



European Commission

**TEMPUS**



## **Creation of university-enterprise cooperation networks for education on sustainable technologies**

**Креирање на мрежи за соработка помеѓу  
универзитетите и компаниите за едукација за  
одржливи технологии**



**Presentation of the Project**  
D-r Vineta Srebrenkoska, assist. prof.  
University Goce Delcev - Stip  
Faculty of Technology

# Participants

## UNIVERSITIES

- **Katholieke Hogeschool Sint-Lieven**
- Trier university
- Vienna university
- **University of Novi Sad**
- University of Nis
- Tuzla University
- University of East Sarajevo
- University of Cyril and Methodius
- **University Goce Delcev**
- Corvinus university, individual expert
- Wrocław university of Technology, individual expert

## CHAMBER OF COMMERCE

Chamber of commerce East-Flandria,  
Chamber of economy of Vojvodina,  
Regional chamber of commerce RS,  
Chamber of commerce Bijeljina  
Chamber of commerce canton Tuzla  
Economic chamber of Macedonia

## COMPANIES

- Alltech-Fermin
- Vegafruit
- Birac
- BOMEX
- EUROKOMPOZIT

# Problems related with projects

- ❑ The level of waste in Macedonia is very high taking into account the low level of economic development that result in the pollution of air, lands and water.
- ❑ It is a fact that the industrial staff is not properly educated and has a lack of knowledge concerning sustainable development.

# Do not fall asleep



# Objectives

- ❖ Improving the university-enterprise cooperation on **sustainable development** in the industry of WB partner countries according to **EU standards**;
- ❖ **Acceptance** of the new course programmes for **improving the level of knowledge** of the staff from industry by the participating enterprises;
- ❖ Implementation of the newly developed courses for the staff from industry;

# Specific Objectives

- To provide **new curricula** on sustainable industry for the staff from industries **involved in the project**;
- To have an experience **from EU partners** on sustainable industry **in new developed curricula**;
- To bring the knowledge of the staff from industry **closer to the standards** in EU partner countries;

- To set up the **strategy for education of the staff** from the industry on **sustainable industry issue**.
- **New developed curricula** for the industry;
- **Part** of the curricula based on **EU experiences**;
- **Examine** the knowledge of the staff from industry **after the courses**;
- **Strategy for education** of the **staff from industry** on sustainable development.

# Outputs and outcams

1. Review and analyse the **existing knowledge** of the staff from industry on sustainable industry;
2. **Retrain** the staff from WB partner universities;
3. **Develop new curricula** for the staff from industry of RS, BA and MK on sustainable industry;
4. **Implement the newly developed** curricula for the staff from industry
5. Increase the **link with enterprises**;
6. **Increase** the **links** between WB partner country universities;
7. **Increase** the **links** between WB partner country universities and EU country universities;



European Commission

TEMPUS

Retraining session will be structured according to the following framework:

1. Experience with enterprise-university cooperation
2. State of the industries concerning sustainability
3. Practical examples of zero emission industries
4. Lectures concerning the topics of the course
5. Teaching methods for adults
6. First course scheme







European Commission  
**TEMPUS**



## Course development

It is planned to create 4 courses with the following common topics:

1. Concept of sustainability related to society, especially industry
2. Zero emission technologies
3. Material and energy flow management in industry
4. Case studies
5. Zero emission of material or/and energy in selected industry.

All 4 courses will have the same first 4 topics. The 5th topic will be tailored to the specific needs of the industry it will be created for.

**ECTS 6**

Workload: **150 hours**

Duration of courses: **3 - 4 months**



# TODAY

Screening and analysing knowledge transfer from university to industry and formulation of the course scheme

Outcome 1 Review and Analyse the **existing Knowledge** of the staff from Industry on Sustainable Industry Issue

Activity 1.1 To **inventories and analyze** the status of knowledge in industry regarding the **topics of the course**



**Thanks for your attention**