



Bundesministerium  
für Ernährung  
und Landwirtschaft

## LEAP-Agri

Call: „African European collaborative research on Sustainable Agriculture and Aquaculture and on Food and Nutrition Security“

### SmallFishFood: Small Fish and Food Security: Towards innovative integration of fish in African food systems to improve nutrition

<b>Countries</b>	Ghana, Germany, Norway, Kenya, Uganda, Netherlands
<b>Funding Agency for the partners from Germany &amp; Ghana</b>	Federal Ministry of Food and Agriculture – BMEL
<b>Project executing Agency for the partners from Germany &amp; Ghana</b>	Federal Office for Agriculture and Food – BLE
<b>Budget funded by BMEL</b>	<b>276 800 € for the partners from Germany &amp; Ghana</b>
<b>Total Project Budget</b>	<b>1.0 million €</b>
<b>Project Duration</b>	09/2018–08/2021
<b>Key Words</b>	Fishery, fish, food hygiene, food quality, food safety, food chain, nutrition
<b>Coordinator</b>	Prof. Jeppe Kolding (University of Bergen, Norway)
<b>Partners</b>	<ul style="list-style-type: none"><li>• University of Bergen (Norway, coordination)</li><li>• University of Ghana (Ghana)</li><li>• Council for Scientific and Industrial Research - Food Research Institute (Ghana)</li></ul>

	<ul style="list-style-type: none"><li>• German Federal Institute for Risk Assessment (Germany)</li><li>• Kenya Marine and Fisheries Research Institute (Kenya)</li><li>• Institute of Marine Research (Norway)</li><li>• Wageningen University (The Netherlands)</li><li>• University of Amsterdam (The Netherlands)</li><li>• National Fisheries Resources Research Institute (Uganda)</li></ul>
<b>Short Description</b>	<p>This project is part of the ERA-net LEAP-Agri and is performed by a multi-disciplinary consortium of various partner institutions from Norway, the Netherlands, Ghana, Germany, Kenya and Uganda. It deals with the improvement along the supply chains of processed small fish from capture fisheries in Ghana, Uganda and Kenya. The goals are the</p> <ul style="list-style-type: none"><li>• Identification and quantification of current pattern of production and distribution of small fish as food and feed;</li><li>• Description of patterns of harvest, marketing and utilization of small fish and how this food resource contributes to food and nutrition security in these countries;</li><li>• Improvement of production and processing to achieve higher quality and safety as well as longer shelf life of the food products; and</li><li>• Communication of improvements along the supply chains.</li></ul> <p>In this project, the University of Ghana with other consortium partners will improve the recording processes of small-scale fisheries for small fish. Small fish are tracked along the flow of goods from catch, through processing, to transport, all the way to the consumer, to record and quantify in detail the volume flows and food losses. Based on this quantification, models will be used in order to transfer the findings to other product chains of small fish. Further, the Food Research Institute with other consortium partners will explore and improve the marketing, processing, packaging and shelf-life of processed small fish. Special focus will be on improving the drying of small fish.</p> <p>The German Federal Institute for Risk Assessment will analyse samples of processed small fish along the supply chain for microbiological food safety and develop recommendations to increase the food safety of these products.</p>