



University of Maribor

Faculty of Logistics

To know or to know how, that is the question

*LLL in University – Industry Partnership Project Tempus RECOAUD
Trainig of Eco-Audit and Environmental Management*

Assoc. Prof. Borut Jereb, PhD



Background of the project

- Russian Federation ranks in 3rd place in the list of GHG emitting countries worldwide (70% are CO₂)
- Increase of the volume of funds on environment protection to improve environmental safety and to reduce the total emissions (2005 - 2010: 59,2%)
- Kyoto protocol highlights the meaning of climate change mitigation for the Russian Federation
- Implementation of Eco-Audit and Environmental Management for observing legal guidelines, increasing (energy) efficiency, and reducing costs for gaining competitive advantage
- Therefore, the responsible persons in the enterprises had to be trained sufficiently in order to be able to implement efficient Eco-Management in their company



Background of the project

- Technische Universität Dresden (TUD)
- University of Maribor (UM)
- Czestochowa University of Technology (CUT)
- University of Žilina (UNIZA)

- Samara State Transport University (SSTU)
- Ural State University of Railway Transport (USURT) from Ekaterinburg
- Omsk State Transport University (OSTU)
- Tyumen State Oil and Gas University (TSOGU)

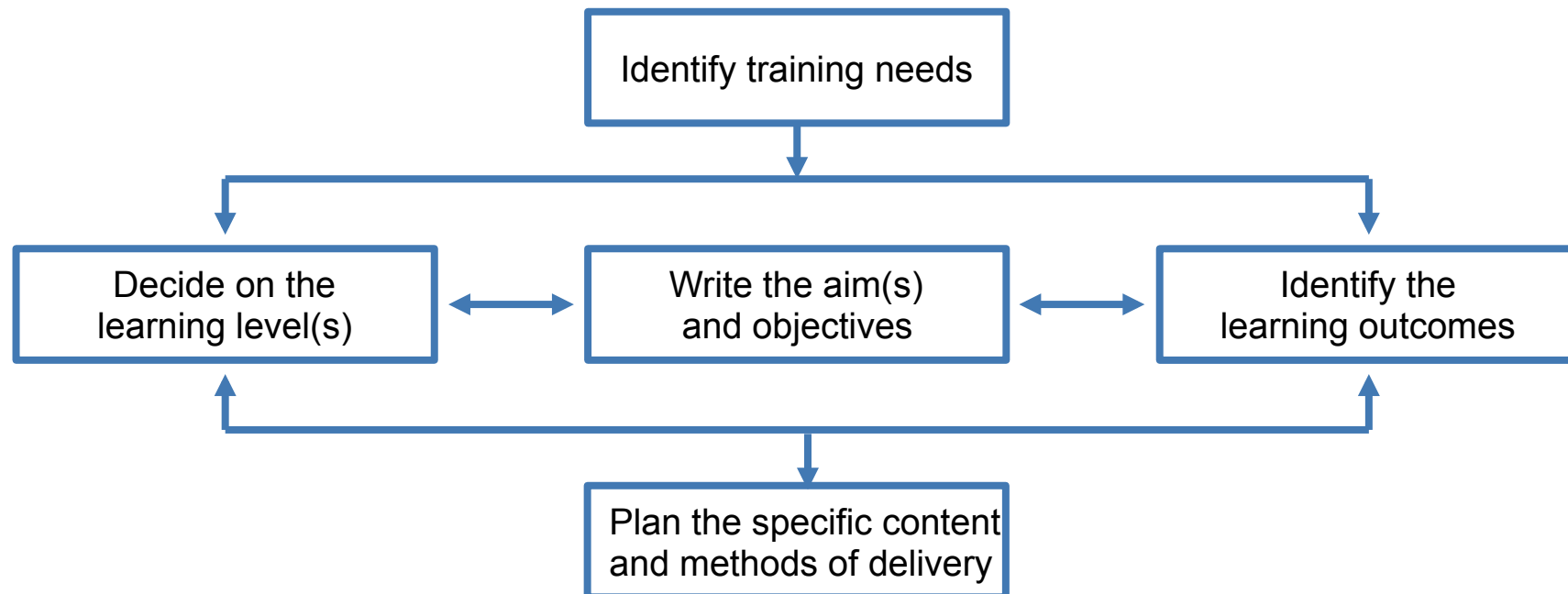


Specific objectives of the project

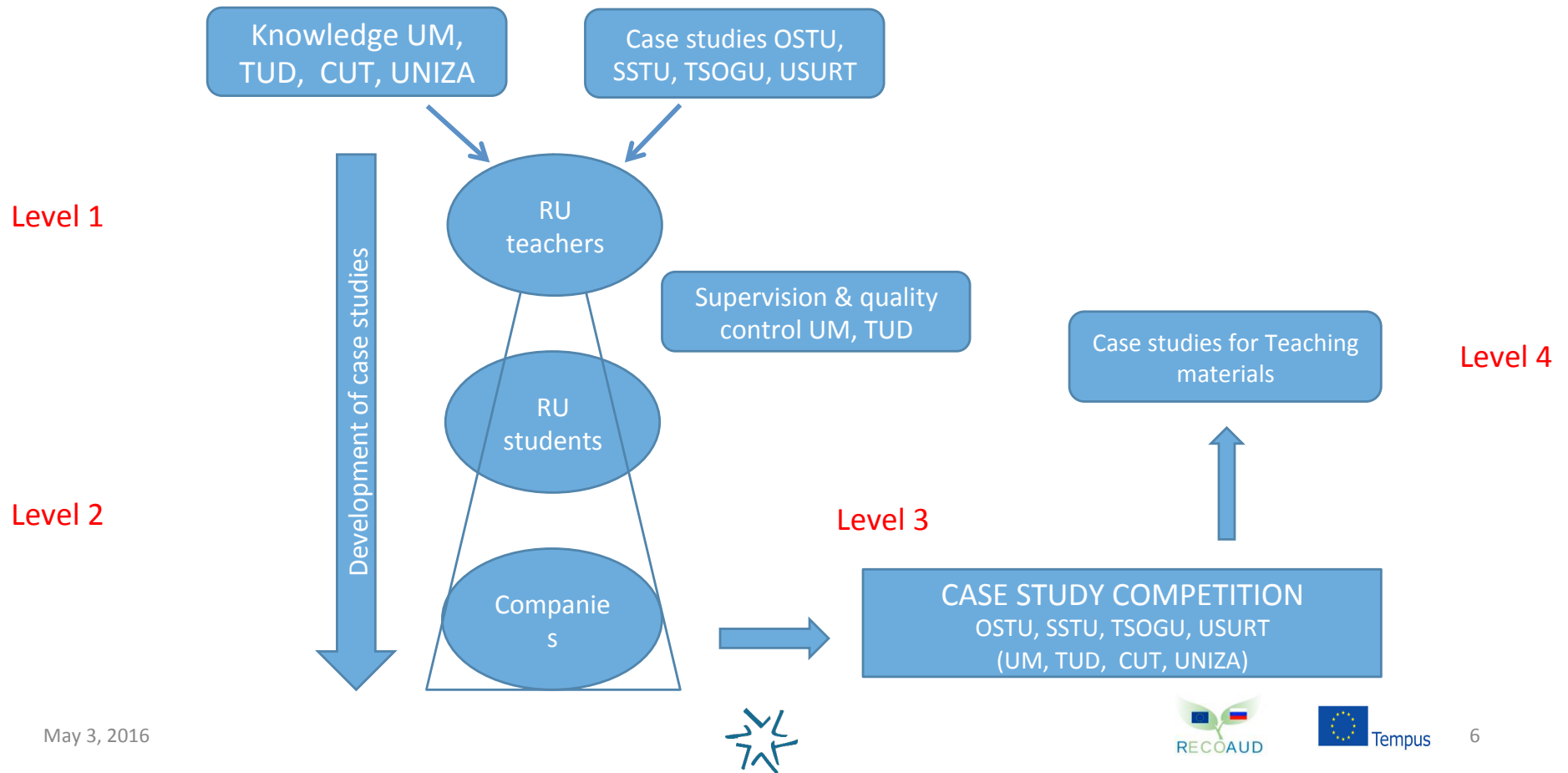
- Development of a curriculum for the further education on „Eco-Audit and Environmental Management“
- Training of university teachers for the implementation of the courses
- Introduction of new techniques in the educational process of the lifelong learning education
- Fostering of the cooperation between the participating regions in Russia
- Fostering of the knowledge exchange and cooperation between participating organizations and companies



Framework for designing learning programmes



The structure of innovative transfer of knowledge



First level of case studies development

On the basis of state of the art, made by European partners, the first level of case studies was introduced for the training of Russian teachers, the representatives from universities.



First level of case studies development (Summary of the content of the learning programme)

Module I. Theory Czestochowa University of Technology

1 day: Ecological scarcity and sustainability
2 day: EMAS in theory
3 day: Quality management standards in theory
4 day: Material and energy balance
5 day: Life cycle assessment with value stream mapping

Module II. Planning Zilina University

1 day: Climate change adaptation
2 day: Infrastructure planning
3 day: TOWS and strategy development
4 day: Environmental impact assessment for planning
5 day: Exercise

RECOAUD COURSE
120 academic hours while 25 days
30 academic hours = 1 Module
6 academic hours per day * 5 days

Module III. Realization University of Maribor

1 day: Green product realization
2 day: ISO implementation
3 day: Supply chain and logistics realization
4 day: Risk management implementation
5 day: Exercise

Module IV. Control Technische Universität Dresden

1 day: Target audiences: monitoring of constraints and stakeholders
2 day: Economical-ecological net effect optimisation
3 day: Key performance indicators and creation of environmental reports
4 day: Exercise



Second level of case studies development

Russian teachers had developed their own case studies, based on Russian companies to introduce them into the curriculum of training their students as well as the representatives from enterprises.

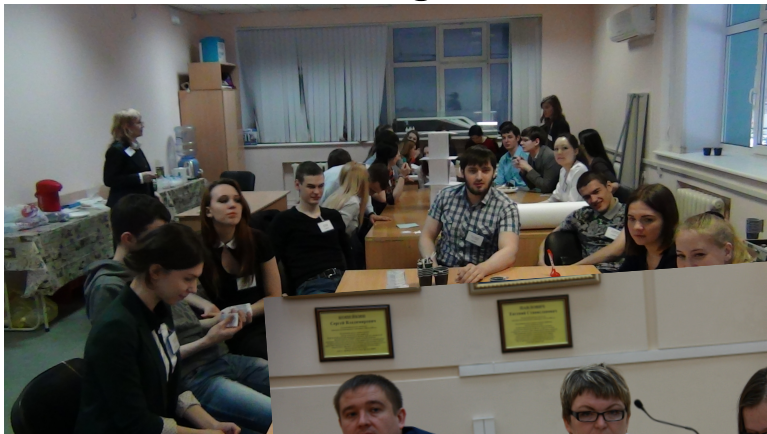
See:

- UrGUPS presentation
- UrGups movie
- Tyumen evidence of companies representatives
- Tyumen evidence by photos
- SamGUPS evidence of companies representatives



Thirth level of case studies development

Students and the representatives from enterprises together had developed their own case studies, based on their own enterprises to introduce them into the case study competition. Technological innovation can achieve most advanced level by having a two-way flow of information – from science (from universities) to industry as well as from technological know-how from industry to universities.



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Fourth level of case studies development

The fourth level of case studies development represents the victorious set of case studies suitable for the final textbook as the key material of the final curriculum.

Is underway



Thank you for your attention!

borut.jereb@um.si

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