

VISION

- 1. Protection of automotive mechanics from unemployment**
- 2. Protecting the environment, combating climate change**
- 3. Promoting durable, inclusive, and sustainable economic growth**
- 4. Achieving gender equality**
- 5. Creating conditions under which qualified continuing education is accessible to all automotive mechanics**

Very soon, many young Ghanaians involved in traditional car repair will become unemployed as modern vehicles with electronic and digital systems will dominate the market.

To protect them from unemployment, Ghatronic offers seminars for car mechanics, trained mechanics, workshop owners or master craftsmen and all young men and women who are interested in IT technology. We organize the seminars in such a way that the training is accessible and affordable for everyone.

The participants of the seminars will learn how to diagnose and repair digital cars. We will organize collaboration between seminar participants and mechanics in the informal sector who may be illiterate or not speak English. Seminar participants will receive sustainable training that they can use to continue as multipliers and contribute to prosperity or economic growth.

Professionally maintained and repaired vehicles will reduce air pollution and fuel consumption, thus reducing CO2 emissions and contributing to a cleaner and healthier environment in Ghana.

Professional repairs will reduce waste.

Where possible, electronic engine controls will be optimized to best suit Ghana's climatic conditions, minimizing exhaust emissions.

Ghatronic will campaign for the introduction of unleaded gasoline to ensure the functionality of the catalytic converters.

After the initial basic training, there will be continuous further training, thus considering further developments of the manufacturers as well as supporting the transformation to electromobility.

Mandate of GHATRONIC:

- 1. organization and implementation of high-quality qualified training for automotive mechanics, development of curricula, continuous training of mechanics.**
- 2. promoting full productive employment and decent work for all, as well as durable, inclusive and sustainable economic growth**
- 3. training of trainers**
- 4. support for the establishment of "seminar containers" in existing workshops**
- 5. ensuring gender equality**
- 6. ensuring the sustainability of the project**

Details on point 1 and 2 (qualified further training, full employment):

Ghatronic intends to provide qualified competence-based training, thereby ensuring sustainable employment.

The original plan for the premises for the seminars has been improved. We are no longer centrally located at our place in Accra but go directly to the workshops. For a first test we successfully set up a seminar container of his workshop together with our trainer Evans Ato. On the other hand, there are institutions whose premises we can use for the seminars (such as the vocational school ATTC in Accra or the ITTU by the Technology Competence Centre (TCC) of the University KNUST with SMIDO in Suame Magazine in Kumasi). For the mechanics, it is best if the seminars are held in the morning from 7 a.m. to 12 middays, afterwards the mechanics can then return to their workshops and continue to earn money and keep their customers. Different levels of seminars are offered. The course content and curricula were developed in 2022 by the trainers with the help of WAVA. The Ghatronic trainers received a memory stick with the PowerPoint materials for their seminars. The equipment for the trainings in the existing seminar container (such as projector, lab boards, special tools, oscilloscope, various diagnostic modules, etc.) was handed over to the master trainer Evans Ato in December 2022. All seminars are designed as one-week seminars. We strive to have a maximum of 5 participants per trainer to train effectively.

In all seminars the theory is supported by many practical exercises.

The first seminar is the Basic Seminar, where participants learn the basics of vehicle electrics (practical exercises with multimeters, lab boards, etc.).

The second seminar is the Advanced Seminar, where the participants learn to detect fault codes generated by the diagnostic module and the significant differences between various diagnostic devices (practical exercises with diagnostic modules and other measuring devices).

The 3rd and 4th seminars are advanced training for car mechanics who perform more complicated repairs or who have undergone appropriate professional training.

The seminars are tailored to the educational background of the participants, so that at the end of the first two seminars of the project, the participants should be able to analyse the main defects of vehicles equipped with digital systems and use the acquired knowledge to repair identified defects.

The mechanics and trainers trained at Ghatronic will be multipliers: they will help vehicle mechanics in the informal sector who are illiterate or do not speak English when they have problems with a vehicle equipped with a diagnostic interface.

Training seminars will later be offered for all participants so that the mechanics can always keep up to date.

Details on point 3 (training of trainers):

Even before the forced lockdown due to the Covid pandemic, we had been able to inspire Evans Ato and Abraham Kyeremeh to work with us and become trainers. They were able to attend trainings at WAVA (West African Vehicle Academy) during our seminar lockdown and in addition online seminars took place by WOW! Würth Online GmbH. They are now our senior trainers. When we started our seminars in Accra and Kumasi in 2022, we also had specific trainings for trainers by our "Senior Expert" from Germany. After the first seminars in Accra and Kumasi we found 4 new trainers, so that we can now continue with 6 trainers. The new trainers are continuously trained by our senior trainers, through this "multiplier effect", we can then train as many mechanics as possible. The trainers are not hired by Ghatronic, but they are reimbursed for their expenses. In addition, our trainers are supported by WOW! See further in point 6.

Details on point 4 (seminar containers):

The "seminar containers" are set up in existing workshops. Workshop owners are financially supported to set up a "seminar container" on their premises. This container is used by Ghatronic for seminars for 5 years and can also be used as an office for the workshop. This way the distances for the participants are short and we only must take care of the special equipment, because the normal tools are available on site. In Ghana, the workshops are usually grouped in a certain area (cluster). So, it is possible to set up a seminar container in one workshop of a "cluster" and thus reach very many car mechanics.

Details on point 5 (gender equality):

The seminars are to be filled with equal numbers of men and women. They are also aimed at young women who are interested in IT technology and are interested in analysing digital faults in cars and helping mechanics. Preparations for this project are underway, and from 2024 Ghatronic will be campaigning for special training courses for young women. A first step is that young women do not have to pay a seminar fee even now.

Details on point 6 (sustainability):

Ghatronic aims to become as independent as possible from donations and German experts in the next two years. We would like to achieve this by the following steps:

1. we will charge a fee for the seminars
2. additional Ghanaian trainers will be generated from the participants for further seminars. Our trainers will be supported by WOW! Würth Online World GmbH more than generously. They receive a Snooper (diagnostic interface for the transmission of data from the vehicle) as well as the download of the diagnostic software on their laptops and the and professional support. In return, they agree to hold a certain number of seminars for Ghatronic for 3 years. The trainers can also use the diagnostic equipment for private purposes and earn money with it
3. after the seminars we will perform digital vehicle diagnostics on customer vehicles for a fee
4. by cooperating with organizations and companies in Germany (WOW! Würth Online World GmbH, Forum Afrikanum e.V., Chance for African Youth e.V.) as well as in Ghana (WAVA Academy; GIZ GmbH; University KNUST, Kumasi) the project will be supported with professional know-how
5. premises for an external expert are available at the headquarters in Accra, Awoshie