



Ghana

Establishment of a Fit-for-Future National Metrology Institute

Objective	The project aims to strengthen the capacity of the Ghana Standards Authority, the national metrology institute (NMI) in Ghana, to provide relevant metrological services that will meet the ever-increasing demand of industry and facilitate trade. Furthermore, the project aims to enhance measurement capability to meet the requirements of the scientific community and strengthen consumer protection.	
Approach	A national metrology institute ensures that a country can measure accurately and reliably. International comparability and accurate measurements are becoming more and more important with the increasing globalisation of the economy and society. With the establishment of a fit-for-future NMI in Ghana, the project supports the improvement of the country's measurement capabilities and with that, increases productivity and the competitiveness of the local and regional economy. Following a detailed needs assessment, state-of-the-art metrology laboratories will be established, building on the existing metrological expertise of the Ghana Standards Authority (GSA). The laboratories will be able to provide metrological services to various industries and companies that could thus far not benefit from these services within the ECOWAS region. The transfer of scientific and technical metrological know-how is the focus of the project. International exchange and study visits to the national metrology institute of Germany (PTB) and other NMIs will be important elements of the cooperation. The GSA regularly participates in international comparative measurements to ensure that its measurement capabilities are up to date. The expansion of the NMI laboratories and the metrological services offered will be accompanied by a national metrology forum which is supported by international experts.	
Impact	The fit-for-future NMI will give local companies and research institutions in Ghana and the ECOWAS region access to a broader range of metrological services. Measurements in Ghana will then be traceable to national standards and the results will be internationally recognised. This recognition is essential for the acceptance of Ghanaian products and services in national, regional and international markets. Local companies will be strengthened in their productivity and competitiveness and will be able to expand their export potentials. In addition to the oil and gas sector, agriculture and construction, this also applies to the automotive, health and environment sectors which have a growing demand for metrological services in Ghana and the ECOWAS region. Ghana's share of high-quality products on local and regional markets is increasing, and sustainable jobs are being created – with positive social and economic impacts on the local population (Sustainable Development Goal 8). In addition, a strengthened and efficient legal metrology system can significantly improve fraud prevention and consumer protection, benefiting all consumers in Ghana. Overall, the project contributes to an improvement of the investment climate for domestic and foreign companies and thus to the strengthening of industrial development as well as to more consumer protection.	
Cooperation	The Ministry of Trade and Industry (MoTI) is the political partner of the project. However, the module goes beyond the political responsibility of the Ministry of Trade and Industry as it is also relevant for environmental, scientific, agricultural and health policy. The Ghana Standards Authority (an agency under MoTI) is the central implementation partner.	
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