This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector

Agreement Number: 2017-1-UK01-KA203-036521

Multiplier Events Report

UK

Main Author: Florin Ioras (BNU)

https://ensec-project.eu/

"ENSEC" has been funded with support from the European Commission. This publication reflects the views only of the author and the Commission cannot be held responsible for any use which may be made of the information contained therein

1 Introduction

The field of Higher Education (HE) has been recognised as one of the key drivers within the EU2020 Strategy to overcome the socioeconomic crisis, to boost growth and jobs and to foster equity and inclusion. Environmental scarcity is determined by environmental change, population size and growth, and unequal distribution (or access to) resources. Of these factors, unequal access to resources is not bound by physical limits alone. It is also a reflection of societies' lack of knowledge and subsequently education in the field area. Leading examples of emerging environmental change are: depletion and pollution of fresh water supplies, depletion of fisheries, degradation and disappearance of biodiversity, degradation and loss of agriculture lands, food and health safety, stratospheric ozone depletion, and global warming. Of these major environmental changes facing also Europe, the first five are now, or will likely be, growing threats to environmental security in the near term; the latter two will increasingly affect human security in the coming 50 years.

Staff qualifications, the inability to attract young workers remain one of the crucial points in Europe. To boost the recruitment of highly prepared staff requires initiatives addressing learning to make the Environmental management and security related sectors attractive and to transform both the academic knowledge and high-level basic and transversal competences to be useful and applicable.

The design, development and implementation of innovative Master modules bridging the areas of science, law, finance and education is an integral part of the overall mission of ENSEC.

ENSEC has been created to promote the anticipation of future skills needs and to enhance the opportunities for cooperation between HE, VET and industry, providing opportunities for cooperation among stakeholders as well as the exchange and transfer of knowledge to increase know-how.

This Strategic Partnership proposes the creation of a flexible learning pathway in line with the needs of learners and companies in theenvironemntal security related sectors. It will provide a joint module program between HE and VET that will CAPITALIZE COMPANIES WITH PREPARED YOUTH, providing enterprises innovation, expertise and added value.

ENSEC see the CREATION OF AN INTERNATIONAL MASTER'S DEGREE MODULES ON ENVIRONMENTAL SECURITY developed by 4 universities, 3 SMES all of them currently supporting educational programmes dealing with the sector in different ways, the consortium is completed by a Social partner. This initiative addresses the needs of each participant entity, their

staff, students and community. From this main objective, several specific objectives are defined:

SO1. Capacity Building in the sector: Promoting ACTIVE COOPERATION and partnership between actors from the knowledge triangle: HE institutions (BUCKS, UMA, UPM, TUB), industry (EVM, OEM, PA), Social Partners (CCIM) and local/Regional Bodies to obtain an impact on environmental responsibility, modernisation and internationalisation of HE.

SO2. Create FLEXIBLE LEARNING PATHWAYS able to provide and recognize HE students the most important competences and skills, such as internationalisation and use of digital learning. This new pathway will include validation of prior learning and will aim to improve the level of both sector specific, high level basic and transversal competences and skills, with particular regard to those relevant for the labour market in the environmental related sector: management, entrepreneurship, languages and leadership as well as their contribution to a cohesive society, in particular through increased opportunities for both learning and labour mobility and through strengthened cooperation between HE, VET, and work.

SO3. Promoting cooperation and MOBILITY ACTIVITIES, providing more opportunities for students to gain all the specific and transversal skills required and involving them along with partners staff and stakeholders in shaping the outcomes and ensuring their relevance.

These objectives seek to address the needs above indicated and are relevant to all participants, organisations and key stakeholders.

Innovation activities, including those related to education and training, tend to be geographically concentrated in individual entities where knowledge has been transferred among different industrial, educational and training sectors, taking special account of the substantial influence of geographic culture. Innovation in education and training is rarely achieved in isolation, as competences and experiences are spread across from different HE entities, outside academia and geographical borders. These characteristics make ENSEC well positioned through it's actors which crosscut different sectors and countries, and results.

The whole consortium must agree content prior to any external communications and publications of the project.

2 Multiplier event held in Bucks New University (UK)

2.1 Aim of the multiplier event

The aim of this final dissemination event is to showcase the work performed under the framework

of the ENSEC project: results, lessons learned and outcomes and findings beyond the participating organisations. This will enable a wider community to benefit from a work that has received EU funding.

PA will be in charge of arranging the final dissemination event in the UK where at least 20 representatives from the vested sectors, Higher Education, employment and other stakeholders will be involved. The event will take place in the last month of the project, once all outputs are completed and the training modules integrated in the 1st release version of the platform. The exact day will be defined during the last six months of the project (presumptively April 15th 2020). BNU will support PA in arranging this event. However, all costs for this Multiplier Event have been applied by the Activity Leading Organisation.

2.2 Intellectual outputs covered

-Environment Security: Current skills and qualifications state of the art (Activity Type: Survey, Comparative analysis, Evidence Gathering)

-Learning Platform (Activity Type: Learning, teaching, training, youth work materials and methods, pedagogical approaches and tools).

-Modules Material (Activity Type: Learning, teaching, training, youth work materials and methods)

2.3 Date, location and the list of participants.

Shortdescription ofthe event **includingtheprogramme**.

Programme:

Final disseminationevent of ENSEC April15th 2020

Objectives

- Presentation of the European project ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector).
- Further information about the Master Degree and its Training Paths.
- Introduction and access to the ENSEC training platform.
- Explanation on how to navigate in the ENSEC training platform.

Location: Buckinghamshire New University (BUCKS)

Schedule

9.00 Accreditation of participants

9.15 Welcome of participants and presentation of BUCKS

9.45 Presentation of the European project ENSEC (Development of a European study program: International Master's Degree for the Environmental Security Sector)

10.15 International master's degree in the environmental security: an opportunity to study and training abroad

11.00 Coffee break – networking

11.15 Introduction to the ENSEC training platform

12.30 Access to the ~ENSEC training platform

The final dissemination event in UK was hosted by the stakeholder PA (Projects Abroad Europe Ltd) on its facilities.

The main objective of the conference event was to generate awareness among the target groups about project results and to showcase the work performed under the framework of the ENSEC project: results, lessons learned, outcomes and findings beyond the participant organisations.

On the one hand, attendees were given information about the project, its objectives and the different activities that the partnership has carried out in order to develop the Master. On the other hand, participants also received useful data about the Master Degree. They were informed about the five Training paths or specialization: Design, Business, Research, Production and General Master and its different possibilities contained. Moreover, there were a section to explain the developed training platform. They were teacher to how to sign up and even how to use it.

The main public of the final event were students and teachers; one of our main target groups. Attendants were invited to provide their feedback such as comments or suggestions that are included below.

2.4 *Materials used for the presentation to the event*

- **Power-point:**

Development of a European Study Programme: International Master´s Degree for the Environmental Security Sector - ENSEC

ENSEC

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

Development of a European Study Programme: International Master´s Degree for the Environmental Security Sector - ENSEC

DISSEMINATION ACTIVITIES

- **Green Forest Jobs Workshop.** 25-26 June 2019
- **Conference: Applications in the field of topography and cartography. Experiences in Spain and Greece.** 7 June 2018
- **Workshop: Green infrastructure and sustainable drainage on pluvial management.** 9-10 May 2018
- PRESS RELEASE DISSEMINATION AT SCHOOL OF FORESTRY

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


Development of a European Study Programme: International Master´s Degree for the Environmental Security Sector - ENSEC
LEARNING OUTCOMES
a) Generic competences:
• Adequate language skills: good reading comprehension skills with the topic of introduction to Environmental Security.
• Adaptability: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
• Logical reasoning abilities: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.
a) Specific competences:
• Understanding of main environmental security issues;
• Ability to identify an environmental security hazards and conflicts;
• Understanding of history of Environmental Security;
• Capacity to conduct a resource efficiency assessment;
• Ability to understand the importance of Human Security and Gender security;
• Ability to understand the Policies in terms of Environmental Security
ENSEC
Co-funded by the Erasmus+ Programme of the European Union
4

MODULE 1. SYLLABUS

- **GOAL:**
  - to acquire a general view of environmental security and the evolution of the concept, in terms of environment, gender, human and political security.
- **OBJECTIVES:**
  - To learn some definitions of Environmental Security
  - To understand the difference between environmental security and human security
  - To have a general view of the history of Environmental Security
  - To understand the policies related to environmental Security
  - To understand the human dimension of Environmental Security
  - To understand the environmental stress as a source of conflict
- **ASSESSMENT:** Final test of 20 (multiple choice)
- **UNITS:**
  - Module 1: CONCEPT OF ENVIRONMENTAL SECURITY (ES)
    - Unit 1. Environmental security: definition and importance
    - Unit 2. Human security, environmental security and gender security
    - Unit 3. Environmental stress as a source of conflict
    - Unit 4. Human dimension of environmental security (institutions, defense)
    - References

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

ENSEC Modules

The major challenge concerns the global environmental change, focusing on the interactions between ecosystems and mankind, the effects of global environmental change on environmental degradation, the effects of increasing social request for resources, ecosystem services, and environmental goods. The relevant objects of environmental security are complex adaptive systems with two main components – the social, characterized by human intent, and the ecological, rising without intent; these have interacted historically, and society strongly determines the landscape ecological components of such systems (Zurlini, Müller, 2008).

In the 10 presented Modules, we intend to give you a broad presentation and, in some aspects, detailed knowledge of Environment Security topics, nowadays challenges and particular subjects related to the management of a rising threat to our planet. Any person can register in ENSEC platform and attend any or all the Modules.

Survey about the Virtual Learning Platform

After visiting ENSEC VLP Platform and/or one or some of the Modules, please, help us improve filling this survey and the Module surveys.

M01: Introduction to Environmental Security

Course ›

M02: Forest Fire Land Restoration

Course ›

M03: Remediation of Polluted Soils

M04: GIS and Environmental Management/Security

M03: Remediation of Polluted Soils

Course ›

M04: GIS and Environmental Management/Security

Course ›

M05: Climate Change and Waste Land Restoration

Course ›

M06: Climate Change Mitigation and Adaptation Systems

Course ›

M07: International Climate Change Governance

Course ›

M08: Forests, Poverty and Environmental Security

Course ›

- **Trainingplatform**

https://ensec.web.uma.pt/

2.5 Images taken during the event

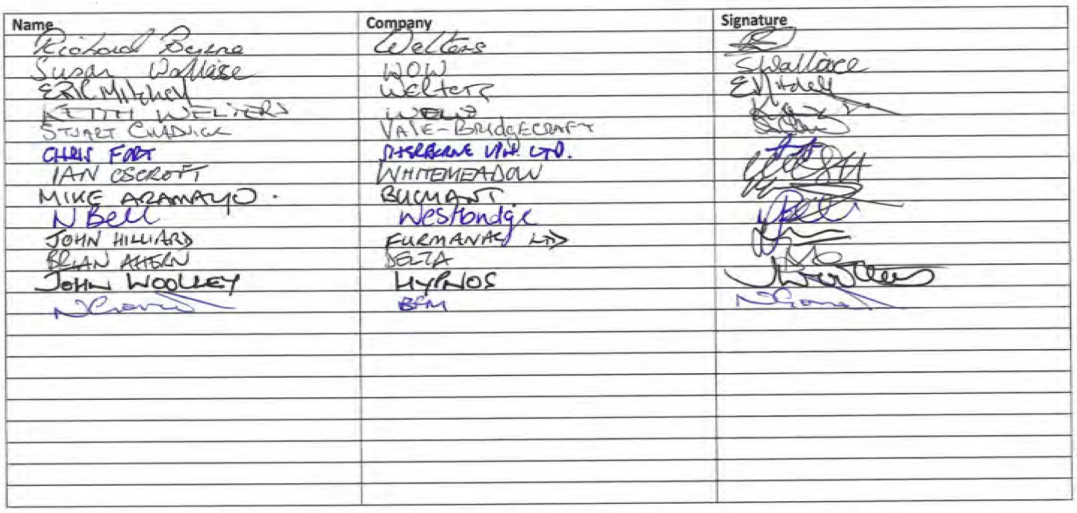
2.6 Feedback from participants

Please insert some comments made by some of the participants (Name-organisation-comment regarding the content of the materials covered)

Comments from participants
Opinion regarding IO1. Report on the environmental security Industry: Current skills and qualifications needs. Name-Organisation- comment: **John Walker – Environmental Advisor (EKFB):** The report is highly complete and well balanced and serves as a basis for the whole project.
Opinions regarding IO2. -Training path, learning content structure and guidelines for trainers. (Activity Type: Curricula, courses, joint study programmes, common modules, integration of a greater variety of learning modes (distance, part-time, modular learning) Name-Organisation- comment: **Peter Harding – Principle lecturer (retired):** I totally agree with the decision of the partnership of dividing the Training path in 5 different specializations giving the student the chance of taking those courses they are more interested in.
Opinions regarding IO3: -Learning Platform (Activity Type: Learning, teaching, training, youth work materials and methods, pedagogical approaches and tools). Name-Organisation- comment: **R Thompson – Student:** ENSEC training platform looks easy to use it. It Is not normal to find free Higher Education with such quality.
Opinions regarding IO4: Modules Material (Activity Type: Learning, teaching, training, youth work materials and methods) Name-Organisation- comment: **D Browne – student:**

3 Annexes

- Attendant list companies



Name	Company	Signature
Richard Byrne	Welters	
Susan Wallace	WOW	
ERIC Mitchell	Welters	
KEITH WELLER		
STUART CUDDICK	VALE-BRIDGECRAFT	
CHRIS FOX		
IAN OSCROFT	WHITEMEADOW	
MIKE ARAMAYO	BUCMAST	
N Bell	Westondgx	
JOHN HILLIARD	FUEMANAG LTD	
BRIAN AHERN	DELTA	
JOHN WOOLLEY	HYPNOS	
	BFM	

4 Annexes

- Attendant list students

1	Global Chair Co	Justin	Adams
2	Independent consultan	John	Shea
3	Hayley Mclane	Magaly	Boittin
4	Enashaw	Stuart	Taylor
5	Independent consultant	Olivia	Warham
6	Independent consultant	Anthony	Smart
7	National Bed Federation	Jessica	Alexander
8	Serene	Georgina	Porter
9	Cabinet Maker Magazine	Debbie	Johnson
10	Kitchen and Bathroom Specialist Association	Allister	Reed
11	Independent consultant	Richard	Thompson
12	Independent consultant	lisa	Campagnola
13	Delta	Brian	Ahern
14	Craftwood	Colin	Markwell
15	Mascari	Renee	Mascari
16	Blum	Jacqui	Trowbridge
17	Acres Consultancy	Simon	Acres
18	BFM	Nick	Garratt
19	FIRA	Phil	Reynolds
20	Ocee Design	Emm	Welch
21	Morgan Contract Furniture	Gareth	Stephenson
22	Nova Interiors	Jonathan	Buchanan
23	Element	Steven	James
24	Burgess Furniture	Craig	Kent
25	Fishpools	Ed	Duggan
26	KIE Europe	Jonathan	Hindle
27	Anti Copyright in Design	Dids	Macdonald
28	William Hands	Debbie	Browne
29	CDUK Ltd	Gary	Baker

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ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector

Agreement Number: 2017-1-UK01-KA203-036521

Multiplier Events Report

Romania

Main Author: Ioan Vasile Abrudan (UTB)

https://ensec-project.eu/

"ENSEC" has been funded with support from the European Commission. This publication reflects the views only of the author and the Commission cannot be held responsible for any use which may be made of the information contained therein

Report:

Report:

1 Introduction

The field of Higher Education (HE) has been recognised as one of the key drivers within the EU2020 Strategy to overcome the socioeconomic crisis, to boost growth and jobs and to foster equity and inclusion. Environmental scarcity is determined by environmental change, population size and growth, and unequal distribution (or access to) resources. Of these factors, unequal access to resources is not bound by physical limits alone. It is also a reflection of societies' lack of knowledge and subsequently education in the field area. Leading examples of emerging environmental change are: depletion and pollution of fresh water supplies, depletion of fisheries, degradation and disappearance of biodiversity, degradation and loss of agriculture lands, food and health safety, stratospheric ozone depletion, and global warming. Of these major environmental changes facing also Europe, the first five are now, or will likely be, growing threats to environmental security in the near term; the latter two will increasingly affect human security in the coming 50 years.

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This Strategic Partnership proposes the creation of a flexible learning pathway in line with the needs of learners and companies in theenvironemntal security related sectors. It will provide a joint module program between HE and VET that will CAPITALIZE COMPANIES WITH PREPARED YOUTH, providing enterprises innovation, expertise and added value.

ENSEC see the CREATION OF AN INTERNATIONAL MASTER'S DEGREE MODULES ON ENVIRONMENTAL SECURITY developed by 4 universities, 3 SMES all of them currently supporting educational programmes dealing with the sector in different ways, the consortium is completed by a Social partner. This initiative addresses the needs of

each participant entity, their staff, students and community. From this main objective, several specific objectives are defined:

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SO2. Create FLEXIBLE LEARNING PATHWAYS able to provide and recognize HE students the most important competences and skills, such as internationalisation and use of digital learning. This new pathway will include validation of prior learning and will aim to improve the level of both sector specific, high level basic and transversal competences and skills, with particular regard to those relevant for the labour market in the environmental related sector: management, entrepreneurship, languages and leadership as well as their contribution to a cohesive society, in particular through increased opportunities for both learning and labour mobility and through strengthened cooperation between HE, VET, and work.

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2 Multiplier event held in Transilvania University (UTB)

2.1 Aim of the multiplier event

The aim of this final dissemination event is to showcase the work performed under the framework of the ENSEC project: results, lessons learned and outcomes and findings beyond the participating organisations. This will enable a wider community to benefit from a work that has received EU funding.

TUB will be in charge of arranging the final dissemination event in the RO where at least 20 representatives from the vested sectors, Higher Education, employment and other stakeholders will be involved. The event will take place in the last month of the project, once all outputs are completed and the training modules integrated in the 1st release version of the platform. The exact day will be defined during the last six months of the project (presumptively April 15th 2020). OEM will support TUB in arranging this event. However, all costs for this Multiplier Event have been applied by the Activity Leading Organisation.

2.2 Intellectual outputs covered

-Environment Security: Current skills and qualifications state of the art (Activity Type: Survey, Comparative analysis, Evidence Gathering)

-Training path, learning content structure and guidelines for trainers. (Activity Type: Curricula, courses, joint study programmes, common modules, integration of a greater variety of learning modes (distance, part-time, modular learning).

-Learning Platform (Activity Type: Learning, teaching, training, youth work materials and methods, pedagogical approaches and tools).

-Modules Material (Activity Type: Learning, teaching, training, youth work materials and methods).

2.3 Date, location and the list of participants.

Shortdescription ofthe event **includingtheprogramme**.

Programme:

Final disseminationevent of ENSEC April 30th 2020

Objectives

- Presentation of the European project ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector).
- Further information about the Master Degree and its Training Paths.
- Introduction and access to the ENSEC training platform.
- Explanation on how to navigate in the ENSEC training platform.

Schedule

9.00 Accreditation of participants

9.15 Welcome of participants and presentation of UTB

9.45 Presentation of the European project ENSEC (Development of a European study program: International Master's Degree for the Environmental Security Sector)

10.15 International master's degree in the environmental security: an opportunity to study and training abroad

11.00 Coffee break – networking

11.15 Introduction to the ENSEC training platform

12.30 Access to the ~ENSEC training platform

13.30 End of the event

The final dissemination event in Romania was hosted by the Transilvania University on its facilities.

The main objective of the conference event was to generate awareness among the target groups about project results and to showcase the work performed under the framework of the ENSEC project: results, lessons learned, outcomes and findings beyond the participant organisations.

On the one hand, attendees were given information about the project, its objectives and the different activities that the partnership has carried out in order to develop the Master. On the other hand, participants also received useful data about the Master Degree. They were informed about the five Training paths or specialization: Design, Business, Research, Production and General Master and its different possibilities contained. Moreover, there were a section to explain the developed training platform. They were teacher to how to sign up and even how to use it.

The main public of the final event were students and teachers; one of our main target groups. Attendants were invited to provide their feedback such as comments or suggestions that are included below.

2.4 Materials used for the presentation to the event

- **Power-point:**

Prezentare rezultate proiect ENSEC

Brasov, 28.07.2020

Prof. dr. ing. Ioan Vasile Abrudan

Report:

Erasmus+

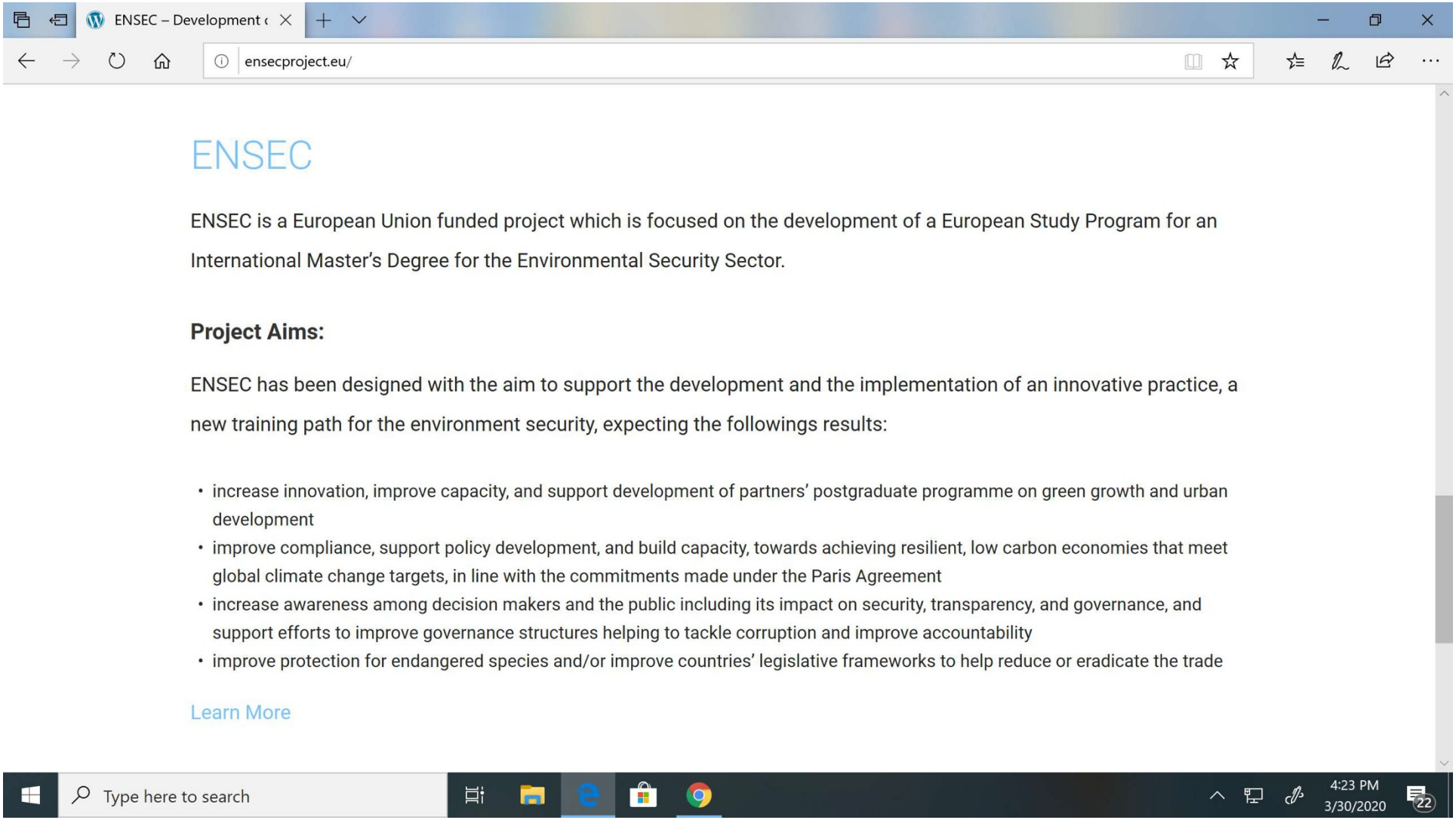
Proiect

ENSEC

Erasmus+

Scop

ENSEC



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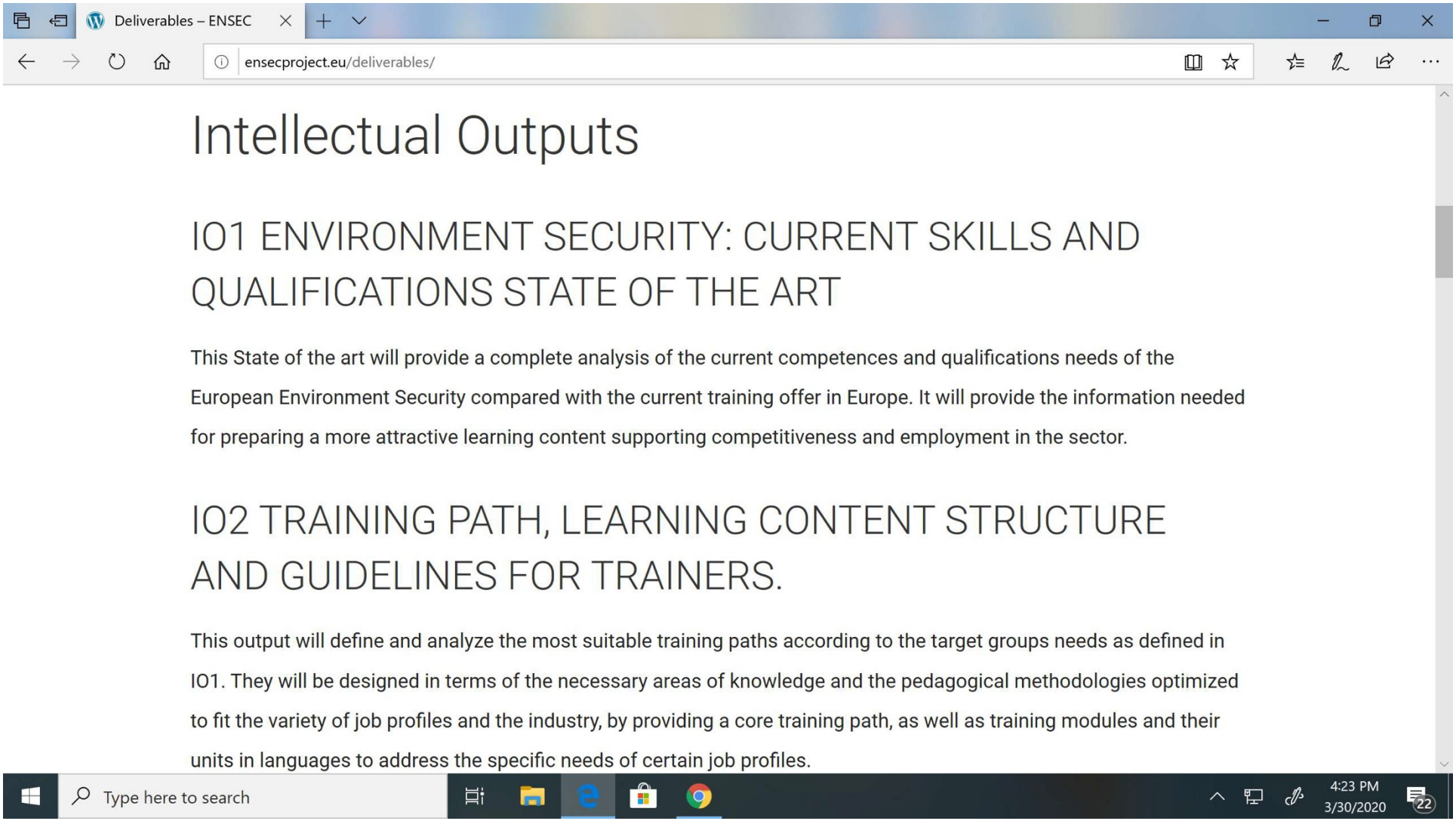

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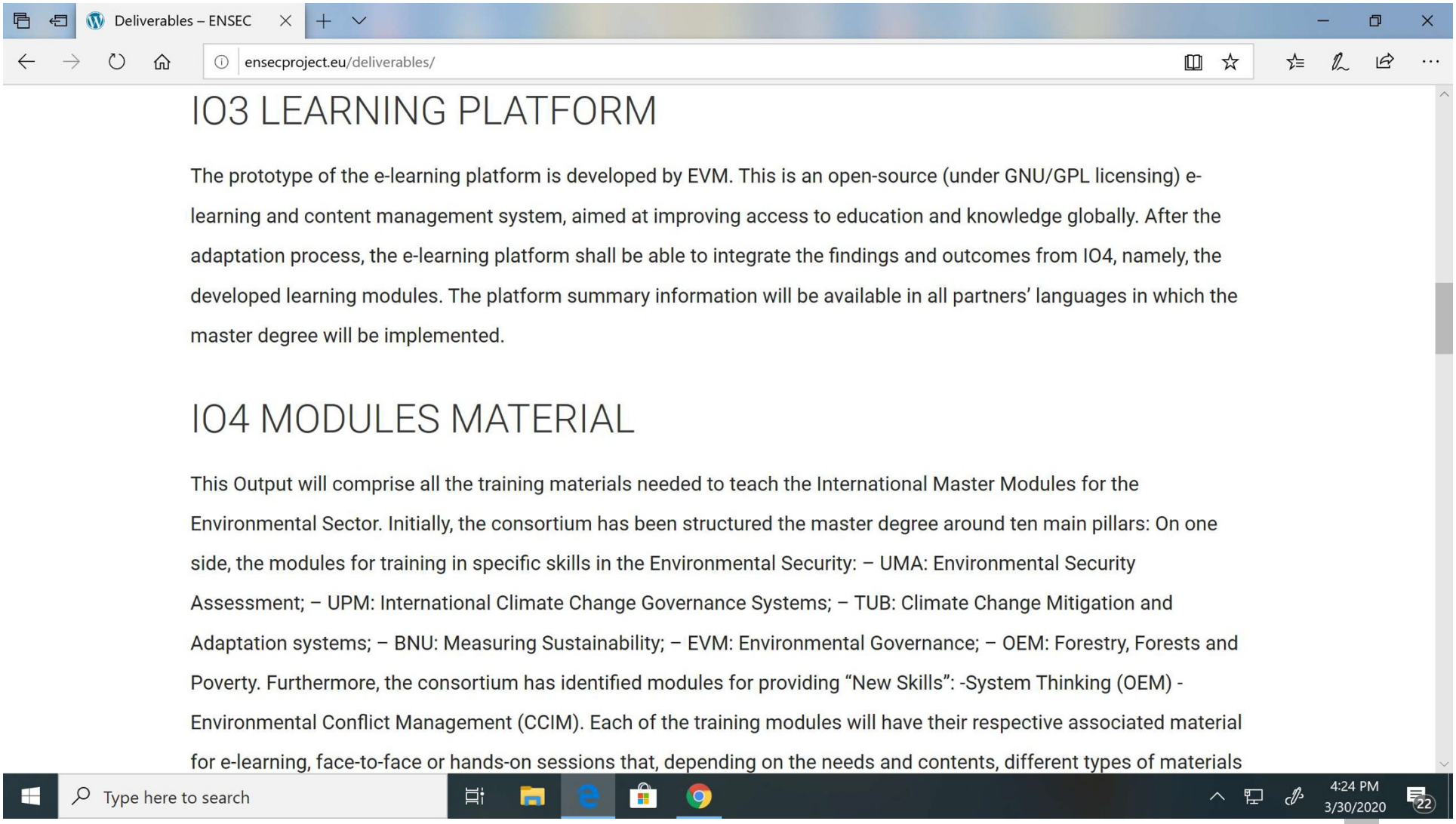
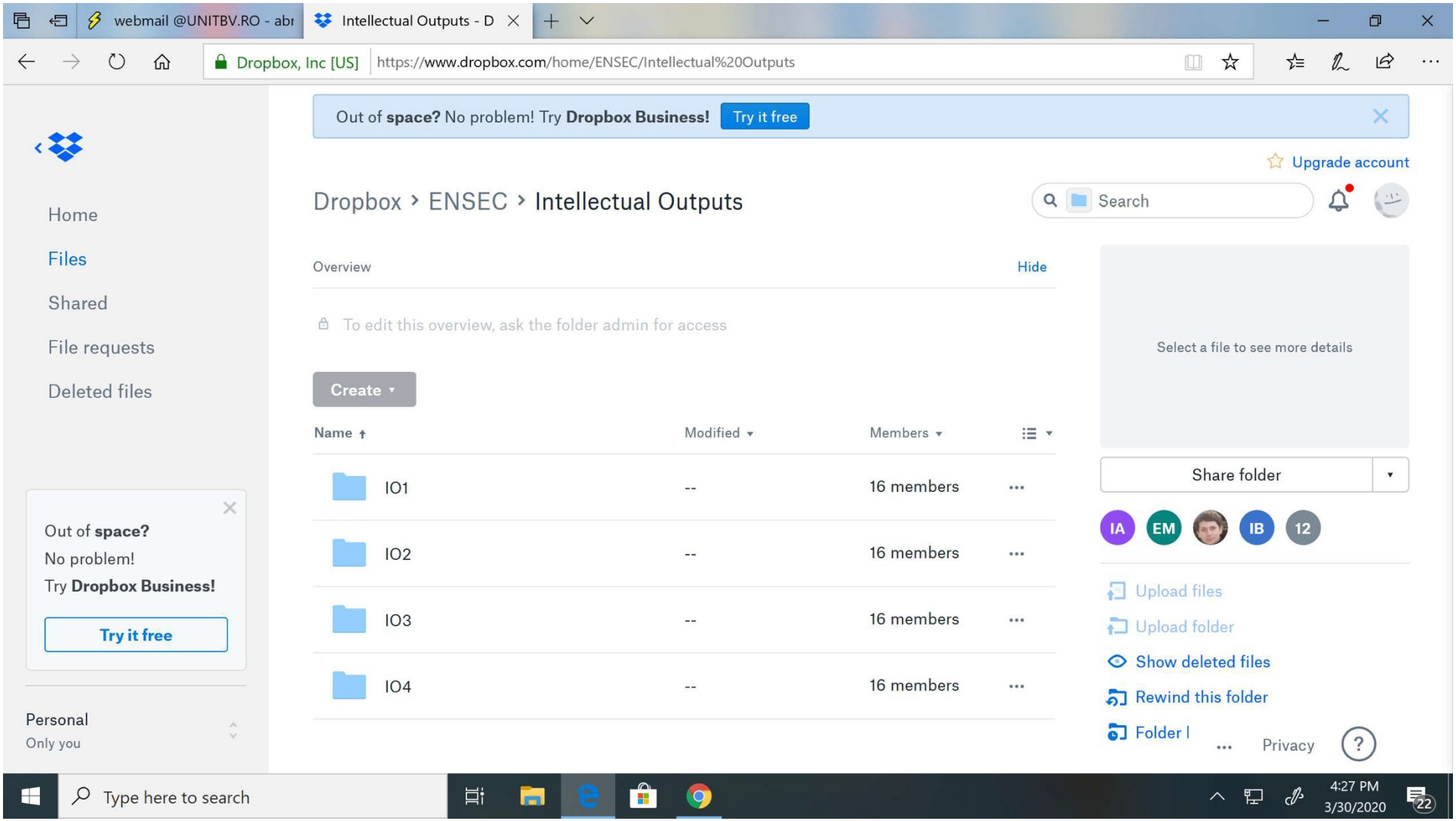


Platforma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Intellectual Outputs - D
Dropbox, Inc [US]
https://www.dropbox.com/home/ENSEC/Intellectual%20Outputs
Out of space? No problem! Try Dropbox Business!
Try it free
Upgrade account
Home
Files
Shared
File requests
Deleted files
Dropbox › ENSEC › Intellectual Outputs
Search
Overview
Hide
To edit this overview, ask the folder admin for access
Select a file to see more details
Create
Name
Modified
Members
IO1 -- 16 members
IO2 -- 16 members
IO3 -- 16 members
IO4 -- 16 members
Share folder
IA
EM
IB
12
Upload files
Upload folder
Show deleted files
Rewind this folder
Folder l
Privacy
Out of space?
No problem!
Try Dropbox Business!
Try it free
Personal
Only you
Type here to search
4:27 PM
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Platforma

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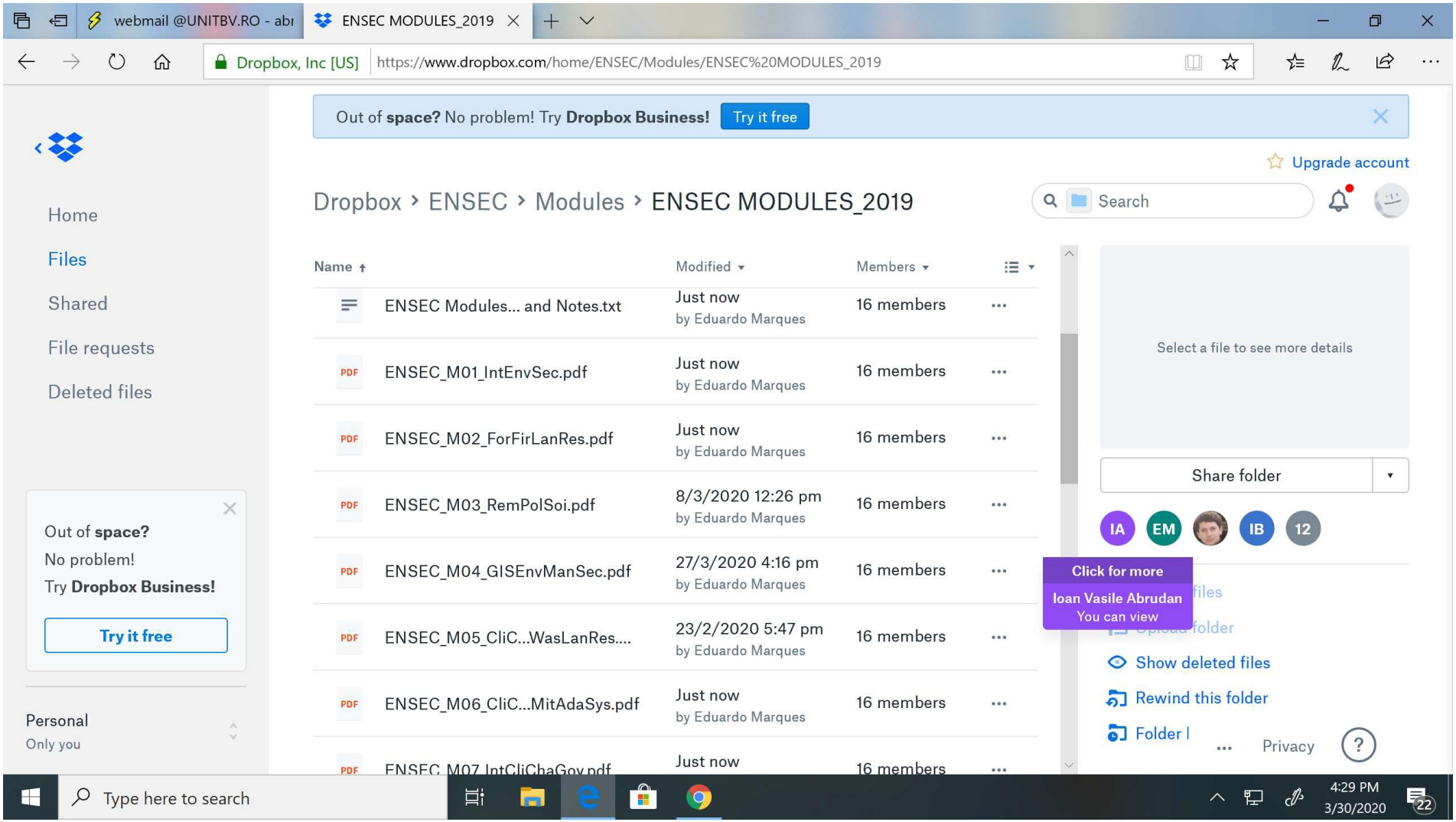

Module

AUTHORS
INSTITUTION

NITA MIHAI DANIEL
Transilvania University of Brasov

GIS AND ENVIRONMENTAL MANAGEMENT/SECURITY

.Erasmus+

ENSEC

Lifelong
Learning
Programme

j ENSEC

4. i\lodulc content

nil l. GEOGRAP HIC ' ff ORMAT IO ' SYSTEMS (G IS)

l. l. Il asics of GIS

1.1.1. Vector dal'a

\' e<':tor data provide a way to represent rea l world fcaturr'i within the GIS environm ent A rea1ure is anything you can see on the landscape. Imagine you are standing on the top of a h ill. Looking down you can see houses, roods, trees, rivers, and so on (see Figure I). Each one of these things would be a feature when we represent them in a G JS Appl icat ion. Vector features have aurihut , which consist of lext or num erical i nformation that d crihe the features.

Figure I. Land cape piclure

Looking over a landscape you can see the main features, such as roads, ho uses and trees.

A vector feaiure has its shape represented using geomcir) . The geometry is made up of one or mo re interconn ecled urlicc s. A venex describes a position in s pace using an X, Y and optionally z axis. Geomclries which have venices with a Z axis arc ofien referred to as 2.50 since tht:y describe height or dept.h at each vertex, but not bo1h.

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T RANSILVANIA U NIVERSITY OF B RASOV

INTERNATIONAL CLIMATE CHANGE GOVERNANCE

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Select an area to comment on

a

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Lifelong Learning Programme

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4. .Module conlent

nit I. Scien1ific Bas is or Cl imat e C ha nge

"Climate change in IPCC usage refers to any change in climate over time , whether due to natural varia bili ty or as a result of human nctivi1y . This usage differs from that in the Framework Convention on Climate Change, where climate change refers to a change of climate that is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and that is in addition 10 natural climate variability observed over comparable time periods". In figure I is shown the anthropogenic drivers, impacts of and responses to climate change, and their linkages (Source: 1-PCC, 2007).

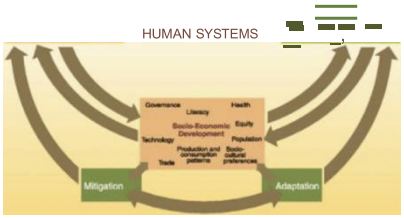


Figure I. (So urce: IPCC, 2007) The anthro pogenic drivers, impacl s of and responses 10 climate chan ge. and their linkages.

I. I. O bservatio ns or climat e chan ge

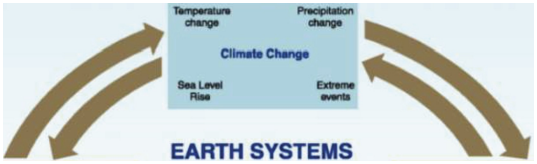
As a result of human act ivi1ies, since 18 th centu ry, 1hc concentr.uions of carbon dio xide , methane and nitrous oxide increased gradually. These evidenc es were obtained studying ice cores. The main causes of global increase of carbon dioxid e coneen!!!!tion were fossil fuel nnd la nd·u sc change . On the olher ha nd, agriculture was the main source of concentrat io n increase for methane and nitrous oxide. This increase of concentration for the mentio ned gases created a greenho use effect with climate warming consequen ces.

a

4. Module content

Unit I. Scientific Basis of Climate Change

"Climate change in !PCC usage refers to any change in climate over time, whether due to natural variability or as a result of human ac tivity . This usage differs from that in the Framework Convention on Climate Chan ge, where climate change refers to a change of climate that i attributed directly or indirectly to human activity that alters the compo ition of the global atmo phere and that i in addition to natural climate variability ob erved over comparable time periods". In figure I i shown the anthropogenic driver , impacts of and re pon es to climate chan ge, and their linkages (ource: IPCC, 2007).



.Erasmus+

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2.2.2. Reporting GHG inventories

(Source: www.unfccc.int)

The quality and credibility of GHG inventories rely on the integrity of the methodologies used, the completeness of reporting, and the procedures for compilation of data. To promote the provision of credible and consistent GHG information, the Conference of Parties (COP) has developed standardized requirements for reporting national inventories.

The UNFCCC reporting guidelines on annual inventories require Parties included in Annex I to the Convention (Annex I Parties), by 15 April each year, to provide annual national GHG inventories covering emissions and removals of direct GHGs (C02, CH4, 20, HFCs, PFCs and SF6) from six sectors (Energy, Industrial processes, Solvents, Agriculture, LULUCF, Waste), and for all years from the base year or period to the most recent year.

Under the UNFCCC reporting guidelines for Annex I Parties, inventory submissions are in two parts:

- Common reporting format (CRF) - a series of standardized data tables containing mainly numerical information and submitted electronically

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5. References

Un it 1:

a) Ref I LPCC, 2007: Climate Change 2007: Synthesis Repo rt. Contribution of Working Groups 1, II and lil to the Fourth Assessment Report of the Lntergovemmental Panel on Climate Change [Core Writing Team, Pachaur i , R.K and Reisin ger, A. (eds .)]. lPCC, Geneva , Switzer land, 104 pp.

b) Ref 2 SRES, 2000: A Special Report of Working Group W of the intergovernmental Panel on Climate Change . Published by the press syndicate of the University of Cambridge , 608 pp.

Un it 2:

a) Ref I Roble do, C., & Mase ra, 0 . (2007). Developments in un fccc/ipcc di cussions regarding reducing emissions from forest degradation and deforestation and implications for tropical forests and tropical timber producer . Port More by, Papua ew Guinea: INTERNATlO AL TROPICAL TIMBER COUNCIL.

b) Ref 2 LPCC, 2007: Climate Change 2007: Synthesis Repo rt. Contribution of Working Groups 1, II and llJ to the Fourth Assessment Report of the Inter governmenta l Panel on Climate Change [Core Writing Team, Pachaur i , R.K and Reisinger, A. (eds .)]. IPCC, Geneva , Switzerland, 104 pp.

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Prezentare rezultate proiect ENSEC

Brasov, 30.04.2020

Prof. dr. ing. Ioan Vasile Abrudan

Transilvania
University
of Brasov

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ENSEC

ENSEC is a European Union funded project which is focused on the development of a European Study Program for an International Master's Degree for the Environmental Security Sector.

Project Aims:

ENSEC has been designed with the aim to support the development and the implementation of an innovative practice, a new training path for the environment security, expecting the followings results:

- increase innovation, improve capacity, and support development of partners' postgraduate programme on green growth and urban development
- improve compliance, support policy development, and build capacity, towards achieving resilient, low carbon economies that meet global climate change targets, in line with the commitments made under the Paris Agreement
- increase awareness among decision makers and the public including its impact on security, transparency, and governance, and support efforts to improve governance structures helping to tackle corruption and improve accountability
- improve protection for endangered species and/or improve countries' legislative frameworks to help reduce or eradicate the trade

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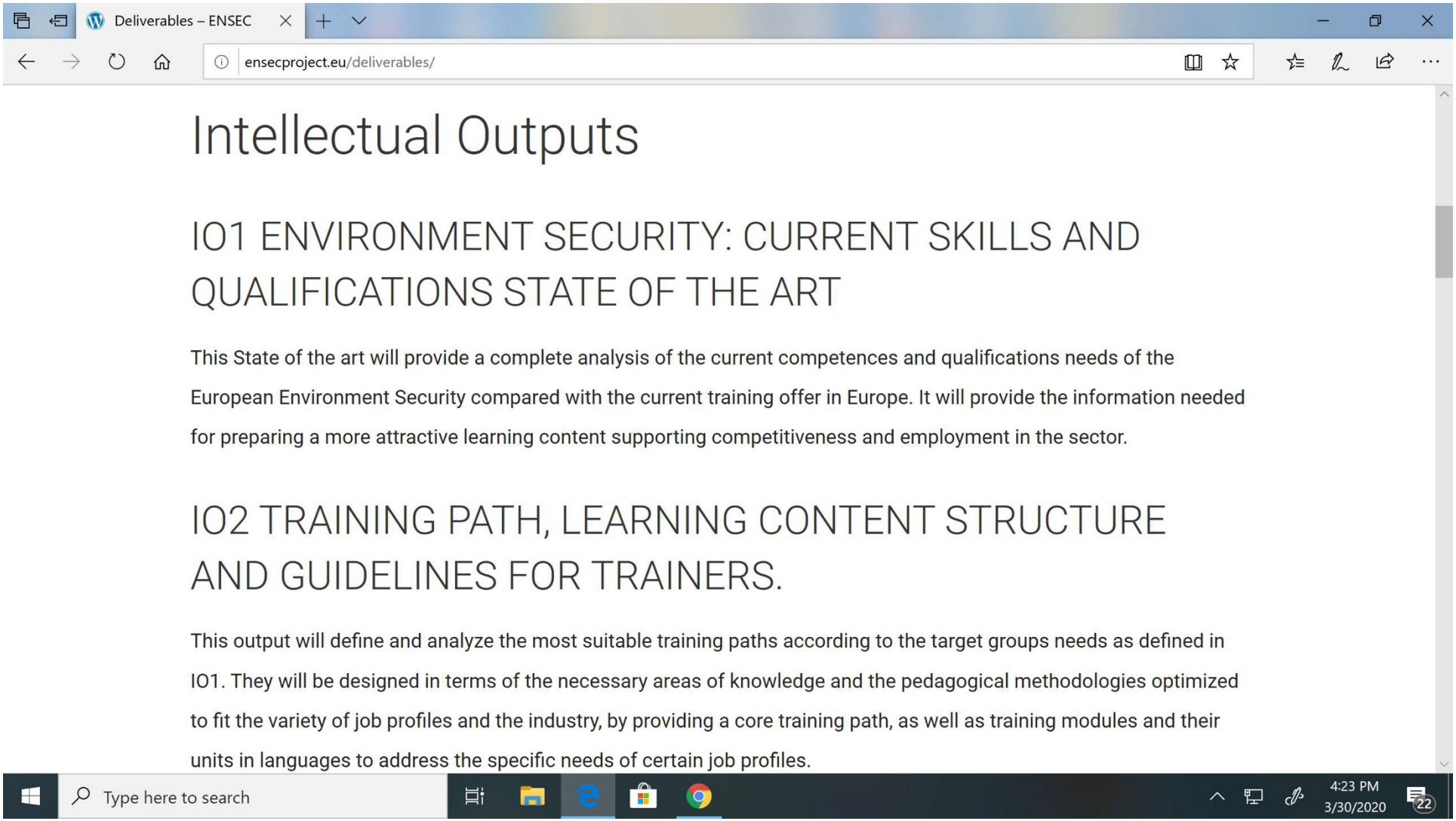

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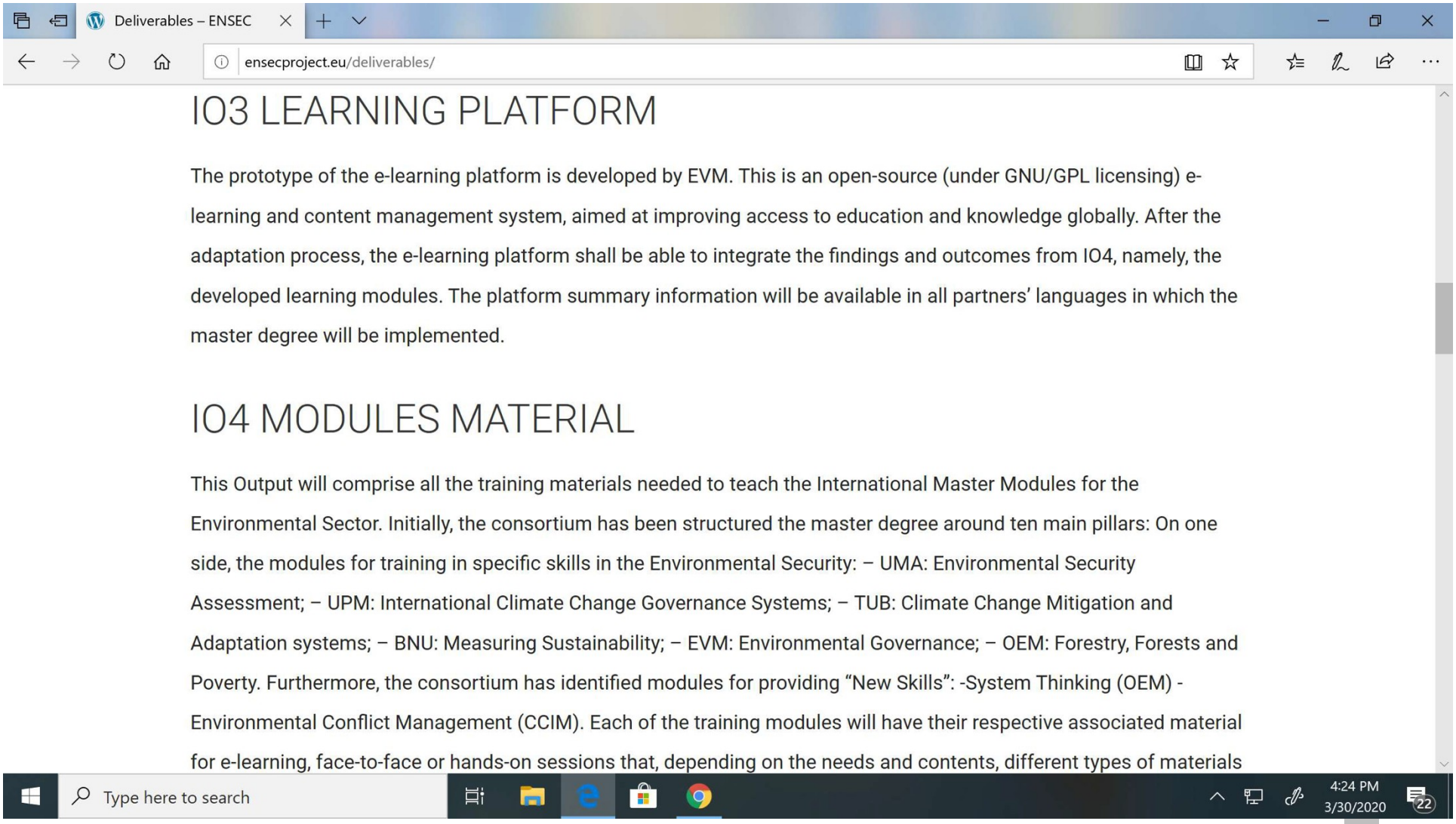

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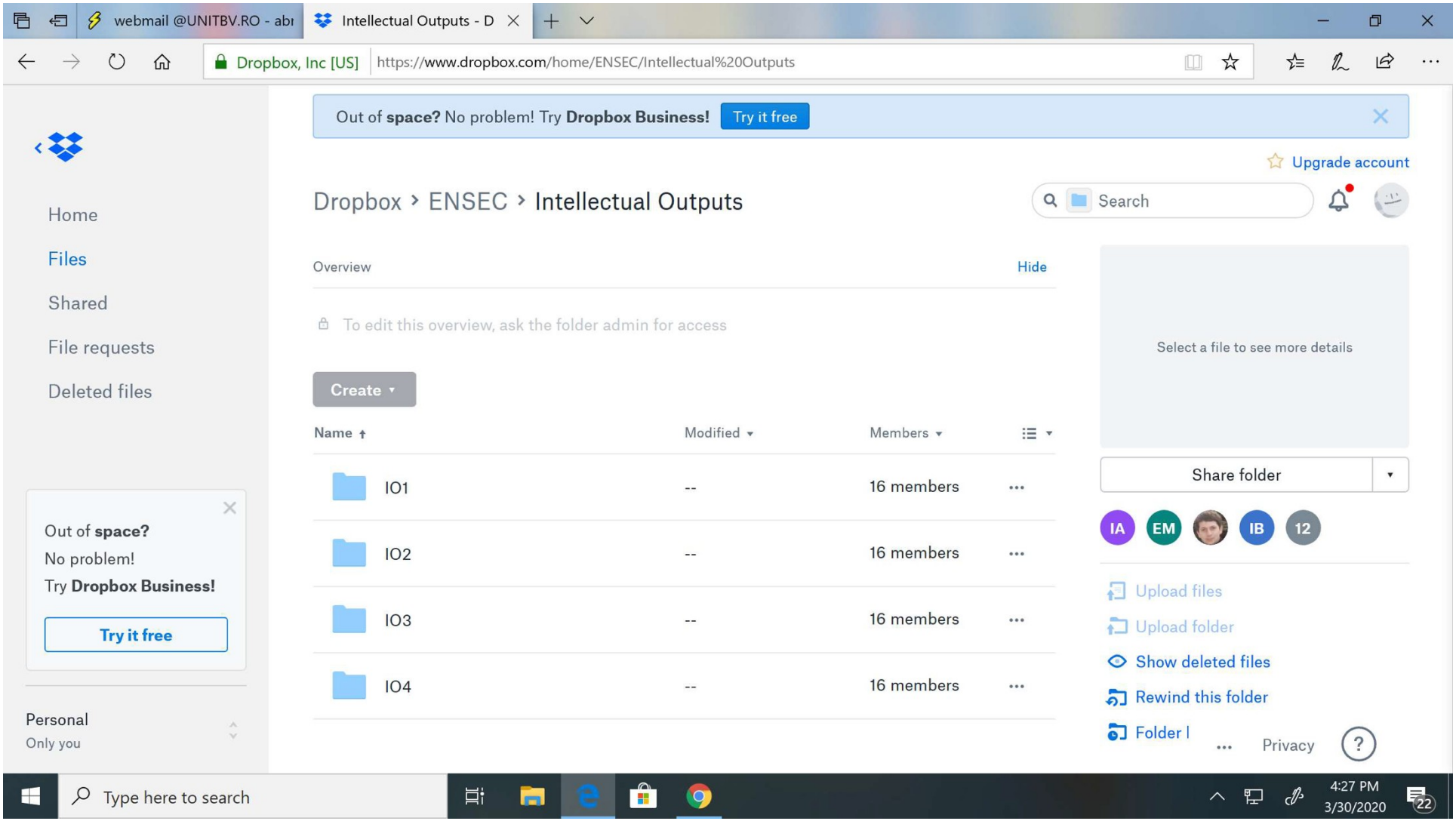
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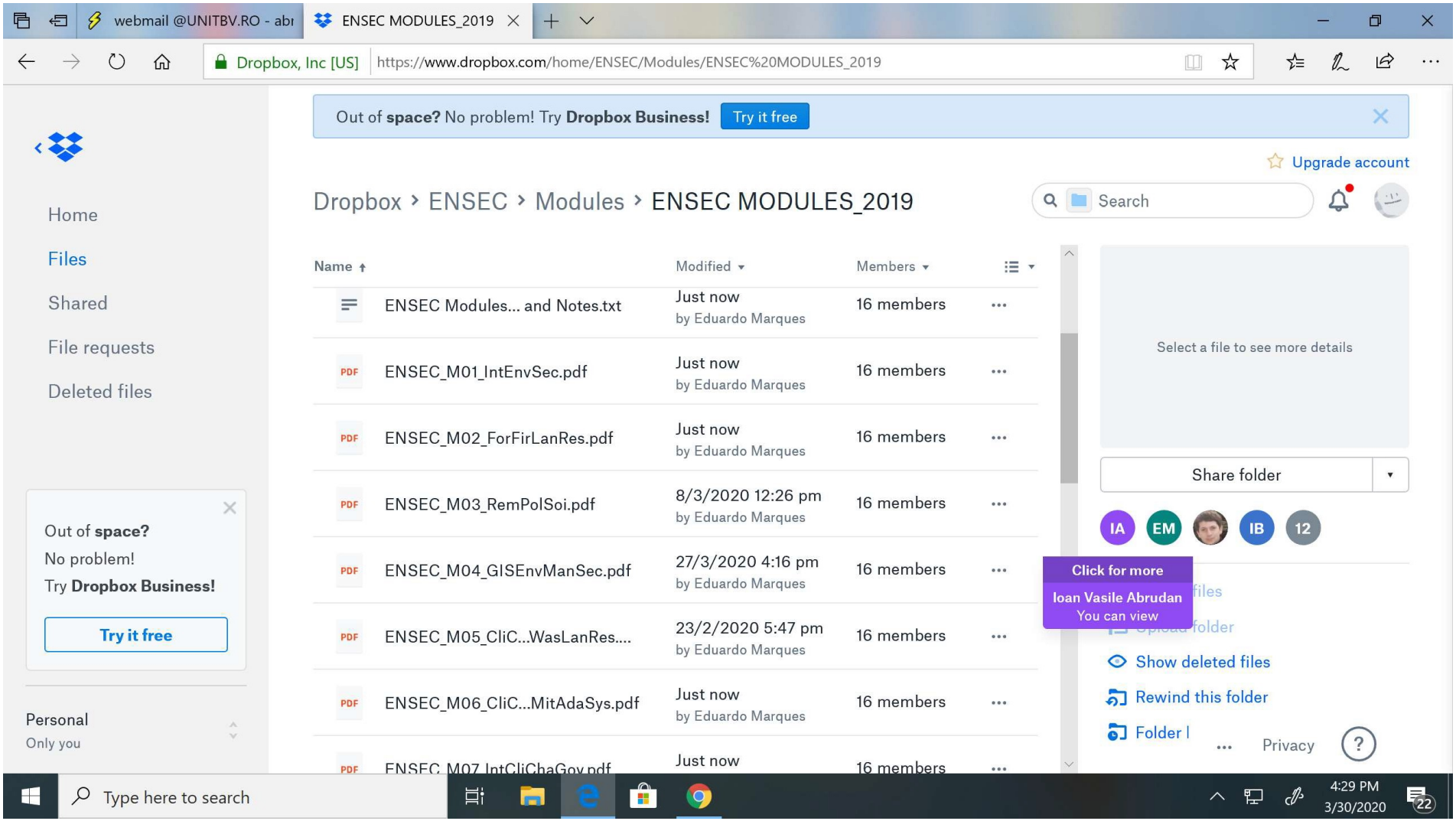

Module

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AUTHORS
INSTITUTION

NITA MIHAI DANIEL
Transilvania University of Brasov

GIS AND ENVIRONMENTAL MANAGEMENT/SECURITY

Module

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4. **Module content**

Unit 1. GEOGRAPHIC INFORMATION SYSTEMS (GIS)

1.1. Basics of GIS

1.1.1. Vector data

Vector data provide a way to represent real world **features** within the GIS environment. A feature is anything you can see on the landscape. Imagine you are standing on the top of a hill. Looking down you can see houses, roads, trees, rivers, and so on (see Figure 1). Each one of these things would be a **feature** when we represent them in a GIS Application. Vector features have **attributes**, which consist of text or numerical information that **describe** the features.

Figure 1. Landscape picture

Looking over a landscape you can see the main features, such as roads, houses and trees.

A vector feature has its shape represented using **geometry**. The geometry is made up of one or more interconnected **vertices**. A vertex describes a position in space using an **X**, **Y** and optionally **z** axis. Geometries which have vertices with a Z axis are often referred to as **2.5D** since they describe height or depth at each vertex, but not both.


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4. Module content

Unit 1. Scientific Basis of Climate Change

"Climate change in IPCC usage refers to any change in climate over time, whether due to natural variability or as a result of human activity. This usage differs from that in the Framework Convention on Climate Change, where climate change refers to a change of climate that is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and that is in addition to natural climate variability observed over comparable time periods". In figure 1 is shown the anthropogenic drivers, impacts of and responses to climate change, and their linkages (Source: IPCC, 2007).

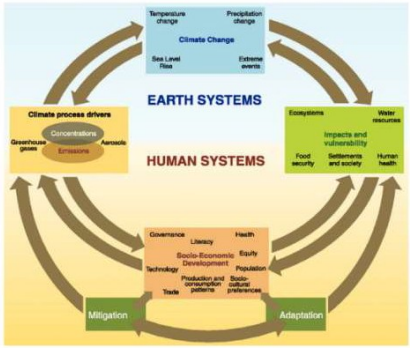

Figure 1. (Source: IPCC, 2007) The anthropogenic drivers, impacts of and responses to climate change, and their linkages.

1.1. Observations of climate change

As a result of human activities, since 18th century, the concentrations of carbon dioxide, methane and nitrous oxide increased gradually. These evidences were obtained studying ice cores. The main causes of global increase of carbon dioxide concentration were fossil fuel and land-use change. On the other hand, agriculture was the main source of concentration increase for methane and nitrous oxide. This increase of concentration for the mentioned gases created a greenhouse effect with climate warming consequences.

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4. Module content

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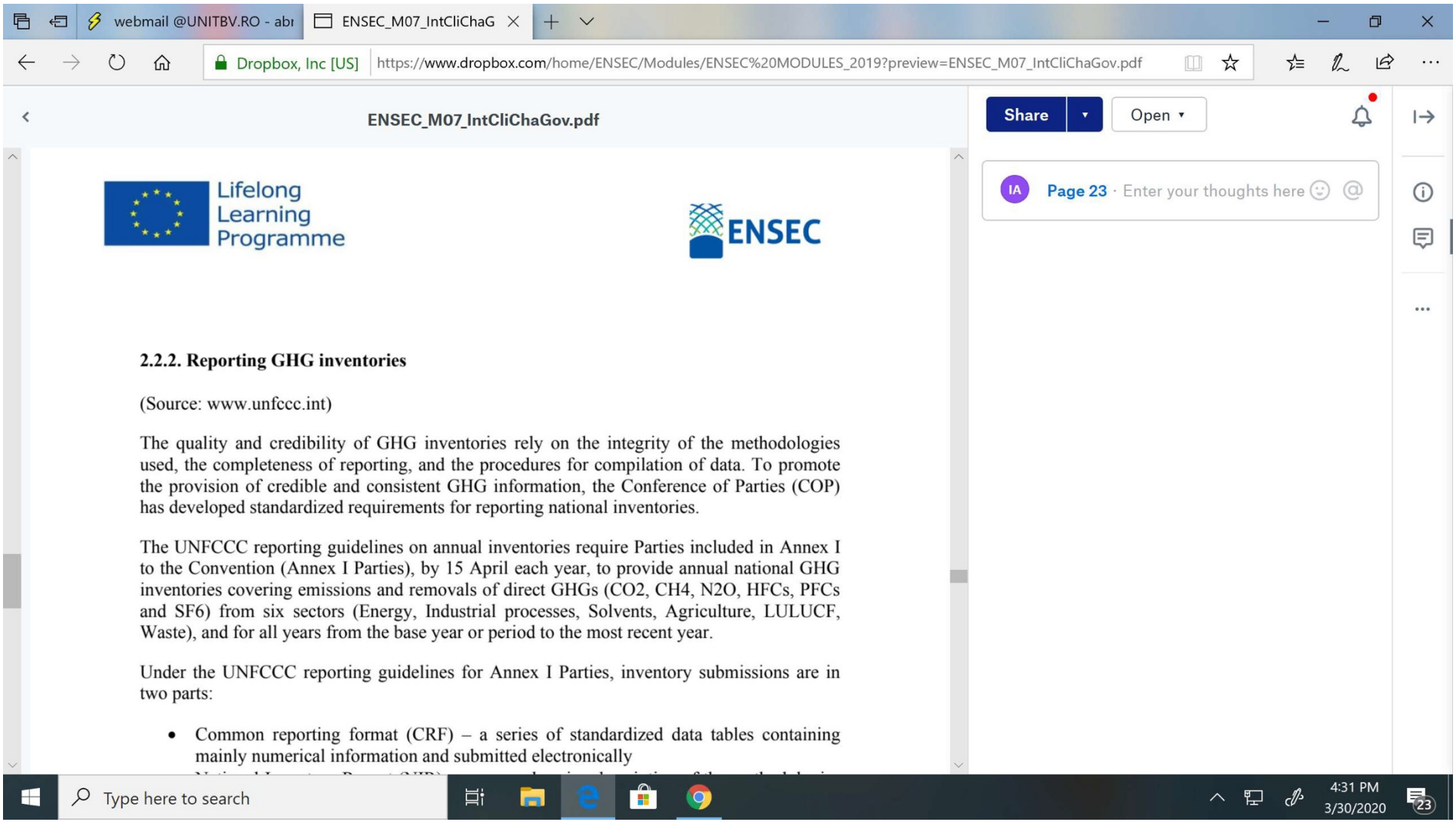

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2.2.2. Reporting GHG inventories

(Source: www.unfccc.int)

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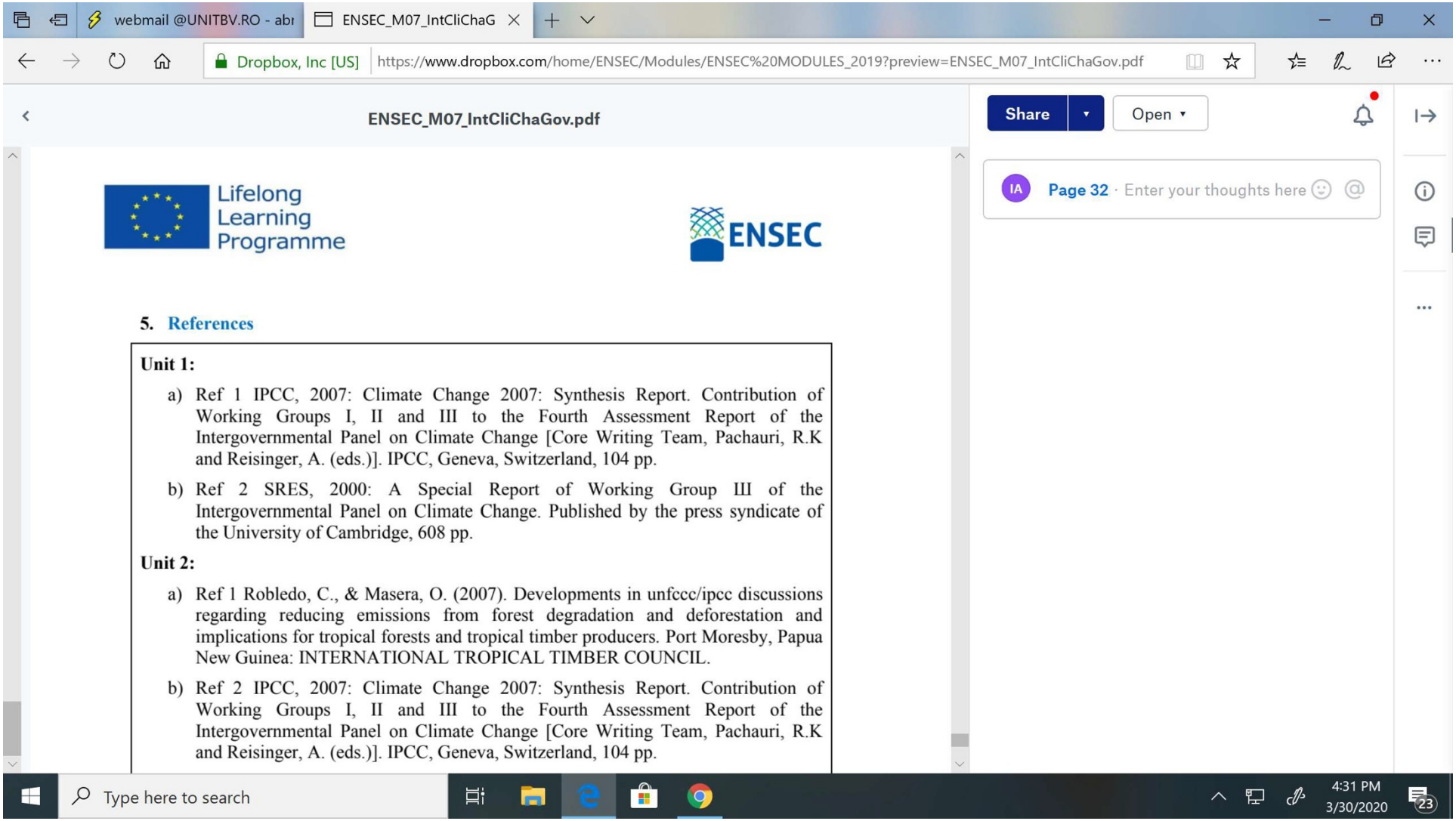
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5. References
Unit 1:
a) Ref 1 IPCC, 2007: Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, Pachauri, R.K and Reisinger, A. (eds.)]. IPCC, Geneva, Switzerland, 104 pp.
b) Ref 2 SRES, 2000: A Special Report of Working Group III of the Intergovernmental Panel on Climate Change. Published by the press syndicate of the University of Cambridge, 608 pp.
Unit 2:
a) Ref 1 Robledo, C., & Masera, O. (2007). Developments in unfccc/ipcc discussions regarding reducing emissions from forest degradation and deforestation and implications for tropical forests and tropical timber producers. Port Moresby, Papua New Guinea: INTERNATIONAL TROPICAL TIMBER COUNCIL.
b) Ref 2 IPCC, 2007: Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, Pachauri, R.K and Reisinger, A. (eds.)]. IPCC, Geneva, Switzerland, 104 pp.
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- **Trainingplatform**

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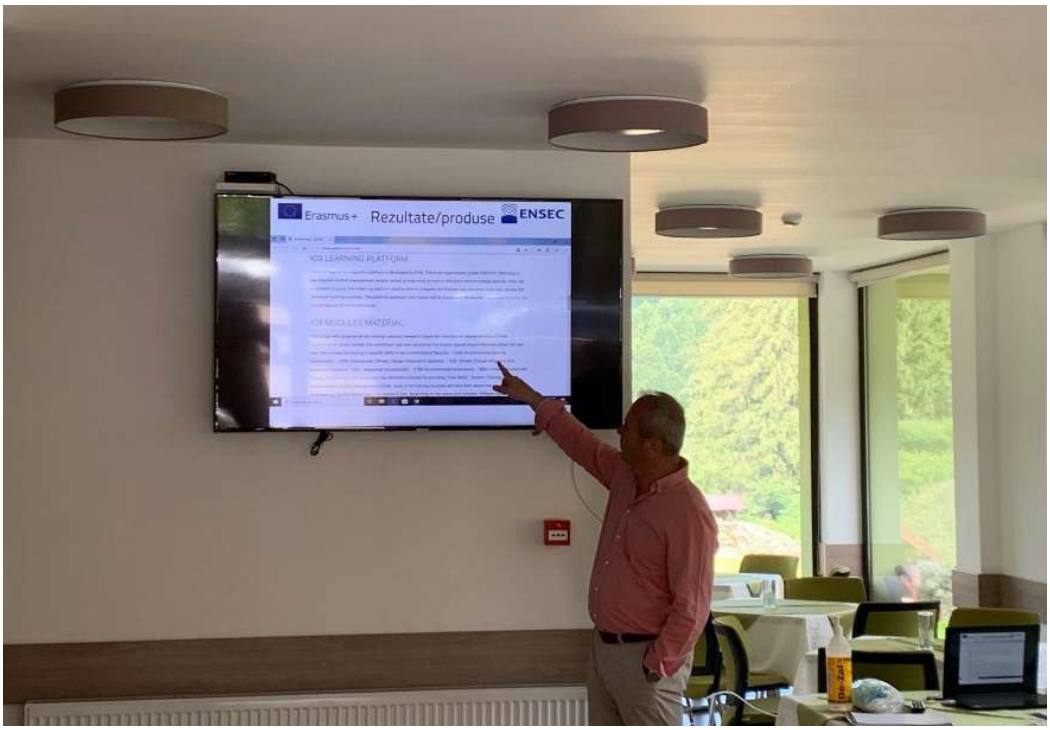
2.5 Images taken during the event

Module



3 Annexes

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List of participants

Final Dissemination Event, Brasov, Romania, July 28th 2020

DEVELOPMENT OF A EUROPEAN STUDY PROGRAM INTERNATIONAL MASTER'S DEGREE FOR THE ENVIRONMENTAL SECURITY SECTOR - ENSEC

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2	Mihaela Saucki	Garda forestieră Bv	
3	Curtu Alexandru Lucian	Univ. Transilvania Bv	
4	Vitus Levente Arpad	RPL OS Padurea Bogății RA	
5	Ciucanu Valentin	RPL OS Bucegi Pd RA	
6	Noaghea Nelu Petre	AJVPS BV - OS Crisnan	
7	Adrian Apostu	RNP - Romsilva	
8	Rozorea Gabriel	R.P.L.P. Zărnești	
9	Hetmerean Sofia	RPLP Săcele R.A.	
10	Bordas Florin	RPLP Măieruș RA	
11	Ionescu Ovidiu	UTBv	
12	Urdea Sorin	RPL O.S Pădurile Șincii	
13	Stanciu Cătălin	RPL OS Pădurile Făgărașului	
14	Botoman Dumitru	RPL.P. Stejarul R.A. Rupea	
15	Kovacs Karoly	RPLP Piatra Craiului	
16	Serban Gheorghe Valentin	RPLP. Săcele R.A	
17	Dumitru Cojocaru	R. Moldova	
18	Dumitru Galupa	R. Moldova	
19	Pavel Ionuț	RNP - Romsilva	
20	Mihai Dragoș	RNP - Romsilva	
21	Comsa Eugen	O.S. Ciucaș R.A	
22	Olteanu Dan Viciu	RPLP Kronstadt RA	
23			
24			
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- Attendant list

This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector

Agreement Number: 2017-1-UK01-KA203-036521

Multiplier Events Report

Portugal

Main Author: Eduardo Marques and Marco Vieira

https://ensec-project.eu/

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1 Introduction

The field of Higher Education (HE) has been recognised as one of the key drivers within the EU2020 Strategy to overcome the socioeconomic crisis, to boost growth and jobs and to foster equity and inclusion. Environmental scarcity is determined by environmental change, population size and growth, and unequal distribution (or access to) resources. Of these factors, unequal access to resources is not bound by physical limits alone. It is also a reflection of societies' lack of knowledge and subsequently education in the field area. Leading examples of emerging environmental change are: depletion and pollution of fresh water supplies, depletion of fisheries, degradation and disappearance of biodiversity, degradation and loss of agriculture lands, food and health safety, stratospheric ozone depletion, and global warming. Of these major environmental changes facing also Europe, the first five are now, or will likely be, growing threats to environmental security in the near term; the latter two will increasingly affect human security in the coming 50 years.

Staff qualifications, the inability to attract young workers remain one of the crucial points in Europe. To boost the recruitment of highly prepared staff requires initiatives addressing learning to make the Environmental management and security related sectors attractive and to transform both the academic knowledge and high-level basic and transversal competences to be useful and applicable.

The design, development and implementation of innovative Master modules bridging the areas of science, law, finance and education is an integral part of the overall mission of ENSEC.

ENSEC has been created to promote the anticipation of future skills needs and to enhance the opportunities for cooperation between HE, VET and industry, providing opportunities for cooperation among stakeholders as well as the exchange and transfer of knowledge to increase know-how.

This Strategic Partnership proposes the creation of a flexible learning pathway in line with the needs of learners and companies in theenvironemntal security related sectors. It will provide a joint module program between HE and VET that will CAPITALIZE COMPANIES WITH PREPARED YOUTH, providing enterprises innovation, expertise and added value.

ENSEC see the CREATION OF AN INTERNATIONAL MASTER'S DEGREE MODULES ON ENVIRONMENTAL SECURITY developed by 4 universities, 3 SMES all

of them currently supporting educational programmes dealing with the sector in different ways, the consortium is completed by a Social partner. This initiative addresses the needs of each participant entity, their staff, students and community. From this main objective, several specific objectives are defined:

SO1. Capacity Building in the sector: Promoting ACTIVE COOPERATION and partnership between actors from the knowledge triangle: HE institutions (BUCKS, UMA, UPM, TUB), industry (EVM, OEM, PA), Social Partners (CCIM) and local/Regional Bodies to obtain an impact on environmental responsibility, modernisation and internationalisation of HE.

SO2. Create FLEXIBLE LEARNING PATHWAYS able to provide and recognize HE students the most important competences and skills, such as internationalisation and use of digital learning. This new pathway will include validation of prior learning and will aim to improve the level of both sector specific, high level basic and transversal competences and skills, with particular regard to those relevant for the labour market in the environmental related sector: management, entrepreneurship, languages and leadership as well as their contribution to a cohesive society, in particular through increased opportunities for both learning and labour mobility and through strengthened cooperation between HE, VET, and work.

SO3. Promoting cooperation and MOBILITY ACTIVITIES, providing more opportunities for students to gain all the specific and transversal skills required and involving them along with partners staff and stakeholders in shaping the outcomes and ensuring their relevance.

These objectives seek to address the needs above indicated and are relevant to all participants, organisations and key stakeholders.

Innovation activities, including those related to education and training, tend to be geographically concentrated in individual entities where knowledge has been transferred among different industrial, educational and training sectors, taking special account of the substantial influence of geographic culture. Innovation in education and training is rarely achieved in isolation, as competences and experiences are spread across from different HE entities, outside academia and geographical borders. These characteristics make ENSEC well positioned through it's actors which crosscut different sectors and countries, and results. The whole consortium must agree content prior to any external communications and publications of the project.

2 Multiplier event held in Universidade da Madeira, Funchal (UMA)

2.1 Aim of the multiplier event

The aim of this final dissemination event is to showcase the work performed under the framework of the ENSEC project: results, lessons learned and outcomes and findings beyond the participating organisations. This will enable a wider community to benefit from a work that has received EU funding. CCIM will be in charge of arranging the final dissemination event in the PT where at least 20

representatives from the vested sectors, Higher Education, employment and other stakeholders will be involved. The event will take place in the last month of the project, once all outputs are completed and the training modules integrated in the 1st release version of the platform. The exact day will be defined during the last six months of the project (presumptively April 15th 2020). UMA will support CCIM in arranging this event. However, all costs for this Multiplier Event have been applied by the Activity Leading Organisation.

2.2 Intellectual outputs covered

-Environment Security: Current skills and qualifications state of the art (Activity Type: Survey, Comparative analysis, Evidence Gathering)

-Training path, learning content structure and guidelines for trainers. (Activity Type: Curricula, courses, joint study programmes, common modules, integration of a greater variety of learning modes (distance, part-time, modular learning).

-Learning Platform (Activity Type: Learning, teaching, training, youth work materials and methods, pedagogical approaches and tools).

-Modules Material (Activity Type: Learning, teaching, training, youth work materials and methods).

2.3 Materials used for the presentation to the event

ENSEC Projet

Dissemination Event Report
Universidade da Madeira, Funchal, 20 and 21 February 2020

Overview of the Employability Forum

Employability Forum

The Employment and Professional Training Observatory of the University of Madeira promotes a yearly Job Fair which is known as "Fórum da Empregabilidade da UMa" (The UMa Employability Fair). This initiative takes place at the Penteada University Campus and it aims to contribute to a more efficient process in the job search/ offer of the UMa students whilst simultaneously becoming a place for general debate and reflection about the challenges the UMa graduates face when venturing into the job market.

The Job Fair is composed of an array of training sessions within which themes such as online job searches, building a *Curriculum Vitae*, behavioural job interview techniques, funding for professional internships, entrepreneurship and funding for self-employment, legal issues in the job market, among others are explored and discussed. The participants also have the opportunity to establish contacts and network with local economic agents. Although this fair is directed at UMa students, it also counts on the participation of UMa lecturers and other guests who are specialists and the fair is open to the general public.

ENSEC project team

The ACIF-CCIM and UMa have made the most of this opportunity to disseminate the ENSEC project. The project's aims and some of the topics and contents of the courses of the International Master's Degree for Environmental Security, which have been developed over the last 2 years were presented to all those who were interested. Over these previous two years, all the elements partaking in the project have been available to clarify any questions the public may have had about the project.

Besides the presentation, the opportunity was seized to gather contacts for the final stage of the project. Different people such as students, teachers and companies, were asked to collaborate in the assessment of the platform and the contents created within the ENSEC project.

The interest in this Master's degree fostered a list of 63 emails obtained from UMa students and teachers. They will all be invited to register and execute the modules that have been developed and will thus partake in the final stage of the project.

Local news about the event:
https://www.dnoticias.pt/madeira/uma-organiza-8-edicao-do-forum-da-empregabilidade-dias-20-e-21-de-fevereiro-LJ5803386
https://www.dnoticias.pt/impressa/hemeroteca/diario-de-noticias/ter-diploma-ja-nao-chega-LJ5812962
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https://www.rtp.pt/madeira/sociedade/universidade-da-madeira-abriu-ontem-o-forum-da-empregabilidade-video_35257

VIII Fórum da Empregabilidade – Universidade da Madeira
20 e 21 de Fevereiro de 2020

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Cofinanciado pelo Programa Erasmus+ da União Europeia

ACIF Câmara de Comércio e Indústria da Madeira

UNIVERSIDADE da MADEIRA www.uma.pt

This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

ENSEC: Development of a European study program: International Master's Degree for the Environmental Security Sector

Agreement Number: 2017-1-UK01-KA203-036521

Multiplier Events Report

Spain

Main Author: Maria Paz (UPM) and Ricardo Tavio (EVM)

https://ensec-project.eu/

"ENSEC" has been funded with support from the European Commission. This publication reflects the views only of the author and the Commission cannot be held responsible for any use which may be made of the information contained therein

Report:

1 Introduction

The field of Higher Education has been recognised as one of the key drivers within the EU2020 Strategy to overcome the socioeconomic crisis, to boost growth and jobs and to foster equity and inclusion. Moreover, one of the key priorities for HE is the reinforcement of the "Knowledge Triangle", through the support of innovation, entrepreneurship and university-business cooperation. This specifically applies to those traditional sectors, such as the environmental security sectors, where changes in education and training are required to equip the future workforce with the new skills for the new demands generated by the changing patterns of environmental security(e.g.: ageing population/assisted living). Staff qualifications along with the ageing workforce and the inability to attract young workers remain one of the crucial points in these industries. This project intended to boost the training of competent staff in the environmental security sector.
The aim was to develop an International Master's Programme for the environmental security sector in Europe. The new Master's programme offers an adapted curriculum to equip the young generation with the specific, basic and transversal competences currently required in the environmental security and related industries. This international Master Programme provides students with opportunities to gain additional skills by studying and training abroad.
The field of Higher Education (HE) has been recognised as one of the key drivers within the EU2020 Strategy to overcome the socioeconomic crisis, to boost growth and jobs and to foster equity and inclusion. Environmental scarcity is determined by environmental change, population size and growth, and unequal distribution (or access to) resources. Of these factors, unequal access to resources is not bound by physical limits alone. It is also a reflection of societies' lack of knowledge and subsequently education in the field area. Leading examples of emerging environmental change are: depletion and pollution of fresh water supplies, depletion of fisheries, degradation and disappearance of biodiversity, degradation and loss of agriculture lands, food and health safety, stratospheric ozone depletion, and global warming. Of these major environmental changes facing also Europe, the first five are now, or will likely be, growing threats to environmental security in the near term; the latter two will increasingly affect human security in the coming 50 years.
Staff qualifications, the inability to attract young workers remain one of the crucial points in Europe. To boost the recruitment of highly prepared staff requires initiatives addressing learning to make the Environmental management and security related sectors attractive and to transform both the academic knowledge and high-level basic and transversal

competences to be useful and applicable.

The design, development and implementation of innovative Master modules bridging the areas of science, law, finance and education is an integral part of the overall mission of ENSEC.

ENSEC has been created to promote the anticipation of future skills needs and to enhance the opportunities for cooperation between HE, VET and industry, providing opportunities for cooperation among stakeholders as well as the exchange and transfer of knowledge to increase know-how. This Strategic Partnership proposes the creation of a flexible learning pathway in line with the needs of learners and companies in environmental security related sectors. It will provide a joint module program between HE and VET that will CAPITALIZE COMPANIES WITH PREPARED YOUTH, providing enterprises innovation, expertise and added value.

ENSEC see the CREATION OF AN INTERNATIONAL MASTER'S DEGREE MODULES ON ENVIRONMENTAL SECURITY developed by 4 universities, 3 SMES all of them currently supporting educational programmes dealing with the sector in different ways, the consortium is completed by a Social partner. This initiative addresses the needs of each participant entity, their staff, students and community. From this main objective, several specific objectives are defined:

SO1. Capacity Building in the sector: Promoting ACTIVE COOPERATION and partnership between actors from the knowledge triangle: HE institutions (BUCKS, UMA, UPM, TUB), industry (EVM, OEM, PA), Social Partners (CCIM) and local/Regional Bodies to obtain an impact on environmental responsibility, modernisation and internationalisation of HE.

SO2. Create FLEXIBLE LEARNING PATHWAYS able to provide and recognize HE students the most important competences and skills, such as internationalisation and use of digital learning. This new pathway will include validation of prior learning and will aim to improve the level of both sector specific, high level basic and transversal competences and skills, with particular regard to those relevant for the labour market in the environmental related sector: management, entrepreneurship, languages and leadership as well as their contribution to a cohesive society, in particular through increased opportunities for both learning and labour mobility and through strengthened cooperation between HE, VET, and work.

SO3. Promoting cooperation and MOBILITY ACTIVITIES, providing more opportunities for students to gain all the specific and transversal skills required and involving them along with partners staff and stakeholders in shaping the outcomes and ensuring their relevance.

These objectives seek to address the needs above indicated and are relevant to all

participants, organisations and key stakeholders.

Innovation activities, including those related to education and training, tend to be geographically concentrated in individual entities where knowledge has been transferred among different industrial, educational and training sectors, taking special account of the substantial influence of geographic culture. Innovation in education and training is rarely achieved in isolation, as competences and experiences are spread across from different HE entities, outside academia and geographical borders. These characteristics make ENSEC well positioned through it's actors which crosscut different sectors and countries, and results.

The whole consortium must agree content prior to any external communications and publications of the project.

2 Multiplier event held in UPM & EVM (SPAIN)

2.1 Aim of the multiplier event

The aim of this final dissemination event is to showcase the work performed under the framework of the ENSEC project: results, lessons learned and outcomes and findings beyond the participating organisations. This will enable a wider community to benefit from a work that has received EU funding. EVM will be in charge of arranging the final dissemination event in the ES where at least 20

representatives from the vested sectors, Higher Education, employment and other stakeholders will be involved. The event will take place in the last month of the project, once all outputs are completed and the training modules integrated in the 1st release version of the platform. The exact day will be defined during the last six months of the project (presumptively April 15th 2020). UPM will support EVM in arranging this event. However, all costs for this Multiplier Event have been applied by the Activity Leading Organisation.

2.2 Intellectual outputs covered

-Environment Security: Current skills and qualifications state of the art (Activity Type: Survey, Comparative analysis, Evidence Gathering)

-Learning Platform (Activity Type: Learning, teaching, training, youth work materials and methods, pedagogical approaches and tools).

-Training path, learning content structure and guidelines for trainers. (Activity Type: Curricula, courses, joint study programmes, common modules, integration of a greater variety of learning modes (distance, part-time, modular learning))

Report:

-Modules Material (Activity Type: Learning, teaching, training, youth work materials and methods)

2.3 APPLICATIONS IN THE FIELD OF TOPOGRAPHY AND CARTOGRAPHY - EXPERIENCES IN SPAIN AND GREECE.

DISSEMINATION ACTIVITY Nº	**APLICACIONES EN EL AMBITO DE LA TOPOGRAFÍA Y LA CARTOGRAFÍA -EXPERIENCIAS EN ESPAÑA Y GRECIA-**
DATE / TIME	**7 JUNE, 2018**
DISCUSSED PROJECT (ACRONYMS)	ENSEC
PARTICIPANTS	UPM, ASTROLABE
PLACE	**E.T.S. Ingenierías Agrarias de Palencia**

SUMMARY

In the context of the ECOMED project, the Technical Conference on "Applications in the field of Topography and Cartography - Experiences in Spain and Greece" was held in the ETSI Montes, Forestal y Medio Natural.
The conference began with the intervention of José L. García Rodríguez and Martín Giménez, from UPM, telling attendees the activities developed in the ECOMED project. The second part was in charge of different speakers from Spain and Greece (Astrolabe).
Dissemination of ENSEC was done, taking advantage of this event, in the framework of UPM sustainable entrepreneur fair.

DESCRIPTION AND ACTIVITIES

Report:

ECOMED

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

CONFERENCIA

APLICACIONES EN EL AMBITO DE LA TOPOGRAFÍA Y LA CARTOGRAFÍA -EXPERIENCIAS EN ESPAÑA Y GRECIA-

Jueves 7 de Junio de 2018, ETSI MONTES, FORESTAL y del MEDIO NATURAL, EDIFICIO MONTES (Aula 3), Universidad Politécnica de Madrid (UPM)

(ENTRADA GRATUITA)

Hora	Actividad	Ponentes
12:50 – 13:00	Palabras de Bienvenida Director Proyecto ECOMED	Jose L. Garcia Rodríguez - *UPM*
13:00 – 13:15	Aplicaciones de la Geomática en Ingeniería Civil. (Presentación en Inglés/Español)	Miguel Marchamalo *Laboratorio de Topografía y Geomática- Caminos - UPM*
13:15 – 13:30	Aplicaciones de la Fotointerpretación en el campo Forestal (Presentación en Inglés/Español)	Cristina Pascual *ETSI MFyMN - UPM*
13:30 – 13:45	TRANSyT-UPM: Research on sustainable transport (Presentación en Inglés/Español)	Belén Martín Ramos *TRANSyT-UPM (transport research centre - UPM)*
13:45 – 14:00	3D Laser Scanning and other surveying techniques for bioengineering, geological, geotechnical applications. (Presentación en Inglés)	Michael Xinogalos *Astrolabe Engineering – Atenas-Grecia*

Evento Organizado por: Montes ECOMED

Colaboran: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos; TRANSyT Politécnica; astrolabe; ENSEC

Report:

Report:

CONFERENCIA

APLICACIONES EN EL AMBITO DE LA TOPOGRAFÍA Y LA CARTOGRAFÍA-EXPERIENCIAS EN ESPAÑA Y GRECIA

Madrid - Junio 7, 2018

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

Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos TRANSyT ENSEC

Report:

2.4 GREEN INFRASTRUCTURE AND SUSTAINABLE DRAINAGE IN THE MANAGEMENT OF RAINFALL

	INFRAESTRUCTURA VERDE Y DRENAJE SOSTENIBLE EN LA GESTIÓN DE PLUVIALES
DATE / TIME	**MAY 9 and 10, 2018 / FIRST DAY: 9:00-11:00; SECOND DAY: 9:00-14:00**
DISCUSSED PROJECT (ACRONYMS)	ENSEC
PARTICIPANTS	• INES SABANES, AYTO DE MADRID • D. PEDRO CIFUENTES, UPM • ALBERT SOROLLA, AEIP, ECOMED • PAOLA SANGALLI, EFIB, AEIP, ECOMED • GUILLERMO TARDIO, AEIP, ECOMED • For other participants please see the symposium programme and contents. More than 130 practitioners from both private and public sector attended the event. The symposium was conducted in Spanish. The Ecomed project was introduced to the attendees.
PLACE	**ETSI MONTES, UPM, MADRID** **Organizers:** AEIP Bioingeniería del Paisaje Escuela Técnica Superior de Ingeniería de Montes, Forestal y del Medio Natural Área de Gobierno de Medio Ambiente y Movilidad MADRID **Collaborators:** ASOCIACIÓN ESPAÑOLA DE ARBORICULTURA ASOCIACIÓN ESPAÑOLA PAISAJISTAS ASERPYMA ECOMED EFIB INNOCENTI & MANGONI PIANTE ENSEC Associació de Professionals dels Espais Verds de Catalunya breincobluefuture
SUMMARY	

Report:

Infraestructura verde y drenaje sostenible en la gestión de pluviales

9 MAYO JORNADA- 10 MAYO Visita Técnica

The 9th and 10th of May the **Third Symposium of R+D+I in Soil Bioengineering** was held in the Forestry School of Madrid (Technical University of Madrid). The focus was set on **Green Infrastructure and Urban Sustainable Drainage Systems**.

More than 130 practitioners attended the event. The attendees had the chance to analyse the role of both the Green Infrastructure and Sustainable Urban Drainage Systems (SUDs) in safeguarding and improving the water storage capacity of soils and aquifers.

Thanks to the magnificent presentations of the invited key speakers, the existing synergies between the green infrastructure concept and the soil and water bioengineering techniques were both explained and highlighted. The Ecomed project was introduced to the attendees.

Interesting contents were discussed such as: the Sustainable Drainage Manual from Lombardy region (Italy), the green infrastructure planning and design within the IVCyRE strategy and framework, a urban design incorporating the SUDs, examples of urban runoff management in some important cities, the green and blue infrastructure systems in Vitoria Gasteiz (Basque Country, Spain), The example of a stormwater basin in Viladecans (Bercelona, Spain), the problems related to runoff management in Madrid city…

The 10th of May, during the excursion to the Valdebebas Park, different interventions (e.g., the urban planning works, gardening and landscaping works, etc.) carried out by the Madrid Council were *in situ* discussed and visited.

Dissemination of ENSEC was done, taking advantage of this event.

DESCRIPTION AND ACTIVITIES

PROGRAMA JORNADAS

MARTES 9 DE MAYO 2018

MAÑANA

09:00-09:15 inauguración de la jornada a cargo de las autoridades competentes de la ETSI Montes de la UPM y del Excmo. Ayuntamiento de Madrid **Inés Sabanés.** Delegada del Área de Gobierno de Medio Ambiente y Movilidad.

09:15-09:30 Presentación de la jornada- **Paola Sangalli** Presidenta EFIB (Federación Europea de Ingeniería Biológica)

09:30-10:00. *La problemática de la gestión de pluviales en el municipio de Madrid* (título provisional) **Soledad Checa** Jefa de Servicio de la Oficina Azul

10:00-10:45 El encuadre a nivel de cuenca. Manual de drenaje urbano sostenible de la región Lombardía-**Gioia Gibelli Arquitecto Paisajista. Presidente Asociación Italiana de Ecología del Paisaje**

10:45-11:15 La gestión integral de los recursos hídricos Conclusiones Jornada de Drenajes Urbanos Sostenibles-Madrid **Valerio Andrés-Valeri Investigador Giteco-Universidad de Cantabria**

11:15-11:45 Pausa Café

11:45-12:30. Parque de Valdebebas. "*Técnicas de drenaje empleadas y recreación de ecosistemas naturales*".**María Edita López Folgueira Ayuntamiento de Madrid**

12:30-13:00 Técnicas de jardinería sostenible en la urbanización de Valdebebas. **Susana Canogar Paisajist**a **Evergreen paisajismo**

13:00-13:30 La planificación y diseño de la Infraestructura Verde urbana en la estrategia de IVCyRE. **Cristina del Pozo. Universidad Rey Juan Carlos de Madrid**

13:30-14:00 Mesa Redonda **Nuria Bautista Carrascosa** (**Ayuntamiento de Madrid**). Posibilidades y beneficios de las infraestructuras verdes y el drenaje sostenible en el ámbito urbano.

Report:

14:00-15:30 Comida

TARDE
15:30-16:00 Balsas de Laminación. Ejemplo de Viladecans. **Albert Sorolla** Presidente AEIP - Naturalea
16:00 -16:45 Ejemplos de gestión de escorrentías urbanas en grandes ciudades. **Thyery Maytraud - Agence TM Paris. Paris**.
16:45-17:30 Ejemplos de gestión de pluviales y torrentes urbanos en Vitoria Gasteiz-Salburua y Avda Gasteiz **Luis Andrés Orive: Director del Centro de Recursos Ambientales de Vitoria Gasteiz**
17:30-18:00 Conclusiones y preguntas

MIÉRCOLES 10 DE MAYO 2018
DIA 2
09:00-09:30 Explicaciones relacionadas con el Parque de Valdebebas y su conservación. **María Asunción Centenera Ulecia** -Conservadora del Parque de Valdebebas
09:30-14:00 **Excursión al Parque de Valdebebas** guiada por técnicos del Ayuntamiento de Madrid.


CONCLUSIONS

(if there were any) xxxxx

Report:

2.5 Green Jobs Workshop_Dissemination activity report_ENSEC

GENERAL INFORMATION

WORKPACKAGE:

NAME: Green Forest Jobs Workshop

PARTNER: UPM (P1)

DATA: 25-26 June 2019

PLACE: Madrid

PARTICIPANTS

UPM (P1)

SUMMARY

Green Forest Jobs: Facing challenges, exploring opportunities and increasing the capacity of UNECE member States.

The workshop, supported by UPM and “ETSI Montes, Forestal y del Medio Natural”, and in collaboration of EOHUB, was held at Escuela Tecnica Superior de Ingenieria de Montes, Forestal y del Medio Natural, on the Seminary room.

The workshop went through four main themes:

- ✓ Innovation, bioeconomy and learning for the future

Report:

- ✓ The value of forests and future-looking outcomes
- ✓ The future of forest work
- ✓ Migration and regional development

DESCRIPTION OF ACTIVITIES

Agenda, pictures, list of participants, flyers, etc.

Report:

Tuesday, 25 June 2019

Innovation, bioeconomy and learning for the future

Session facilitator: Mr. Eduardo Rojas Briales, Dean of the Colegio Oficial de Ingenieros de Montes de España, Spain

10:00 - 10:35	**Opening and welcome** Ms. Alicja Kacprzak, Forestry Officer, UNECE/FAO Forestry and Timber Section Mr. Michal Vančo, FOREST EUROPE - Liaison Unit Bratislava Mr. Germán Glaría, Dean of the Forestry Engineering School, Universidad Politécnica de Madrid, Spain Mr. José Manuel Jaquotot Sáenz de Miera, Deputy General Director for Forest Policy. Ministerio de Agricultura, Pesca y Alimentación, Spain Mr. Andreas Bernasconi, Leader of the UNECE/FAO Team of Specialists on Green Jobs in the Forest Sector
10:35 - 10:50	**Spanish state of the art of green jobs** (Mr. Eduardo Rojas Briales)
10:50 - 11:10	**Innovation and the creation of green forest jobs: experiences from the eco-hub** (Ms. Carmen Aviles, leader of Ecostar Trennova, Forestry Engineering School, Universidad Politécnica de Madrid, Spain)
11:10 - 11:30	**Forest Bioeconomy in Ireland** (Mr. Patrick Neville, Communications Manager, Coillte - The Irish Forestry Board, Ireland)
11:30 - 12:00	Coffee break
12:00 - 12:30	**Project Learning Tree: Canada's Experience in placing 2000 Students in Green Jobs, developing a Green Career Pathway to diversify How and Who to attract to the Green Jobs Supply Chain** (Ms. Kathy Abusow, President and CEO, Sustainable Forestry Initiative Inc.)
12:30 - 12:50	**IT and work 4.0: job killer and job creator** (Mr. Arnold Bücken, Group Head of the Institute for Man-Machine Interaction, Technical University of Aachen, Germany)
12:50 - 12:55	**Innovation, bioeconomy & learning for the future: plenary discussion**
12:55 - 13:00	**Conclusions and closing of the session**
13:00 - 15:00	Lunch break

The value of forests and future-looking outcomes

Session facilitator: Mr. Josef Herkendell, Head of Unit Energy and Climate, Ministry for the Environment North-Rhine Westphalia, Germany

15:00 - 15:10	**Introduction by the session facilitator**
15:10 - 15:40	**Forest Value: Discovering the true value of the forest** (Mr. David Álvarez García, H2020 Expert and CEO Ecoacsa, Spain)
15:40 - 15:50	**Introduction to the foresight working groups**
15:50 – 16:20	**Foresight working groups (part I)**
16:20 - 16:50	Coffee break
16:50 - 17:30	**Foresight working groups (part II)**
17:30 - 17:55	**Results from the working groups: plenary discussion**
17:55 - 18:00	**Conclusions and closing of the session**

UNECE

Report:

Wednesday, 26 June 2019

The future of forest work

Session facilitator: Mr. Diarmuid McAree, Director, Crann - Trees for Ireland

10:00 - 10:10	Introduction by the session facilitator
10:10 - 10:40	Reality check for green jobs in the forest sector: global outreach to future leaders through joint EFI-IFSA-IUFRO research and capacity development (Ms. Juliet Owuor, Junior Researcher, Resilience Programme, European Forest Institute)
10:40 – 11:10	Employment forms, working conditions and contracting work (Mr. Jonas Cedergren, Forestry Officer, Food and Agriculture Organization of the United Nations)
11:10 - 11:40	Coffee break
11:40 - 12:05	Visualizing the UNECE/FAO/Forest Europe "Guidelines for the Promotion of Green Jobs in Forestry" (Mr. Frederik Gunnarsson, Head of Division Labour market programs, Swedish Forest Agency)
12:05 – 12:10	Introduction to the working groups
12:10 - 12:30	Working groups
12:30 – 12:55	Plenary discussion
12:55 13:00	Closure of the session
13:00 - 14:00	Lunch break

Migration and regional development

Session facilitator: Ms. Annemarie Bastrup-Birk, European Environment Agency

14:00 - 14:10	Introduction by the session facilitator
14:10 - 14:40	Future-looking outcomes from the tripartite meeting on the promotion of decent work and OSH in forestry (Ms. Judith Carreras, International Labour Organization)
14:40 - 15:10	Integration of migrant workers through forest work and nature preservation: case study from Sweden (Mr. Frederik Gunnarsson)
15:10 - 15:40	Coffee break
15:40 - 16:10	The role of forest green jobs for rural area development (Ms. Annemarie Bastrup-Birk)
16:10 - 16:40	Green forest jobs and regional development (Mr. Vardan Meliksyan, Technical Task Leader, United Nations Development Programme, Armenia)
16:40 - 16:55	Outlook, final discussion
16:55 – 17:00	Conclusions and closure of the workshop

UNECE

Report:

Meeting website

The programme and practical information are available on the meeting webpage:
http://www.unece.org/index.php?id=51529

Working language

The meeting will be held in English.

Contact at the Joint UNECE/FAO Forestry and Timber Section

Ms. Alicja Kacprzak
Forestry Officer
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FORÊT 2019
FORESTS AND THE CIRCULAR ECONOMY
Joint Session of the UNECE Committee on Forests and the Forest Industry and the FAO European Forestry Commission
4-7 NOVEMBER 2019 | PALAIS DES NATIONS | GENEVA

UNECE

Food and Agriculture Organization of the United Nations

www.unece.org/forests

Report:

Visit to the Arboretum of the School of Forestry

DAY: Wednesday 26 – 13:00

All Participants must be at the **Meeting point 1 at 12:50 AM** (hall of the School)

Walking Path Between Schools
Green Jobs Venue
Meeting Point 1

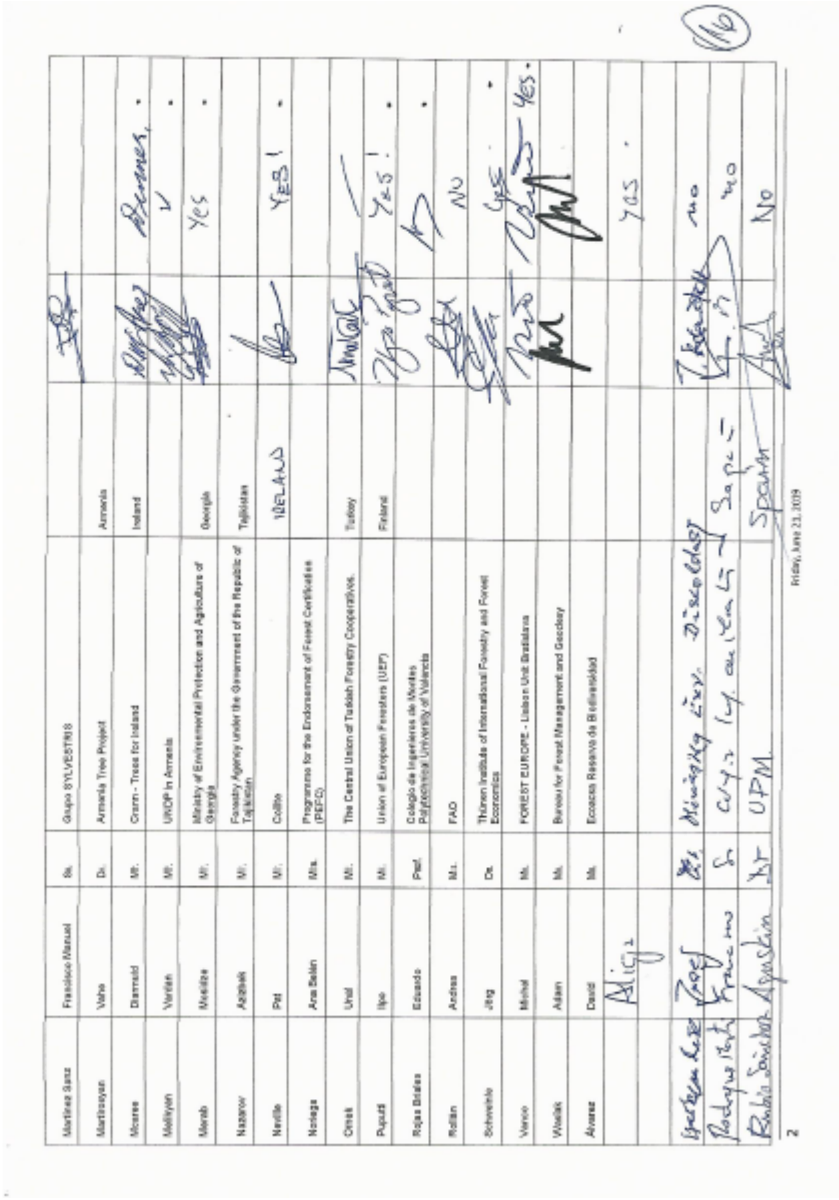
Report:

List of participants

Expert Workshop on Green Forest Jobs: Facing Challenges, Exploring Opportunities and Increasing the Capacity of UNECE Member States

Start Date: Tuesday, June 25, 2019 **End Date:** Wednesday, June 26, 2019
Participants: 31

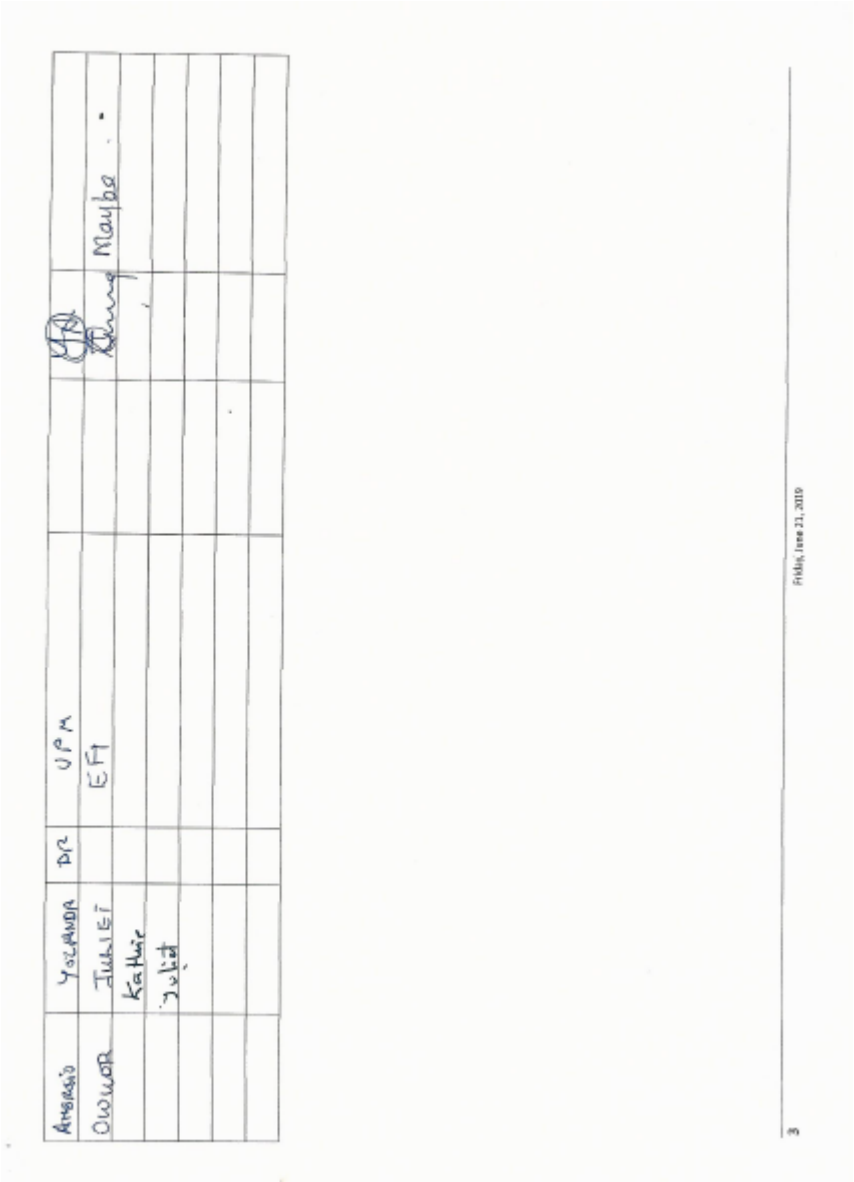
Last Name	First Name	Title	Organization	Countries Represented	Signature	Dinner pp 25€ (Approx. 35€ -NOT certified by the organization) Y / N
Aleksidze	Gigia	Mr.	Ministry of Environmental Protection and Agriculture of Georgia	Georgia		Yes
Avilés	Carmen	Ms.	ETSI De Ingeniería Forestal y del Medio Natural Universidad Politécnica de Madrid	Spain		YES
Bastrup-Birk	Annemarie	Ms.	European Environment Agency (EEA)			Yes
Bernasconi	Andreas	Dr.	Pas Bern AG	Switzerland		YES
Buecken	Arnold	Dr.	Aachen University	Germany		Yes
Burkhanov	Akbul	Mr.	Kyrgyz Association of Forest and Land Users (KAFLU)			
Cedergren	Jonas	Mr.	Food and Agriculture Organization of the United nations			
Cervera	Teresa	Ms.	Centro de la Propiedad Forestal (público beely)			
Crespo Pitillos	Oscar	Mr.	Garnica	Spain		
Glavonjic	Branko	Dr.	Belgrade State University	Serbia		
Gunnarsson	Fredrik	Mr.	Swedish forest agency	Sweden		Yes
Haska	Hajri	Prof.	Agricultural University of Tirana	Albania		
Hyytiä	Annika	Ms.	University of Helsinki	Finland		
Jaquotot	José Manuel	Mr.	Ministry of Agriculture, Fisheries and Food	Spain		No
Kaplan	Erdem	Mr.	Central Union of Turkish Forestry Cooperatives	Turkey		



Martinez Sanz	Francisco Manuel	Sr.	Grupo SYLVESTRIS			
Martirosyan	Vahe	Dr.	Armenia Tree Project	Armenia		
Mcaree	Diarmuid	Mr.	Crann - Trees for Ireland	Ireland		
Melikyan	Vardan	Mr.	UNDP in Armenia			
Merab	Mosidze	Mr.	Ministry of Environmental Protection and Agriculture of Georgia	Georgia		Yes
Nazarov	Azizbek	Mr.	Forestry Agency under the Government of the Republic of Tajikistan	Tajikistan		
Neville	Pat	Mr.	Coillte	IRELAND		YES !
Noriega	Ana Belén	Mrs.	Programme for the Endorsement of Forest Certification (PEFC)			
Ornek	Unal	Mr.	The Central Union of Turkish Forestry Cooperatives.	Turkey		
Puputti	Ilpo	Mr.	Union of European Foresters (UEF)	Finland		Yes !
Rojas Briales	Eduardo	Prof.	Colegio de Ingenieros de Montes Polytechnical University of Valencia			
Rollin	Andrea	Ms.	FAO			NO
Schweinle	Jörg	Dr.	Thünen Institute of International Forestry and Forest Economics			
Vanco	Michal	Mr.	FOREST EUROPE - Liaison Unit Bratislava			Yes
Wasiak	Adam	Mr.	Bureau for Forest Management and Geodesy			
Álvarez	David	Mr.	Ecoacsa Reserva de Biodiversidad			
	Aliga					Yes
						no
						no
Rubio Sánchez	Agustín	Dr	UPM	Spain		No

2 Friday, June 21, 2019

Report:



Apellido	Yolanda	Dr	UPM					
Ouwor	Jubilee		EFI					Maybe
	Kathie							
	Juliet							

Report:

2.6 SUSTAINABLE ENTREPRENEURSHIP FAIR_DECEMBER 2019_

GENERAL INFORMATION

WORKPACKAGE:

NAME: FERIA EMPRENDIMIENTO SOSTENIBLE

PARTNER: UPM (P1)

DATA: December 4-5, 2019

PLACE: ETSI Montes, Forestal y Medio Natural, Universidad Politécnica de Madrid - Madrid

PARTICIPANTS

UPM (P1): Carmen Avilés, Martín C. Giménez, Ana Rodríguez, Clara Cordón

SUMMARY

Last week, the Sustainable Entrepreneurship Fair was held at the ETSI Montes, Forestal y del Medio Natural, within the activities developed by the Polytechnic University of Madrid for COP25, and with the support of the Teaching Unit of Business Organization and Treennova, and the collaboration of the Ministry of Agriculture, Fisheries and Food, the Official College of Forestry Engineers, and the European projects UFIL, ENSEC, and EOHUB itself.

DESCRIPTION OF ACTIVITIES

In the words of Carmen Avilés, coordinator of the Treennova initiative and this Fair of Sustainable Entrepreneurship, “this event has offered what COP25 has come to look for: people with activities related to the world but without causing damage to generations to come. Moreover, not simply they do not cause harm, but in their action they generate a change that brings economic, environmental and social benefits”.

Report:

More than 30 companies related to entrepreneurship and the natural environment found a space to disseminate their activities, as well as to exchange experiences related to the sector.

Dissemination of ENSEC was done, taking advantage of this event, in the framework of UPM sustainable entrepreneur fair.

Report:


TREENNOVA
Emprendimiento e innovación empresarial en el sector forestal
TALENTO
INNOVACIÓN
EMPRENDIMIENTO
SOSTENIBILIDAD
CAPITAL NATURAL


UNIVERSIDAD POLITÉCNICA DE MAD
COP25
MADRID 2019
UPM COMPROMETIDA
CON EL FUTURO
DEL PLANETA
#TiempoDeActuar
UPM COMMITTED
TO THE FUTURE
OF THE PLANET
#TimeForAction
MADRID, 2 /13 DICIEMBRE/DECEMBER 2019

2.7 WASEC WORKSHOP MADRID DECEMBER 2019

3 GENERAL INFORMATION

WORKPACKAGE:

NAME: WASEC WORKSHOP MADRID. DECEMBER 2019

PARTNER: UPM (P1)

DATA: December 13, 2019

PLACE: ETSI Montes, Forestal y Medio Natural, Universidad Politécnica de Madrid - Madrid

PARTICIPANTS

SUPPORTED BY:

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

Montes

ENSEC

UNIDAD DOCENTE DE Organización de Empresas

EOHUB

TREENNOVA

UFIL CUENCA

WaSec

SUMMARY

WASEC PROJECT WORKSHOP was held in Madrid, at Universidad Politécnica de Madrid, taking advantage of the WASEC meeting, celebrated the day before with all the partners involved in the project.

Different speakers related to the water management and engineering, so as water challenges in arid areas, so as general public and the attendees to the Wasec meeting could expose their views.

DESCRIPTION OF ACTIVITIES

WASEC PROJECT WORKSHOP:

"INNOVATIONS IN WATER EDUCATION PROGRAMS IN THE EASTERN MEDITERRANEAN".

ETSI MONTES, FORESTAL Y MEDIO NATURAL

DECEMBER 13

9 a.m. to 1:00 p.m.

SALA DE GRADOS

SUPPORTED BY:

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

WASEC PROJECT

"INNOVATIONS IN WATER EDUCATION. ENHANCING WATER SECURITY AND SOCIO-ECONOMIC DEVELOPMENT IN THE EASTERN MEDITERRANEAN UNDER CLIMATE CHANGE"

This Project is about the know how to conserve and eliminate the waste of water while considering potential climate change impacts, to enhance water resources management plans new innovative tools and methods need to be used.

The main scope is to teach new technologies and methods to students that will incorporate them in water resources management plans and that eventually will be adopted in the water relevant organizations and businesses. Another major concerns are the many different services that water can offer.

Report:

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

WASEC PROJECT WORKSHOP
MADRID (SPAIN) – DECEMBER 13, 2019

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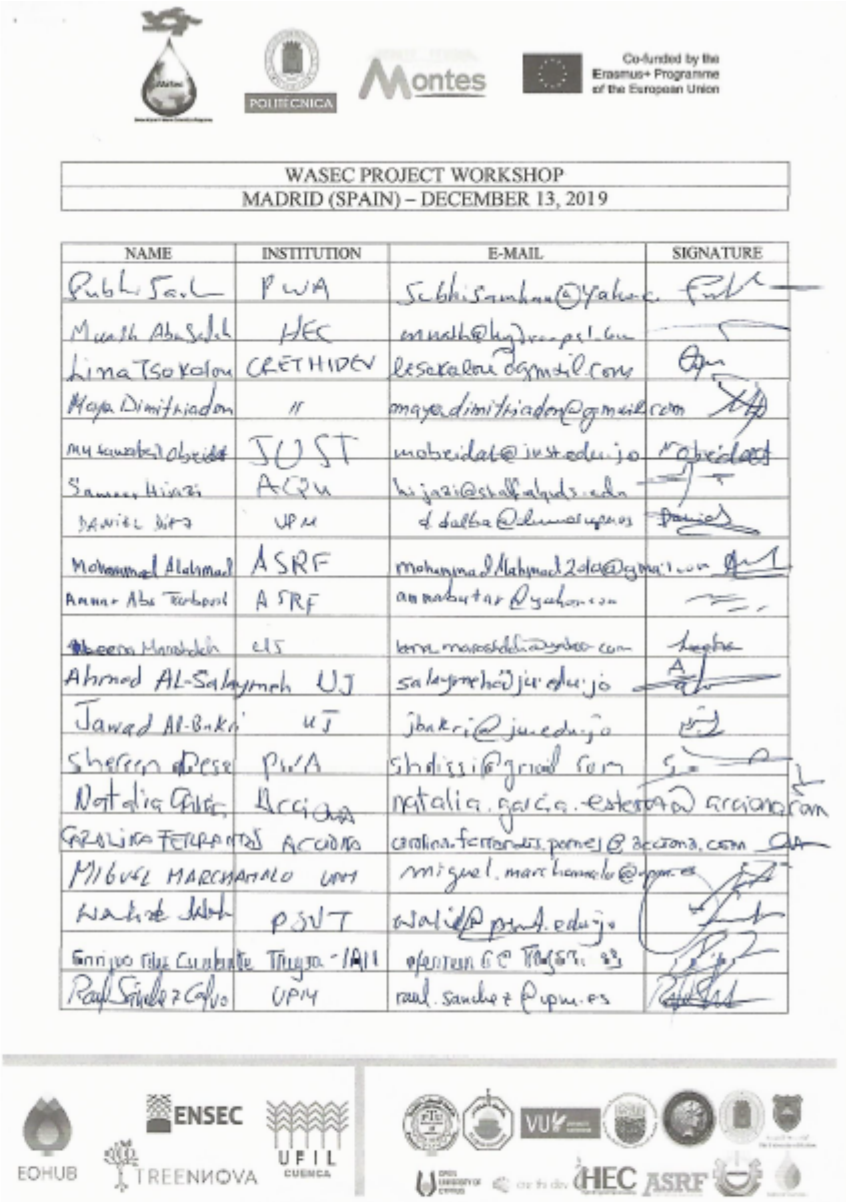
EOHUB ENSEC TREENNOVA UFIL CUENCA VU HEC ASRF

Report:



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

WASEC PROJECT WORKSHOP

MADRID (SPAIN) – DECEMBER 13, 2019

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ERASMUS+ PROGRAMME
Project Number: 598480-EPP-1-2018-1-PS-EPPKA2-CBHE-JP

WaSec / Innovations in Water Education Programs: Enhancing Water Security and Socio-economic Development in the Eastern Mediterranean under Climate Change

WASEC WORKSHOP

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

Madrid, SPAIN

Organized by the Universidad Politécnica de Madrid

POLITÉCNICA

December 13, 2019

Erasmus+

This project has been funded with support from the European Commission. This Publication reflects the views only of the author, and the commission cannot be held responsible for any use which may be made of the information contained therein

Report:

December 13th, 2019	
08:30 – 09:00	**Registration**
09:00 – 09:30	**Introduction to WaSec Project** **(Prof. Jose Luis Garcia-Rodriguez,** UPM, **Dr. Saed Khayat,** PTUK, Project Coordinator and **Dr. George Zaimes,** IHU/EMaTTech)
09:30 – 10:00	**Managing extreme events in Spain: New paradigms and case studies** **Fernando Magdaleno. Ministry for the Ecological Transition. Subdirección de Gestión Integrada del Dominio Público Hidráulico del MITECO**
10:00 - 10:20	**UPM Water: alliances for R&D in water management and engineering** **Miguel Marchamalo/Leonor Rodríguez. UPM**
10:20 – 10:40	**Integrated management and artificial recharge of aquifers in arid and semi-arid areas** **Enrique Fernández Escalante. Grupo Tragsa**
10:40 – 11:00	**Reuse of treated wastewater in Palestinian territories** **Natalia Garcia Estevez/ Carolina Ferrandis Pomés. Acciona**
11:00 – 11:30	**Coffee and Networking**
11:30 – 11:50	**"Enhance and enactment of private sector in water research and challenges for "public private participation"** **Subhi Samhan. PWA-Palestinian Water Authority**
11:50 – 12:20	**Water and Irrigation in Spain** **José María González Ortega. Grupo Tragsa**
12:20 – 13:00	**Panel Discussion. Jordanian and Palestinian Experience in Water Innovation and Research** **Chairmen Prof. Jose Luis Garcia-Rodriguez,** UPM, **Dr. Saed Khayat,** PTUK, Project Coordinator, **Dr. George Zaimes,** IHU/EMaTTech, **Prof. Fahmi Abu Al-Rub,** JUST. **Prof. Amer Marei,** AQU

Erasmus+

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