TAMAA Case

Case study: Wellbeing of African villagers within their community empowered by sustainable new energy services

The TAMAA (Hope) case study enquired with the in-depth interviews how to build a sustainable flourishing learning village community even though the poverty is widespread, agriculture practices are ineffective without irrigation systems, and lack of energy prevents to make the most of the African enormous resources. As George Pindua, one of the interviewees expressed: “The basic needs of people in Africa include food, shelter, clean water, electricity, education, hospital and infrastructure”. Therefore this case of African villagers’ wellbeing explored the insights, knowledge, experiences, and visions of people involved in development co-operation works for years, the aim being to bring the voice of the professionals worked within people in the developing countries and especially in Sub-Saharan Africa. Moreover, the goal was to identify change levers, which foster the society to satisfy rural Africans’ basic needs and broaden to these needs to business opportunities.

The TAMAA case first assessed the general basic customer needs as education, food, water, sanitation, health, lighting, cooking, income, safe and sustainable environment, electricity, as well as general market opportunities. Then, the face-to-face interviews revealed that the most weighted needs of villagers, which contribute to wellbeing, were Clean Water, Nutritious Food, Lifelong Health, Education at all levels, Safe and Healthy Lighting, Agricultural Productivity, Jobs, opportunities for Micro to medium-sized businesses and electricity, as well as clean cooking. The interviews were complemented by reference interviews and cases. New sustainable services were discovered and assessed as Safe and Healthy Lighting, Clean Water, and Drip Irrigation to Food Markets, which have capabilities to produce these identified needs. The services were based on solar technology, thus integrating human needs, energy services, and technology to a socio-technical system.

Beyond Clean Water, which decreases water-based diseases, Drip Irrigation to Food Markets with Clean Water enables a prolific agriculture with versatile crops and increased yields, thus creating opportunities for getting Nutritious Food. Equally important, this service generates micro to medium-sized businesses, and village-farmers can sell diverse products to local markets. Safe and Healthy Lighting, which reduces the serious indoor air problems due to the use of traditional kerosene lamps, makes Education, Jobs, and Micro to medium-sized businesses possible also in the dark-time. Lighting is based on the LED lights and solar panels, which are considered stable technologies, and this service provides a safe and healthy environment for schools, hospitals, and other buildings.

TAMAA Case study report, published online 23 November 2015 Aalto University Library  https://aaltodoc.aalto.fi/handle/123456789/18807, this report linked to my licentiate thesis, Ritva Saarinen

TAMAA case study report, 16 June 2015, first version uploaded 16 March 2015 online

TAMAA Appendices

TAMAA Interviews

Wellbeing African villages with sustainable energy, 16 June 2015

Next you might want to:

- Customise the home page - Click "Edit" to start editing your home page
- Check out our sample pages - Browse the sample pages in the sidebar for layout ideas
- Create additional pages - Click "Create" and choose "Blank Page" to get started
- Manage permissions - Click "Space Tools" and select "Permissions" in the sidebar to manage what users see

Search this documentation

Popular Topics

- documentation-space-sample
- featured

Featured Pages

- Making a template
- Wellbeing of African Communities

Recently Updated Pages

- TAMAA Case
  Nov 28, 2015 • updated by Ritva Saarinen • view change
- Wellbeing of African Communities
  Aug 31, 2015 • updated by Ritva Saarinen • view change
- Licentiate Thesis
  Jun 16, 2015 • updated by Ritva Saarinen • view change
- Making a template
  Mar 11, 2015 • created by Ritva Saarinen