emisií vypúšťaných do ovzdušia, zvyšovanie kvality ovzdušia, aj obmedzenie množstva emisií priamo na zdroji. Tieto tri hlavné línie sleduje návrh nového

- Enviroportal common internet access point designed to provide environmental information and E-services
- Register of Contaminated Sites comprising records of potentially contaminated sites, contaminated sites and remediated and reclaimed localities. It records the life cycle of CS and all information resulting as a consequence of processes defined by Act no. 409/2011
- Atlas of Remediation Methods of Contaminated Sites web application presenting a series of remediation methods for eliminating contaminated sites
- **API-** Application Programming Interface which enables exchange of information between ISCS and other registers or databases of the Information system of public administration.

Hotel Park Inn, BRATISL





## System integration of content relevant administrative sources





To integrate systems from the point of information technologies means to connect "different worlds", i.e. applications realised on various technologies.



#### Sharing data between ISCS and other apps

# Secretarian de la composición del la composición de la composición del la composición d

#### **Monitoring systems**

- Integrated monitoring of pollution sources,
- Partial monitoring system of geological factors Subsystem 03, Anthropogenic sediment character of old contaminated sites
- Partial monitoring system Soil
- Technical and safety supervision of Slovak water constructions.

#### Nature protection areas of the SR

- State list of specially protected parts of the countryside protected areas and protected trees section,
- EU member's network of nature protection areas NATURA 2000,
- A register of Ramsar Wetlands, UNESCO heritage sites and Biosphere reservations.

#### The systems support environmental legislation

- Geofond digital archive,
- Information system for the mining waste management
- Information system for the prevention of major industrial accidents,
- Register of landfill sites

#### Basic spatial register and large scale maps

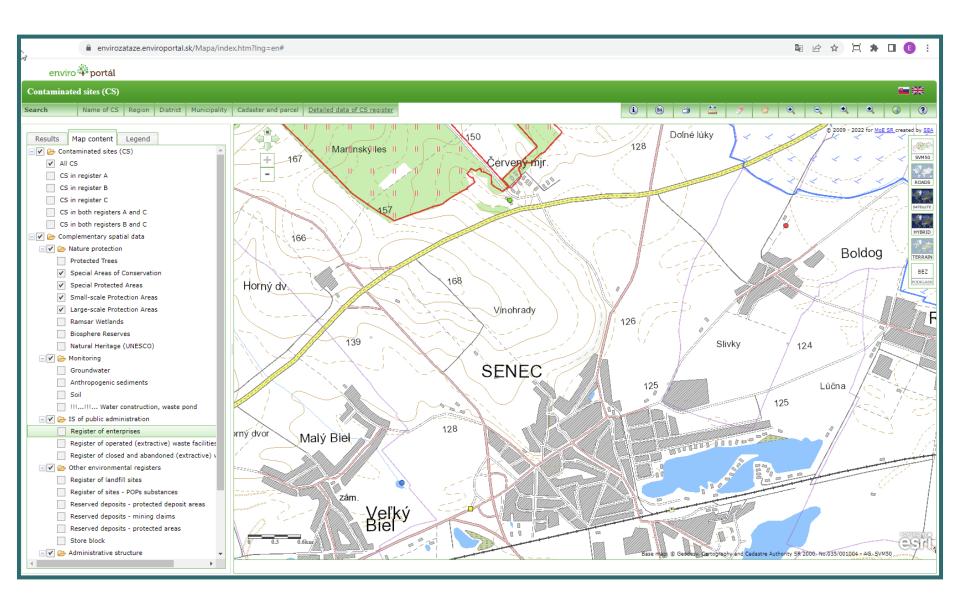
- Digital orthophoto maps of the Slovak Republic and detailed panoramic images of streets and roads of the Slovak Republic (Google Slovakia Ltd.)
- Digital vector cadastral maps (Geodetic and Cartographic Institute, Bratislava)



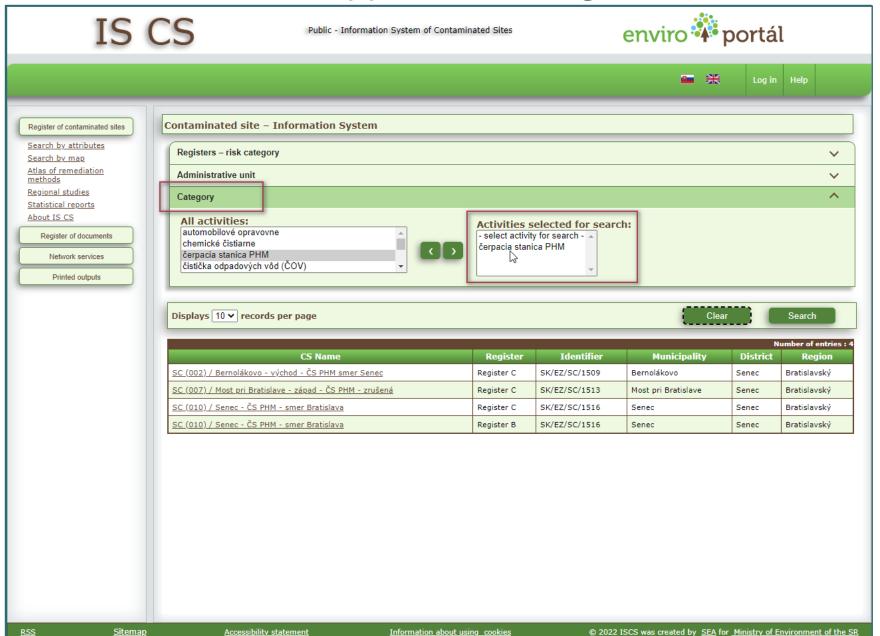
#### Register of CS - web form application (WF app)



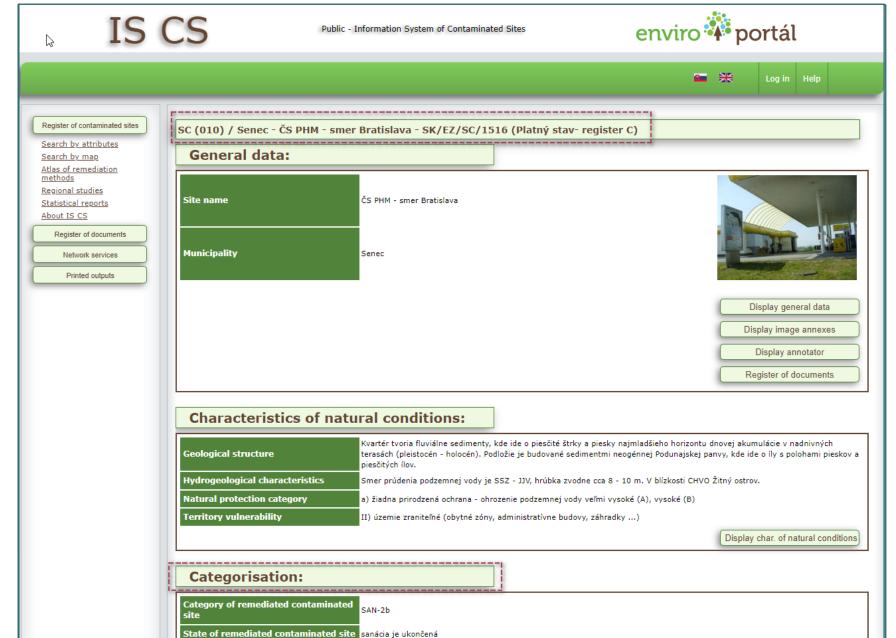
#### Register of CS - web map application (WM app)



#### WF app – Searching



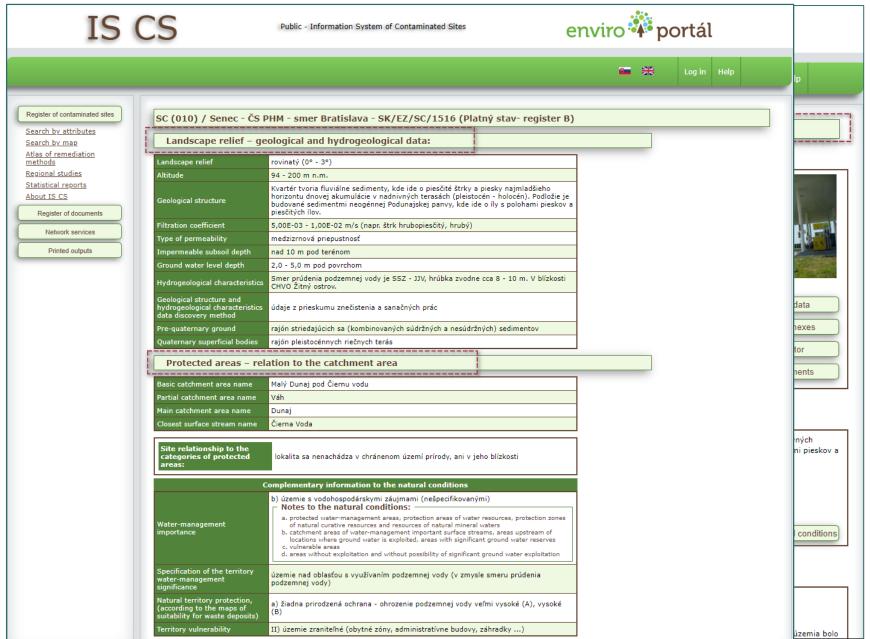
#### WF app – Displaying of first level detail



#### WF app – General data



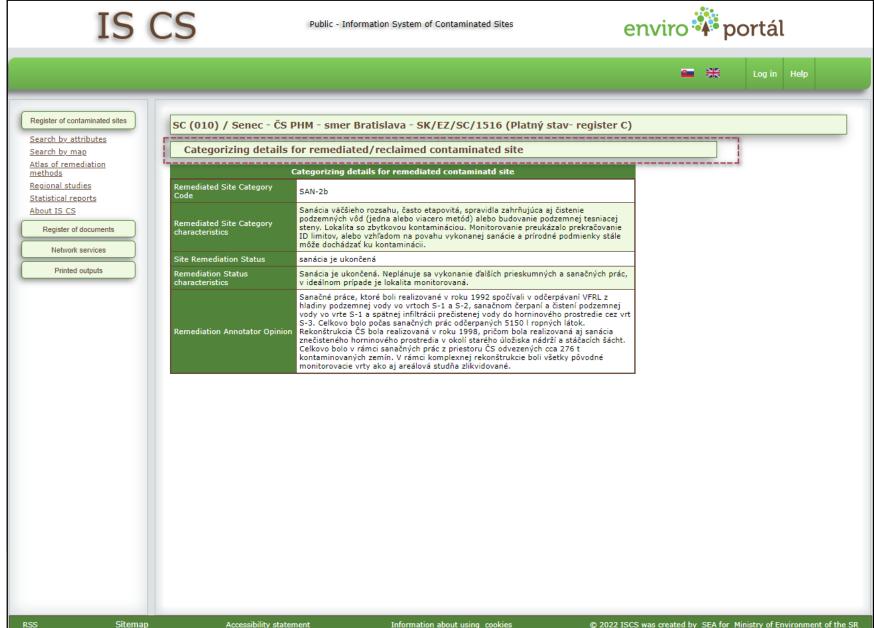
#### WF app – Natural conditions



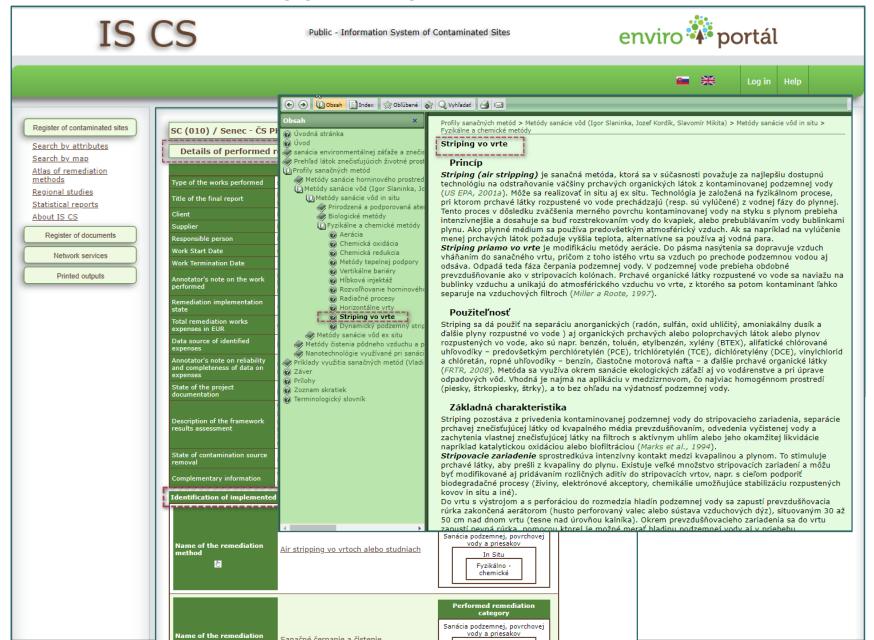
#### WF app – Classification



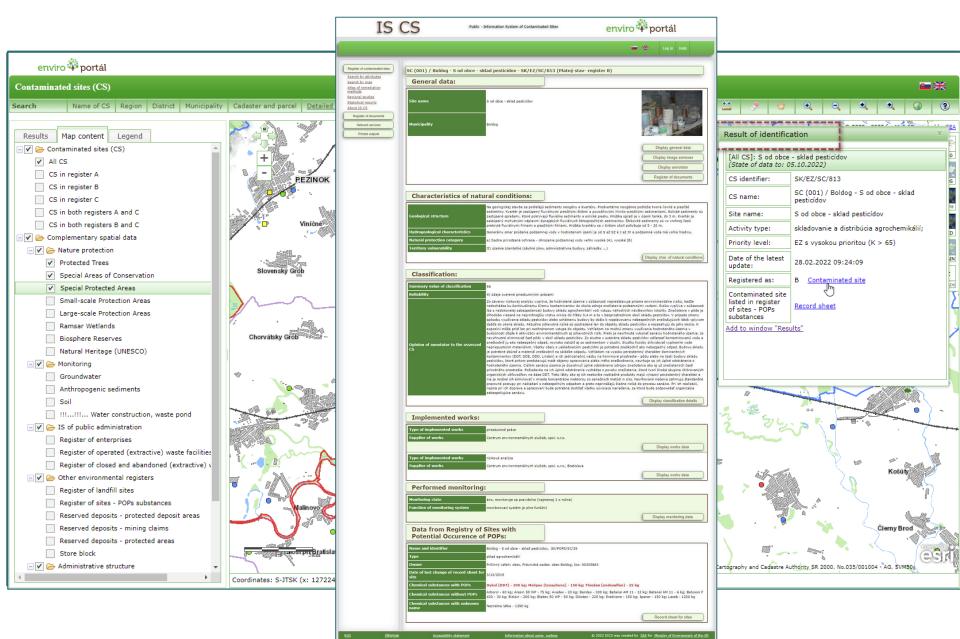
#### WF app – Categorisation



#### WF app – Implemented work



#### WM app - Searching



#### Google Maps, Vector cadastral map integration

#### GM:

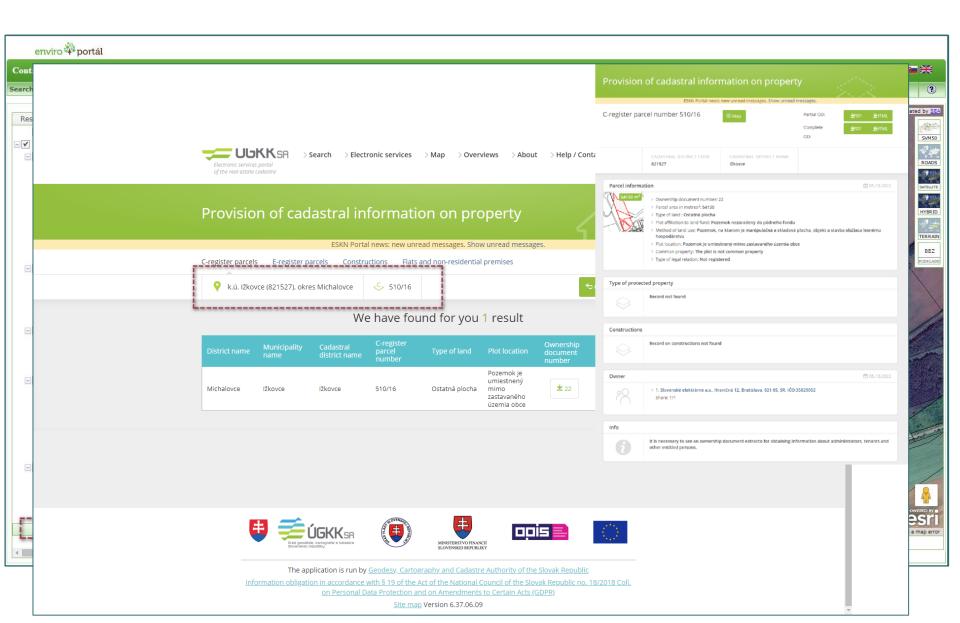
- Google Maps Api: high resolution satellite images can be embedded on third-party websites,
- Street View: provide from 2012 panoramic views from positions along many streets in the SR.

#### VCM:

- Data administration responsibility Geodesy,
   Cartography and Cadastre Authority of Slovak Republic,
   Bratislava
- Data provision under the Contract No. 97-31-13524/2006 provision of land register data. Data in the digital format of Kokeš and dbf,
- SEA obtains annual data update

Is it posssible present spatial data on the large scale detailed basemap?
Is it possible access and share Eservices of Cadaster Portal?

#### Google map, vector cadastral map





### Thanks for your attention.

Erich Pacola Slovak Environment Agency, Slovak Republic erich.pacola@sazp.sk

