PROGRAMME
TRAINING WORKSHOP 3
Kingston, Jamaica, 10-12 March 2015

Project Acronym: CAP4INNO
Full Project Title: Knowledge transfer capacity building for enhanced energy access &
efficiency in the Caribbean
Contract Number: FED/2013/320-272

Meeting dates: 10-12th March 2015
Venue: Technology Innovation Centre, Main Conference Room, University of
Technology, Jamaica

1. TRAINING STRATEGY DESCRIPCION

BACKGROUND

The Workshop is part of WP2: CAPACITY BUILDING, Activity 2.3 Capacity building workshops for HEI staff, of the CAP4INNO project.

The aim of WP 2 is to upgrade the qualifications of the partner HEI academic and management staff with a view to providing the high-level skills required for capacity development in the energy sector and to reinforce organisational capacities for regional cooperation and knowledge transfer.

TRAINING METHODOLOGY

The training methodology is based on a training for trainers approach. This shall guarantee that not only 2-3 staff of each university who can attend the trainings are benefiting, but that the knowledge can be spread also to other colleagues. Therefore:
- The first step of the WP is the development of a training plan for HEI staff capacity building activities to enhance capacities of HEI staff to provide new courses to students and professionals (Activity 2.2)
- The second step is to implement 3 training workshops for partner country HEI staff. (Activity 2.3)
- The third step is that these workshops will be replicated in each partner HEI (at least 2 workshops per each partner university). The aim is to benefit and train a larger number of academics on the new topics (Activity 2.4)

TRAINING TOPICS

In line with the project's overall objective the new courses shall provide **knowledge transfer, IPR management and entrepreneurship** skills in the study programmes of energy engineering (as a pilot area). While the practical examples and exercises are based on the energy sector, at no stage it is foreseen to address energy specific topics in the new training courses. There are other projects and programmes addressing this aspect. The objective of CAP4INNO is to work with this sector to stimulate the innovation system and inspire energy sector actors (staff, students, enterprises) to become more innovative.

According to the project proposal, the tentative competences to be covered through capacity building actions are:
* Technology surveillance & state of the art search & strategies; practical hands-on training in use of free patent databases and search tools, and specialized software (costs and benefits of different tailored software solutions available);
* Strategic Management & Economics of innovation and technology transfer for engineers; energy technology feasibility & viability analysis;
* Theory of patents, strategic patenting, political issues of IP systems, basic principles of technology licensing; forms & sources of innovation, innovation incentive systems, basic notions of IP laws, relevance of IP for innovation; IP consultants, ethical issues;
* Business intelligence, building business strategies around IP
* R&D Management and Fundraising for S&T projects: strategy & practice; International networking and cooperation in S&T;
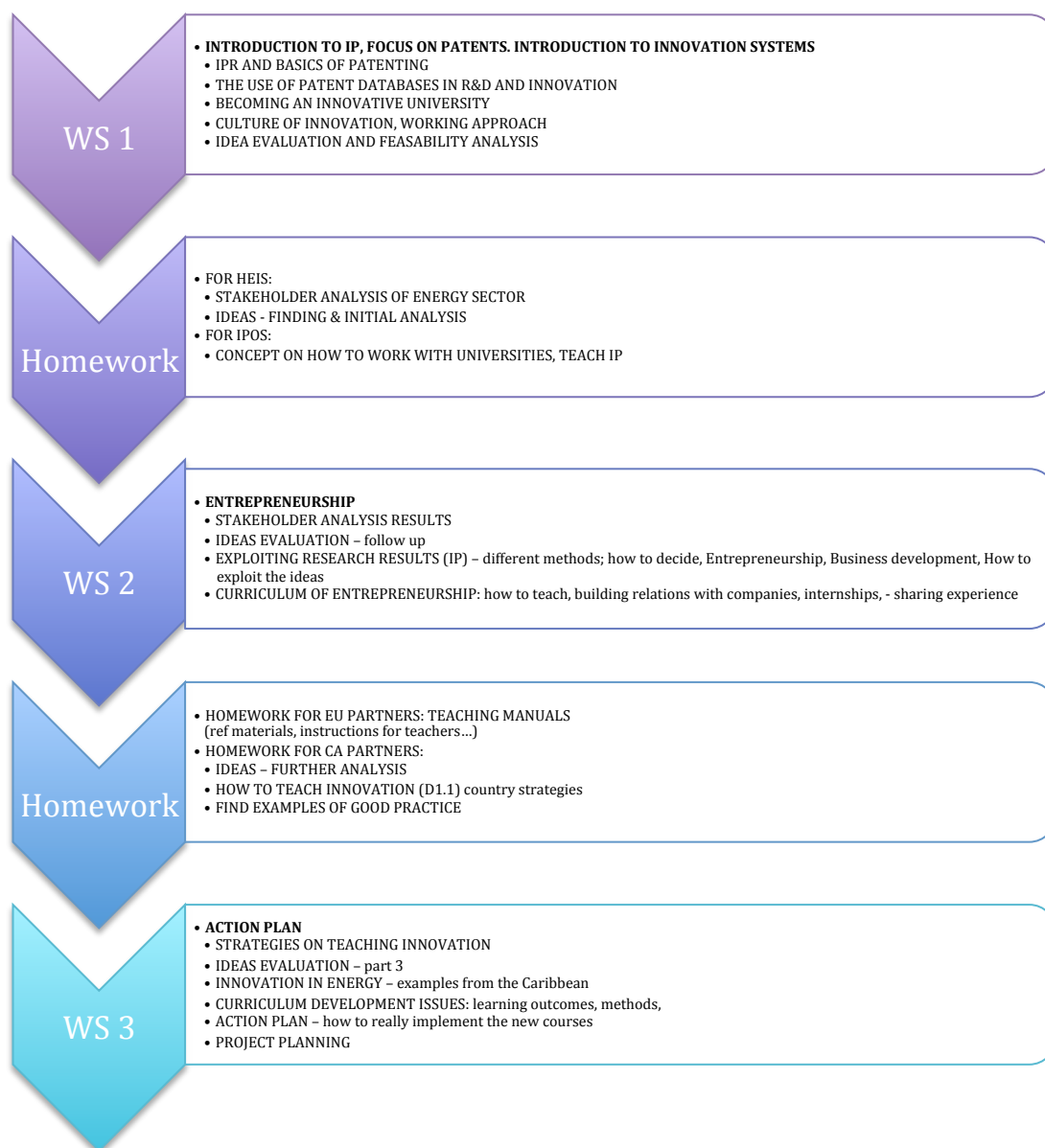
With a view to confirm the needs and requirements of the different actors addressed by the project (HE instituions, students, academics and enterprises) a needs analysis was carried out in the partner countries at the project start.
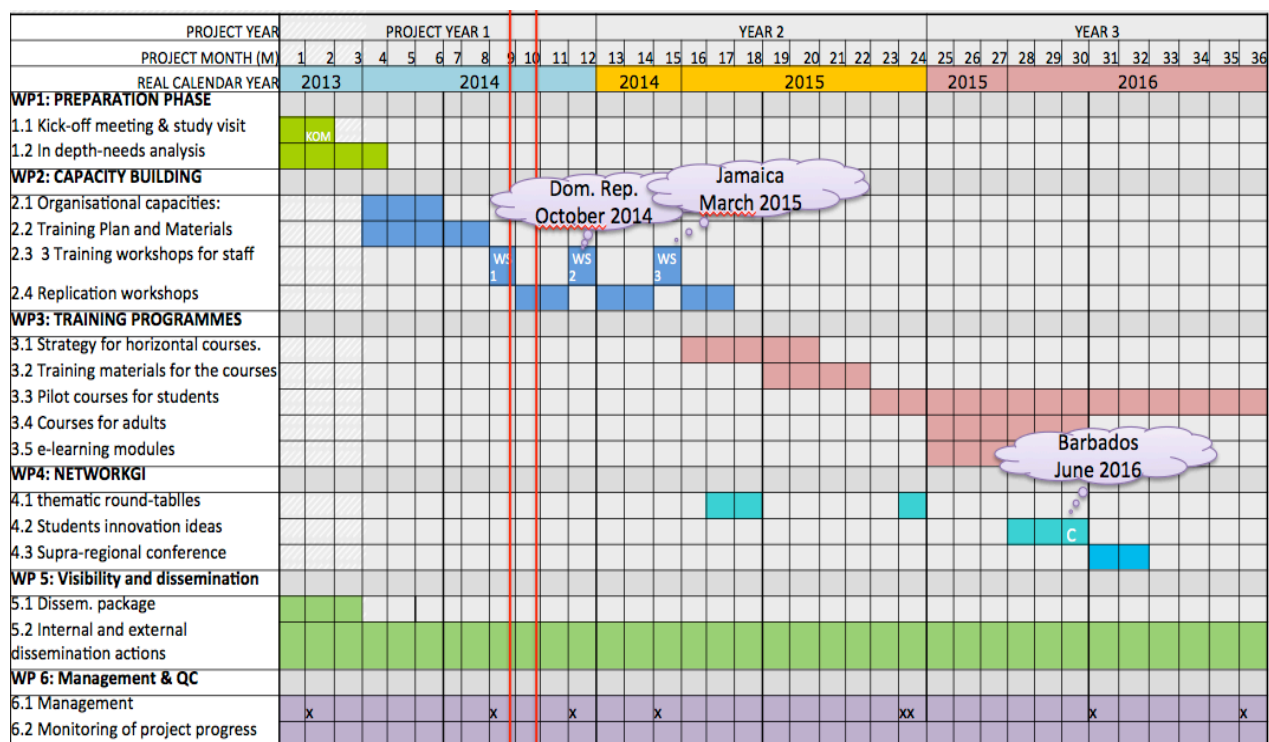
The findings of the analysis can be found here:

STRUCTURE AND CONTENT OF THE THREE TRAINING MODULES (ACT. 2.3):

The sequence of the training workshops and topics was also influenced by the interest of other important stakeholders and key actors such as WIPO. Synergies with other initatives are sought in order to enhance the impact and make efficient use of resources. At the same time scheduling activities involving also other stakeholders requires a higher degree of flexibility regarding the content and schedule of some activities.
The CAP4INNO capacity building will be structured as follows:

WS 1
- **INTRODUCTION TO IP, FOCUS ON PATENTS. INTRODUCTION TO INNOVATION SYSTEMS**
  - IPR AND BASICS OF PATENTING
  - THE USE OF PATENT DATABASES IN R&D AND INNOVATION
  - BECOMING AN INNOVATIVE UNIVERSITY
  - CULTURE OF INNOVATION, WORKING APPROACH
  - IDEA EVALUATION AND FEASABILITY ANALYSIS

Homework
- FOR HEIS:
  - STAKEHOLDER ANALYSIS OF ENERGY SECTOR
  - IDEAS - FINDING & INITIAL ANALYSIS
- FOR IPOS:
  - CONCEPT ON HOW TO WORK WITH UNIVERSITIES, TEACH IP

WS 2
- **ENTREPRENEURSHIP**
  - STAKEHOLDER ANALYSIS RESULTS
  - IDEAS EVALUATION – follow up
  - EXPLOITING RESEARCH RESULTS (IP) – different methods; how to decide, Entrepreneurship, Business development, How to exploit the ideas
  - CURRICULUM OF ENTREPRENEURSHIP: how to teach, building relations with companies, internships, - sharing experience

Homework
- HOMEWORK FOR EU PARTNERS: TEACHING MANUALS (ref materials, instructions for teachers…)
- HOMEWORK FOR CA PARTNERS:
  - IDEAS – FURTHER ANALYSIS
  - HOW TO TEACH INNOVATION (D1.1) country strategies
  - FIND EXAMPLES OF GOOD PRACTICE

WS 3
- **ACTION PLAN**
  - STRATEGIES ON TEACHING INNOVATION
  - IDEAS EVALUATION – part 3
  - INNOVATION IN ENERGY – examples from the Caribbean
  - CURRICULUM DEVELOPMENT ISSUES: learning outcomes, methods,
  - ACTION PLAN – how to really implement the new courses
  - PROJECT PLANNING

PROJECT WORKPLAN AND WORKSHOPS:

	PROJECT YEAR			PROJECT YEAR 1										YEAR 2												YEAR 3									
PROJECT MONTH (M)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
REAL CALENDAR YEAR	2013			2014									2014				2015								2015			2016								
WP1: PREPARATION PHASE																																				
1.1 Kick-off meeting & study visit	KOM																																			
1.2 In depth-needs analysis																																				
WP2: CAPACITY BUILDING																																				
2.1 Organisational capacities:																																				
2.2 Training Plan and Materials																																				
2.3 3 Training workshops for staff									WS1				WS2			WS3																				
2.4 Replication workshops																																				
WP3: TRAINING PROGRAMMES																																				
3.1 Strategy for horizontal courses.																																				
3.2 Training materials for the courses																																				
3.3 Pilot courses for students																																				
3.4 Courses for adults																																				
3.5 e-learning modules																																				
WP4: NETWORKGI																																				
4.1 thematic round-tablles																																				
4.2 Students innovation ideas																													C								
4.3 Supra-regional conference																																				
WP 5: Visibility and dissemination																																				
5.1 Dissem. package																																				
5.2 Internal and external dissemination actions																																				
WP 6: Management & QC																																				
6.1 Management	x							x			x			x									xx					x							x	
6.2 Monitoring of project progress																																				

Dom. Rep. October 2014

Jamaica March 2015

Barbados June 2016

WORKSHOP 3: ADAPTATION, INTEGRATION & ACTION PLAN

Objective:
The workshop "Adaptation, Integration and Action Plan" shall provide a detailed plan on future actions for modernization of energy curricula in high-level skills required by the national and regional labour markets, joint developmet of materials for new transversal courses and conducting pilot courses for students and professionals. It shall also provide insights in the different ways of exploiting research results and IP, from the different methods to evaluate an idea, to deciding on how to best exploit it.

For the workhsop to succeed, project participants are required prepare for the workshop (homework, readings and others). Besides any instructions given during the workshops and homework assignements, the project proposal is a good guideline to keep focussing on the objective of the project and keep in mind the final results that need to be achieved.

Topics addressed:
- STAKEHOLDER ANALYSIS RESULTS discussion and learning
- INNOVATION IN ENERGY – examples from the Caribbean
- IDEAS EVALUATION –
  - follow up WS2 Homework part 3
- EXPLOITING RESEARCH RESULTS (IP) – different methods; how to decide, Entrepreneurship, Business development, How to exploit the ideas
- CURRICULUM OF ENTREPRENEURSHIP: how to teach, building relations with companies, internships, - sharing experiences
  - CURRICULUM DEVELOPMENT: how to formulate comprehensive subject fiches according to international standards, innovative teaching methods, student assesment, academia-industry link for achieving competitive competences for graduates.
  - ACTION PLAN – how to really implement the new courses
- PROJECT PLANNING
- **ACTION PLAN**

Learning outcomes:

After this workshop, participants shall be able:
- to apply the approach and methodologies for identifying and mobilizing stakeholders in order to develop 'learning alliances' among the key stakeholders of the innovation system in the energy field in their countries and regions,
- to generate new ideas for innovation and future collaboration within the energy area – based on a collaborative action research approach;
- to apply the idea evaluation methodology to their context and their universities and conduct the first steps of this process
- to identify potentially valuable ideas in cooperation with researchers
- to know how to design the new courses to be introduced in their programmes in order to make them more supportive of innovation, knowledge transfer;
  - to be able to identify the resources they need for it (teaching staff, learning tools,infrastructure, assessment, etc.), the process at the institutional level to implement new courses and apply new methodologies.
- to define a detailed plan on future actions in developing a training programme for modernization of energy curricula integrating new competences in the study programmes.

PROGRAMME

10-12 March 2015 - CAP4INNO workshop 3 - **Adaptation, Integration & Action plan**

10/03/2015 – Tuesday			**Venue:** Technology Innovation Centre, Main Conference Room, UTECH
08.30	09.00	30'	Pick-up from the Hotel and transport to the meeting venue
09.00	09.15	30'	Official welcome and opening of the workshop Ambassador the Hon. Burchell Whiteman, OJ, Acting President, University of Technology, Jamaica
09.15	09.45	30'	**Presentation of the agenda and Workshop Objectives** *Noelia Lopez, Project Manager, University of Alicante*
09.45	11.00	75'	**Project status overview. Project WPs and workplan overview.** **Next activities. Special focus on action plan and replication WS.** *Noelia Lopez, Project Manager, University of Alicante*
			Coffee Break and Networking
11.15	11.30	15'	**Check in – Getting ready to focus and contribute to 3rd Module** *Sari Scheinberg, Chalmers University of Technology*
11.30	13.00	90'	**Meaning of working with and through Stakeholders in our Society** **Lecture and exercise** **Presentation of results found in each County (30 minutes each)** *Sari Scheinberg, Chalmers University*
			Lunch Break
14.00	15.00	60'	**Stakeholder analysis - Presentations continue –** **Teams from Universities – presenting** Sari Scheinberg, Chalmers University, Sweden
15:00	17:00	120'	**How to teach Managing Stakeholders for Sustainability** **Case of Teaching this course in Chalmers University –** Presentation of Stakeholders for Sustainability – Chalmers Course. **How to make this course your own** - reflections, supports and hinders, ideas – university Team exercise *Sari Scheinberg and Sverker Alänge, Chalmers University, Sweden*
17.00	17.30	30'	**Reflection and Evaluation of Today**
			Welcome Dinner at Grog Shoppe Restaurant

11/03/2015 – WEDNESDAY			**Venue:** Technology Innovation Centre, Main Conference Room, UTECH
08.45	09.15	30'	Pick-up from the Hotel and transport to the meeting venue
09.15	09.45	30'	**Introduction – context building – goals for the day**
09.45	11.15	90'	*Idea Evaluation Course – part 3* *Introduction* *Presentation by Program Participants* *Sverker Alänge, Chalmers*
			Coffee Break and Networking
11.30	13.00	90'	**Idea Evaluation Course - Continuation** Presentations **Results achieved and lessons learned from this course in Chalmers** *Sverker Alänge, Chalmers*
			Lunch Break
14.00	15.00	60	Idea Evaluation course **– adaptation and integration in your own university – design, learning outcomes,** - **ideas that can work** - **worries**
15.00	16.30	90'	**Overview - Key outcomes on all levels of system from the 3 course inputs** - Idea Evaluation course - Managing Stakeholders for Sustainability - AIM Method **<u>Redefining the University Mission</u> – linked to teaching – action learning and social innovation** – - Reviewing current mission and key strategies - Reviewing key demands/conditions needed to support new courses – strategies, culture, budget, collaboration, rewards, new competences, stakeholder support, leadership - opportunities – what supports needed in system to make this work - strategies for driving and integrating these changes - who, how, when, where - planning
16:30	17.30	30'	**Reflection and Evaluation of Today**

12/03/2015 – THURSDAY			Venue: Technology Innovation Centre, Main Conference Room, UTECH
08.30	09.00	30'	Pick-up from the Hotel and transport to the meeting venue
09.00	09.15	15'	**Intro & Expectations** *Ester Boldrini. Deputy Director, University of Alicante*
09.15	9.45	30'	**European Higher Education System: European Standards and Guidelines** *Ester Boldrini. Deputy Director, University of Alicante*
9.45	10.15	30'	**The application of international standards at the University of Alicante** *Ester Boldrini. Deputy Director, University of Alicante*
			Coffee Break and Networking
10.30	11.00	30	**Course fiche intro and exercise warm up –** Ester Boldrini
11.00	12.00	60'	**ECTS, competences** *Ester Boldrini. Deputy Director, University of Alicante*
			Lunch Break
13.00	15.00	120'	**Course definition exercise (Learning outcomes, competences and course fiche components and quality aspects)** *Ester Boldrini. Deputy Director, University of Alicante*
15.00	15.30	30'	**Academia and labour market synergies at UA** *Noelia López, Project Manager, University of Alicante*
15.30	16.00	30'	**Employers interviews for better define study programmes** *Ester Boldrini. Deputy Director, University of Alicante*
16.00	16.45	45'	**Final presentation of the design courses**
16.45	17.00	15'	**Final reflections and evaluation of this Workshop 3 –** **Oral and survey** Sari Scheinberg and Noelia López
17.00	17.30	30'	**Wrap up –** Noelia López, *Project Manager, University of Alicante*