

the Learning Network on Sustainable energy systems



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Implemented by the ACP Group of States Secretariat



Funded by the EU



System design for sustainable energy for all

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System Design for Sustainable Energy for All

- Design for Sustainability (DfS) focussed on
 Sustainable Products Service Systems (S.PSS)
 Applied to Distributed Renewable Energy (DRE)
 Leading to System Design for Sustainable Energy f
- •Leading to System Design for Sustainable Energy for All (SD4SEA)
- •Knowledge Base
- •Know How
- •We just have seen how to do it (know-how tools)•But how did we get there?





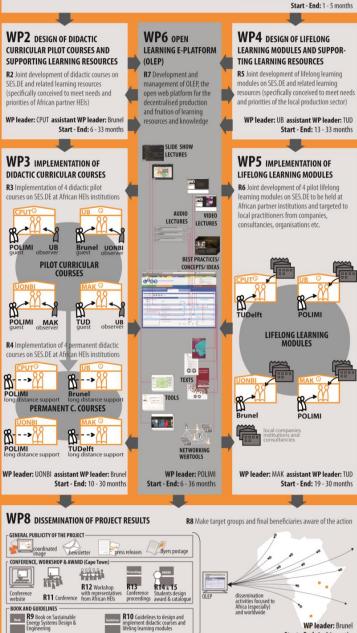
WP7 **EXTERNAL**

EVALUATION R16 External



R1 Analysis of the current state-of-the-art in the field of Sustainable Energy System Design and Engineering (SES.DE) in African HEIs, and identification of priorities and needs (in education, research, and practice)

WP leader: CPUT assistant WP leader: Polimi



WP9 MANAGEMENT



WP leader: POLIMI

Start - End: 1 - 36 months

Start - End: 1 - 36 months

WP leader: TUD Sci Start - End: 6-36 months

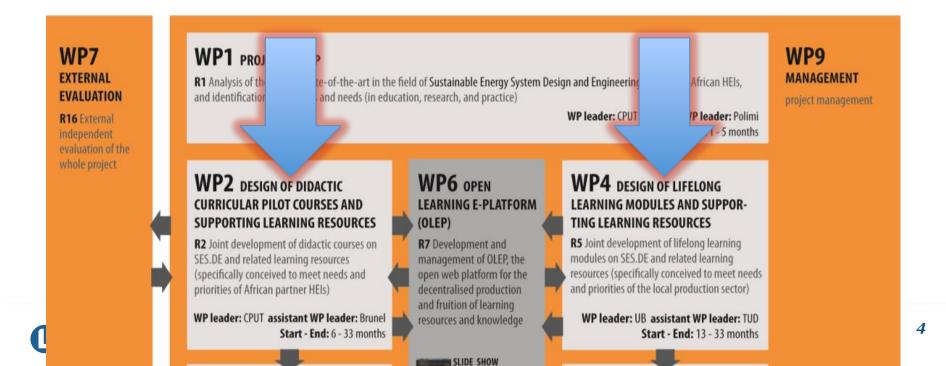
Engineering

WP 1 Project Set Up

Analysis of the State of The Art

What do we have

What do we need



Design and implementation of pilot courses

•In each African country a pilot course

- •A host
- •A guest
- •An observer
- Students

Uganda: MAK CEDAT & CREEC TU Delft JC & Jairo CPUT Corbin

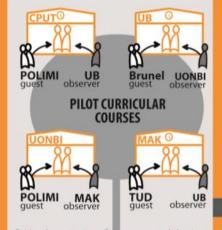
WP2 DESIGN OF DIDACTIC CURRICULAR PILOT COURSES AND SUPPORTING LEARNING RESOURCES

R2 Joint development of didactic courses on SES.DE and related learning resources (specifically conceived to meet needs and priorities of African partner HEIs)

WP leader: CPUT assistant WP leader: Brunel Start - End: 6 - 33 months

WP3 IMPLEMENTATION OF DIDACTIC CURRICULAR COURSES

R3 Implementation of 4 didactic pilot courses on SES.DE at African HEIs institutions







Real Problem Settings

Health center III

















Engineering students Energy They know what is DRE, but not yet what is SPSS

•Directly calculating how much energy can be generated.....

•But...











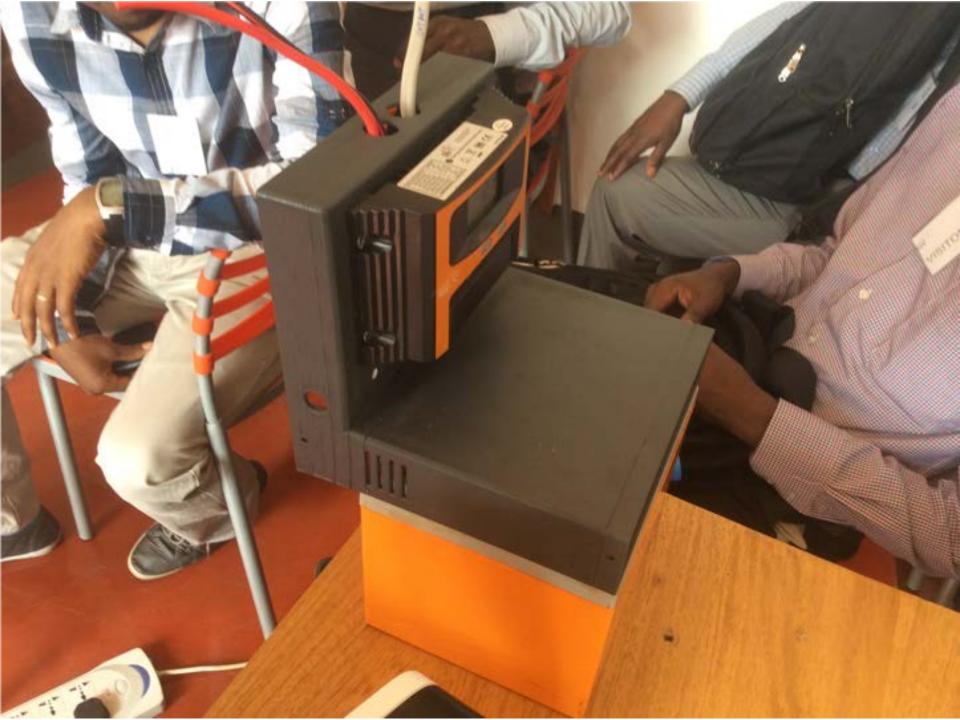
































































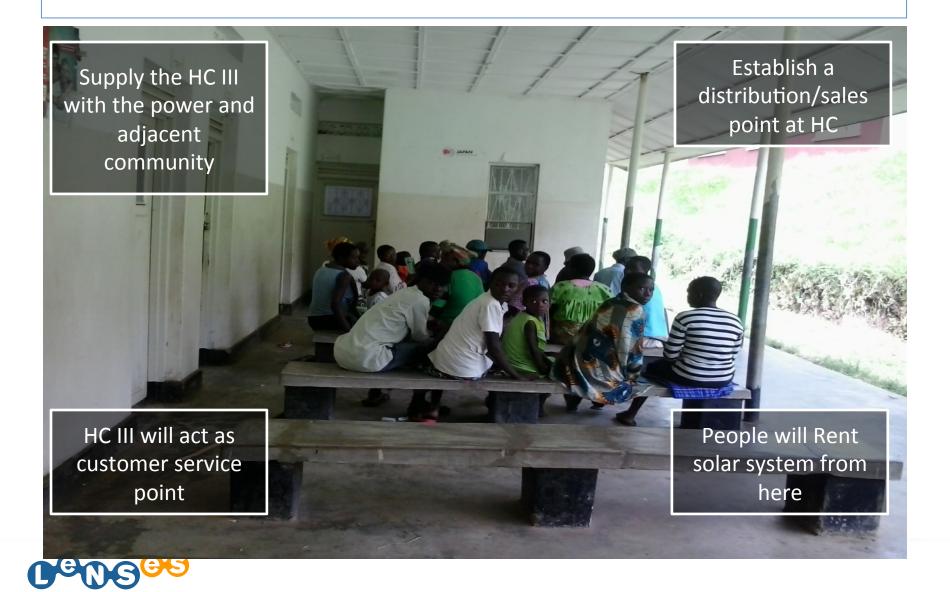


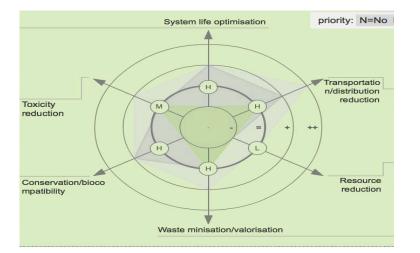


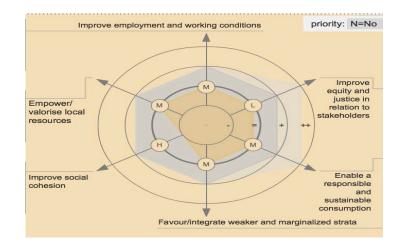


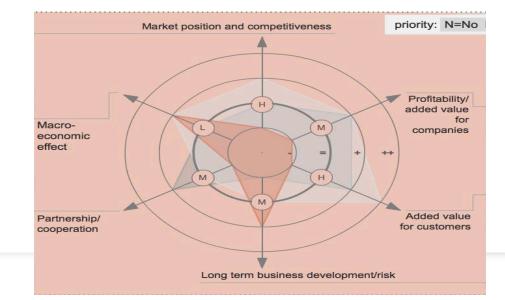


Supply the Health Centre









What are the results

- •2 SPSS DRE for SD4EA
- 15 trained students
- •Technology is importants, but the SPSS is the enabler to sustainable development, business development, added value and much more....
- •1 observer back to CPUT for next course
- •1 host with more experience for within practice CREEC
- •1 host with more experience for own currucula
- •1 guest with case for pHD
- •1 guest with new demonstration projects





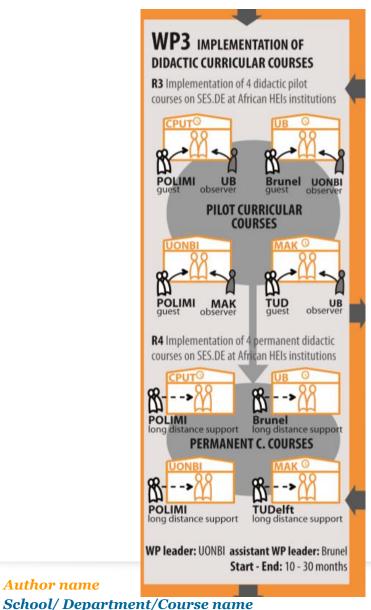








From Pilot Course to Permanent Course



Author name







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Life Long Learning Modules

With Polimi Experience with most partners Training for professionals

ign and Engineering (SES.DE) in African HEIs,

WP leader: CPUT assistant WP leader: Polimi Start - End: 1 - 5 months

WP4 DESIGN OF LIFELONG LEARNING MODULES AND SUPPOR-TING LEARNING RESOURCES

R5 Joint development of lifelong learning modules on SES.DE and related learning resources (specifically conceived to meet needs and priorities of the local production sector)

WP leader: UB assistant WP leader: TUD Start - End: 13 - 33 months

WP5 IMPLEMENTATION OF LIFELONG LEARNING MODULES

R6 Joint development of 4 pilot lifelong learning modules on SES.DE to be held at African partner institutions and targeted to local practitioners from companies, consultancies, organisations etc.

FL













WP7 EXTERNAL EVALUATION

R16 External independent evaluation of the whole project

WP1 PROJECT SET UP

R1 Analysis of the current state-of-the-art in the field of Sustainable Energy System Design and Engineering (SES.DE) in African HEIs, and identification of priorities and needs (in education, research, and practice)

WP9 MANAGEMENT project management



The end....

A large set of trained students, staff, practitioners
New tools & methods
Cross fertilization
New partnerships
New actions in practice
New curricula

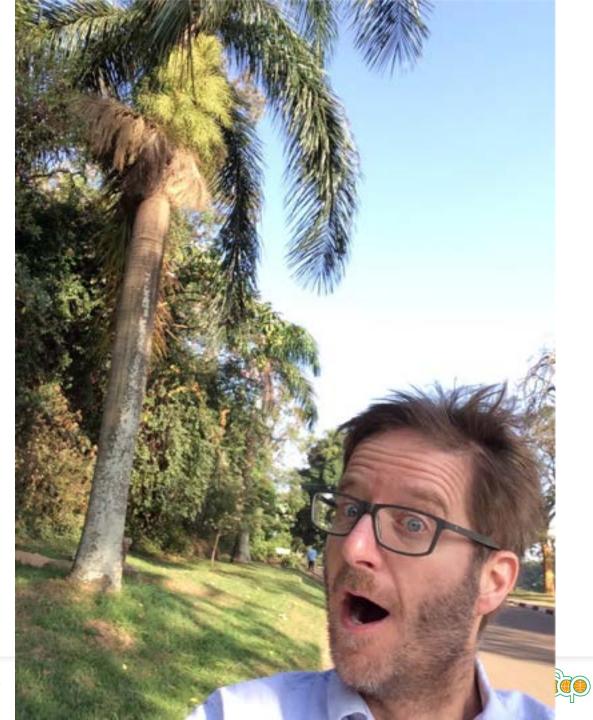
And much more





















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