

EmpowerClimate

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

based on a decision of the German Bundestag

This project is part of the European Climate Initiative (EUKI) of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU).

Zuzana Hudeková

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA

IKEM



based on a decision of the German Bundestag

Workshop 14 – Hospodárenie s vodou v sídlach

Príklady z praxe - Slovensko

30. novembra 2021
Bratislava



Supported by:



based on a decision of the German Bundestag





Supported by:



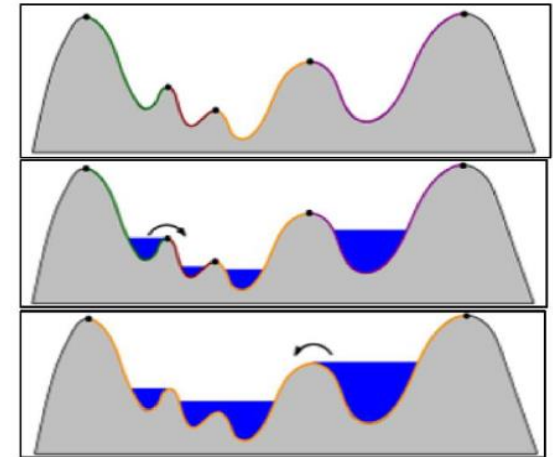
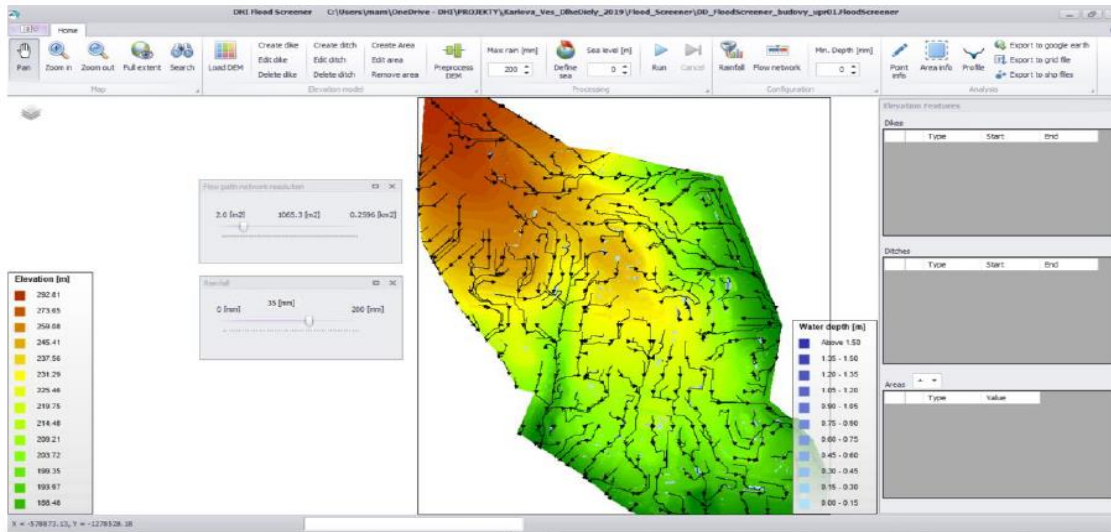
based on a decision of the German Bundestag

Koncepčné riešenie – zrážkovo-odtokový model

27 mm počas 30 min + 15 % (zmena klímy) = 36 mm / 30 min.
kritická doba trvania – zistenie pomocou modelu
totálny odtok

Spôsob modelovania a použitá technológia

- Zistenie odtokových trás DHI Flood Screener



© DHI

Supported by:



based on a decision of the German Bundestag



výsledky



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

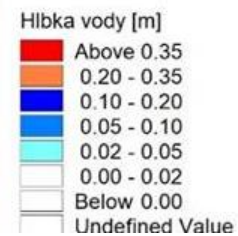
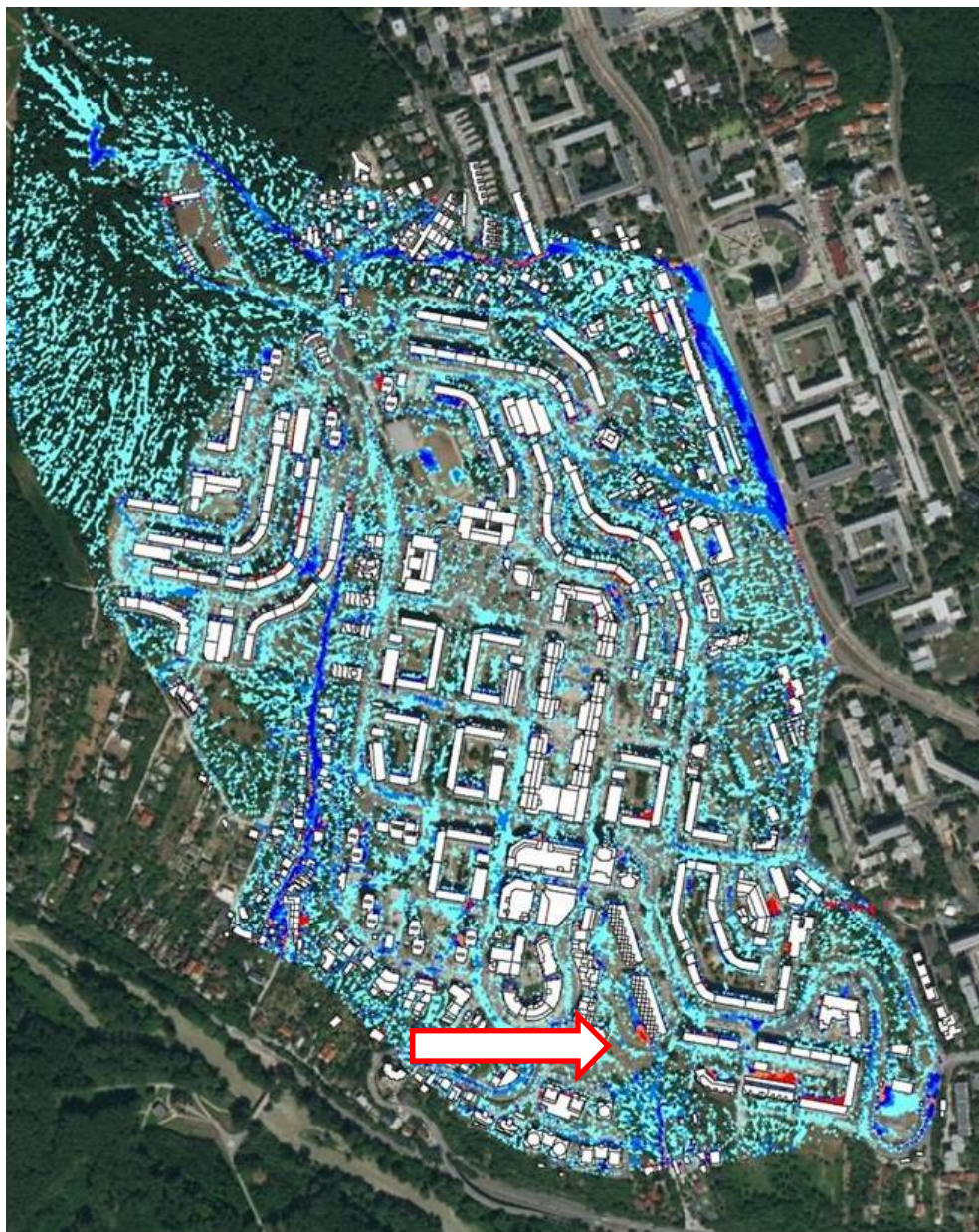


PORSENNA

IKEM



based on a decision of the German Bundestag



Supported by:



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

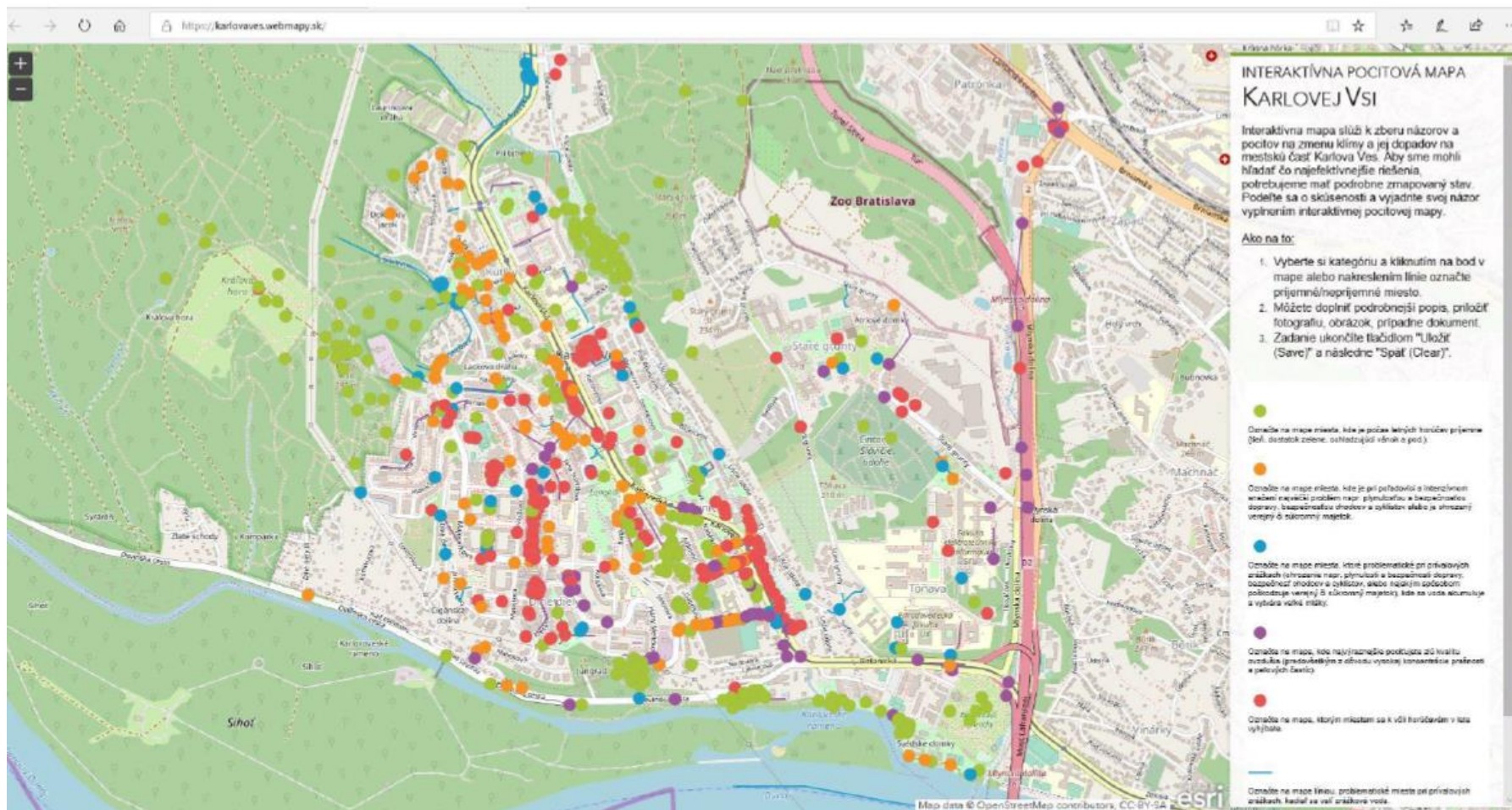


PORSENNA

IKEM



based on a decision of the German Bundestag



Supported by:



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety



European Climate Initiative EUKI



PORSENNA



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



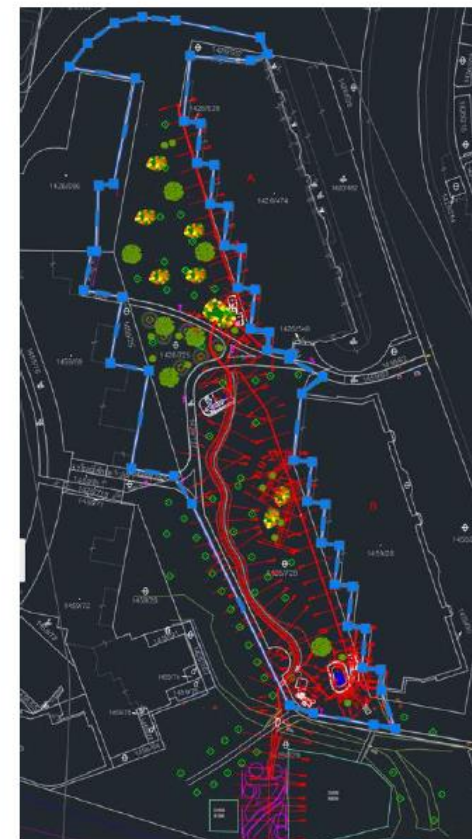
PORSENNA

IKEM



based on a decision of the German Bundestag

Kaskády – projekt zadržania zrážkovej vody a jej využitia



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



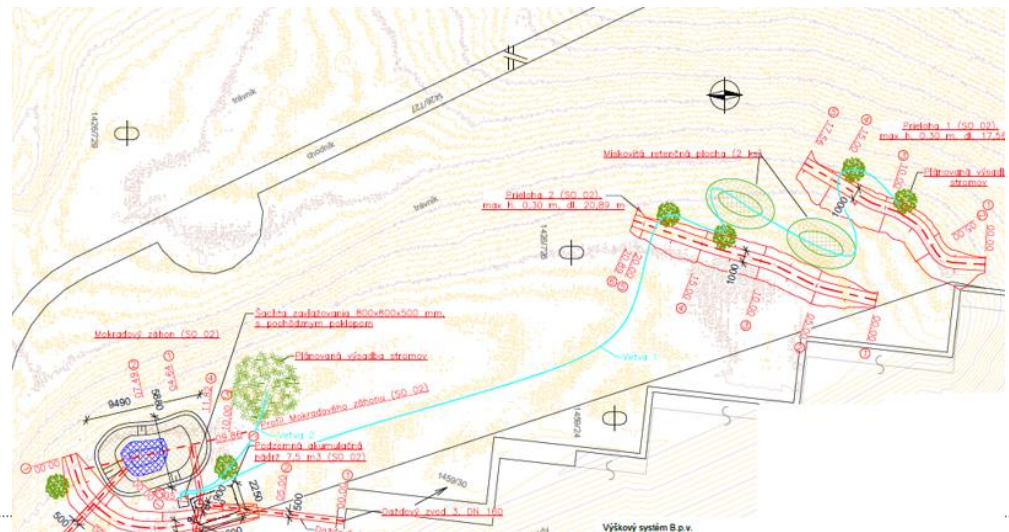
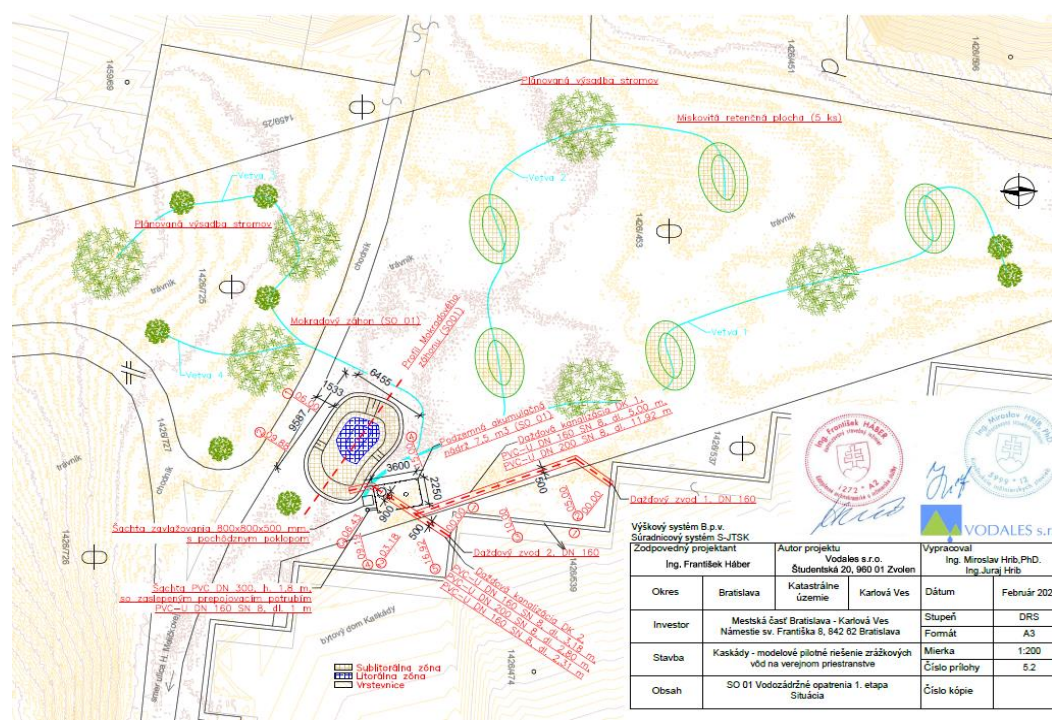
PORSENNA

IKEM



based on a decision of the German Bundestag

- inštalácia podzemných PE plochých nádrží (2 ks) s objemom 7,5 m³
- 2 dažďové záhrady/mokrad'ové záhony
- Terénne modelácie
- 7 retenčných plôch - kvitnúcich lúk o celkovej výmere 34 m² a 85 m²
- Výsadba 21 ks stromov – so závlahou z podzemných nádrží





Supported by:



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA

IKEM



SOZIALER ENERGIEFOTON MANAGEMENT & CO. GMBH



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA



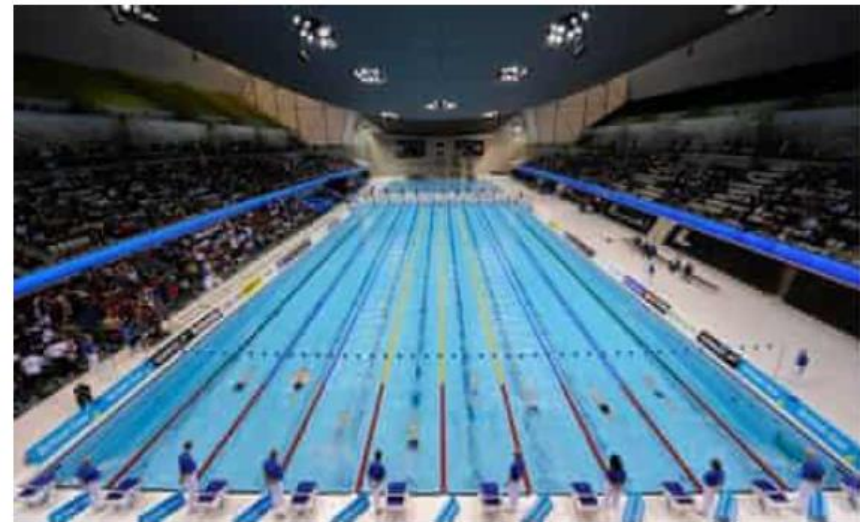
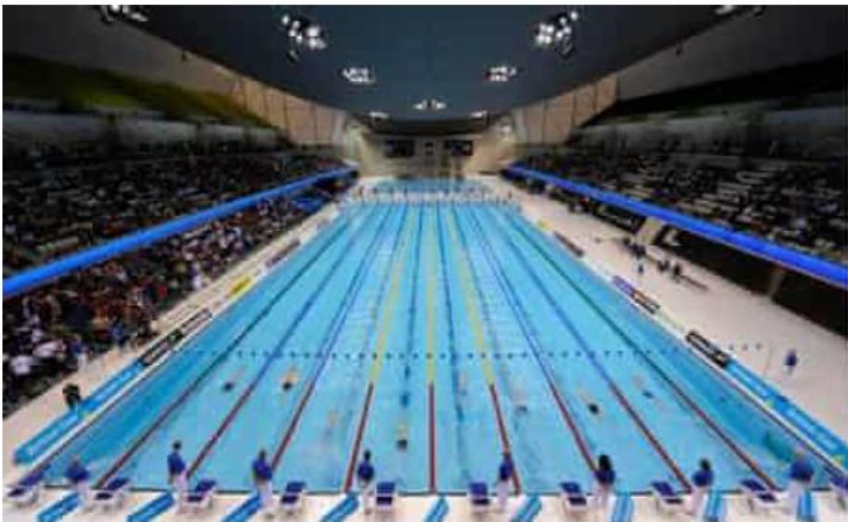
based on a decision of the German Bundestag



Supported by:



based on a decision of the German Bundestag



Posledný 5 ročný priemer dopadu zrážkových vôd pre Bratislavu podľa údajov SHMU je $0,647800 \text{ m}^3/\text{m}^2$ za rok, tak celkový objem na Kaskády dopadnutých dažďových vôd na upravený park a tu na 100% vsiaknutých vôd na lokalite s plochou 7.826 m^2 bude za rok $5.069,68 \text{ m}^3$

2 olympijské bazény

© DHI



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

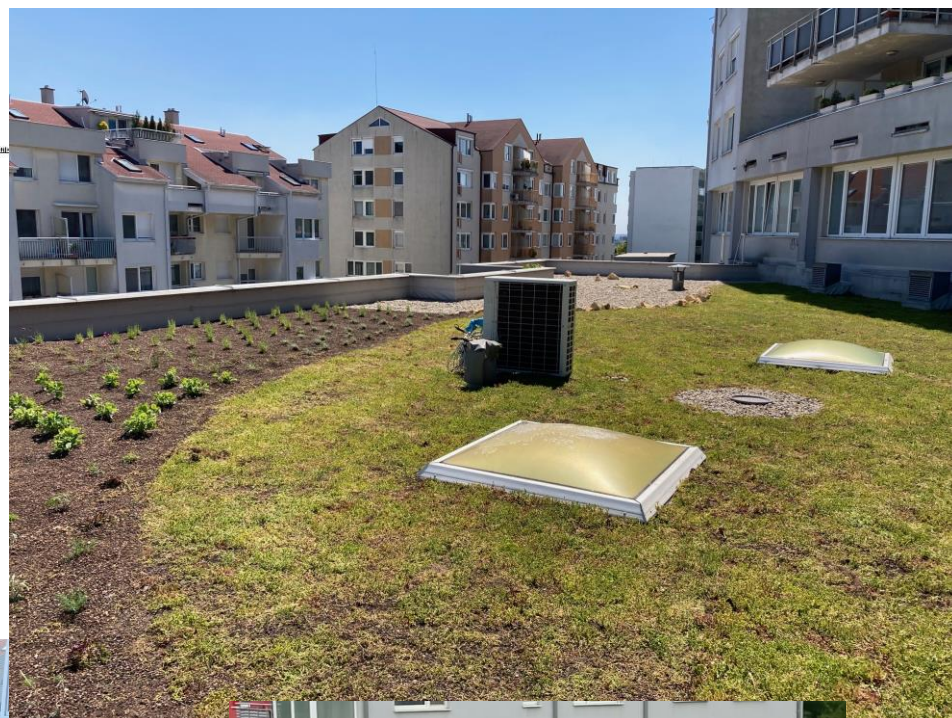
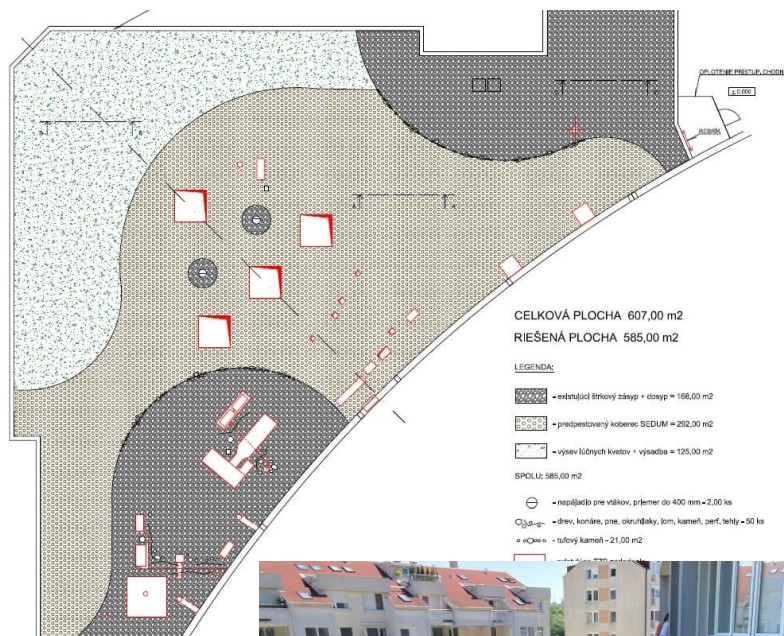


PORSENNA

IKEM



based on a decision of the German Bundestag



Supported by:



based on a decision of the German Bundestag



Supported by:



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

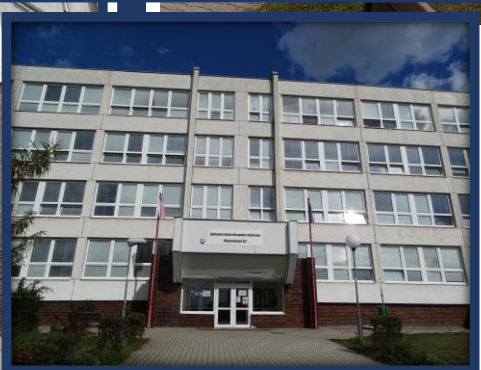


PORSENNA

IKEM



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI

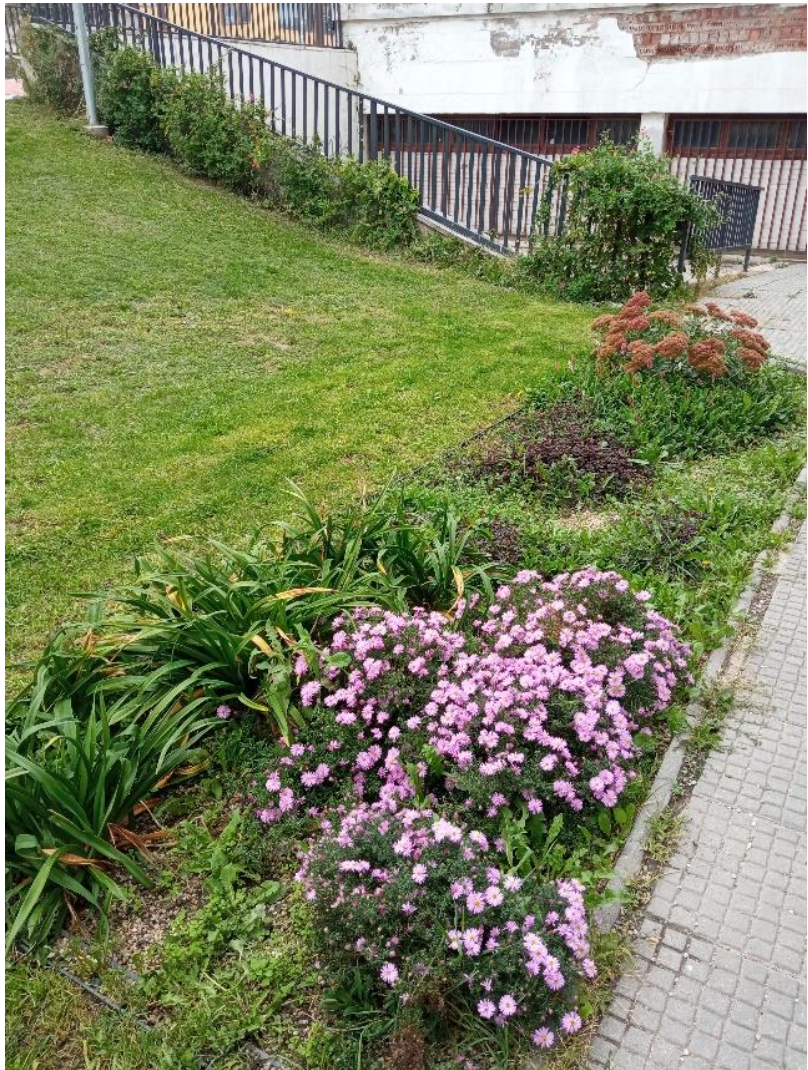


PORSENNA

IKEM



based on a decision of the German Bundestag



Supported by:



based on a decision of the German Bundestag



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA

IKEM



SEMME
SOLAR ENERGY FOR SUSTAINABLE ENERGY



based on a decision of the German Bundestag

Areál základnej školy Petra Škrabáka v Dolnom Kubíne

6 000-litrovú podzemnú nádrž.
vybudovaní dažďovej záhrady,
výsadby drevín, byliniek a kvetov.
Voda z nádrže je čerpaná ručnou
pumpou,
prebytky sú odvádzané do
kanalizácie.

Dažďová voda bola z inej časti
strechy školy presmerovaná do
jazierka.



Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA

IKEM



based on a decision of the German Bundestag

UPD Prešov

- zvyšovať podiel využívania úžitkovej vody pri celkovej spotrebe vody.
- Vodozadržnými opatreniami je potrebné minimalizovať odvádzanie dažďových vôd do verejnej kanalizácie.

Na ochranu zastavaných plôch pred povrchovými vodami je potrebné na okrajoch mesta vo svažitom teréne budovať systém záchytných a odvodňovacích priekop so zaústením vôd povrchovými rigolmi alebo dažďovou kanalizáciou do najbližšieho vodného toku. (Takáto záchytná priekopa je vybudovaná vo svahu nad sídliskom III a nad Poľnou ul. v Nižnej Šebastovej.



Zdroj: https://www.presov.sk/download_file_f.php?id=733230,
<https://www.sutazprevodu.sk/Inspiracie/Riesenia/Sadovnicko-architektonicke-moznosti-vyuzitia-zrazk>

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



European
Climate Initiative
EUKI



PORSENNA

IKEM



based on a decision of the German Bundestag

Dakujem za pozornosť



Zuzana Hudeková, PhD

zunka.hudekova@gmail.com

www.odolnesidliska.sk , www.mitadapt.sk

FB <https://www.facebook.com/resilientdistricts>

FB <https://www.facebook.com/Zelena-infrastruktura>

Supported by:



based on a decision of the German Bundestag