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# STATUS REPORT 3

Quarter 3: June-September 2017

This report serves as an update on the CAPSEM project for the third  
project quarter, M9-12, June-Sept 2017.

Deliverable 8.1.3

## Status Report 3 – June-September 2017

### 1. WP 2 & 4 Establishing priority areas

#### Task 2.2 – Conduct gap analysis (M7-9, April-June 2017)

The gap analysis (2.2) has been started through the “taking stock forms” completed by each partner, and will continue during Capacity Building Workshops, to identify the priority areas for each partner for curriculum development (WP3).

#### Task 4.1 – Establish priority area(s) for curriculum development at each partner HEI (P4-10), based on gap analysis in WP2

##### Deliverable 4.1.1 Report on priority areas for curriculum development (M12, Sept 2017)

The results of the WP2 Gap Analysis will be finalized in a report in Sept 2017 (4.1) on the local priority areas of each P4-10 that identify the sector or level on which the new course will be situated. IST is responsible for this report, with assistance from NTNU. Both TU and IITB have already gotten far in selecting their priority areas and course foci.

Priority areas will address the identified space between existing curricula and expertise, and local/national/regional need for specific improvement of sustainability processes. The analysis will be performed for each P4-10 individually, considering national/regional similarities in P4-6, 7 & 8, and 9 & 10.

→ The current version of the Gaps report is available on the website and GoogleDrive.

### 2. WP 3 Capacity building

WP3 began with the brief introduction of Levels 1-4 to all representatives at the Kick-off meeting in December 2016 in Mumbai. Further, WP3 consists of Capacity Building workshops to be held in each partner country. At each workshop, each partner is expected to have 10 professors and faculty present. The workshops will teach the level 1-4 material to strengthen the knowledge base for curriculum development at each partner. Industry partners are also encouraged to attend these workshops, so that practical needs and expectations are recognized early and incorporated into new courses.

#### Task 3.2 – \*CB video development and production (original plan M3-9, Dec 16-June 17 → *now to be shifted later, prospective deadline needs to be decided – Midterm, May 2018?*)

In the application project plan, Capacity building videos\*, roughly 1 hour, were to be produced before the CB workshops. *It was instead decided that these videos should be produced after the CB workshops as a way to continue development after the physical meetings.* Videos can now be adapted to the reception of material at each partner university, to meet local needs and will include footage for stakeholder engagement workshops and other local activities. This strengthens the sustainability

and impact of the videos as they will now include more than taped lectures of European professors, and directly incorporate local perspectives and actors. Once completed, they will be able to be used by partners as often and needed, and can also be used in courses as an introduction for students.

**Deliverable 3.2.1** \*CB Videos (M9 June 1027, *postponed until after CB workshops*)

**Task 3.3** – CB seminars ~~and video presentations~~ (Nepal – June 2017, Uganda – July 2017, India – Sept 2017)

Capacity building workshops have been scheduled as follows. All partners should go through the four MPs and suggested literature before their CB workshop. Please also distribute to all participants to join workshop:

Nepal: TU and KU @ TU, June 5-6, 2017

Uganda: MUST, MUBS and Mak @ MUBS, July 11-12, 2017

India: TISS and IITB @ IITB, Sept 12-13, 2017

Follow-up sessions, if and when necessary, have been allotted for each partner country. Whether these follow-ups will be held institutionally or nationally is to be determined.

→ The report from the Nepal workshop summarizes the activity and is available on the website and GoogleDrive.

→ The report from the Uganda workshop summarizes the activity and is available on the website and GoogleDrive.

→ The report from the India workshop summarizes the activity and is available on the website and GoogleDrive.

(WP 3.2 cont'd) Stakeholder engagement activities at each partner/ partner country (to continue into WP4 and 5) were decided at the Nepal mtg to be a beneficial CB activity – they will be videoed and incorporated into capacity building activities and the online course. **Provide instructions/specifications for videoing to partners at the Lisbon meeting.** Stakeholder engagement activities need to be planned by local partners with guidance from TU Delft, IST (WP4) and NTNU (WP5).

**NOTE:** We budgeted in the application to have some follow-up CB workshops if needed. As WP3 leader, Delft should lead the planning of these activities, if there are any. In Nepal, these workshops will likely transform into stakeholder engagement activities, where a couple European partners could go and oversee. In India, this could be another industry and policy maker seminar as planned for Sept. 2017 (depending on its success). In Uganda, depending on the level of understanding of level material, could simply be another workshop focused more on stakeholder/ industry engagement.

**Task 3.4** – Year 1 regional meetings (1 meeting per region: M7-12 at a time most convenient to partners)

Regional meetings have been scheduled in conjunction with the Nepal CB Workshop (June 7<sup>th</sup>, 2017 for Nepalese and Indian partners at Kathmandu University) and Uganda CB Workshop (July 12-13<sup>th</sup> for Ugandan partners at Makerere University Business School).

→ The report from the Year 1 Nepal & India Regional meeting summarizes the activity and is available on the website and GoogleDrive.

→ The report from the Year 1 Uganda Regional meeting summarizes the activity and is available on the website and GoogleDrive.

→ The report from the second Year 1 Nepal & India Regional meeting summarizes the activity and is available on the website and GoogleDrive.

### **3. WP 4 Curriculum development and testing**

Partner universities will develop at least one new course based on L1-4 sustainability & EM principles and methods presented in WP3.

**Task 4.2** – Develop at least one new course at each partner HEI (M10-30, July 17-March 19)

4.2.1 Documentation that formal process for new course implementation has begun (M29, Feb 2019)

4.2.2 Course packages for each partner HEI (MILESTONE 7, M30, March 2019)

4.2.3 Documentation of preliminary course testing (M30, March 2019)

Partners must meet deadlines 4.2.1-4.2.3 to ensure that new course development is moving forward at their university. IST is responsible for making sure these deadlines are met.

Partners have also been given the task to submit a preliminary course outline by Sept 15<sup>th</sup> on Drive. The outlines will be presented at the all-partner meeting in Lisbon on November 15-17<sup>th</sup>.

→ An overview of proposed courses from each partner is attached in Appendix 1. The course outlines are available on GoogleDrive.

#### **IITB**

Two existing courses have been strengthened namely, (1) Environmental Change and Sustainable Development and (2) Environmental Law and policy. New modules have been inserted and the courses were taught in the Spring semester of 2017 and the Autumn of 2017, respectively. The newer modules addressed principles of “environmental assessment” and “circular economy” and their applications.

#### **TISS**

The curriculum of the existent course is designed with sustainability as a central theme, due to which a number of subjects currently offered extend into the purview of the CAPSEM project. These have

also been strengthened with respect to the four levels of knowledge mentioned within the CAPSEM project. Enumerated below is the current coursework that finds relevance in CAPSEM:

1. Introduction to Sustainability Studies
2. Ecosystems and Habitat
3. Water and Sustainable Development
4. Sustainable Cities
5. Technical Skills in Environment and Sustainability
6. Energy Modeling
7. Global Environmental Governance
8. Energy and Climate Change Mitigation-I & II
9. Natural Resource Governance
10. Basic Concepts in Economics & Environmental and Natural Resource Economics

A new course on Industrial Sustainability is proposed which will deal with both technical and theoretical aspects of industrial sustainability, economic interlinkages and circular economy

**Task 4.3** – Student and Staff exchanges between partner countries (M14-28, Nov 17-Jan 19) – Partners should begin thinking about who should go on these exchanges and talk to other partners about potential exchange. Exchanges will be organized internally between partners.

To support each other in curriculum development, both staff and students from partner HEIs will have the opportunity to go on a brief exchange to another partner HEI with a similar focus area from which they can learn (4.3). Exchanges should be organized internally by partners. Curriculum development will span 21 months, and therefore encourages such exchanges.

Partners are currently investigating areas for student and staff exchange.

#### **4. WP 5 Industry training**

Although WP5 has not yet official kicked-off, all partners are to provide a of committed industry partners by November 1<sup>st</sup>. The lists will be presented at the all partner meeting in November.

#### **5. WP 6 Online course**

Although WP6 has not yet official kicked-off, TU Delft will present their plan at the November meeting-

## Appendix 1 – Overview of curriculum development per partner

<b>Partner</b>	<b>Proposed course(s)</b>	<b>Level</b>	<b>New or adapted</b>	<b>Responsible</b>	
<b>Mak</b>	Sustainable Management of Wildlife Enterprises	Master	New (taught on weekends)	Fred	
	Green Mini-Grids	Master	Adapting current	Karidewa	
	Sustainability in Mineral Processing	Master	Adapting current	Ivan	
	Environmental Petroleum Geophysics	Master	Adapting current	John Mary	
	Environmental Management, Health and Safety Aspects of Petroleum Exploration	Master	Adapting current	John Mary	
<b>MUBS</b>	Principles for CSR and Corporate Sustainability	Master and Bachelor	New	David and Stephen	
<b>MUST</b>	Sustainability and Environmental Management Knowledge	Bachelor (also proposed for cross-cutting course for Master level)	New	Moses	
<b>KU</b>					
<b>TU</b>	Sustainable Retrofitting for Buildings	Master (elective)	New	Sushil	NOTE: A curriculum review across the Engineering Faculty is also taking place in relation to CapSEM objectives
<b>TISS</b>	Industrial Sustainability	Master		Jayaraman	
<b>IITB</b>	Environmental Change and Sustainable Development	Undergrad and Phd	Adapted	Shyam	
	Environmental Law and Policy	Undergrad and Phd	Adapted	Shaym	