

# **WP 3 the Tisza River Basin Characterisation-Surface Water**

**Activity 3.5 Evaluation of the significant  
water management issues and proposal of  
effective measures**

**Progress in urban wastewater and  
industrial sectors by 2015**

## **Annex 1**

**Tisza River Basin Management Plan - Update 2015**

**Questionnaires No 1 and 2**

## Questionnaire No. 1

| Country        | Basic / supplementary measures   |   |                                   |  |   |   |   |   | Remarks                               |                 |
|----------------|--|---|-----------------------------------|--|---|---|---|---|---------------------------------------|-----------------|
|                | UWWTD implementation   |   |                                   |  |   | IED and BAT   |   | P-free Detergents Applied (% plants)                    |                                       | Others measures |
|                | Agglomerations >10,000 PE (and year)   | Sensitive areas %                         | Estimated total costs (mil. Euro) | Funding sources (mil. Euro)  |   | Status of implementation (% plants)   |   |   |                                       |                 |
|                |  |   |                                   | EU   | National  |   |   |   |                                       |                 |
| Ukraine (2010) | Uzhgorod<br>Mukacheve<br>Khust<br>Vynogradiv<br>Beregovo<br>Svalyava<br>Rakhiv<br>Mizhgirrya |   |                                   |  |   |   |   |   | UWWTD implementation didn't start yet |                 |
| Romania        | 2015 (2018 for agglomerations between 2000 - 10,000 PE)                                      | Whole territory<br>Art 5 (2)<br>Art 5 (8) | 1283.410                          | 826.16 mil. Euro of which:<br>- 531.42 mil. Euro Cohesion Funds in the frame of the Sectoral Operational Program for | 457.25 mil. Euro of which:<br>- 224.1 mil. Euro National co-finance for EU Funds;<br>- 41.56 mil. Euro Loans from different International | 200 (94%) IED units with implemented measures relevant for waters (of a total of 212 IED units) | The accelerated decrease in trend of P in AWM detergents is continuing in period 2006-2015 [study GfK and PwC]. The EU Regulation | Measures are proposed in the framework of the RBM Plans | In progress                           |                 |

| Country | Basic / supplementary measures       |                   |                                   |  |   |                                     |  |                 | Remarks |
|---------|--------------------------------------|-------------------|-----------------------------------|--|---|-------------------------------------|--|-----------------|---------|
|         | UWWTD implementation                 |                   |                                   |  |   | IED and BAT                         | P-free Detergents Applied (% plants)   | Others measures |         |
|         | Agglomerations >10,000 PE (and year) | Sensitive areas % | Estimated total costs (mil. Euro) | Funding sources (mil. Euro)  |   | Status of implementation (% plants) |  |                 |         |
| EU      |                                      |                   |                                   | National   |   |                                     |  |                 |         |
|         |                                      |                   |                                   | Environment 2009-2013; - 116.44 mil. Euro<br>Structural Funds in the Frame of European Funds for Agriculture; - 1 mil. Euro<br>Structural Funds in the Frame of European Funds for Regional Development; -177.3 mil. Euro pre-accession funds (ISPA, PHARE, SAMTID, etc.): | Finance Institutions for the period 2006-2015; - 161.05 mil. Euro<br>National funds from governmental budget and local budget; - 30.34 mil. Euro<br>wastewater operators sources; - 0.2 mil. Euro<br>Private Public Partnership |                                     | No 259/2012 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents is continuously implemented since Romania should comply with the EU Regulations. |                 |         |

| Country  | Basic / supplementary measures       |                   |                                   |                             |    |   |   |                 | Remarks  |
|----------|--------------------------------------|-------------------|-----------------------------------|-----------------------------|----|---|---|-----------------|--|
|          | UWWTD implementation                 |                   |                                   |                             |    | IED and BAT   | P-free Detergents Applied (% plants)  | Others measures |  |
|          | Agglomerations >10,000 PE (and year) | Sensitive areas % | Estimated total costs (mil. Euro) | Funding sources (mil. Euro) |    | Status of implementation (% plants)                                     |   |                 |  |
| EU       |                                      |                   |                                   | National                    |    |   |   |                 |  |
| Slovakia | 18 (2010*)                           | 100               | 328                               | 236                         | 92 | In implementation, continuous improvement corresponding to updating BAT | REGULATION (EU) No 259/2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents is binding in its entirety and directly applicable in all EU | According RBMPs | *SK transition period for implementation of Art. 5.2 UWWTD |

| Country | Basic / supplementary measures       |                   |                                   |                             |          |                                     |  |                                      | Remarks  |                 |
|---------|--------------------------------------|-------------------|-----------------------------------|-----------------------------|----------|-------------------------------------|--|--------------------------------------|--|-----------------|
|         | UWWTD implementation                 |                   |                                   |                             |          | IED and BAT                         |  | P-free Detergents Applied (% plants) |  | Others measures |
|         | Agglomerations >10,000 PE (and year) | Sensitive areas % | Estimated total costs (mil. Euro) | Funding sources (mil. Euro) |          | Status of implementation (% plants) |  |                                      |  |                 |
|         |                                      |                   |                                   | EU                          | National |                                     |  |                                      |  |                 |
|         |                                      |                   |                                   |                             |          |                                     | Member States. It establishes limitations on the content of phosphates and other phosphorus compounds in consumer laundry detergents from 30.6.2013 and in consumer automatic dishwasher detergents from 1.1.2017. |                                      |  |                 |
| Hungary | 78 (in 2016)                         | 5,4               | no data                           | no data                     | no data  | 100                                 | 100  | -                                    | Rate of P-free detergents refers to the implementation |                 |

| Country | Basic / supplementary measures                                      |                             |                                   |                             |         |  |  |                                      | Remarks  |                 |
|---------|---|-----------------------------|-----------------------------------|-----------------------------|---------|--|--|--------------------------------------|--|-----------------|
|         | UWWTD implementation  |                             |                                   |                             |         | IED and BAT  |  | P-free Detergents Applied (% plants) |  | Others measures |
|         | Agglomerations >10,000 PE (and year)                                | Sensitive areas %           | Estimated total costs (mil. Euro) | Funding sources (mil. Euro) |         | Status of implementation (% plants)                                    |  |                                      |  |                 |
| EU      |   |                             |                                   | National                    |         |  |  |                                      |  |                 |
|         |   |                             |                                   |                             |         |  |  |                                      | of EU Regulation No 259/2012, by the end of 2016 every IED facilities with pollutant emissions directly discharged into surface water have applied BAT |                 |
| Serbia  | two agglomerations: Vrbas (with Kula) 50,000PE, Subotica 110,000 PE | To be identified till 2021. | Unknown                           | Unknown                     | Unknown | in TRB only two installations have IPPC permission, very slow progress | Legislation harmonized with the Regulation on detergents has been in force since 2010. P-free detergents are partially in use. |                                      | UWWTD and IED are not fully transposed in national legislation   |                 |

| Country | Basic / supplementary measures             |                      |   |                             |          |   |   |                    | Remarks |
|---------|--|----------------------|---|-----------------------------|----------|---|---|--------------------|---------|
|         | UWWTD implementation                       |                      |   |                             |          | IED and BAT                               | P-free<br>Detergents<br>Applied (%<br>plants) | Others<br>measures |         |
|         | Agglomerations<br>>10,000 PE<br>(and year) | Sensitive<br>areas % | Estimated<br>total<br>costs<br>(mil.<br>Euro) | Funding sources (mil. Euro) |          | Status of<br>implementation<br>(% plants) |   |                    |         |
|         |  |                      |   | EU                          | National |   |   |                    |         |
|         |  |                      |   |                             |          |   | No data on<br>plants<br>number.               |                    |         |

## Questionnaire No. 2

| Country | No of agglomerations for which WWTP will be constructed, upgraded or extended as indicated in the JPM of the 1 <sup>st</sup> TRBM Plan | Generate d load | Cost        | IMPLEMENTATION STATUS BY END 2015<br>(reference to measures as agreed on national level) |                      |              |                       |              |              |                      |                      | Comment  |
|---------|--|-----------------|-------------|--|----------------------|--------------|-----------------------|--------------|--------------|----------------------|----------------------|--|
|         |  |                 |             | Not started  | Ongoing              |              |                       |              | Completed    |                      |                      |  |
|         |  |                 |             |  | Planning ongoing     |              | Construction ongoing  |              | No of agglom | Generate d load (PE) |                      |  |
|         |  | PE              | Euro        | No of Agg lo m.  | Generat ed load (PE) | No of agglom | Generat ed nload (PE) | No of agglom |              |                      | Generate d load (PE) |  |
| Ukraine | 0  |                 |             |  |                      |              |                       |              |              |                      |                      | UWWTD implementation didn't start yet.   |
| Romania | 368  | 4,503,391       | 924,893,455 | 22   | 62,829               | 67           | 757,113               | 173          | 1,883,345    | 106                  | 1,800,104            | This situation is a result of the rearrangement of agglomerations delineation due to the reconsideration of the priorities and funding according to the updated County Master Plans and local strategies. As a consequence, in comparison with the baseline scenario presented |



| Country  | No of agglomerations for which WWTP will be constructed, upgraded or extended as indicated in the JPM of the 1 <sup>st</sup> TRBM Plan | Generate d load  | Cost     | IMPLEMENTATION STATUS BY END 2015<br>(reference to measures as agreed on national level) |                      |              |              |                      |                       |              |                      | Comment   |
|----------|--|------------------|----------|--|----------------------|--------------|--------------|----------------------|-----------------------|--------------|----------------------|---|
|          |  |                  |          | Not started  | Ongoing              |              |              |                      | Completed             |              |                      |   |
|          |  | Planning ongoing |          |  | Construction ongoing |              | No of agglom | Generate d load (PE) |                       |              |                      |   |
|          |  | PE               | Euro     | No of Agg lo m.  | Generat ed load (PE) | No of agglom |              |                      | Generat ed nload (PE) | No of agglom | Generate d load (PE) |   |
|          |  |                  |          |  |                      |              |              |                      |                       |              |                      | in the Annex 3 of the 1st TRBM, the number of agglomerations between 2000-10000 p.e. changed (412 instead of 663 agglomerations).   |
| Slovakia | 74*  | 731 920          | 150 mil. | 8  | 31 233               | 8            | 46 341       | 14                   | 146 359               | 44           | 507 987              | * No of agglomerations in which WWs are not collected and not treated or not collected and not treated or partially treated. According the Annex 13 ITRBMP we indicated, that WW disposal in 14 agglomerations in the |

| Country | No of agglomerations for which WWTP will be constructed, upgraded or extended as indicated in the JPM of the 1 <sup>st</sup> TRBM Plan | Generate d load  | Cost | IMPLEMENTATION STATUS BY END 2015<br>(reference to measures as agreed on national level) |                      |              |              |                      |                       |              |                      | Comment   |
|---------|--|------------------|------|--|----------------------|--------------|--------------|----------------------|-----------------------|--------------|----------------------|---|
|         |  |                  |      | Not started  | Ongoing              |              |              |                      | Completed             |              |                      |   |
|         |  | Planning ongoing |      |  | Construction ongoing |              | No of agglom | Generate d load (PE) |                       |              |                      |   |
|         |  | PE               | Euro | No of Agg lo m.  | Generat ed load (PE) | No of agglom |              |                      | Generat ed nload (PE) | No of agglom | Generate d load (PE) |   |
|         |  |                  |      |  |                      |              |              |                      |                       |              |                      | TRB was considered to be satisfactory.<br>** Investment cost from 2007 -2015; estimation based on available data of realised project investment costs for collecting systems and UWWTPs         |
| Hungary | 280*   | 4.133.282        | n.d. | 5  | 15.388               | 18           | 57.304       | 0                    | 0                     | 257          | 4.060.590            | Data refers to year 2016 (for agglomerations above 2000 PE). PE data is estimated for not started and planning ongoing statuses.<br>* Contrary to the 1st TRBM, different data is given for the |

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|---------|--|-----------------|------|--|----------------------|--------------|-----------------------|--------------|--------------|----------------------|----------------------|---|
|         |  |                 |      | Not started  | Ongoing              |              |                       |              | Completed    |                      |                      |   |
|         |  |                 |      |  | Planning ongoing     |              | Construction ongoing  |              | No of agglom | Generate d load (PE) |                      |   |
|         |  | PE              | Euro | No of Agg lo m.  | Generat ed load (PE) | No of agglom | Generat ed nload (PE) | No of agglom |              |                      | Generate d load (PE) |   |
|         |  |                 |      |  |                      |              |                       |              |              |                      |                      | total number and PE of agglomerations because new ones have been delineated since 2005. |
| Serbia  | 2 agglom. >10,000PE: Vrbas (with Kula), Subotica, and 3 agglomerations from 2,000-10,000 PE: Ada (with Mol), Zitiste,                  | 171,500         | NA   | NA   | NA                   | NA           | NA                    | NA           | NA           | 5                    | 171,500              |   |

[illegible]