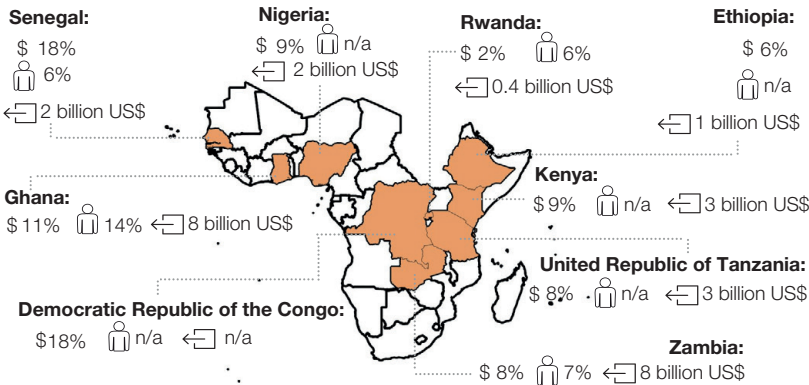



SMEP target countries



\$ Manufacturing value added as a percentage of GDP
  Percentage of labour force employed in manufacturing
  Manufacturing export value



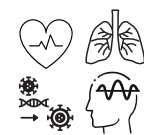



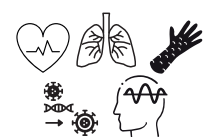



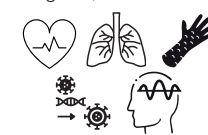



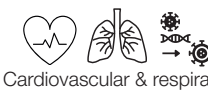

Averages of available data since 2015. n/a = no data available

Manufacturing in sub-Saharan Africa is promoted through national and regional development policy and championed by the African Union's Agenda 2063. In 2018, the industry contributed on average 10% to Gross Domestic Product (GDP) in SMEP target countries. However, international manufacturing data and academic literature in this region are limited. Furthermore, a significant proportion of the industry is informal meaning it is not captured in formal databases.

Information from international data sets, academic literature, and stakeholder engagement can be combined to identify a number of manufacturing industries of concern that could be causing human health and well-being impacts (as well as degradation of ecosystem services) across the region.



The impact caused by manufacturing pollution is dependent on production processes, the treatment of waste, contaminant pathways of pollution (by air, water and soil), as well as the characteristics of the exposed population, such as their occupation, age, gender and socio-economic status.

Industry	Key pollutant types	Human health effects	Key pollutant pathways
 Food and beverages	 Potentially toxic metals, dyes bleaching agents, air pollutants, noise	 Cardiovascular & respiratory effects, carcinogenic, neurotoxic effects	 Water pollution, soil pollution
 Textiles & wearing apparel	 Potentially toxic metals, dyes bleaching agents, air pollutants, noise	 Cardiovascular & respiratory effects, irritation & inflammation, carcinogenic, neurotoxic effects	 Water pollution, air pollution, soil pollution
 Chemicals & chemical products	 Potentially toxic metals, dyes bleaching agents, air pollutants, noise	 Cardiovascular & respiratory effects, irritation & inflammation, carcinogenic, neurotoxic effects	 Water pollution, air pollution
 Electrical equipment	 Potentially toxic metals, dyes	 Cardiovascular & respiratory effects, carcinogenic	 Air pollution, soil pollution

Interventions

Food and beverages	Textiles and wearing apparel	Chemicals and chemical products	Electrical equipment
<ul style="list-style-type: none"> Physio-chemical effluent treatment Improved energy efficiency of boilers and furnaces through insulation 	<ul style="list-style-type: none"> Effluent treatment plants Cleaner production techniques e.g. efficient water usage or chemical substitution Personal protective equipment 	<ul style="list-style-type: none"> Effluent treatment plants Personal protective equipment and training on occupational exposure Noise control technology (costly) 	<ul style="list-style-type: none"> Emission regulations and pollution standards Minimum production capacities to ensure cleaner production Cost-effective technologies for soil remediation