



With funding from



SOLTRAIN+ Project Introduction

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AEE INTEC



Source: BBCDC

Phase 1: May 2009 - August 2012
Phase 2: November 2012 - February 2016
Phase 3: March 2016 - July 2019
Phase 4: July 2019 - December 2022
Phase +: January 2023 - December 2026

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 AUSTRIAN
DEVELOPMENT
COOPERATION

Key facts

- Project start: 01/01/2023
- Project end: 31/12/2026

- 10 partners

- 5 countries:
 - Botswana
 - Lesotho
 - Namibia
 - South Africa
 - Zimbabwe

- (other countries to be addressed in late stages of the project, aka Mozambique and other SADC countries)



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SOLTRAIN so far (until end of 2022)



- **5 000 people** have been trained in more than **200 training courses** in the *six* partner countries since the beginning of the SOLTRAIN programme.
- **665 demonstration systems** have been installed show and demonstrate the different solar thermal applications.
- The total collector area of these systems is **6,955 m²** corresponding to an installed capacity of **4.9 MWth**.

Source: SOLTRAIN

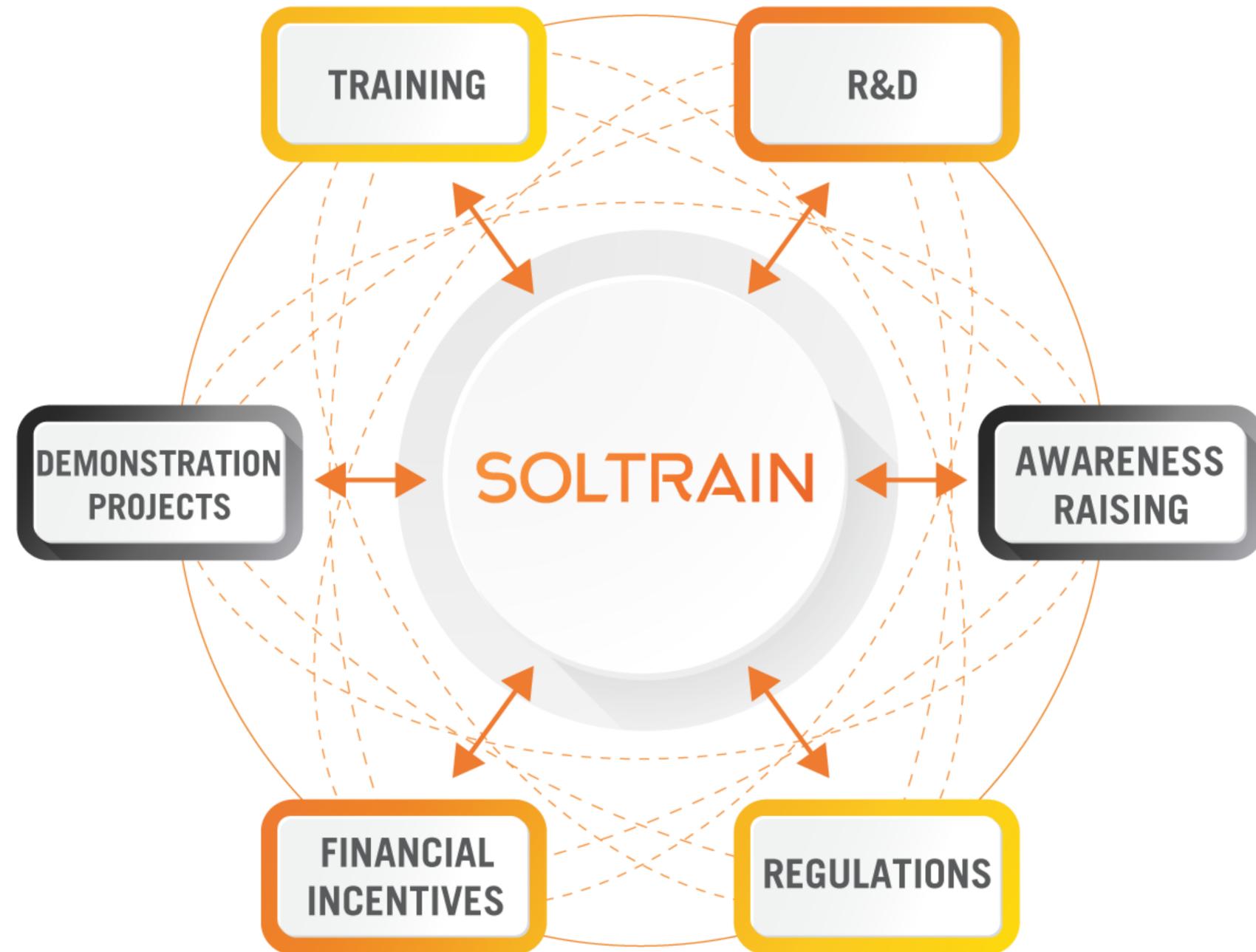
SOLTRAIN so far (until end of 2022)



Country	Total collector area [m ²]	Total capacity [kWth]	Number of systems	Solar yield [kWh/a]	Electricity savings [kWh/a]	Avoided Electricity Cost [€]	Avoided Electricity Cost [ZAR]	CO ₂ reduction [t _{CO2} /a]
Mozambique	263	184	39	230.254	253.279	35.079	647.761	80
Namibia	1.324	927	253	1.203.581	1.323.939	183.366	3.385.974	415
South Africa	4.096	2.867	151	2.924.400	3.216.840	445.532	8.227.068	1015
Zimbabwe	673	471	115	569.427	626.370	86.752	1.601.941	196
Lesotho	332	233	49	302.662	332.928	46.110	851.463	105
Botswana	266	186	58	252.189	277.408	38.421	709.472	87
TOTAL	6.955	4.868	665	5.482.513	6.030.764	835.261	15.423.679	1.897

Photos:
SOLTRAIN/
AEE INTEC

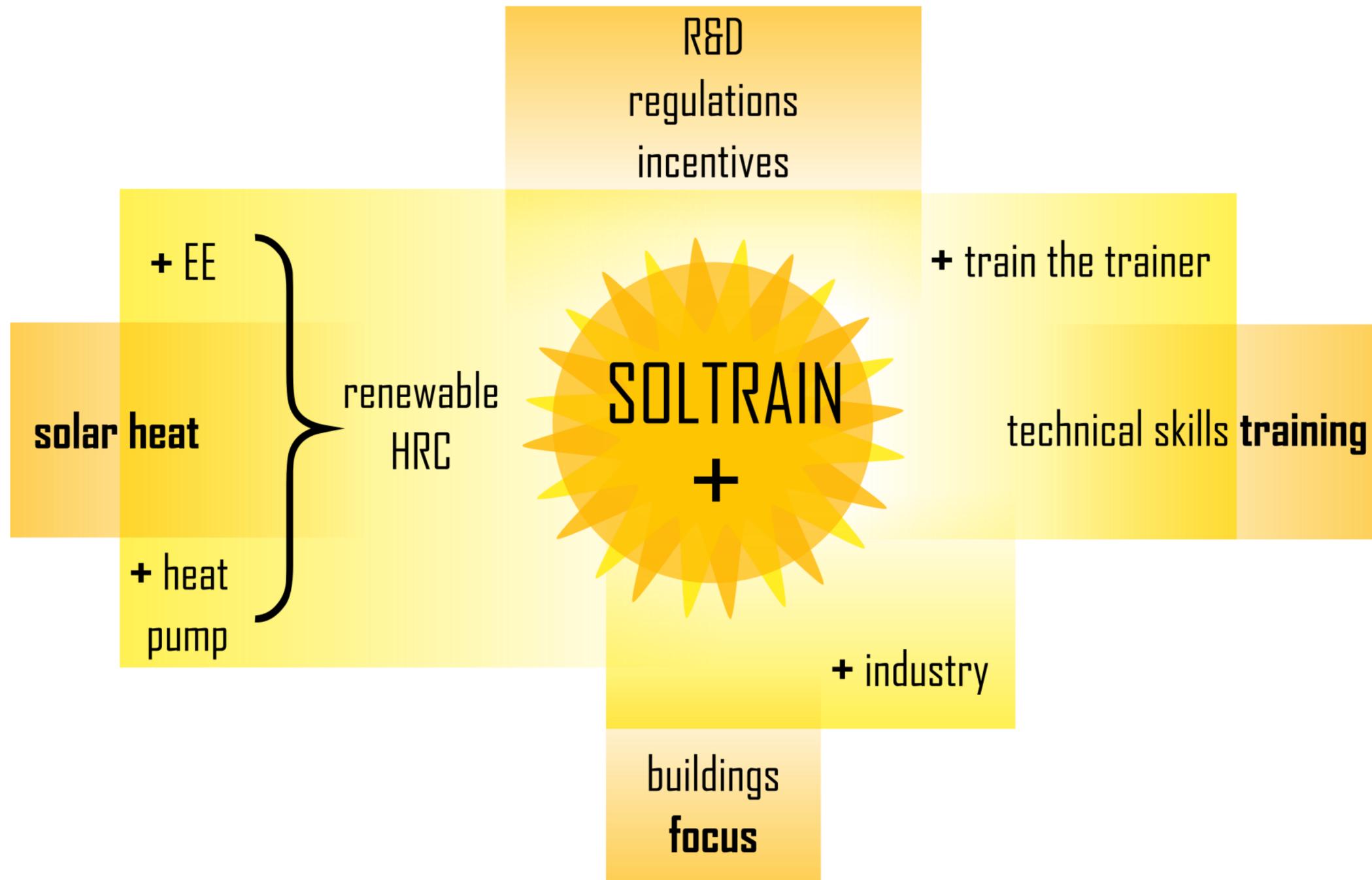
SOLTRAIN Focal Areas



Source: SOLTRAIN

SOLTRAIN+

The next 4 years with renewed scope with solar at it's core



Source: SOLTRAIN



Work packages

SOLTRAIN+ partner

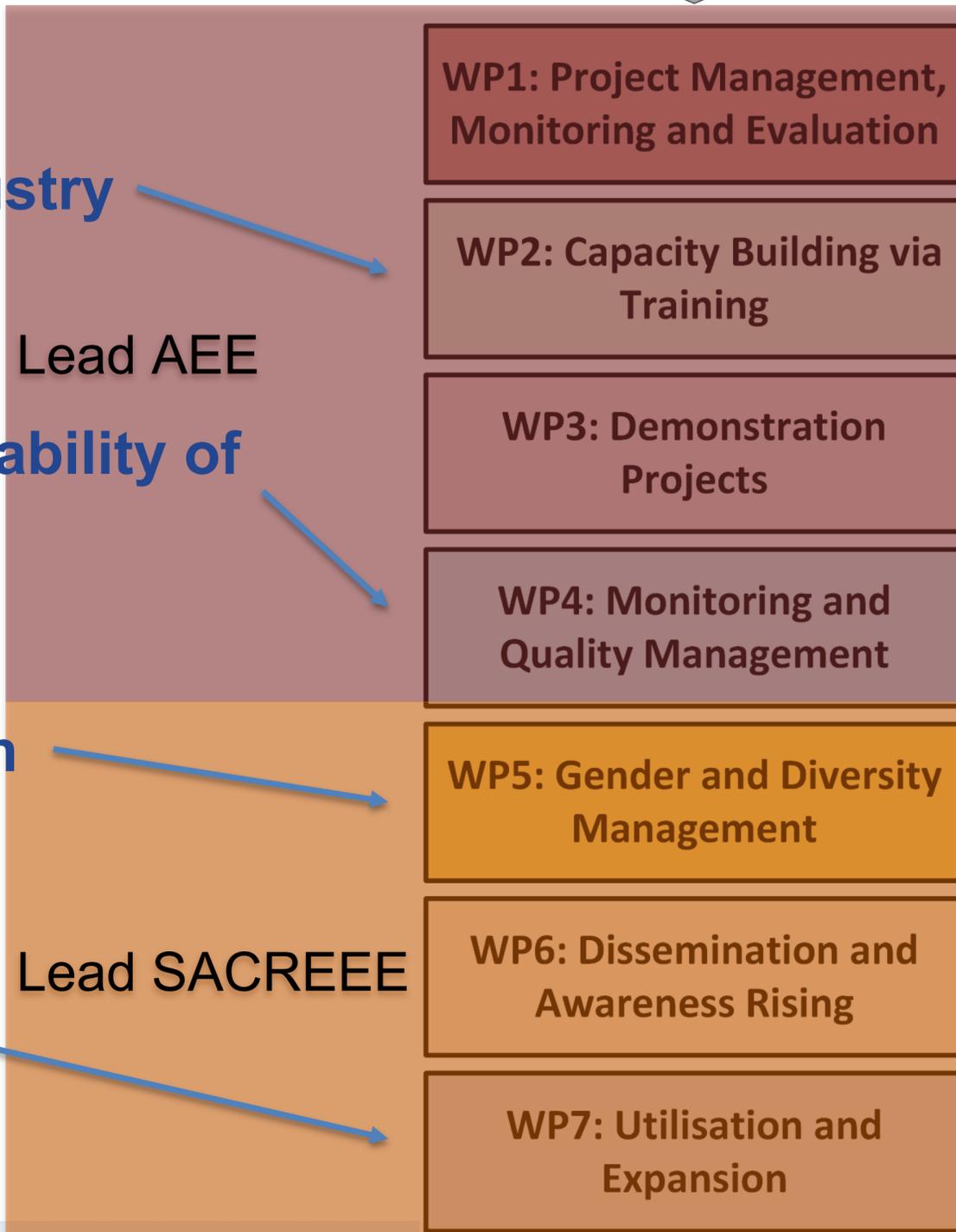
Target group and beneficiaries

Focus on train-the-trainers, industry



Quality Infrastructure demonstrators sustainability of

Empowerment of women in clean tech



Steering Committee and Advisory Board

VTC, experts, trainees, practioners, trainer, supplier, end-users, R&D

End-user, financial sector, experts, trainees, practioners, trainer, R&D, policiy makers

End-user, experts, trainees, practioners, trainer, R&D, VTC

Whole consortium, all stakeholder

R&D, policy makers, experts, suppliers, end-user, VTC, trainer, financial sector

VTC, trainer, practioners, supplier, end-users, R&D, policy maker SADC, financial sector

The SOLTRAIN initiative is growing

SOLTRAIN+ Conference at Lord Charles Hotel in Somerset West – November 2022



Source:
SOLTRAIN

Award by the International Energy Agency (IEA) Solar Heating and Cooling (SHC) Programme 2022



Source: SOLTRAIN

Training on the job

Trailers and demos at universities and VTCs



Source: SOLTRAIN

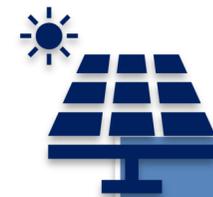
Demos at Hospitals, Industries, Farms, Social Institutions



8 new applications including PVT, heat pump, heat recovery and 1,200 m² solar collector area

Source: SOLTRAIN

SOLTRAIN+ Demonstration



Technological scope

- Solar thermal systems
- Heat pumps
- Excess heat recovery



Application process

- Experts trained in the courses
- Offline and (soon) online application form
- Applications to the SOLTRAIN steering committee



Subsidy and criteria

- 65 in industry/commerce
- 130 in buildings
- Up to 50% funding - depending on:
 - Innovation
 - Size
 - Application
 - Applicant



Quality check

- On-site visit after 1 year
- Remote monitoring

Support project pipeline

Attract more clients from **focal sectors** to join

- Industry
- Hospitals
- Tourism
- Social housing projects

Awareness raising events for target groups

Trained experts supported by AEE INTEC will perform **energy assessment**

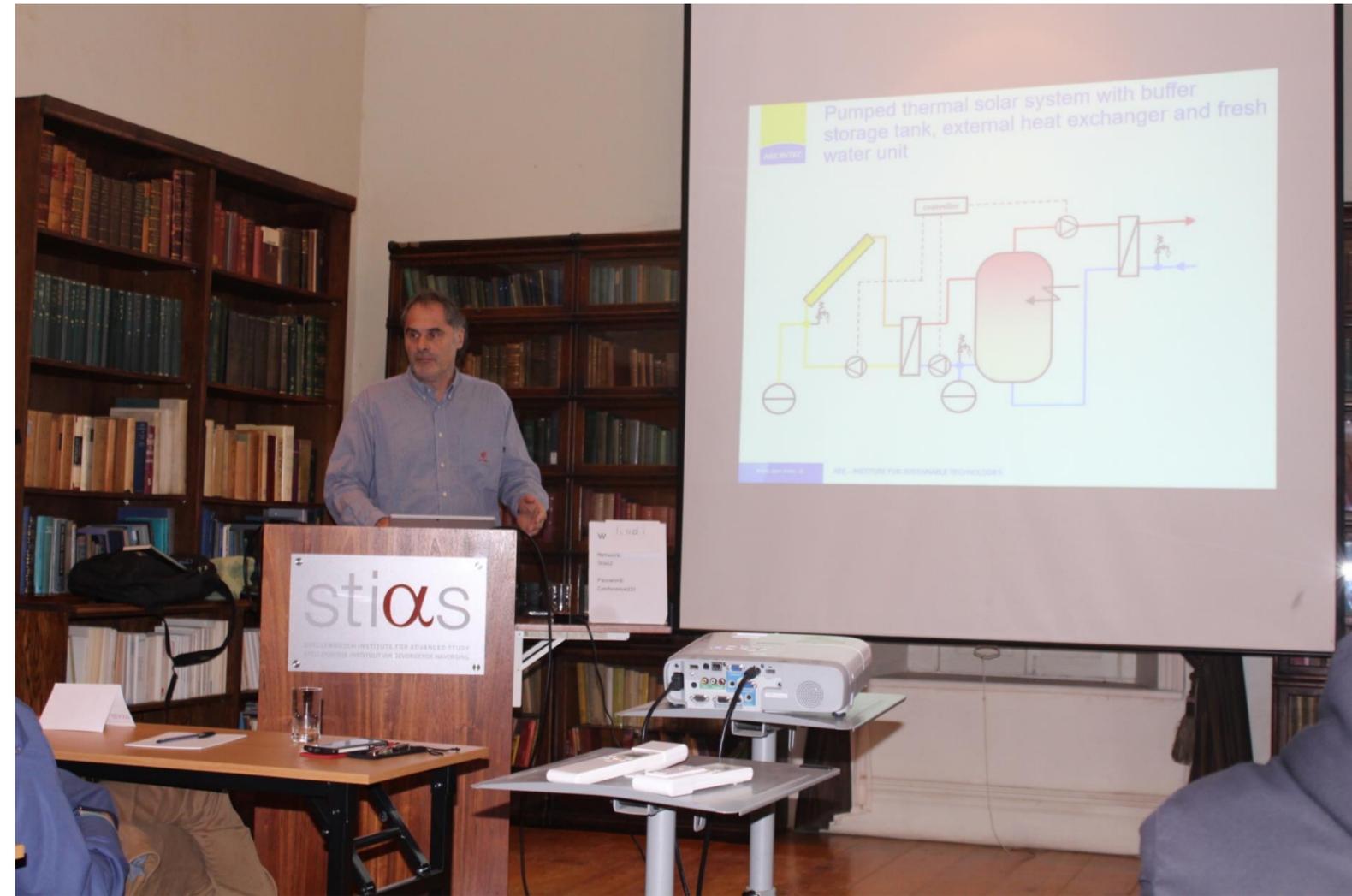
Pre-feasibility report as pre-check

Demonstration funding (max. 50%) for installed systems

SOLTRAIN + Results of the first 6 months (1/3)

- 3 train-the-trainer courses in Namibia, Botswana, South Africa
- 3 trainings for energy efficiency in industry & commerce in Namibia, Botswana, South Africa

Source: SOLTRAIN



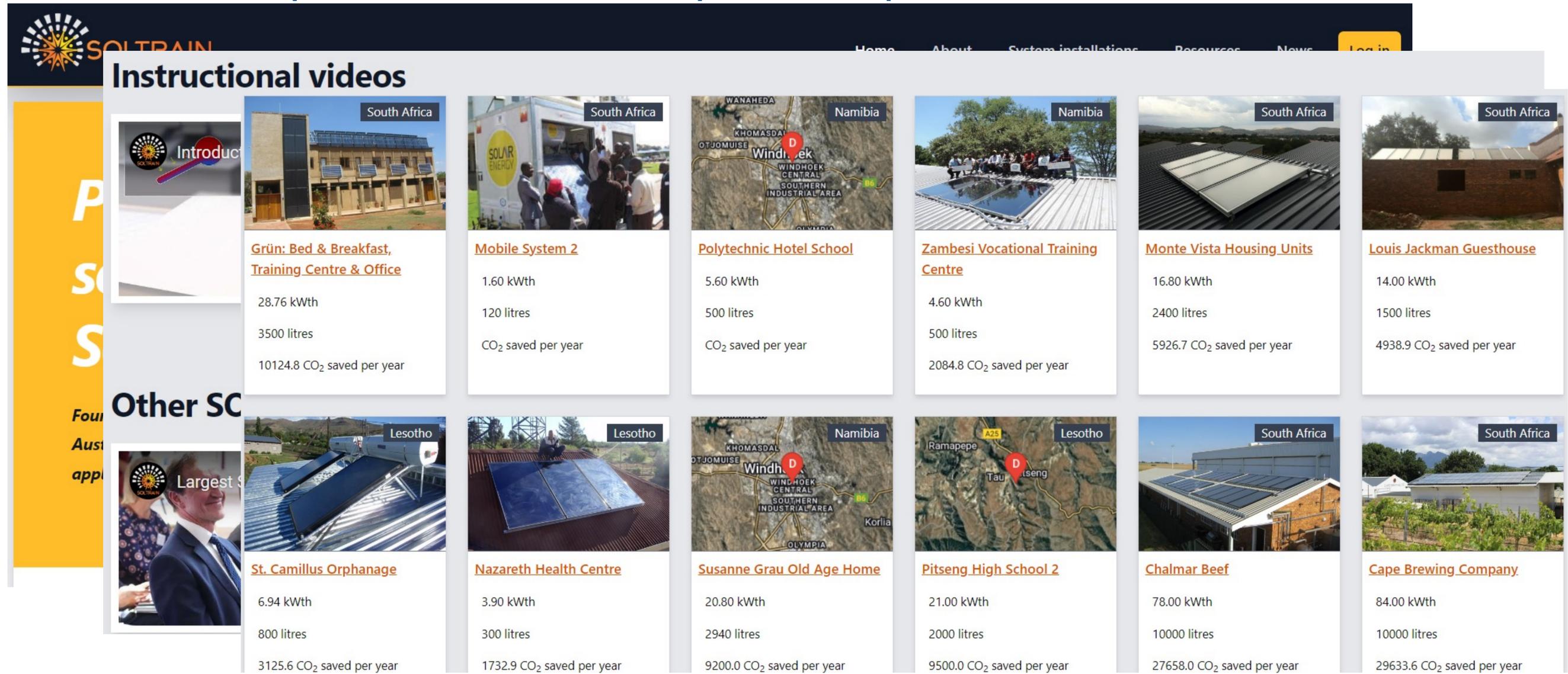
SOLTRAIN + Results of the first 6 months (2/3)

- Dissemination activities (workshops, expos, conferences) by all partners
- Gender&Diversity questionnaire with >100 participants as basis for G&D strategy
- Renewed application procedure for demonstration projects



SOLTRAIN + Results of the first 6 months (3/3)

- Updated soltrain.org website
- Further development to know-how platform planned



Instructional videos

Project Name	Country	Energy Production (kWth)	Water Savings (litres)	CO ₂ Saved per year
Grün: Bed & Breakfast, Training Centre & Office	South Africa	28.76	3500	10124.8
Mobile System 2	South Africa	1.60	120	-
Polytechnic Hotel School	Namibia	5.60	500	-
Zambesi Vocational Training Centre	Namibia	4.60	500	2084.8
Monte Vista Housing Units	South Africa	16.80	2400	5926.7
Louis Jackman Guesthouse	South Africa	14.00	1500	4938.9
St. Camillus Orphanage	Lesotho	6.94	800	3125.6
Nazareth Health Centre	Lesotho	3.90	300	1732.9
Susanne Grau Old Age Home	Namibia	20.80	2940	9200.0
Pitseng High School 2	Lesotho	21.00	2000	9500.0
Chalmar Beef	South Africa	78.00	10000	27658.0
Cape Brewing Company	South Africa	84.00	10000	29633.6

Other SC



AEE INTEC

IDEA TO ACTION



With funding from



Visit soltrain.org for resources, news and updates

Thank you for your attention!

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