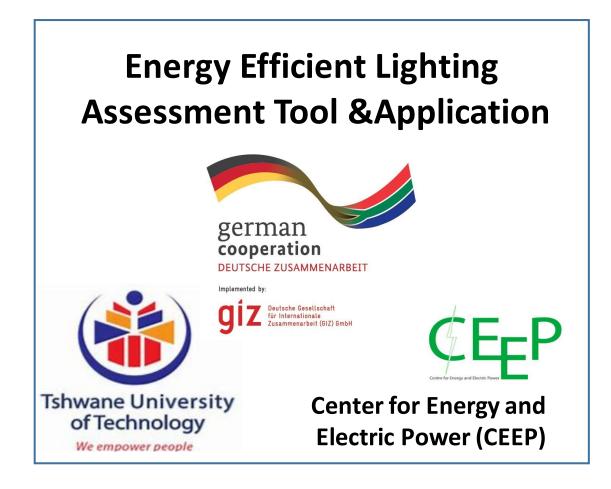
Highlights of TUT Team Development Work Lighting Tool /Application Webinar













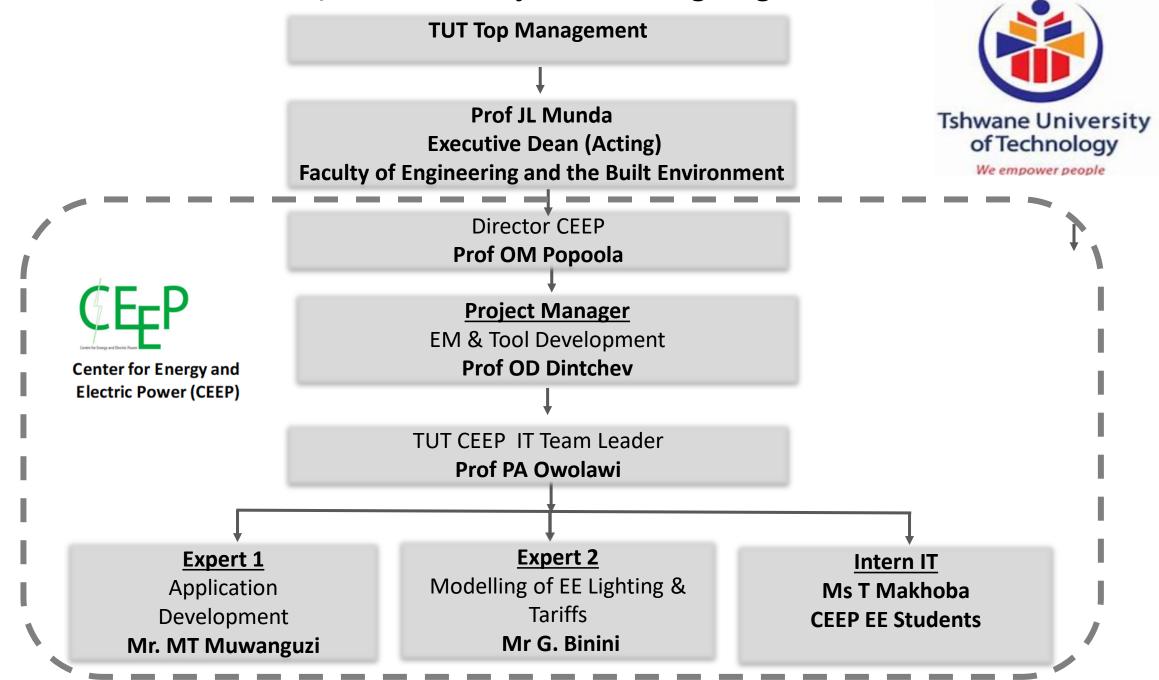




Digital Lighting Tool /App Development for South African Energy-Efficient Economy

The German Development Cooperation in South Africa (GIZ) appointed the Centre for Energy and Electric Power (CEEP) at Tshwane University of Technology (TUT) for the Development of Energy Efficient Lighting Assessment Tool and Application (T/Ap).

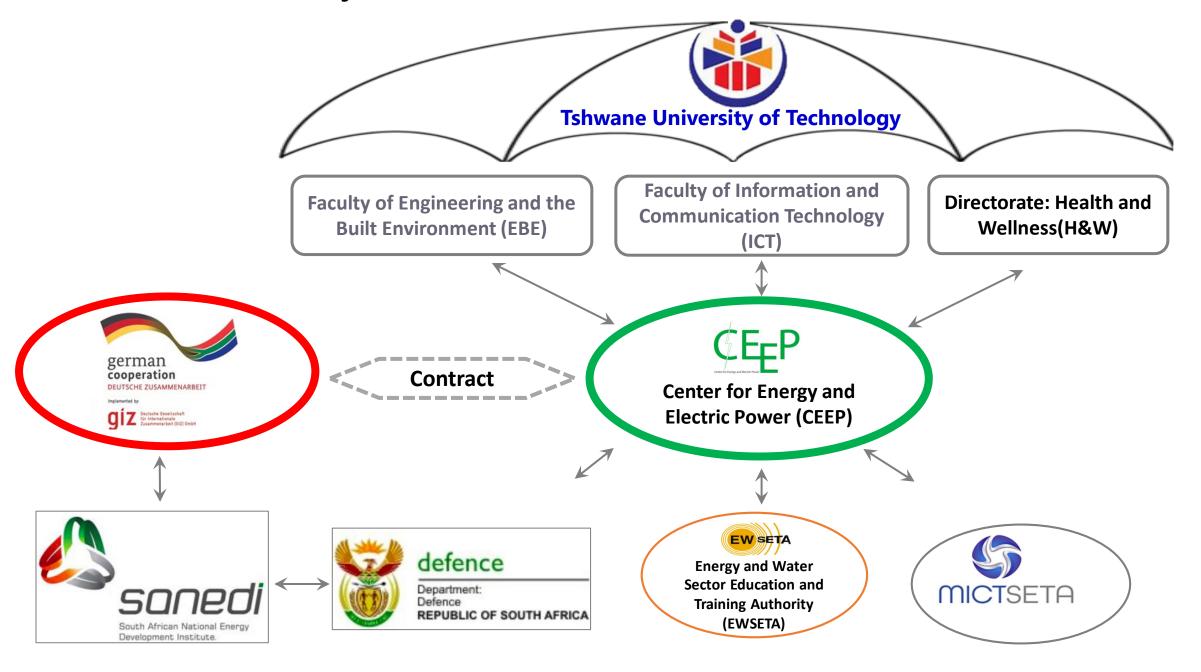
TUT / CEEP GIZ Project Team Organogram



Cooperation

Based on the methodology and the academic environment, the TUT Team developed and maintained an unique framework of "actors"/stakeholders which was a perquisite for successful planning and executing the project.

Project Main Actors and Collaborations



Digital Lighting Tool /App Development for South African Energy-Efficient Economy

- The CEEP developers created a unique Tool/Application based on the potentials of the *digitalization* in maximizing the performance results expected and emanated from Energy Efficiency projects.
- The T/App enables South African Municipalities, other public and private organizations to determine/differentiate their potential energy and monetary savings through implementation of energy-efficient lighting solutions at their premises.
- Two versions of the T/App were provided, namely for Personal Computers and Android Devices.

Stream 1

Energy Management and M&V

Stream 2

WEB and Mobile App Development







TUT Team Methodology for Development of Lighting Efficiency Assessment Tool & App

Lighting
Efficiency
Assessment
Tool & App







Tshwane University of Technology and CEEP in particular, succeeded in developing a workable *digital solution* for the energy efficiency sector as part of the *revitalization* of the South African Economy in this difficult COVID-19 affected time.

The Digital Tool/Application demonstrated the innovative thinking of the TUT researchers and their contribution to Ultimate Digital Freedom nowadays.









Future Work

Handing over of T/Ap) to SANEDI



- Administration &Maintenance workto the current TUTDevelopment Team.
- ■Extend the T/Ap to work on iOS devises



Interactions with DMRE



- ➤ Design/amend, and create and integrate a variety of standardized templates in T/Ap
- Create a *comprehensive database* containing *data from the previous* DoE EE and DSM Programme;
- ➤ Include in T/Ap the database from the existing DoE On-line System
- ➤ Upgrade the T/Ap, while creating a "Business Intelligence"(BI) / "Smart" function of the Tool/App
- Incorporating the M&V reporting into the Tool/App, therefore allowing almost real-time Monitoring and Evaluation (M&E) of the EE and DSM Municipal Programme.

Thank you for your Attention!