

Trans-Regional Environmental Awareness for Sustainable Usage of Water Resources (TREASURE-WATER)

**Институциональное партнерство в целях устойчивости
трансграничного водопользования: Россия и Казахстан»**

Project Erasmus+ № 561775-EPP-1-2015-1-DE-EPPKA2-CBHE-JP

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TREASURE-WATER

Project Erasmus+ № 561775-EPP-1-2015-1-DE-EPPKA2-CBHE-JP

Duration: 3 years

Project finance: 996 522 Euro

Coordinators:

From the EU:

Prof. Dr. Ralf Reski, Albert-Ludwigs University of Freiburg (Germany)

Prof. Dr. Dr.hc., Edgar Wagner, Albert-Ludwigs University of Freiburg (Germany)

From PC:

Prof. Dr. Dr.hc., G. V. Telegina, Tyumen State University

The Goal of the Project

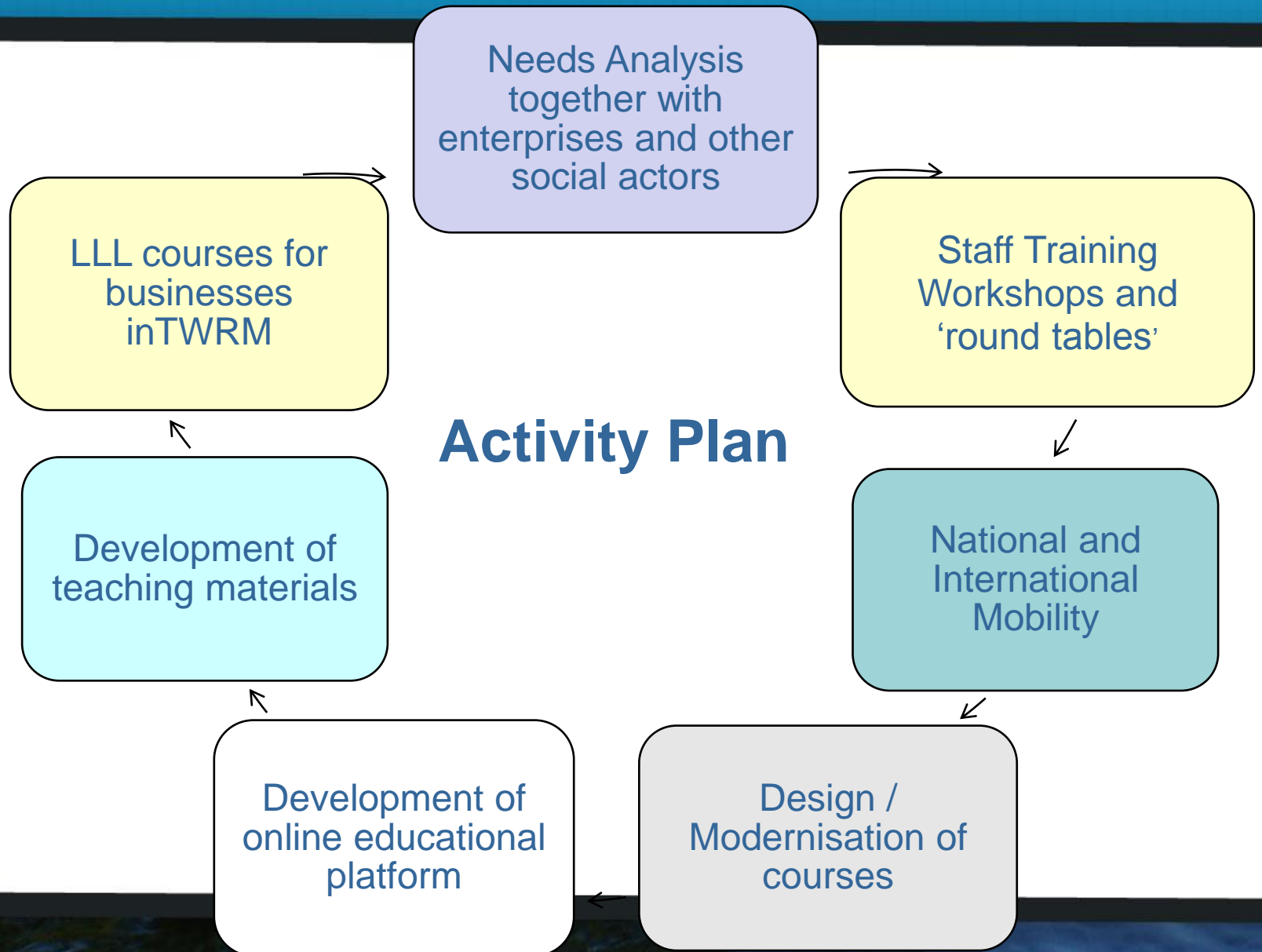
to contribute to **capacity building** of institutions of HE in Russia and Kazakhstan by strengthening educational **partnership between universities and enterprises** in the area of **management of transboundary water resources**, building on regionally-specific national and EU standards



Co-funded by the
Erasmus+ Programme
of the European Union

Specific Objectives

- To develop a trans-institutional model for interaction between HEIs and enterprises in the field of TWRM;
- To enhance teaching capacities of the PC HEIs via teacher training, new courses and modern equipment;
- To empower enterprises in the Water Sector in the PCs by developing support tools and staff training;
- To raise awareness of water problems;
- To create potential for internationalization



Major Impacts

- a dynamic model of cooperation between universities and other social actors in the field of TWRM developed and probated
- 4 data bases on TWRM produced
- 4 catalogues of the purchased books and software designed;
- the e-learning labs and resource centres equipped at all partner universities
- 155 staff trained;
- 24 new courses with supporting teaching materials based on the ECTS introduced in professional training of specialists
- equipped
- graduate and post-graduate programmes enriched with WTRM modules
- 12 new curricula for professional re-training
- the e-learning platform set up for LLL
- 12 modules adapted for distance learning;
- 6 user guides developed
- and the data bases updated 4 times a year
- 12 partnership agreements signed
- 10 cooperation agreements signed

The PC Partners

Russia:

- **Tyumen State University**, Tyumen (Russia) (non-EU partner coordinator)
- **Altai State University**, Barnaul (Russia)
- **Tomsk State University**, Tomsk (Russia)
- **Yugra State University**, Khanty-Mansiisk (Russia)
- **East-Kazakhstan State University**, Ust-Kamenogorsk (Kazakhstan)
- **Eurasian National University**, Astana (Kazakhstan)
- Tyumen Municipal Company **Vodokanal LLC**, Tyumen (Russia)
- **Institute for Water and Ecology Problems**, Barnaul (Russia)



Associated Partners

- Tyumen Region Government Department for the Use of Natural Resources and Ecology (DNRUE), Tyumen, RF
- Tyumen Region Government Department for Education and Science (DESLLC)
- EcoGeoService, Tyumen, RF
- Directorate of the Federal Supervisory Natural Resources Management Service (ROSPRIODNADZOR), Altai Region, RF
- Directorate of Natural Resources and Environment for the Altai Region, RF
- The Joint Stock Ob-Irtysh Navigation Company, Tyumen, RF

Work Packages (1)

WP.1 Preparatory measures for the start-up of the project: **ALU, TyuSU**

1.1 Legal framework of the consortium

1.2. The kick-off of the project

1.3. Formation of the Interdisciplinary Working Groups (IWG)

WP.2 Design of methodology for TWRM and IALP: ALU, TSU, ENU

2.1. A knowledge pool for TWRM created

2.2. Methodology for TWRM developed

2.3. Strategy for interaction with industry designed

WP.3 Industry-Academia Teaching Task Force' (IATTF) created: RUN, IWEF, ASU

3.1. Academic staff from the PC universities and industry trained

3.2. Teaching environment at PC institutions modernised

Work Packages (2)

WP 4. The curricula and courses in TWRM for training of industry partners designed: AUTH, TyuSU, ENU

4.1. The syllabi and course plans agreed and confirmed

4.2. ECTS based courses developed/ modernized

4.3. A digital library of course materials created

WP 5. An e-learning interactive capacity developed: UoW, EKSU

5.1. The e-learning platform designed and installed

5.2. User manuals prepared

5.3. The academic content developed

WP 6. Implementation of the training courses on TWRM: UA, YuSU, TyuSU, ENU

6.1. Training courses for industry partners in operation

6.2. The TWRM modules integrated into post-graduate curricula at PC

Work Packages (3)

WP 7. Efficient **Quality control** and monitoring of the project: **ASU, ALU**

WP 8. Project results **dissemination**: **ALU, ENU**

WP 9. Efficient **Management** of the project: **ALU, TyuSU**



WP.1 Preparatory measures for the start-up of the project: ALU, TyuSU

- 1.1 The PA was signed; internal documentation regulating role distribution, responsibilities and structures on the institutional level signed by the rectors.
 - 1.2. The kick-off of the project: at TyuSU in March 2016: work plan revised; a grant management workshop organized; the communication strategy discussed.
 - 1.3. Inter-disciplinary Working Groups (IWG) set up on a vertical level (in each PI), and on the horizontal level (trans-institutional WG), each centred around a specific task; their members trained at seminars, workshops and discussion sessions.
- The Project Management Board (PMB) set up, and is available on the project websites: <http://treasure-water.eu/>; <https://www.utmn.ru/riic/eng/eu-projects/erasmus/>

WP.2 Design of methodology for TWRM and IALP: intermediary results (1)

- **Consultations at the ASU with potential employers**, e.g. representatives of The Directorate for Management of the Upper-Ob river watershed, Laboratory for Landscape and Water Research at the Institute for Water and Environmental Problems of the Russian Academy of Sciences', Department for Management of Water Resources in the Altai Region, the Altai Centre for Hydrometeorology and Environmental management, etc.

Similar round tables and discussions were held at ENU, TSU and YuSU (full list of events available on PWS)

WP.2 Design of methodology for TWRM and IALP: intermediary results (2)

2.1. An interdisciplinary knowledge pool for transboundary water resources management (TWRM) created

- a questionnaire jointly designed, the needs analysis carried out; report available on the project websites;
- a 'puzzle catalogue' of the relevant for TWRM courses at PC universities created;
- TWRM-specific qualifications framework designed, incorporating experience of previous EU projects: <http://www.qualfeem.org/qualfeem/ProjectOutcome.php>
<http://www.omgau.ru/international/programs/elfrus/#about>
- information resources partially compiled, including 4 data bases on: key actors in the water management sector in RF and KZ; legislation, policies and practices in TWRM; technologies of water management; ecological and socio-economic issues: <http://public.edu.asu.ru/course/view.php?id=185>.

All resources (in Russian, with English summaries) are available on the Moodle platform at ASU, to be later mirrored on the platforms of each PI.

WP.2 Design of methodology for TWRM and IALP: intermediary results (2)

- 2.2; 2.3 On the basis of the good practices identified in discussions with the EU partners, the strategy for establishing IALPs developed, built around a continuous dialogue with relevant stakeholders in the form of round table discussions, consultations and regular surveys (full list available on PWS).
- This enhanced awareness of comparative contexts for TWRM and increased mutual understanding.
- The results of WP 2 summed-up in a workshop at ASU (Feb.2017).

WP.3 Industry-Academia Teaching Task Force' (IATTF) created: RUN, IWEF, ASU

3.1. - Local retraining of staff undertaken by all PCIs

- Training of the PC staff at the workshop at AUTH (24th April-5th May 2017 – 14 PC participants)

- Training of the PC staff at the workshop at UoW (26th June -9th July 2017 – 7 PC participants)

3.2 Equipment modernisation in progress

WP 4. The curricula and courses for training of industry partners designed: AUTH, TyuSU, ENU

4.1. The list of demand-driven courses for water industry confirmed (available online);

4.2. Methodology for the syllabi and course plans for 6 modules, including 24 ECTS based courses partially developed/modernized; experience from other EU projects (e.g. TEMPUS 159325-2009, TEMPUS-2617-2005, TEMPUS 530690-2012) used in development of QF and syllabi).

4.3 With participation of employers a new curriculum for the graduate programme 'Usage and Protection of Water Resources' designed and running at ASU.

WP 5. An e-learning interactive capacity developed: UoW, EKSU

- 5.1. An e-platform for blended learning with a digital library of materials created as a working version at ASU for all participants.
- 5.2. A User manual for the e-learning platform available online.
- 5.3. Development of academic content for e-learning in progress.

WP 7. Efficient Quality control and monitoring of the project: ASU, ALU

- Monitoring of the project by the Kazakh National Erasmus+ Office (April 2016) at ENU
- Monitoring of the project by the Russian National Erasmus+ Office (May 2016) at TSU
- Project Intermediary Technical report sent to EACEA
- Quality Plan available on the project website:
<http://treasure-water.eu/>

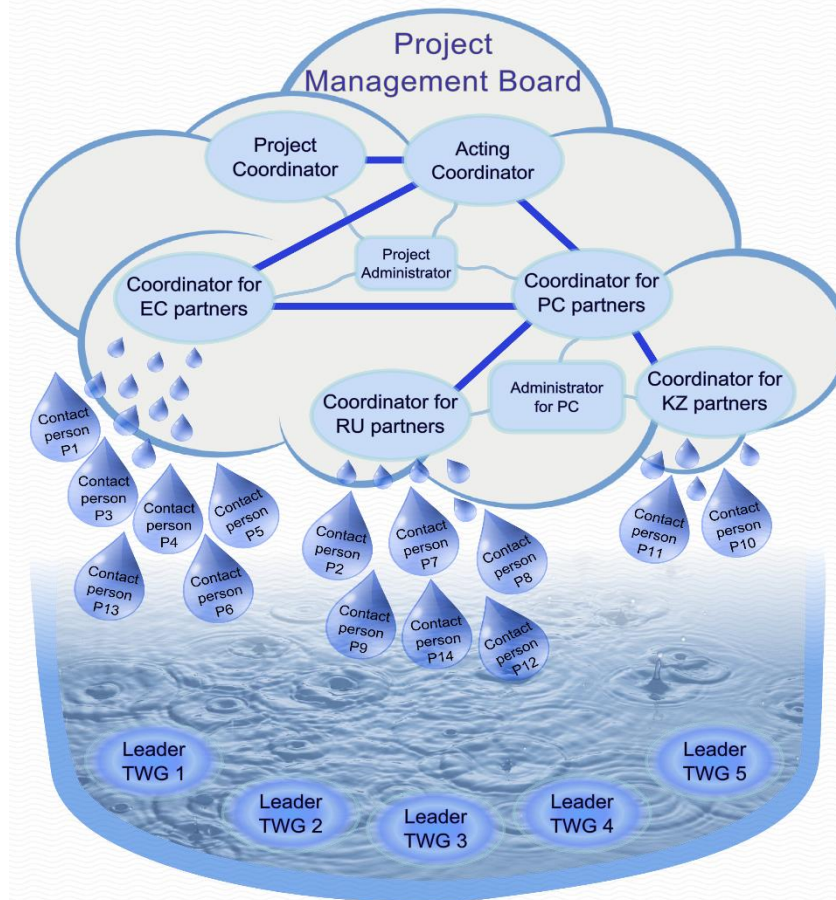
WP 8. Project results dissemination: AUTH, ENU

- The project website at ALU: <http://treasure-water.eu/>
- Project webpages at each partner university, with varied degree of development at this stage.
- The webpage at the PC coordinating institution TyuSU <https://www.utmn.ru/riic/eng/eu-projects/erasmus/>
- An e-platform (Moodle) on the website of Altai State University: <http://public.edu.asu.ru/course/view.php?id=185>),
- Dissemination in the local mass media;
- Participation of staff in the relevant events (conferences, seminars, etc.):
- Dissemination plan available on the project website.

WP 9. Efficient Management of the project:

ALU, TyuSU

Project management structure





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Thank you for your attention!

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Dr.Galina V. Telegina

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