

2020

Research Plan ADS-B project

THE GLOBAL GOALS For Sustainable Development



Ecovillage Boekel works on all SDGs



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Introduction

In this document, you will read about the research plan that has been set up for the project. The project team will discuss the project idea, which sustainable development goals they are using and why. How the desired product will look like (prototype) and what research questions to the project team set up for this research. Also, the method of approach and the possible data sources for this research will be mentioned.

1. Project idea

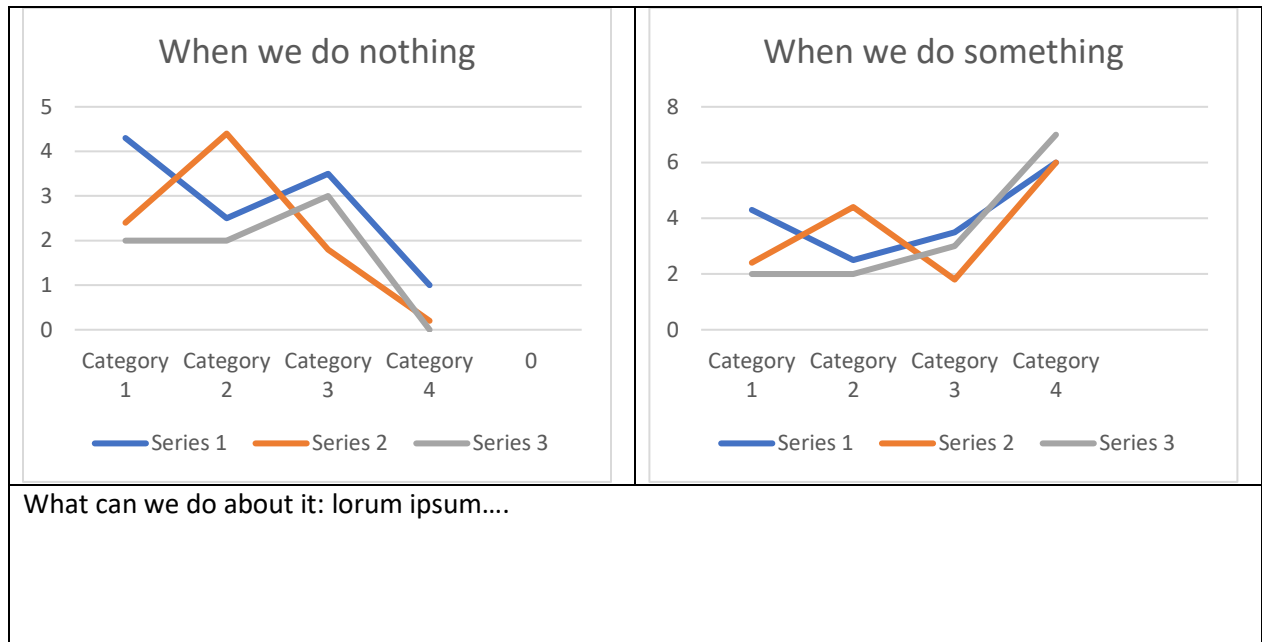
Our idea: For every SDG that is in our opinion important to the world and eco-village Boekel. We will do research on what will happen if we (the people) do nothing, what will happen if we do something and how we can do something. By doing that we can show the negative impact if we do nothing and the positive impact if we are getting more sustainable. We are working out the following SDG's:

- Quality education
 - o Equal access to affordable technical, vocational and higher education
 - o Education for sustainable development and global citizenship
- Clean water and sanitation
 - o Safe and affordable drinking water
 - o Increase water use efficiency and ensure freshwater supplies
- Affordable and clean energy
 - o Universal access to modern energy
 - o Increase the global percentage of renewable energy
- Sustainable cities and communities
 - o Safe and affordable housing
 - o Reduce the environmental impacts of cities
- Life on Land
 - o Conserve and restore terrestrial and freshwater ecosystems
 - o End deforestation and restore degraded forests
- Responsible consumption and production
 - o Sustainable management and use of natural resources
 - o Remove market distortions that encourage wasteful consumption
- Climate action
 - o Strengthen resilience and adaptive capacity to climate-related disasters
 - o Build knowledge and capacity to meet climate change

We have chosen these SDG's with two of their sub-goals because we believe that we can make a good story (storytelling) about these SDG's and that these are the SDG's people can work on in a short time or need to be more aware of. A good story is important to convince the people of the urgency of the SDG's. (sdg-tracker, n.d.)

1.1 Prototype

This is a prototype on how our final product will look like (per SGD)



2. Research questions

Main question	How can we make people more aware and take active action in short notice on contributing to the chosen SDG's?
Sub question	What will happen if we do nothing on the SDG's?
Sub question	What will happen if we do something about the SDG's?
Sub question	What can people do on short notice to contribute to the SDG's?

3. Method of approach

The project team also needs to research the project on the different SDG's. In order to do proper and reliable research, the project uses a research framework named Development Oriented Triangulation Framework (DOT-framework). This framework helps you to structure the research and to communicate about it. The DOT-framework consists of three levels:

- The 'What' of your research (the domains)
- The 'Why' of your research (the trade-offs)
- The 'How' of your research (the strategies and methods)

The DOT-framework will support the project team with the 'How'. In figure two you can see the five strategies the DOT-framework provides. Every strategy has a few methods on how to do research. (<http://ictresearchmethods.nl/>, 2018)

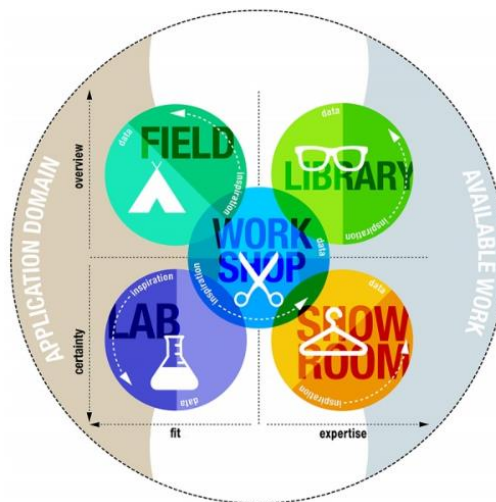


Figure 1 DOT-framework Strategies (<http://ictresearchmethods.nl/>, 2018)

In the table below (table two) the possible research methods the project team can use are mentioned. For a more detailed explanation of the methods you can have a look at this website:

<https://www.cmdmethods.nl/>

Strategy	The methods used on the project
Library	Literature Study Expert interview Best, good & bad practices (cmdmethods, n.d.)
Field	Interview (cmdmethods, n.d.)
Lab	Online analytics (cmdmethods, n.d.)

4. Data sources

We will use the data regarding the SDG's on the following websites:

- <http://cci.esa.int/> (all kind of data regarding climate change)
- <https://catalog.data.gov/dataset?groups=climate5434> (climate change dataset)
- <https://www.ncdc.noaa.gov/stormevents/> (Wheater datasets)
- <https://data.knmi.nl/datasets> (Wheater datasets)
- <https://data.worldbank.org/topic/climate-change> (all kind of data regarding climate change)
- <https://datahub.io/collections/climate-change> (datasets regarding C02)
- <https://www.eea.europa.eu/data-and-maps/indicators/direct-losses-from-weather-disasters-3/assessment-2> (economic impact on climate change)
- <https://data.world/datasets/education> (datasets about education)
- <https://data.worldbank.org/topic/education> (datasets about education)
- <https://data.world/datasets/energy> (datasets about (clean) energy)
- <https://data.world/datasets/environment> (datasets about environmental impact)

More datasets can be used during the research, these are just guidelines for the project team to gather data from.

References

cmdmethods. (n.d.). CMD Methods Pack - find a combination of research methods that suit your needs.
Retrieved March 10, 2020, from <https://www.cmdmethods.nl/>

sdg-tracker. (n.d.). Measuring progress towards the Sustainable Development Goals - SDG Tracker.
Retrieved March 13, 2020, from <https://sdg-tracker.org/>