



## **Project of Laboratory Quality Improvement for Portuguese Speaking Countries Tasks during 2015-2019**



**Ljubljana, Slovenia**

The Project is a cooperation within the framework of improving the Laboratory Quality, with respect to the proper diagnosis and treatment of patients, between representatives of the different countries where Portuguese is the official language.



**Cape Verde**



**Guinea  
Bissau**



**Equatorial  
Guinea**



**Portugal**



**East Timor**



**Mozambique**



**Angola**



**S. Tome and  
Principe**



**Brazil**

## Started in 2015

INSA - Portugal  
SBAC/PNCQ - Brazil  
ECAT- Netherlands



## The three major aspects of ProMeQualab:

Education in  
Quality Control

Biannual  
Congress

Training in  
Quality Control

Mini courses -  
training the  
trainer

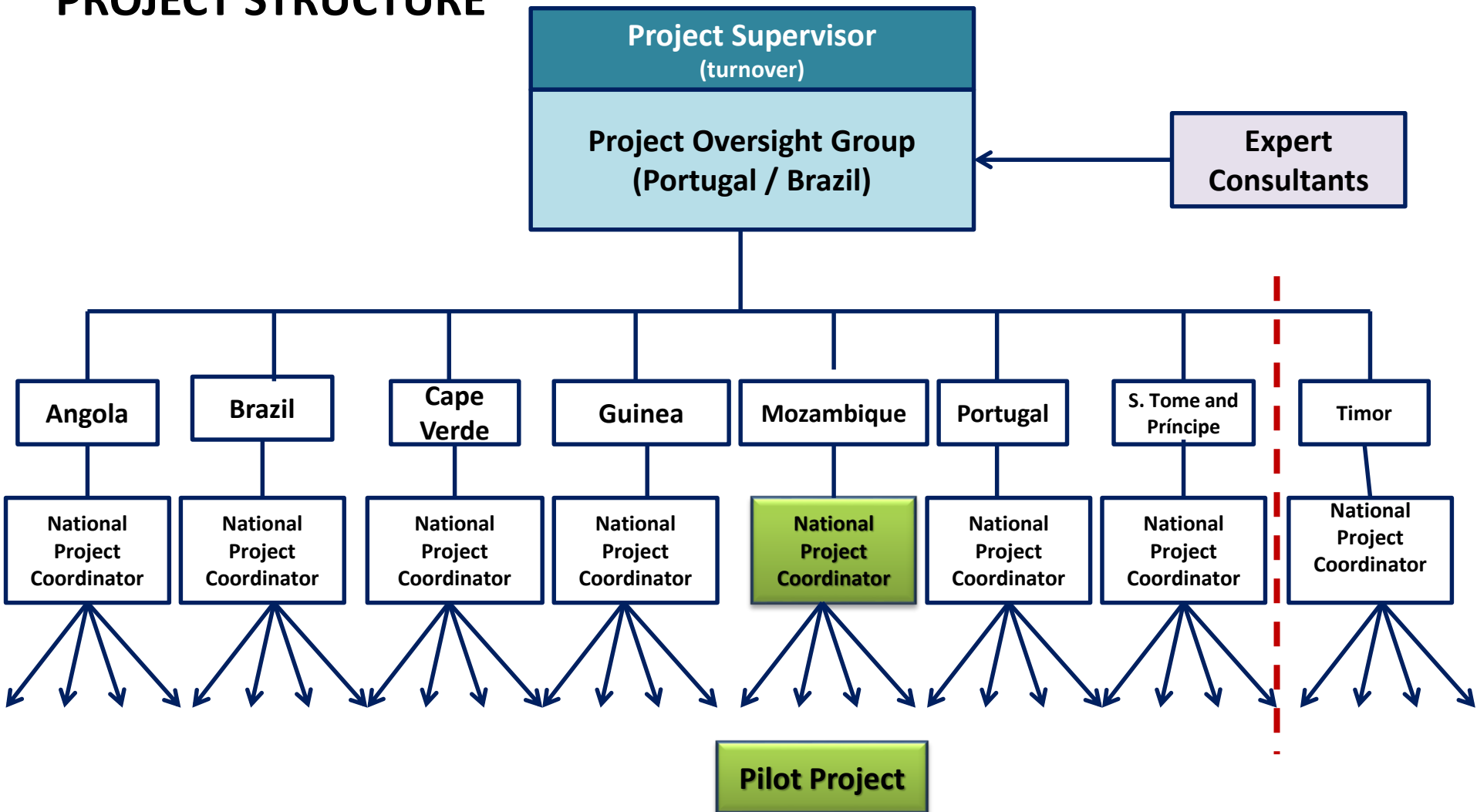
Monitoring quality  
analytical control  
results

Practical work  
sessions

**The aim is to build capacity to implement and sustain good laboratory practices**



# PROJECT STRUCTURE



**Pilot Project**

During 1 week (20 - 27 July 2015), 14 laboratories (mainly in the capital city Maputo) were visited and a previously constructed Checklist/ProMeQualab Assessment Questionnaire was completed.

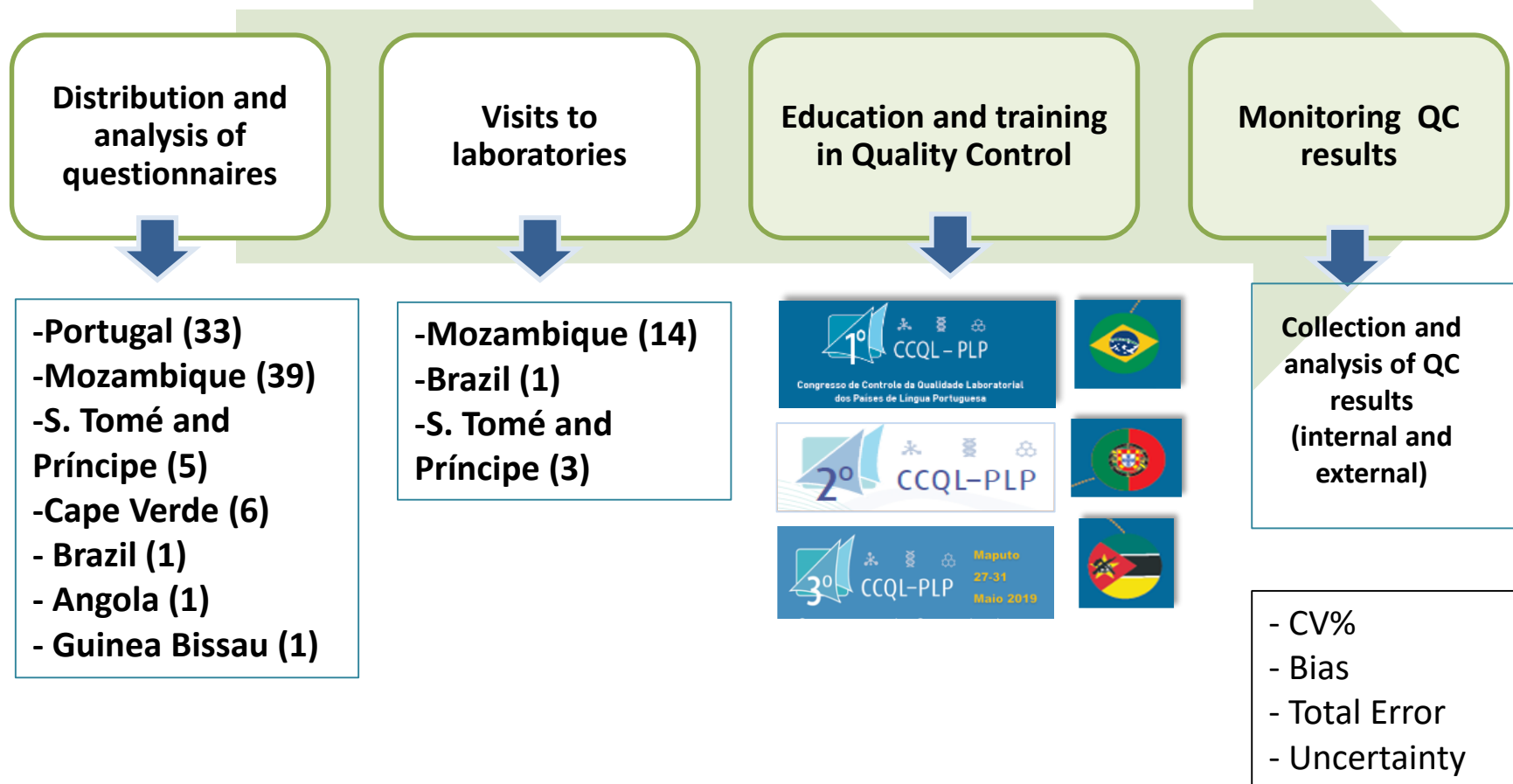
**The purpose of this visit was to assess:**

- the current level of organisation
- resources
- quality control tools implemented
- education and accreditation in laboratories, mainly in the medical field



**It was found that proper education in quality-related issues is lacking in the training for many laboratory workers**

## Tasks during 2015-2019







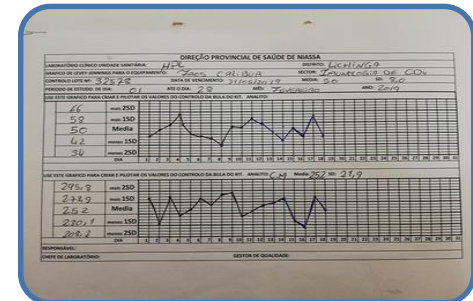
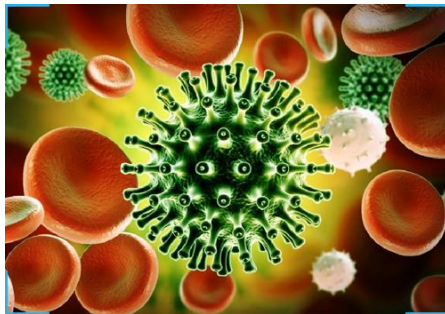
Mini courses were organized on quality-related topics :

- internal quality control
- external quality control
- method validation
- total error and measurement uncertainty
- accreditation, quality management system, risk management, equipment management

ProMeQualab  
trainers

Invited trainers





In two work sessions, trainers and trainees from two laboratories in Maputo applied the statistical tools to quality control results of **HIV viral load** (2018)

Representative of Niassa's Province Laboratory replicated the Courses done on the 3<sup>rd</sup> Congress

Internal quality control results of **CD4** (2019) from Niassa's Immunological Clinical Laboratory

## The most relevant critical points 2015-2019

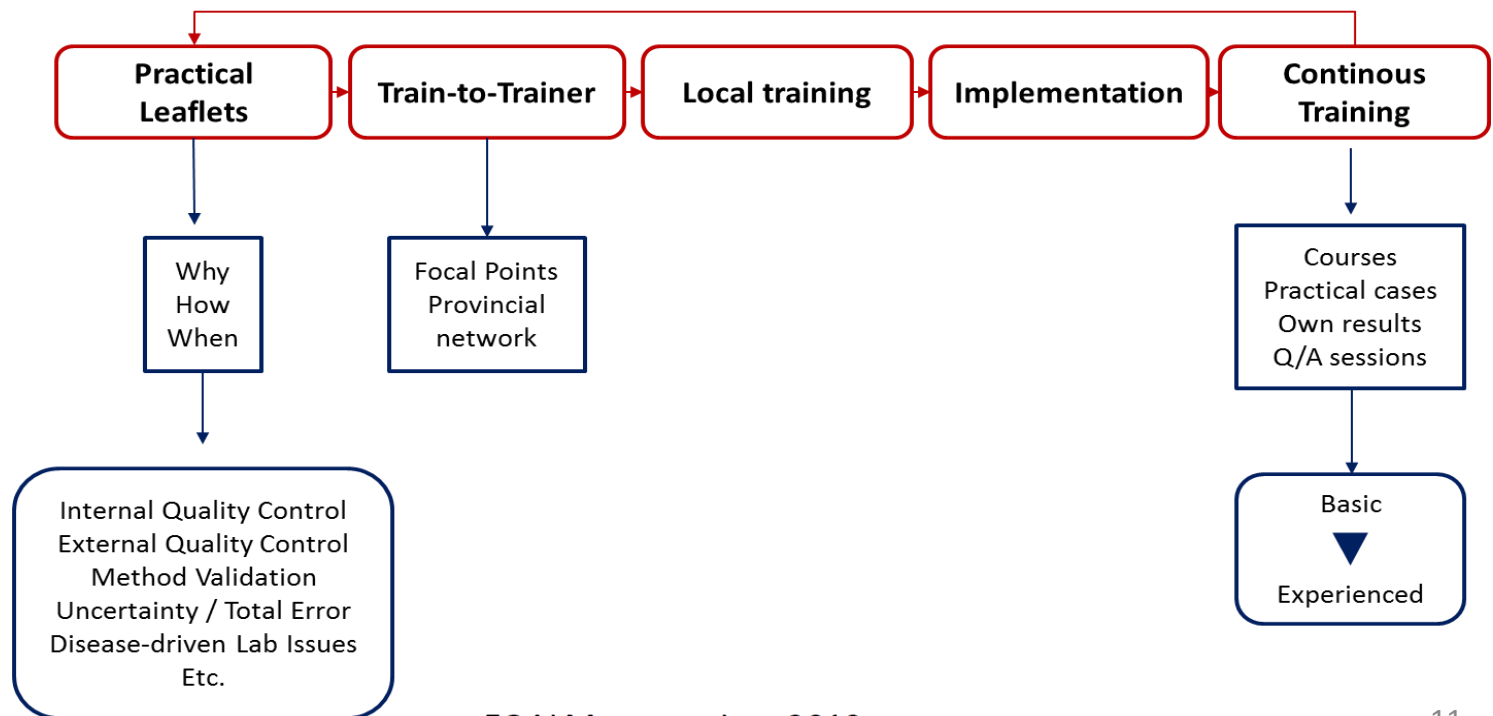
- Great disparity in equipment, reagents and in the implementation of quality control
- A significant lack of knowledge about internal and external quality control



Develop effective training tools

## NEXT STEPS - EDUCATION

- **To provide simple tools quality-related topics** (e.g. pre-analytical phase, internal quality control, external quality assurance, measurement uncertainty/total error, method validation, etc.), **focus on the practical application in the laboratory.**
- **Start with a Train-the-Trainer program.**



## NEXT STEPS

- **Financial support** is essential. Possibilities should be further explored.
- Encourage other speaking Portuguese countries to be part of the oversight group and to be motivated to take place as supervisor of the project.
- 2021 the 4<sup>th</sup> Congress will be held in



Cape Verde



# thanks

- **Institutions involved/support this project**

- Instituto Nacional de Saúde Doutor Ricardo Jorge, I.P. (INSA ), Lisbon, Portugal
- Sociedade Brasileira Análises Clínicas (SBAC), Brazil
- Instituto Nacional de Saúde (INS), Mozambique
- Laboratório de Referência da Tuberculose, S. Tome and Príncipe
- Instituto Nacional de Saúde Pública, Cape Verde
- ECAT Foundation, Netherlands
  
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- Fundação Millenium, Portugal (congress financial support)

