GREEN SKILLS & SUSTAINABLE UNIVERSITY

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Green skills

• Skills for sustainability, also known as green skills, are the technical skills, knowledge, values and attitudes needed in the workforce to develop and support sustainable social, economic and environmental outcomes in business, industry and the community.

• Green skills – a must for 21st century
Leadership Secrets of Attila the Hun

Some Huns have solutions for which there are no problems
So, what are the problems?

• The issue of sustainable development (SD) appears in most of policy papers and is usually on the top of various agendas,

• it is not sufficiently visible in regulatory tools shaping present and future European higher education (HE) landscape.

• The EQF does not make any statements about the specific content of learning outcomes, therefore it is hard to find references to SD in national or sectoral QFs.

• The same is valid for university ranking criteria.

• The initiatives like COPERNICUS CAMPUS usually die out or persist in small clusters of interested institutions, without broader impact.
How to solve them?

• Bottom-up – to work on particular issues
• Top-down – to impose (or at least try to impose...) adequate legislation

• Horizontal – to network/communicate/look for synergies
AUSTRALIA
NO LONGER DOWN UNDER
Green Skills Agreement

An Agreement between:

❖ the Australian Government

❖ the state and territory governments

This Agreement is a statement of the commitment of the Australian and state and territory governments to work collaboratively with employer and employee representatives, the VET sector and community organisations to ensure that training in, and the delivery of, skills for sustainability are an integral part of all vocational education and training and are relevant to the needs of industry.
Principles

The principles underlining this Agreement are to:

• deliver a nationally consistent and coordinated approach, while recognising the need for flexible and innovative approaches across jurisdictions, industries and workplaces

• collaborate with employer and employee representatives, the VET sector and community organisations

• complement and leverage existing national agreements, policies, programs and initiatives at jurisdictional levels

• utilise the best available evidence to inform implementation

• demonstrate transparency and accountability

• align with the Australian Quality Training Framework (AQTF)

• seek to achieve international best practice.
Objectives

Through this Agreement, the Australian and state and territory governments will work collaboratively with employer and employee representatives, the VET sector and community organisations to ensure that Australia’s VET system delivers the skills for sustainability that will enable individuals and businesses to contribute to a sustainable, low-carbon economy in their workplaces and communities, and the provision of sustainable jobs, services products and advice. This will be achieved by:

• embedding skills for sustainability practice and teaching in vocational education and training, within the requirements of the national regulatory framework
• the upskilling of VET instructors and teachers to deliver skills for sustainability
• the strategic review of Training Packages (sets of nationally endorsed standards and qualifications for recognising and assessing people’s skills) to embed sustainability knowledge, skills and principles
• implementing a transition strategy to re-skill vulnerable workers.
Outcomes

This Agreement will deliver the following outcomes:

• excellence in skills for sustainability practice and training
• stronger collaboration and coordination between governments, employer and employee representatives, the VET sector, universities and community organisations to improve integration and leveraging of effort
• VET practitioners skilled in the effective delivery of skills for sustainability
• graduates and learners understand and promote business practices and innovation that support the transition to a sustainable, low-carbon economy
• increased business and community awareness of the VET sector’s capacity to support Australia’s transition to a sustainable, low-carbon future by delivering the required skills and sharing knowledge about sustainable ways of working
• improved linkages and collaboration across schools, VET and higher education to ensure an integrated sustainability pathway for learners and trainees and to support careers and jobs pathways for the Australian workforce
• clear pathways and supportive networks for vulnerable workers and communities to re-skill and to participate in the opportunities created by a low-carbon economy
• upskilling or re-skilling of the existing workforce in skills for sustainability.
The action plan will:

• support a comprehensive, coordinated approach to research and modelling of skills needs, deficits and gaps for trades and professions to meet emission reduction targets and to secure jobs and industries into the future, including through the examination of green jobs pathways

• ensure that the actions arising from this Agreement complement and are integrated with:
  – existing labour market, training and industry development programs and initiatives
  – existing and developing initiatives and programs designed to achieve COAG qualifications targets
  – existing and developing initiatives to promote carbon pollution reduction and industry and workforce adjustment to a sustainable, low-carbon economy.

• fast-track the review of Training Packages in targeted industry sectors and ensure the timely, structured and ongoing review of all Training Packages to embed skills for sustainability in key competencies or through inclusion of core sustainability competencies
Action Plan (2)

• engage with the higher education sector to encourage and promote an integrated and complementary approach to skills for sustainability across the tertiary sector
• ensure that all trade apprentices enrolling from 2010 graduate with a core level of industry-relevant skills for sustainability and that over the next two years 30 000 apprentices will graduate from targeted, carbon-exposed industries
• identify the barriers to participation by businesses and existing workers in training to acquire skills for sustainability and the strategies to overcome these and the opportunities to develop effective industry and workforce champions and facilitators
• support the upskilling and re-skilling of the existing workforce in skills for sustainability
• ensure that the national training system can effectively respond to and stimulate the demand from business and industry for skills for sustainability
• identify nationally agreed targets and timeframes for the upskilling of VET trainers to deliver skills for sustainability in all jurisdictions
Action Plan (3)

• work with vulnerable workers, sectors and communities and provide them with a transition strategy (involving governments, industries, employment services and educators) to enable re-skilling and employment participation in the low-carbon economy

• identify, monitor and resolve barriers including resourcing to achieving agreed actions

• monitor achievements against agreed actions.
A Tale of Two Projects

SUSDEV

ECO-RED
ECO-RED

„European quality COurse system for Renewable Energy Development”

ERASMUS+ Action „Capacity Building in Higher Education” Project


- 3 EU partners
- 3 VN partners
ECO-RED Objectives

Wider Objective

• To improve the quality of higher education and enhance its relevance for the labour market
• To increase the local competences on renewable energy, energy efficiency and sustainability;
• To promote the dialogue between European and higher education in Vietnam in order to facilitate the reciprocal recognition of competences and credits;
• To inform and to train the Vienamese Universities on European University system: Bologna Process, Quality Assurance and Internationalization;
• To make comparable the training quality of Vietnamese Universities and European University, elaborating a new MSc which respect the quality parameters of all Countries;
• To promote the exchange of students and staff, and the Universities cooperation.
ECO-RED Objectives

Specific Project Objectives

• to contribute to answer the labour market demand of high level professional in RES
• to guarantee a stable collaboration among International offices, pursuing common Quality standards and promoting the dual recognition of credits
• to improve quality of education by ensuring that didactic materials and training methods satisfy Quality Assurance requirements
• to establish n. 5 new courses on renewable energy, energy efficiency and sustainability (at least 30 ECTS) in n. 3 Vietnamese HEIs
• to establish n. 2 courses on RES on-line for a total of n. 12 ECTS
• to innovate and to complete the educational offer (theoretical, technical and practical) through the installing of didactic laboratories and Video Conference Tools
• to improve the mobility of students organizing Intensive Course in EU for the best 24 students
• to improve the employability of students on RES fields at National and International level
• to develop durable Network between Vietnamese and EU HEIs for Energy training and research.
ECO-RED – Outputs and Outcomes

D1.1: Questionnaires’ on University and Market
D1.2: List of Stakeholders and Universities’ internal staffs
D1.3: Report on labour market and university needs
D2.1: Material for the 3 local two-day seminars
D2.2: Three local two-day seminars on Bologna process, Quality and Internationalization
D2.3: Short courses materials and tests
D2.4: Providing of Short Courses on line
D2.5: Local International Offices
D2.6: One-week course at the European Universities
ECO-RED – Outputs and Outcomes

D3.1: Syllabus of ECO-RED Courses
D3.2: Contents and didactic materials
D3.3: ECO-RED e-courses
D3.4: International Accreditation
D3.5: Agreement for Joint Training
D3.6: ECO-RED’s e-courses on MOOCs’ platform
D3.7: MOOCs’ credits and certificates
D4.1: Didactic Laboratories
D4.2: Video Conference Tools and equipment
D5.1: List of students for ECO-RED courses
D5.2: ECO-RED modules delivered
D5.3: List of students for Intensive Course in EU
D5.4: ECO-RED Intensive Course in EU

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ECO-RED – Outputs and Outcomes

D6.1: Quality and Evaluation Plan (QEP)
D6.2: External Independent Evaluator Reports
D6.3: Sustainability Plan
D7.1: Communication Plan
D7.2: Logo and Images
D7.3: Info days on Green Energy
D7.4: Final Conferences
D8.1: Memorandum of Understanding (MoU)
D8.2: International Structural Team (IST) Regulation
D8.3: Minutes of SSC and IST meetings
D8.4: Kick-Off Meeting
D8.5: ECO-RED’s Web site and Platform
D8.6: External Financial Audit
D8.7: Monitoring Expert
„Lifelong learning for Sustainable Development”

ERASMUS+ Action „Capacity Building in Higher Education” Project

574056-EPP-1-2016-1-PL-EPPKA2-CBHE-SP

- 7 EU partners
- 10 RU partners
- 9 KZ partners
SUSDEV Objectives

Wider Objective

Enhancement of the role of Higher Education Institutions in ensuring sustainable development of industry and society, support of national “green policies” in Partner Countries and promotion of "green culture" by means of Lifelong Learning

Specific Project Objectives

1. Development of modules to foster green skills for different target groups and qualifications levels
2. Enhancement of access of target groups to open education resources, promotion of LLL
3. Enhancement of green culture and continuing education through training of teaching staff, external stakeholders and public administration
SUSDEV – Outputs and Outcomes

WP1 Analysis of "green policies and practices" in European Higher Education Area and in Partner Countries
1.1 Report on the situation in EU
1.2. Report on the situation in PC
1.3 Report on the stakeholders views

WP2 Creation of Open Education Resources (OER)
2.1 OER Repository developed
2.2 Green OER Network and its regulation developed

WP3 Creation of Green Training Centers (GTC)
3.1 Training centers at partner universities created

WP4. Development of Green Training Modules
4.1 Training module on Green Skills for Food Sector developed
4.2 Training module on Green Skills for Land Management developed
4.3 Training module on Green Skills for Ecology developed

WP5 Implementation and upgrading of staff training courses
5.1 Implemented training courses on Green Skills for Food Sector
5.2 Implemented training courses on Green Skills for Land Management
5.3 Implemented training courses on Green Skills for Ecology
SUSDEV – Outputs and Outcomes

WP6 Quality control and monitoring
6.1 Quality Management and Evaluation Handbook
6.2 Documentation of continuous monitoring and assessment of project activities
6.3 Documentation of assessment of project deliverables
6.4 Internal evaluation report
6.5 External evaluation report

WP7 Dissemination & Exploitation of Project Results
7.1 Documentation of Dissemination activities
7.2 Dissemination and Sustainability Plan

WP8 Project management
8.1 Project web site
8.2 Project documentation
8.3 Minutes of project meetings
8.4 Project reports
Conclusions

• Needs for „horizontal” networking activities to provide cohesion among various bottom-up and top-down initiatives
• University as an „integrator” for sustainability culture advancement
• Possible tools – „green platforms” created and developed by university consortia
• Important – to ensure adequate place for green skills in educational legislation
A teraz – po polsku 😊

Aport do Ogólnopolskiego Forum Studiów Środowiskowych (na dobry początek)

- Korelacje z projektami międzynarodowymi, wspólne akcje (seminaria, OER Platform etc.)
  - ECO-RED
  - SUSDEV
- Współpraca z uczelniami zagranicznymi
  - BOKU, Sapienza, DIT, RES...
- Sektorowe ramy kwalifikacji (współpraca z IBE, wykorzystanie rezultatów projektów DEFRUS, ELFRUS i QANTUS)
- Profil praktyczny i V poziom (współpraca z EURASHE)
  - BuildPHE
Thank you very much for your attention

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