



# Days of Photocatalysis



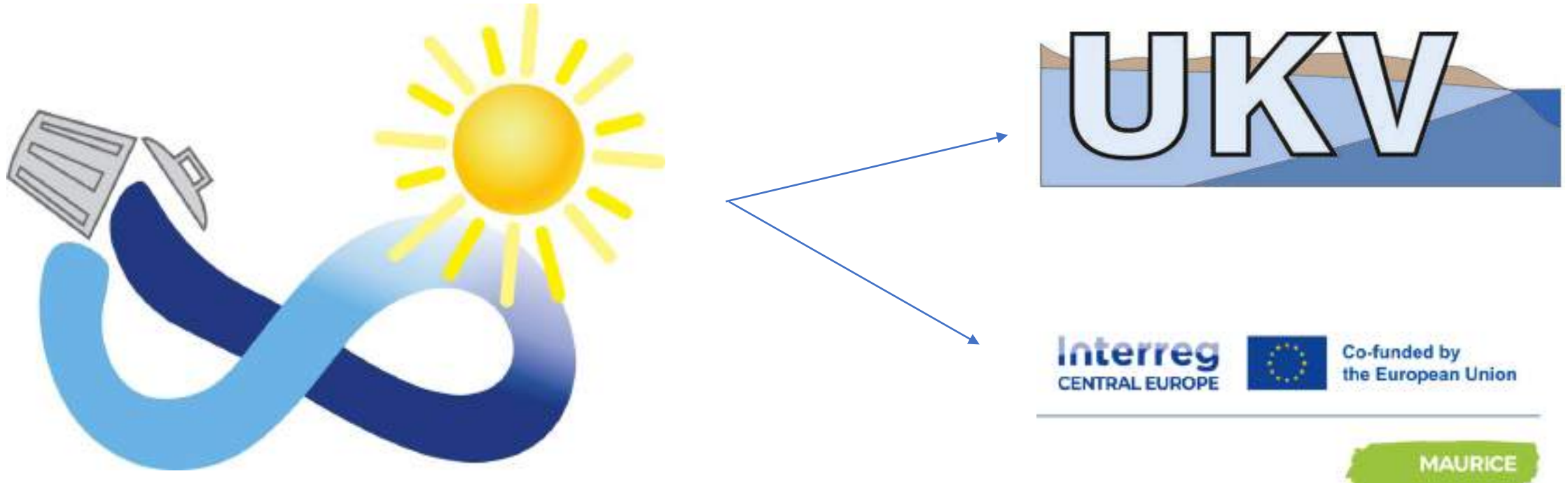
## WIDER MEANING OF OUR ACHIVMENTS – PROJECT NETWORKING

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## ➤ OS-Mi NETWORKING

- **NETWORKING** - the process of interacting with others to share and exchange ideas and information, as well as develop professional or social contacts who can contribute to your growth and talent.
- **OS-Mi NETWORKING** – the process of interacting with other projects to share and exchange ideas and information, as well as equipment and activities that can contribute to project growth and wider goals



➤ **“Management of coastal karst aquifer threatened by climate change.”**  
**KK.05.1.1.02.0022 – Financed by European Union**

- Lead partner: Faculty of Geotechnical Engineering, University of Zagreb



**PROJECT ACTIVITIES**



Sveučilište  
u Rijeci  
Građevinski  
fakultet

„UPRAVLJANJE KRŠKIM PLOVALNIM VODOHOSIČIMA UGROŽENIMA KLIMATSKIM PROMJENAMA (UKV)“ – KK.05.1.1.02.0022  
PROJEKT SUFINANCIRAN EUROPSKIM LINIJOM IZ EUROPSKOG FONDZA ZA REGIONALNI RAZVOJ





## ➤ CONNECTION OS-Mi & UKV



Bokanjac B4



Boljkovac

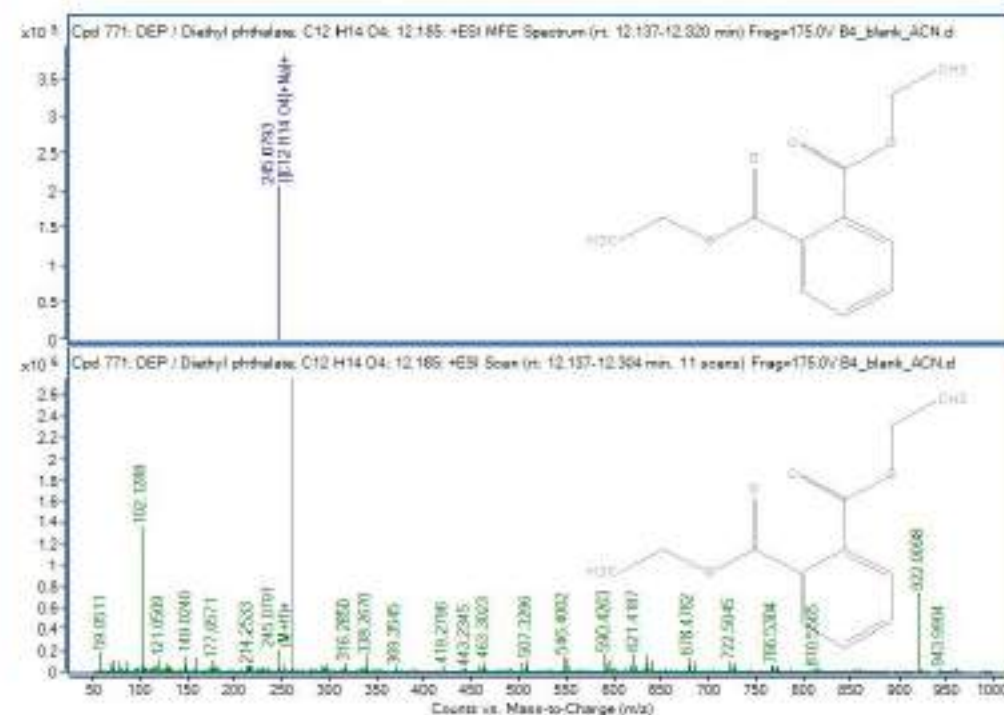
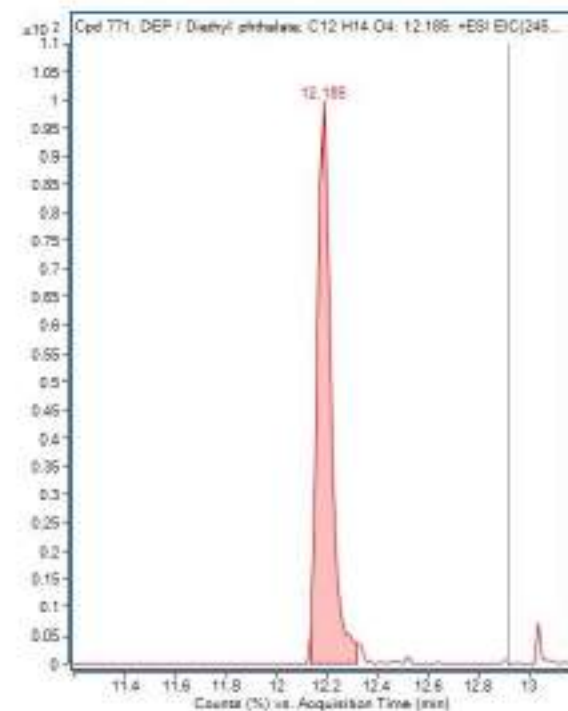
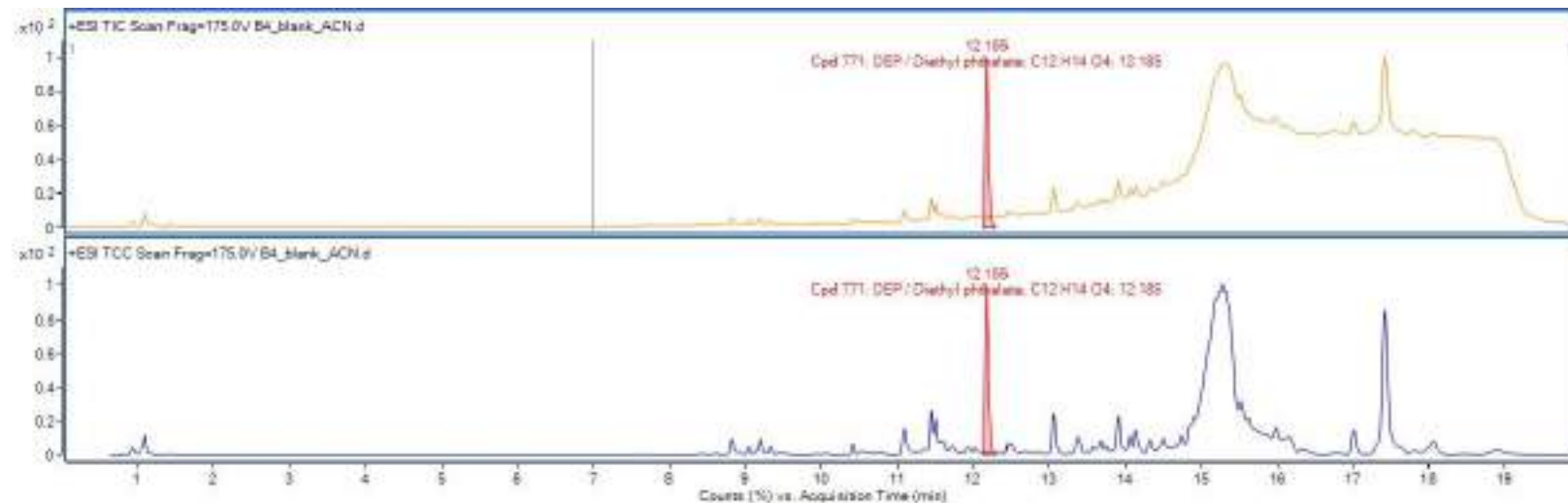


Jezerce

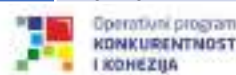


## ➤ CONNECTION OS-Mi & UKV

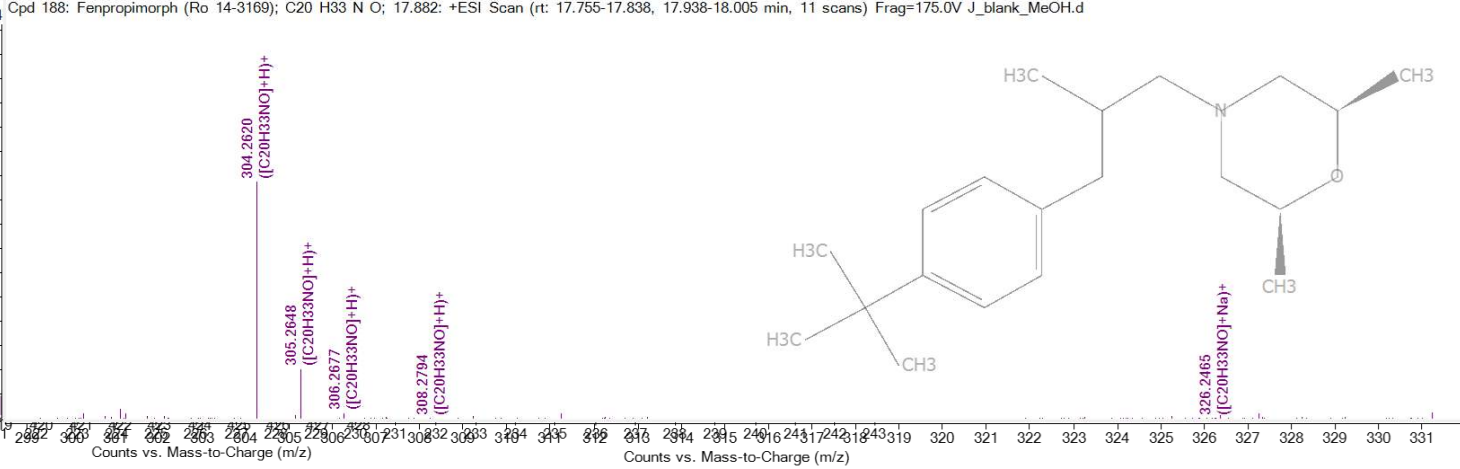
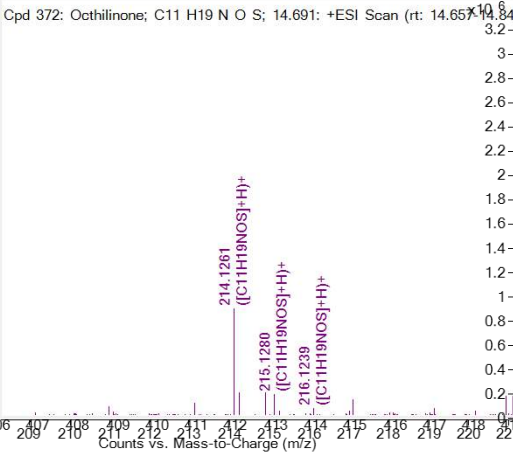
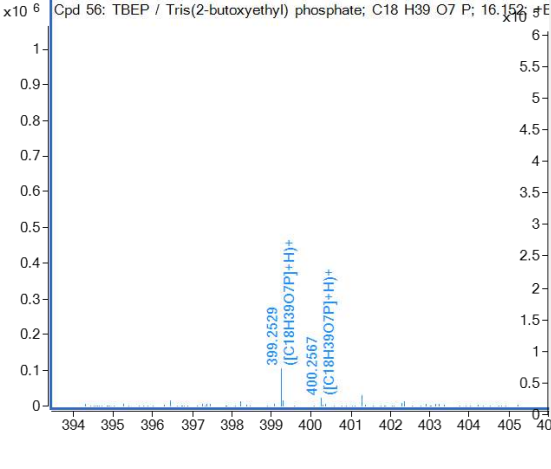
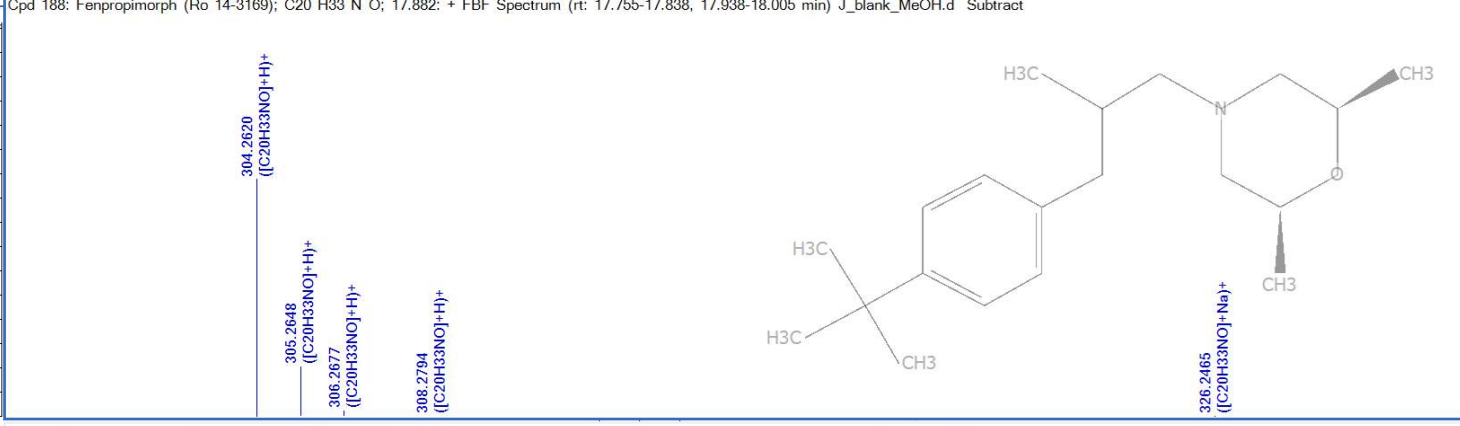
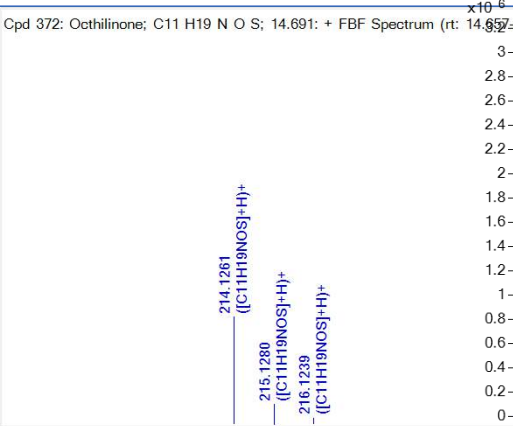
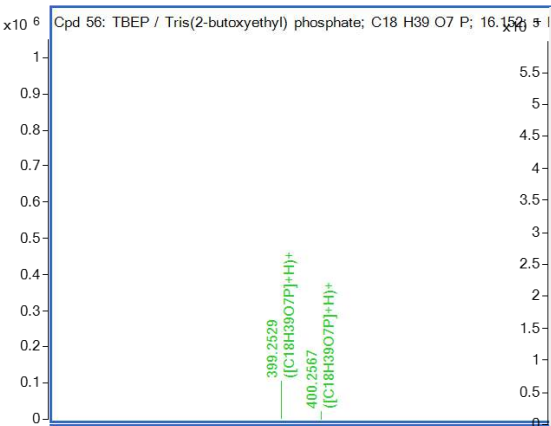
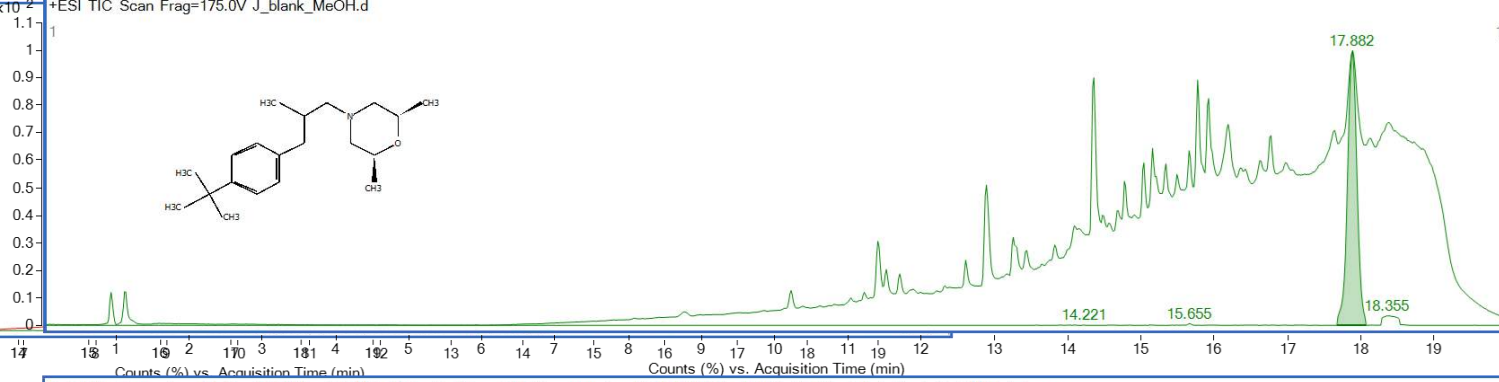
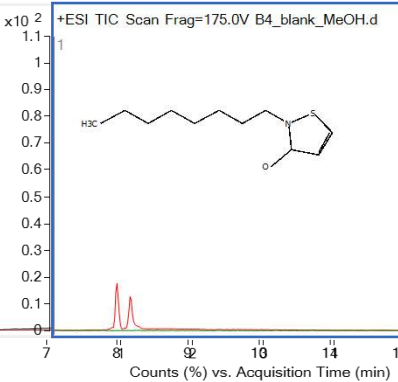
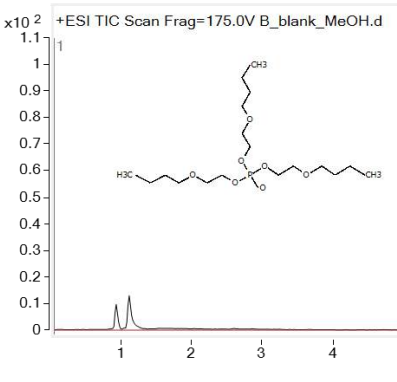
- As part of the project “Management of karst coastal aquifers threatened by climate change”, a database was purchased with which groundwater samples from the pilot area can be analyzed and micropollutants can be detected. Before acquiring the database, 7 compounds of new pollutants in water were read, while with the help of the database, as many as 442 compounds were detected.



Compound	Formula	Used for/in...
Fenpropimorph	C <sub>2</sub> O <sub>H</sub> <sub>3</sub> NO	Human Pharmaceuticals, Pesticide, Fungicide, Veterinary Pharmaceutical
Dioxybenzone (Benzophenone-8)	C <sub>14</sub> H <sub>12</sub> O <sub>4</sub>	Human Pharmaceuticals, dermatitis, UV filter
Neostigmine	C <sub>12</sub> H <sub>19</sub> N <sub>2</sub> O <sub>2</sub>	Human Pharmaceutical
Acephate	C <sub>4</sub> H <sub>10</sub> NO <sub>3</sub> PS	Human Pharmaceuticals, Pesticide, Veterinary Pharmaceutical
Lamivudine	C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S	Pharmaceutical, antiviral agent
Sulfaquinoxaline	C <sub>14</sub> H <sub>12</sub> N <sub>4</sub> O <sub>2</sub> S	Human Pharmaceuticals, Pesticide, Rodenticide, Veterinary Pharmaceutical
Spiroxamine	C <sub>18</sub> H <sub>35</sub> NO <sub>2</sub>	Human Pharmaceuticals, Pesticide, Fungicide, Veterinary Pharmaceutical
Oxycodone-d3	C <sub>18</sub> H <sub>18</sub> D <sub>3</sub> NO <sub>4</sub>	Pharmaceutical
DEHA Di(2-ethylhexyl) adipate	C <sub>22</sub> H <sub>42</sub> O <sub>4</sub>	Plasticizer
2-(4-Morpholinyl)benzothiazole	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> OS	Pollution from vulcanizers accelerator
TCP	C <sub>9</sub> H <sub>18</sub> Cl <sub>3</sub> O <sub>4</sub> P	Flame retardant, Plasticizer
Tri-(2-chloroisopropyl)phosphate		
Octhilinone	C <sub>11</sub> H <sub>19</sub> NOS	Pharmaceutical, Pesticide, Fungicide
DEP Diethyl phthalate	C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>	Pharmaceutical, Plasticizer
3,4,5-Trimethacarb	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub>	Pharmaceutical, Pesticide, Insecticide
TBP Tributylphosphate	C <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	Pharmaceutical, Pesticide, Plasticizer
Chlorhexidine	C <sub>22</sub> H <sub>30</sub> Cl <sub>2</sub> N <sub>10</sub>	Pharmaceutical, Disinfections
IPC Propham	C <sub>10</sub> H <sub>13</sub> NO <sub>2</sub>	Pharmaceutical, Pesticide, Herbicide, Veterinary Pharmaceutical
TEA Triethylamine	C <sub>6</sub> H <sub>15</sub> N	Pesticide, Stabilizer in carpet cleaning products, Detergents
DBPDi-n-butylphthalate (Dibutyl phthalate)	C <sub>16</sub> H <sub>22</sub> O <sub>4</sub>	Repellent, Plasticizer, Antiparasitic medicine
Dimethyl phthalate	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	Pharmaceutical, Pesticide
N-Butylbenzenesulphonamide (N-Butylbenzenesulfonamide)	C <sub>10</sub> H <sub>15</sub> NO <sub>2</sub> S	Plasticizer
TPPA Triphenyl phosphate	C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P	Pharmaceutical, Pesticide
9-Octadecenamide (Oleamide)	C <sub>18</sub> H <sub>35</sub> NO <sub>2</sub>	Pharmaceutical
Azithromycin	C <sub>38</sub> H <sub>72</sub> N <sub>2</sub> O <sub>12</sub>	Pharmaceutical, Veterinary medicine, Macrolide
TBEP Tris(2-butoxyethyl) phosphate	C <sub>18</sub> H <sub>39</sub> O <sub>7</sub> P	Flame retardant
Octocrylene	C <sub>24</sub> H <sub>27</sub> NO <sub>2</sub>	Sunscreen, UV filter
Menthol	C <sub>10</sub> H <sub>20</sub> O	Aesthetic







## Project management



Lead Partner

### Central Mining Institute

Department of Water Protection

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## Project partnership



Partner

### Municipality of Jaworzno city



Partner

### Polytechnic University of Milan



Partner

### Faculty of Geotechnical Engineering, University of Zagreb



Partner

### State Capital of Stuttgart



Partner

### East Ticino Villoresi Reclamation and Irrigation Consortium



Partner

### City Municipality Varaždin



Partner

### The City of Novy Bydzov



Partner

### Geological survey of Slovenia



Partner

### Technical university of Liberec



Partner

### Ljubljana Waterworks and Sewerage





## ➤ CONNECTION OS-Mi & MAURICE



River Drava – sample point on OS-Mi project



River Drava as a part of Varaždin aquifer – case study on MAURICE project

Input data on surface water of Drava river

Groundwater quality of Varaždin aquifer

# Thank you for the attention!



Projekt OS - Mi

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<https://www.ukv-projekt.eu/>

Interreg  
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MAURICE

