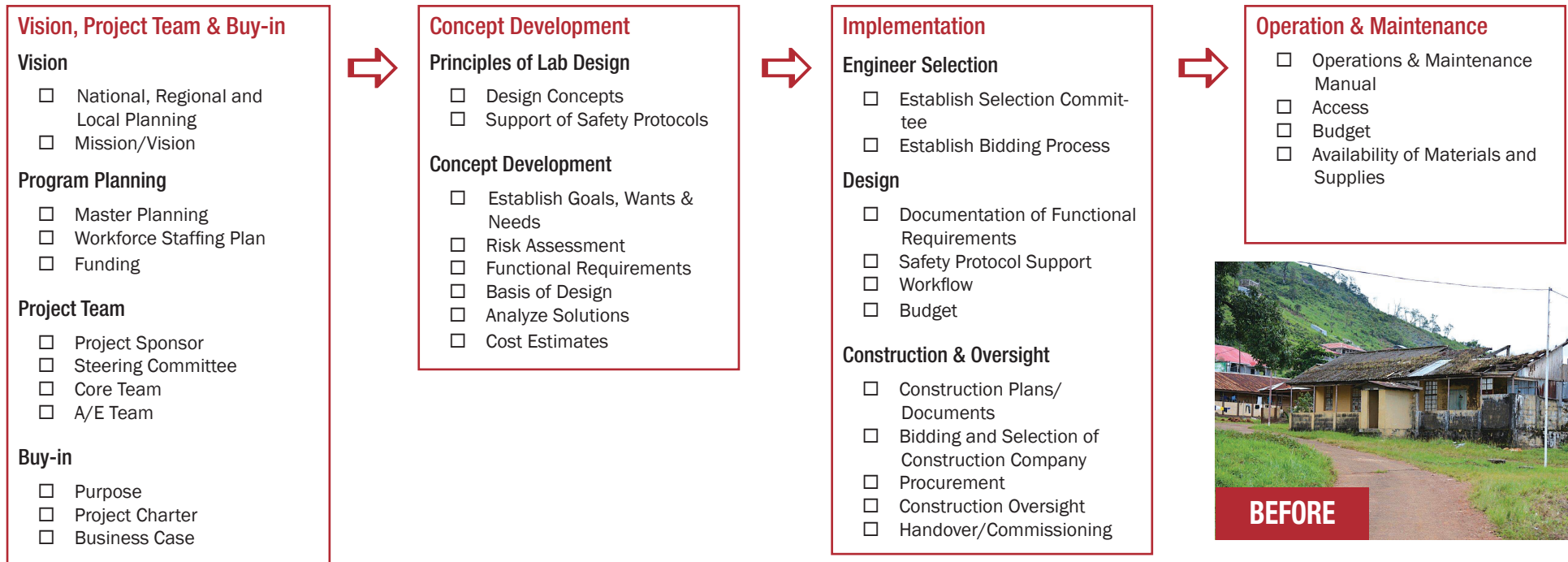




A PROCESS-ORIENTED APPROACH TO LABORATORY DESIGN

for Laboratory Leaders and Programs

The Laboratory Design Workgroup of the APHL Global Health Committee is working to create a reference guide for laboratories—particularly in developing countries—that presents a logical step-by-step process of laboratory design that can be applied to new buildings as well as renovations. The guidance document will help ministries of health and laboratory leaders think holistically about laboratory needs, functions and sustainability by engaging in the process outlined below:



In 2016, the laboratory supply building at the Central Public Health Research Laboratory in Lakka, Sierra Leone underwent renovations.

Sustainability and Safety (utilized throughout the process)

Sustainability

- Power Supply
- Water Supply
- Natural Ventilation
- Air Conditioning
- Decontamination
- Waste Streams
- Budget

Laboratory Safety

- Decontamination
- Safety Manual
- Risk Assessment
- Biosafety Cabinet Placement & Certification

Laboratory Design Workgroup Members:

- Dr. Sanjib Battacharyya
- Dr. May Chu
- Dr. Frances Downes
- Dr. Romesh Gautam
- Warren Hendrickson
- Paul Jankauskas
- Deborah Odegbile
- Dr. Haynes Sheppard
- Dr. Katlyn Wainwright

This project was partially funded with federal funds by Cooperative Agreement #5NU600E000103 from the US Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of CDC.