

# Festo Didactic. The Solution Provider for African Technical Education

Enabling people to shape the future

**FESTO**

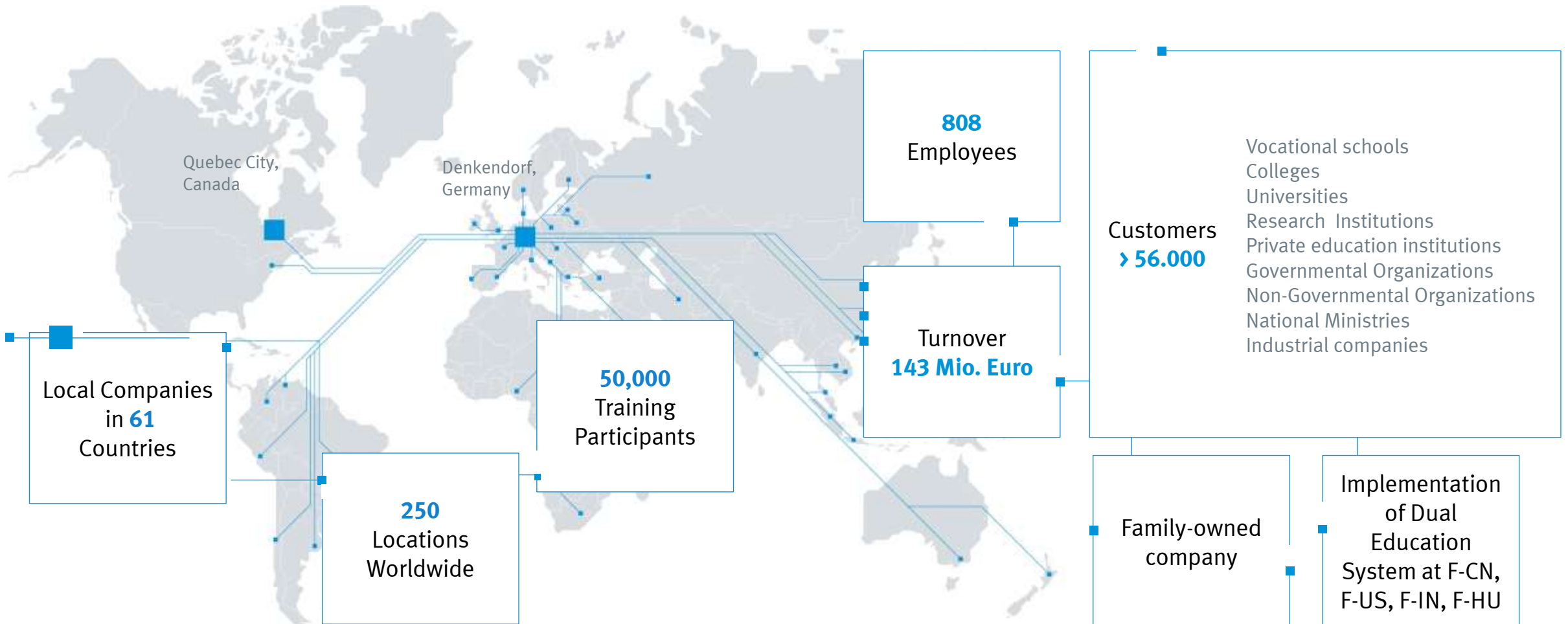


# The Holistic Approach of Festo



Through a remarkable interplay of Automation and Education, we increase productivity and employability world-wide

# Festo Didactic Facts & Figures



# Skilled People Shape the Future

Innovation Power, Employability, and Productivity Through Technical Education.



**Secondary School.**  
Get Inspired by Technology

- Secondary schools
- Individuals



**Technical Vocational Education and Training (TVET).**  
Fundamental Skills for Employment

- Vocational schools
- Colleges/technical schools
- Industrial training company
- Governmental organizations
- Non-governmental organizations
- National ministries



**Tertiary Education.**  
In-Depth Learning and Research

- Universities
- Research institutions
- Governmental organizations
- Non-governmental organizations
- National ministries



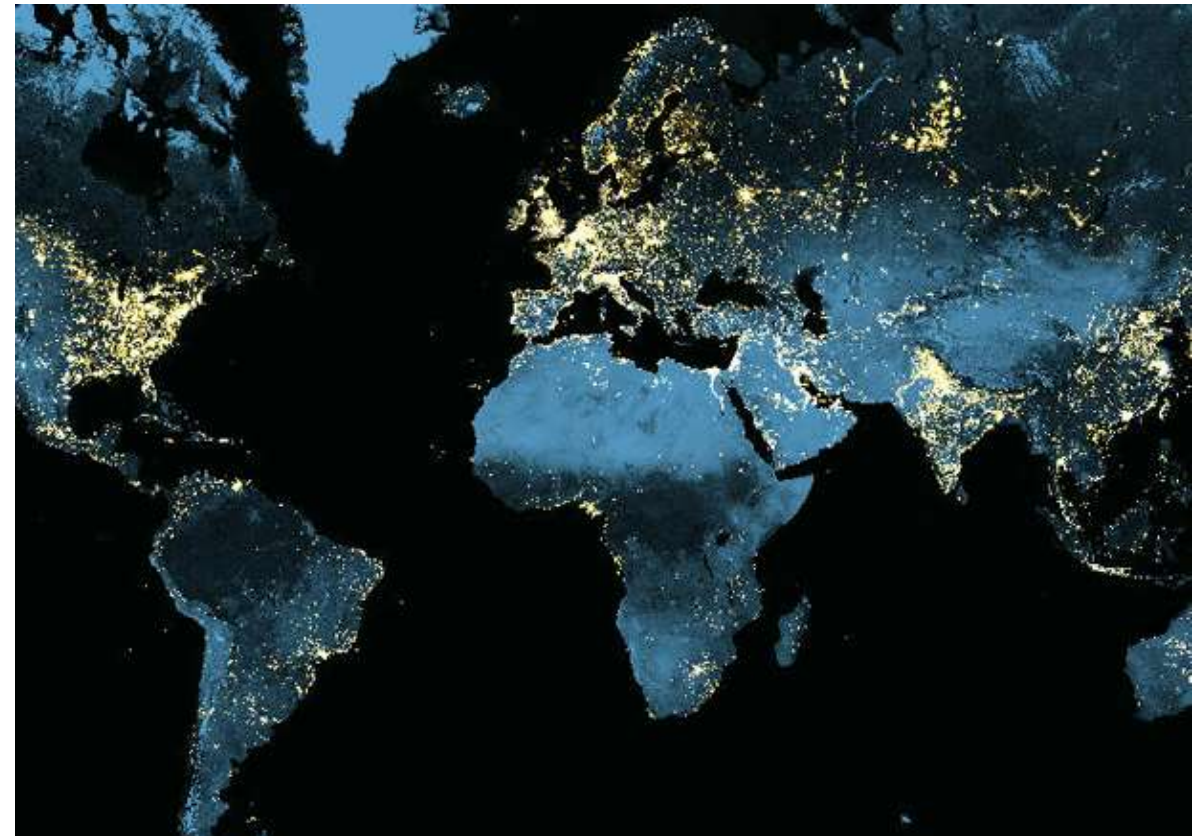
**Industrial Workforce.**  
Update and Upskill

- Industrial companies
- Private training organizations



## Solution for African Technical Education - Context

- 2 year ago, we have developed pedagogical approach **“outside the walls”** for the technical education
- This approach will be relevant for the African specificity (people's needs, purchasing power, volume of people to be trained,...)
- The final objective is to maximize the number of trainees and optimize the TVET investments



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## Employment - Household electrician skills

The profession of electrician can be made up of three main activities:

- Realization of an electrical installation :  
Implanting, laying, installing electrical equipment  
Wiring and connection of electrical equipment
- Commissioning of an electrical Installation :  
Realize verifications, adjustments, functional tests
- Maintenance of an electrical Installation :  
Execute a preventive maintenance operation



## Professional perspective

Team leader

Project manager

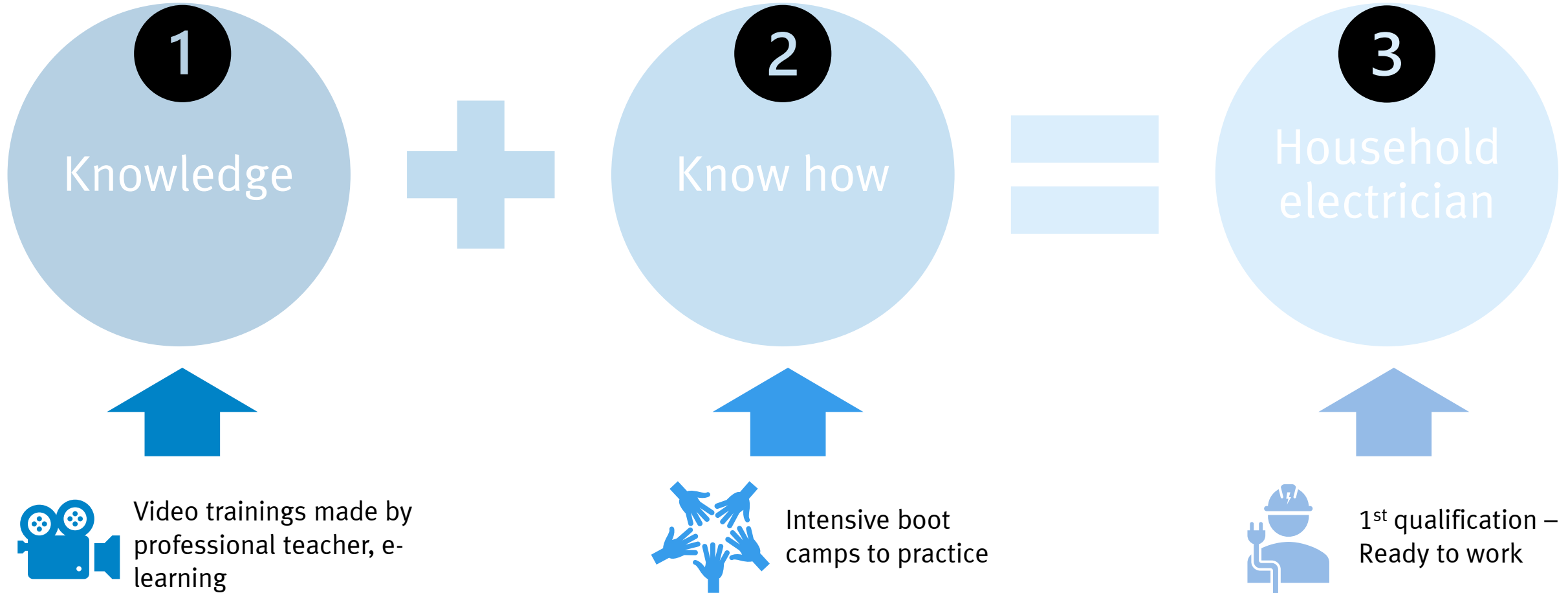
Building or industrial  
electrician

Entrepreneur

Household electrician



## Craftmanship - Household electrician training – Outside the walls pedagogy







## Household electrician training – The knowledges acquisition

- Knowledge acquisition is done through online media
- Media accessible on all devices
- Festo has a digital learning platform for technical professions – **Festo LX**
- The teacher can monitor the students evolutions
- **Festo LX** is able to validate/certify the success in the learning phase

### E-Learning on Festo LX

Electrics 1 - Circuits, Conductivity, Ohm's Law

Electrics 2 - Electric Charge, Capacitors, Coils

Electrical Protective Measures

**Registration is free and a trial period is available on request !**

[Festo LX](#)



## Household electrician training – The know-how acquisition part 1



- Products adapted to the training specification
- Facet products allow to apply the knowledge gained during the E-learning phase on a hybrid mode
- Reinforcement of the fundamental notions to know in electricity
- Compatible with **Festo LX** :
  - **ELab courses** Learning Hardware-related hands-on courses
  - **Simulations** Hybrid learning with simulation hard- & software
  - **Online evaluations, assessment,** reporting, certification



## Household electrician training – The know-how acquisition part 2



- Practice of future job
- Use of electrical equipment identical to that found in a company
- Learning and practicing various electrical installations
- Teachers can create own on-line evaluations to validate the practice



*non-contractual image*



## 1st qualification – Ready for a first job !



## And now...

- We are in contact with African companies to produce pedagogical systems in Africa
- We will present this pedagogical approach during “E-learning Africa” in Kigali
- We have already propose this concept in some projects focusing on employability
- We aim to support access to employment for more people
- We are at your disposal to promote **the outside the walls pedagogy** approach
- We are available to develop this concept for other jobs (renewable energy, welding, climatic and thermal engineering, ...)

