

Lifecycle assessment for greener buildings

Key words: **lifecycle assessment, construction, emissions**



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Main product: CAALA GmbH software

Aim

To enable building planners to optimise designs from an environmental, energetic and economical perspective, taking the entire lifecycle into account

EIT Community connection

EIT InnoEnergy SELECT Master programme and EIT Climate-KIC Accelerator

The project

The idea

CAALA offers a SaaS (Software-as-a-Service) solution so that building planners can get real-time feedback in the early planning phase regarding the economic and environmental performance of their buildings. Without much previous knowledge about energy and emissions, they can check whether regulations are being fulfilled and avoid expensive changes later.

Inspiration

Discussions with my brother regarding his Ph.D. thesis resulted in an understanding of the great role the construction industry must play in fostering sustainability.

Unique selling points

For the first time, planners can optimise a building design, offering customers better quality building with lower lifecycle costs and a minimised ecological footprint.

EIT Community support

The EIT InnoEnergy SELECT Master programme empowered me to become a tech entrepreneur. The EIT Community provides me with a network of like-minded people and access to neighbouring EU markets, while EIT Climate-KIC supports CAALA through its Accelerator programme.

The future

In 10 years' time, we would like to have established CAALA as the standard for lifecycle assessment in the early planning phase and have the majority of architects in Europe using it.

The nominee

The beginning

I always had a great interest in the environment, especially after becoming aware of climate change in my youth. Today, I have the unique opportunity to make use of the experience and knowledge acquired throughout my life to make the construction industry more environmentally friendly.

Joining the EIT Community

I had the opportunity to work for the COO of EIT InnoEnergy as a working student. Doing so convinced me of the great potential the EIT has in

fostering positive change in Europe and around the world.

Entrepreneurial spirit

Co-founding an NGO in Ghana was a life-changing experience; it proved that we can all realise dreams and have a scalable impact. Since then I have been eager to make a positive impact by starting new organisations and companies.

An ideal world

I would love to see people being more conscious and reflective about the world they live in so that they use more of their energy and potential for positive change. We do not lack the knowledge, creativity or resources to make the world more fair and sustainable. We just lack the collaborative willpower to do so.



We can all realise dreams and have a scalable impact.