

Pollution by pesticides, lindane and similar substances in the Slovak republic

Jaromír Plch, Section Geology and natural Resources

Information system of environmental loads

Register EZ SR

Vyhľadavanie cez atribúty
Vyhľadavanie cez mapu
Atlas sanačných metód
Regionálne štúdie EZ
Štatistické prehľady
O aplikácii IS EZ

Register dokumentov EZ SR

Sietové služby

Tlačové zostavy

Environmentálne záťaž - informačný systém

Registre - kategórie rizikovitosti

☒ Všetky registre ☐ Výber jedného registra ☐ Výber kombinácie registrov

- všetky registre -

+ - vyberte - + - vyberte -

- všetky kategórie priority riešenia -

Popis registrov :

A: Pravdepodobná environmentálna záťaž
B: Environmentálna záťaž
C: Sanovaná, rekultivovaná lokalita
D: Environmentálna záťaž vyradená z registrov

Lokalita

Činnosti

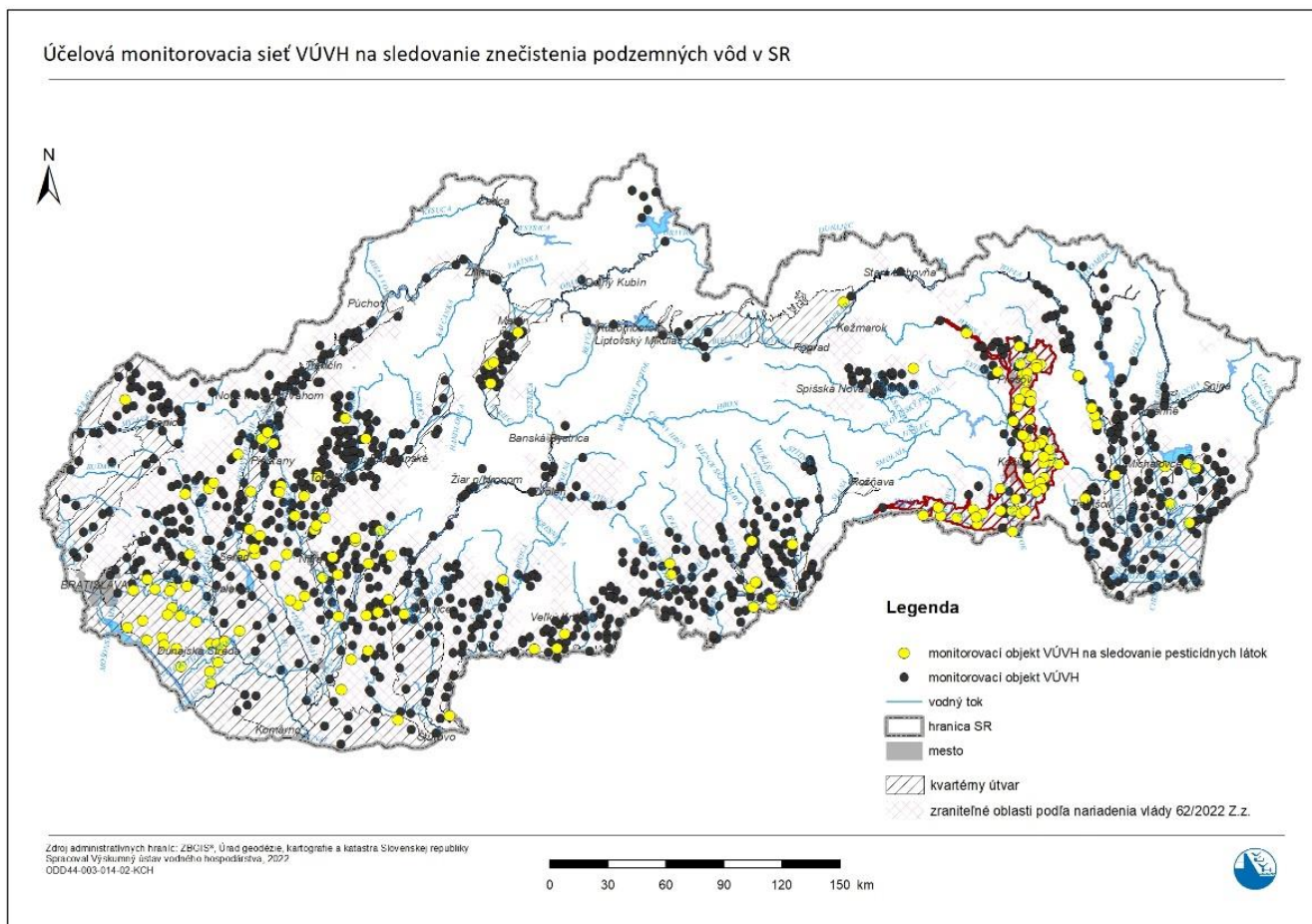
Zobrazí 20 záznamov na stránke

Vypnúť filter

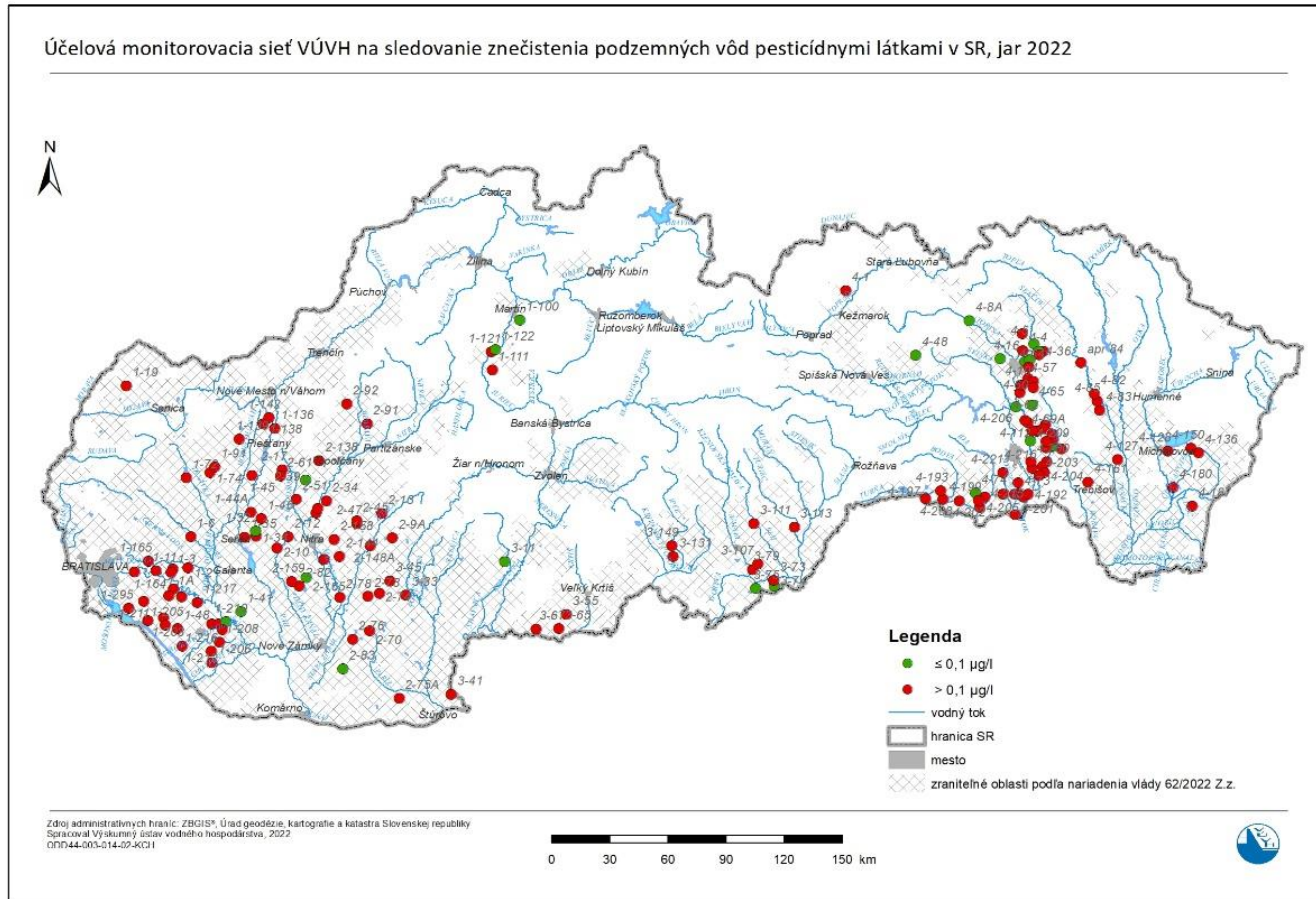
Filtruj záťaž

Názov EZ	Register	Identifikátor	Obec	Okres	Počet záznamov : 2021 Kraj
BB (001) / Banská Bystrica - bývalá galvanizovňa LOBB	Register B	SK/EZ/BB/1	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (002) / Banská Bystrica - lom Podlavice - STKO	Register A	SK/EZ/BB/2	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (003) / Banská Bystrica - Medený Hámor	Register A	SK/EZ/BB/3	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (004) / Banská Bystrica - SAD	Register A	SK/EZ/BB/4	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (005) / Banská Bystrica - skládka Prájskarska terasa	Register A	SK/EZ/BB/5	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (006) / Banská Bystrica - Uľanka - areál Chemika a.s.	Register B	SK/EZ/BB/6	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (007) / Banská Bystrica - železničná stanica	Register B	SK/EZ/BB/7	Banská Bystrica	Banská Bystrica	Barskobystrický
BB (008) / Dolná Mičiná - Hubník TKO	Register A	SK/EZ/BB/8	Dolná Mičiná	Banská Bystrica	Barskobystrický
BB (009) / Horná Mičiná - lom Kejda - obalovačka	Register A	SK/EZ/BB/9	Horná Mičiná	Banská Bystrica	Barskobystrický
BB (010) / Králiky - skládka v lome	Register A	SK/EZ/BB/10	Králiky	Banská Bystrica	Barskobystrický
BB (011) / Ľubietová - Kupcova Poľana STKO	Register A	SK/EZ/BB/11	Ľubietová	Banská Bystrica	Barskobystrický
BB (012) / Ľubietová - Podlipa	Register B	SK/EZ/BB/12	Ľubietová	Banská Bystrica	Barskobystrický
BB (012) / Ľubietová - Podlipa	Register C	SK/EZ/BB/12	Ľubietová	Banská Bystrica	Barskobystrický
BB (013) / Poniky - hnojisko pri Ponickej jaskyni	Register A	SK/EZ/BB/13	Poniky	Banská Bystrica	Barskobystrický
BB (014) / Poniky - kameňolom Bórovie	Register A	SK/EZ/BB/14	Poniky	Banská Bystrica	Barskobystrický
BB (015) / Sebedín - Bečov - Sebedín - Lášok	Register A	SK/EZ/BB/15	Sebedín - Bečov	Banská Bystrica	Barskobystrický
BB (016) / Štefáňov - Štefáňov - STKO	Register A	SK/EZ/BB/16	Štefáňov	Banská Bystrica	Barskobystrický

Special purpose monitoring network of the Water Management Research Institute for monitoring groundwater pollution in the SR

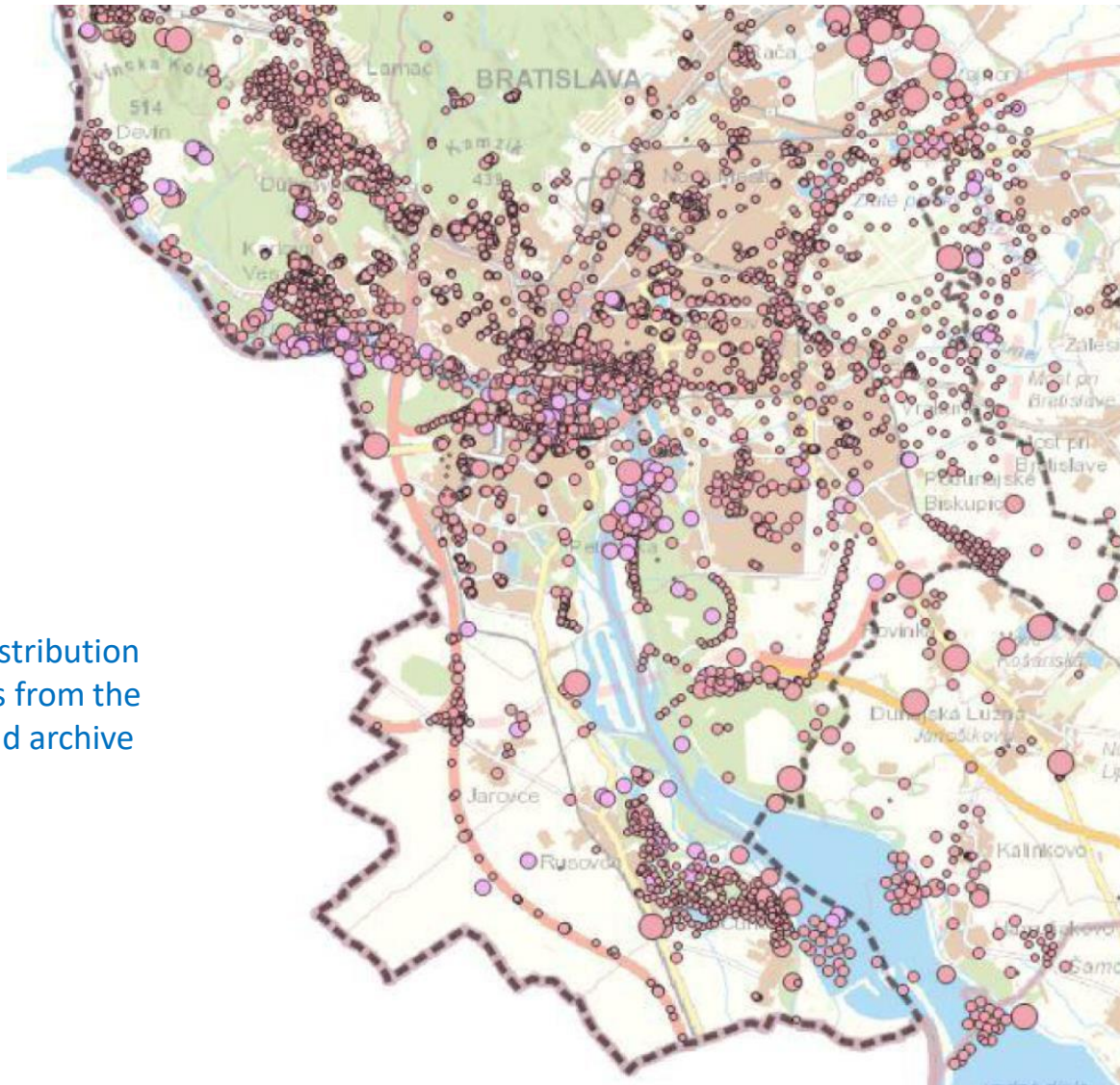


SSpecial purpose monitoring network of the Research Institute of Water Management for monitoring groundwater pollution, indicating the level of pollution by pesticide substances

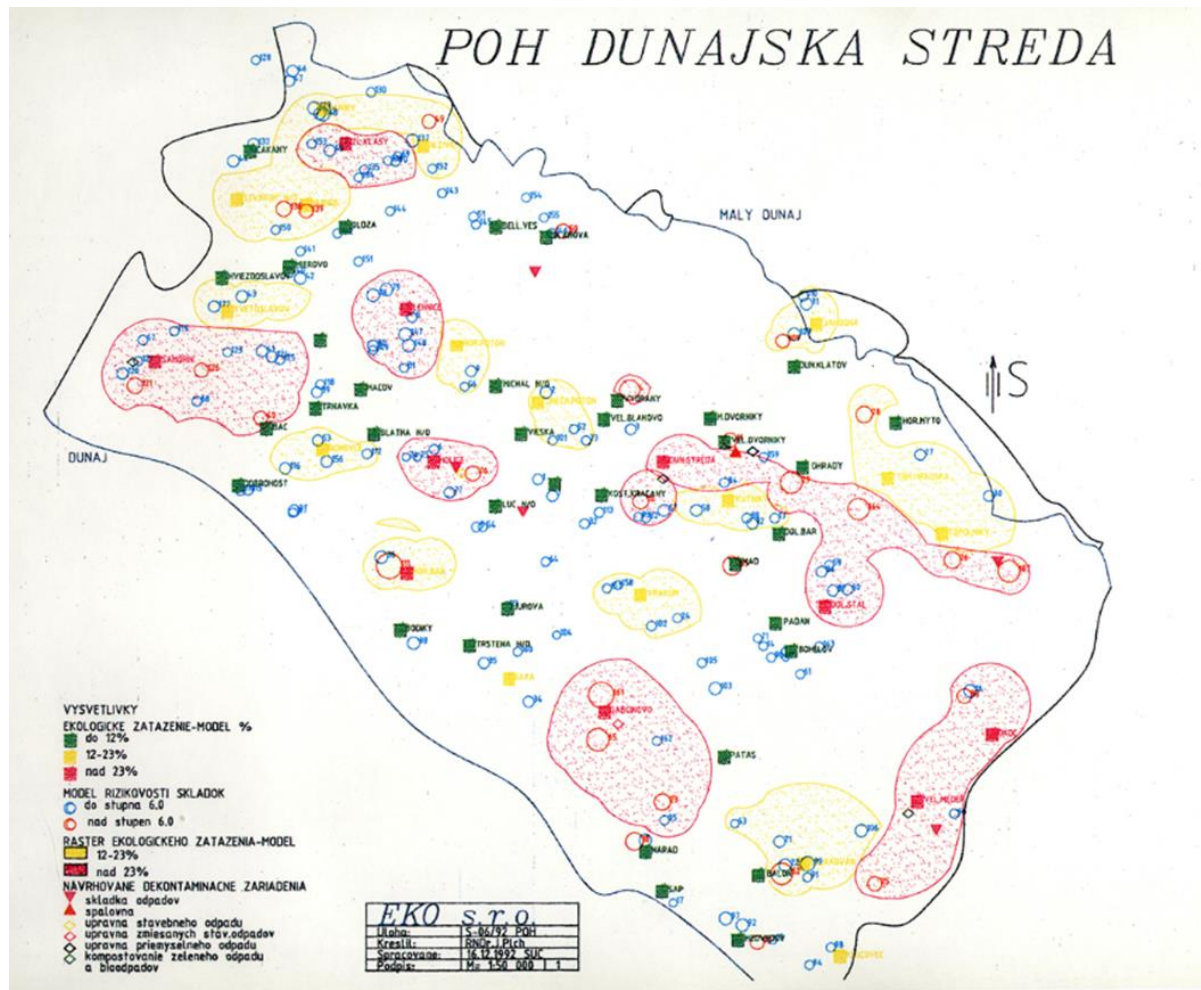


Monitoring network of Bratislava and its surroundings

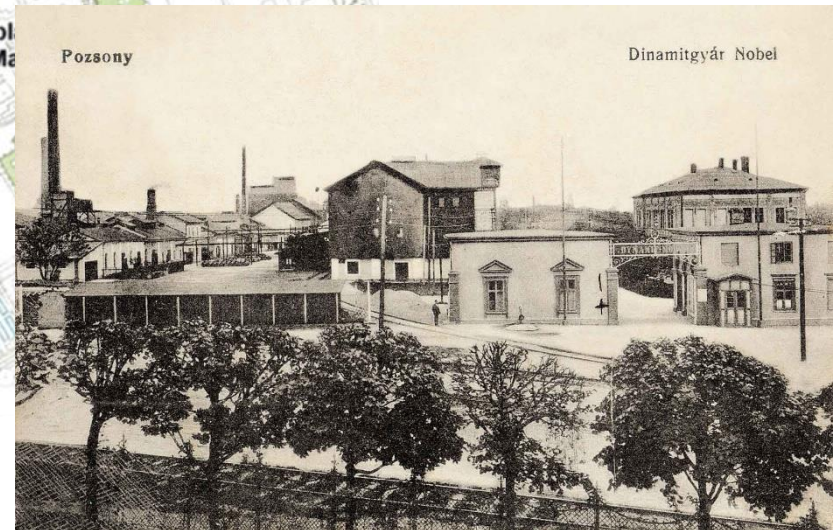
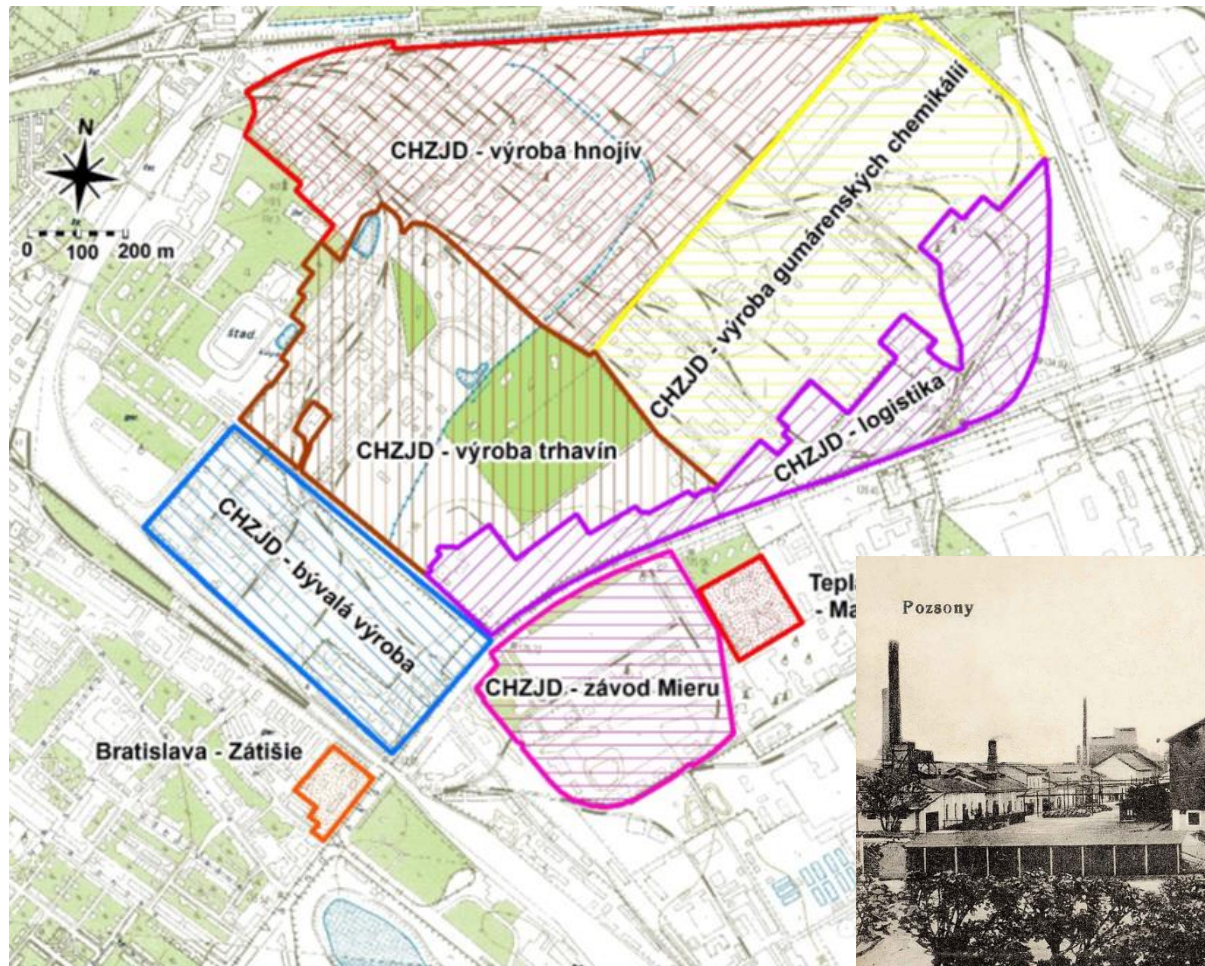
Area distribution
of wells from the
Geofond archive



Ecological load modeling



Chemical production CHZJD (Istrochem)



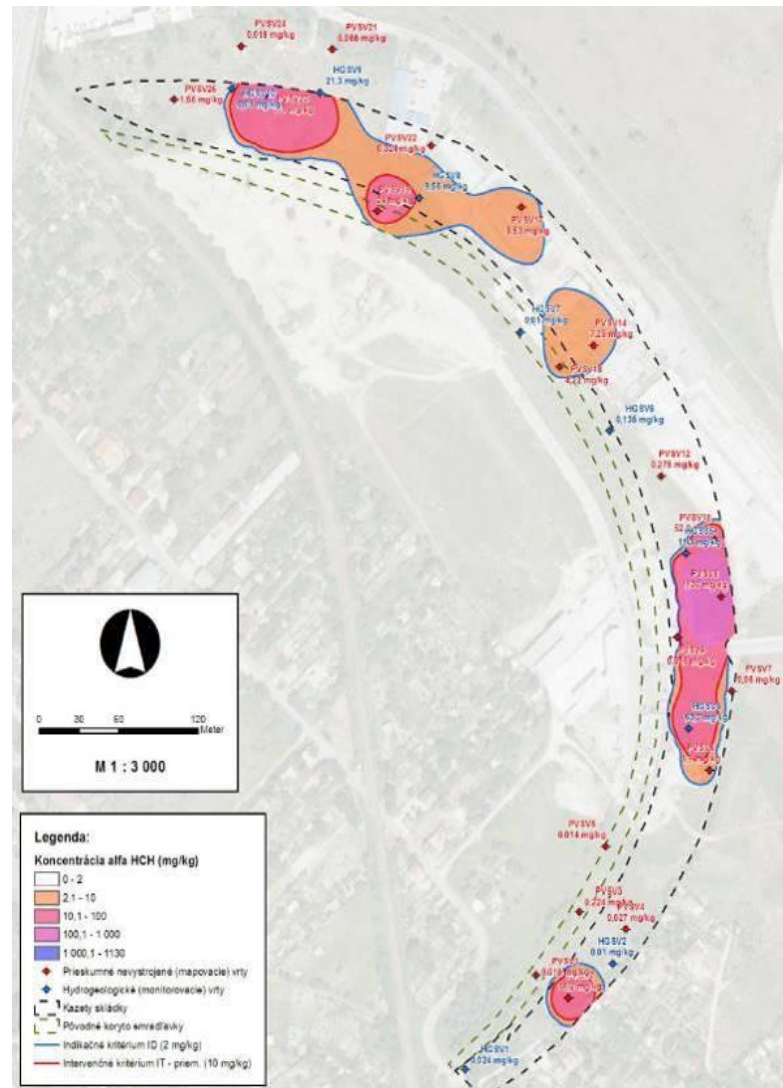
Location of the Vrakuňa landfill in the city center



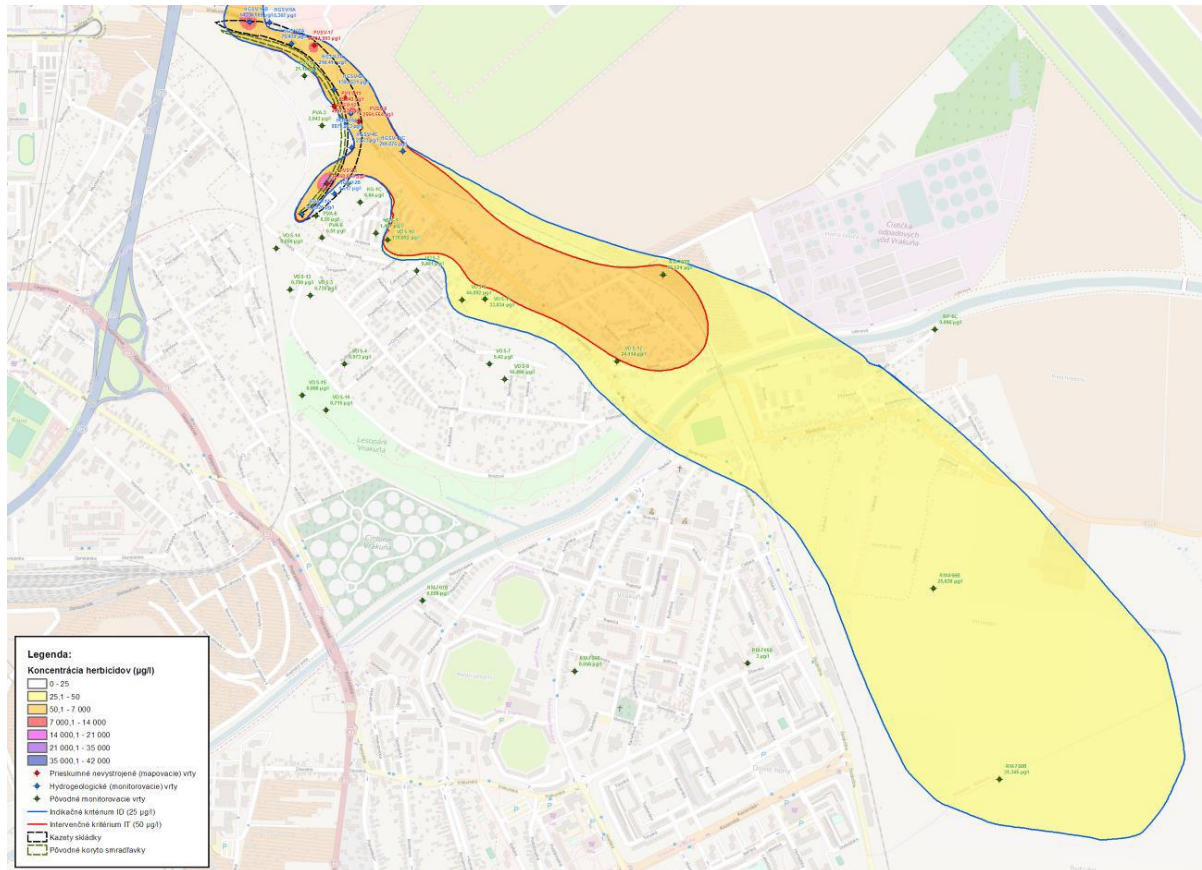
Drill cores from the geological survey of pollution in Vrakuňa



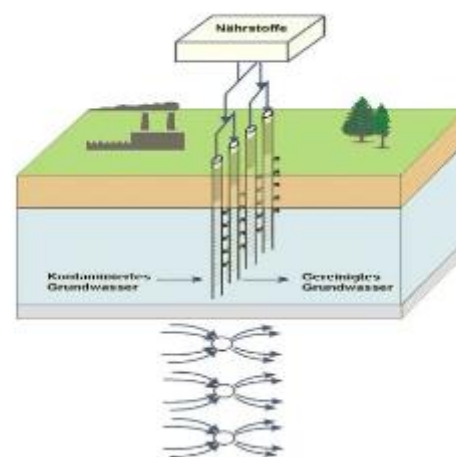
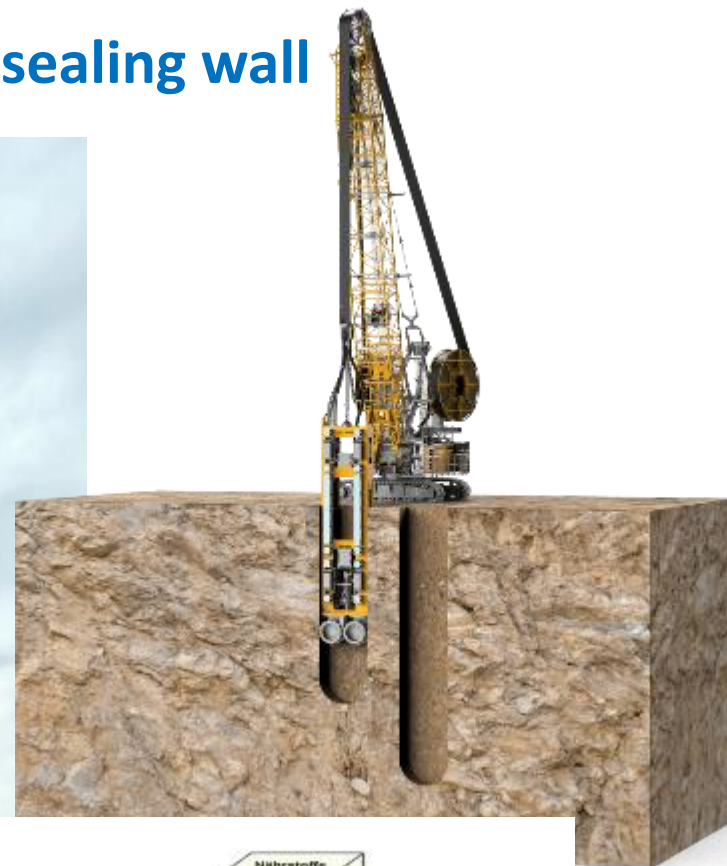
Map of soil pollution with pesticides, depth level 3-5 m



Map of the expected distribution of herbicides in groundwater



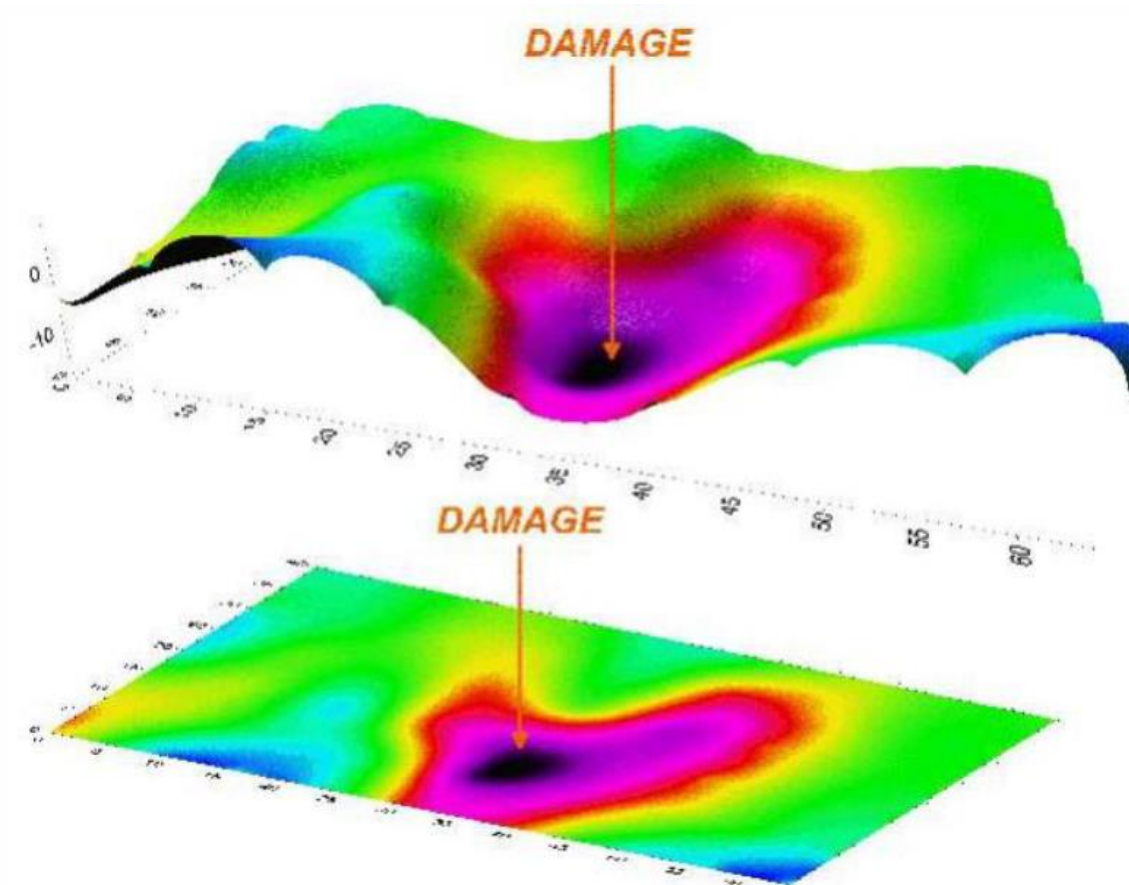
Encapsulation with an underground sealing wall



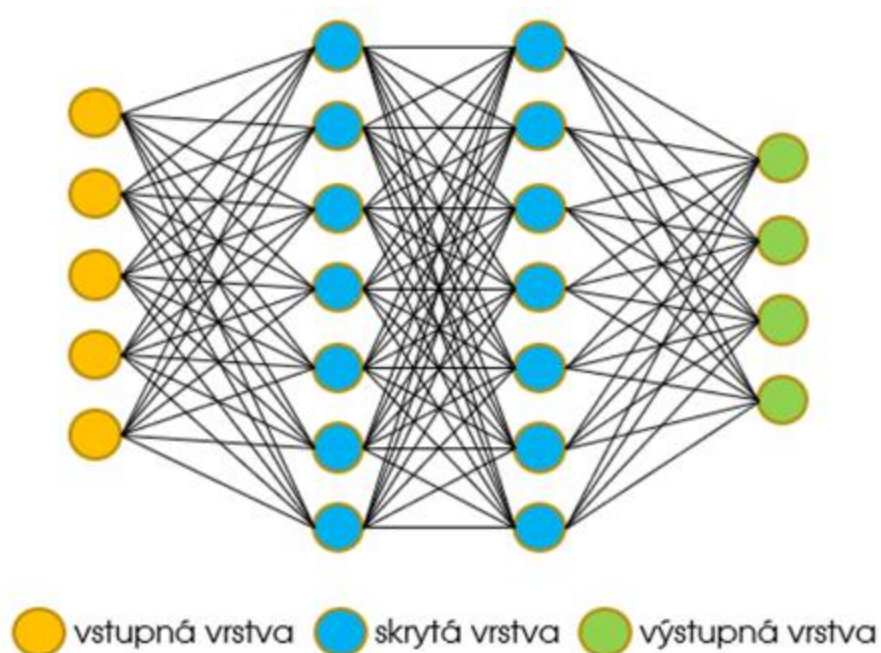
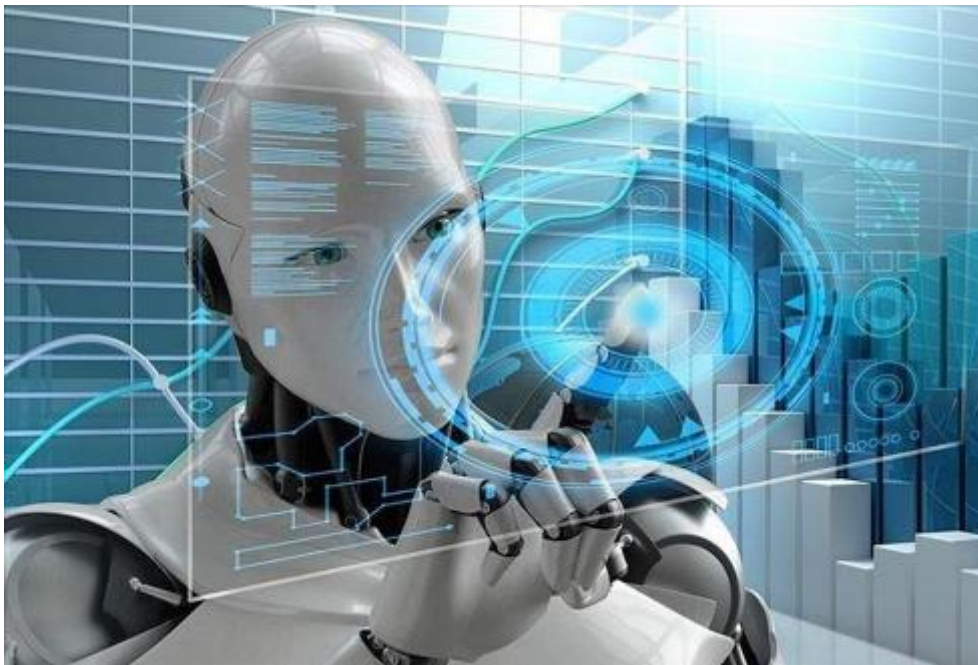
Stabilization by solidification of heavily contaminated soil and waste



Method of leak indication by geophysical monitoring system at waste dumps



Use of neural networks and artificial intelligence (AI)



- Using data from existing monitoring systems as input to Artificial Intelligence (AI)
- Use of neural network and deep learning emulators
- Warning against catastrophic events, detection of elusive negative trends
- Modeling the correlation between pollution and population health

Friendly debate with artificial intelligence (AI)

Can you help solve environmental problems?

As an artificial intelligence, I can provide information and support solutions to environmental problems. I can provide information on the environmental impacts of various activities

Do you know anything about the toxic waste dump in Vrakuňa near Bratislava?

Yes, I know about the toxic waste dump in Vrakuňa near Bratislava. It is one of several places in Slovakia where hazardous waste is stored. The landfill is managed according to strict safety standards to prevent damage to the environment and human health. However, there are still concerns about the possible harmful effects of the landfill on the environment and the health of the local population. Therefore, it is necessary to constantly monitor and implement the necessary measures to maintain safety.

Is there a solution to the waste problems in Vrakuňa?

I do not have information about specific solutions to the problems with waste in Vrakuňa. However, there are usually multiple approaches to solving waste problems, such as recycling, thermal treatment, geological storage or safe and liquid storage. It is important to choose the right solution that takes into account the surrounding environment, people's health and the economy.

There are many monitoring wells on Rye Island and its surroundings that collect data on groundwater quality and chemistry. This data is collected over many years. Do you have the ability to estimate the possible deterioration of groundwater chemistry based on this huge amount of data? Or to estimate the risk of an ecological crash based on local deterioration? Or estimate how the health status of the population may deteriorate?

As an artificial intelligence, I am able to analyze and interpret a large amount of data and provide information based on this data.



The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Thanks for paying attention