



GLOBAL SOUTH
AI4PEP NETWORK
SUD GLOBAL
RÉSEAU AI4PEP



IDRC · CRDI

International Development Research Centre
Centre de recherches pour le développement international

Canada

AI4TB

Applications of AI for early diagnosis of tuberculosis and prediction of drug resistant Mycobacterium tuberculosis strains.

Kick-Off Meeting: 03/10/2023

Tayalati Yahya

Associate Professor Mohammed V University in Rabat
Affiliate Professor Mohammed VI Polytechnic University



OUTLINE

1. Introduction
2. Team
3. Progress
4. Project launch plan
5. Website and social media
6. Expected activities

INTRODUCTION

TUBERCULOSIS A MAJOR HEALTH ISSUE

- Tuberculosis (TB) is one of the leading causes of death worldwide and the deadliest infectious disease, with 1.4 million deaths annually and over 10 million infections (WHO, 2021),
- TB is a major public health issue around the world and in Africa,
- Approximately 30000 new cases per year in Morocco, 38000 in Burkina Faso, 208000 in South Africa and 324 000 in the Democratic Republic of Congo.

AI4TB

AI4TB

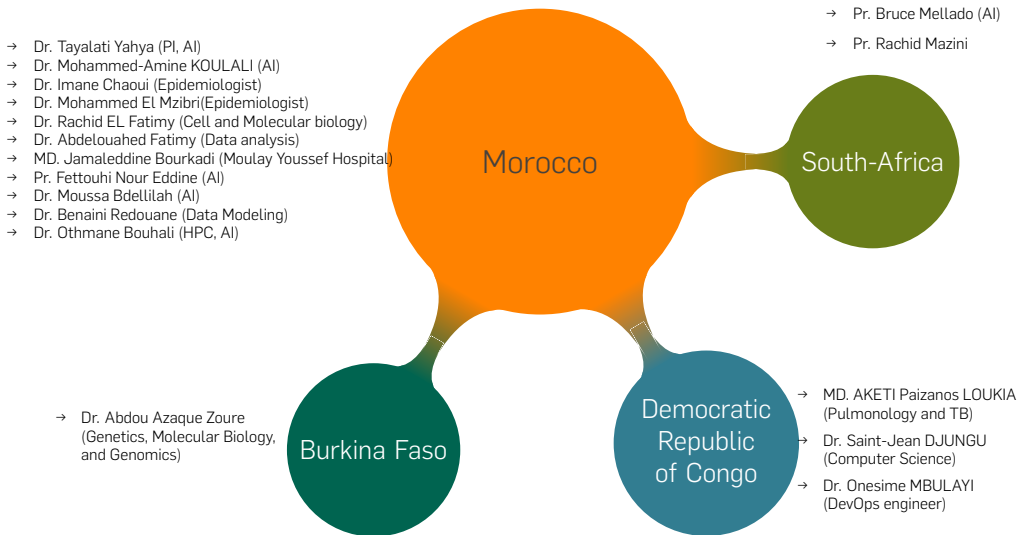
Applications of AI for early diagnosis of tuberculosis and prediction of drug resistant *Mycobacterium tuberculosis* strains.

Objectives:

- Explore the potential of machine learning algorithms in identifying patterns and predicting TB outcomes using patient data.
- Use machine learning algorithms to early diagnosis of TB to differentiate latent TB from a TB disease.
- Develop new AI-based approaches for TB detection and treatment guidance in resource-limited settings.
- Assess the effectiveness of these new approaches in real-world contexts.
- Establish a real-time monitoring system for TB spread in multiple countries using AI tool.

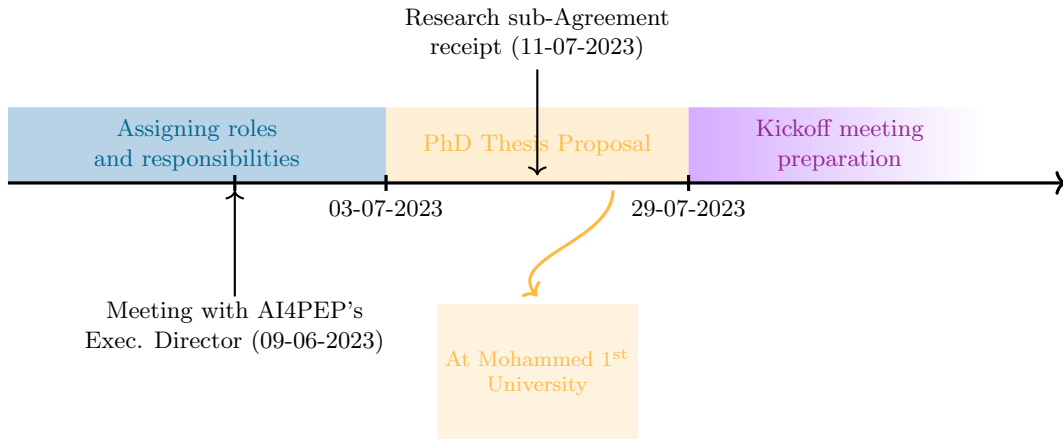
TEAM

TEAM



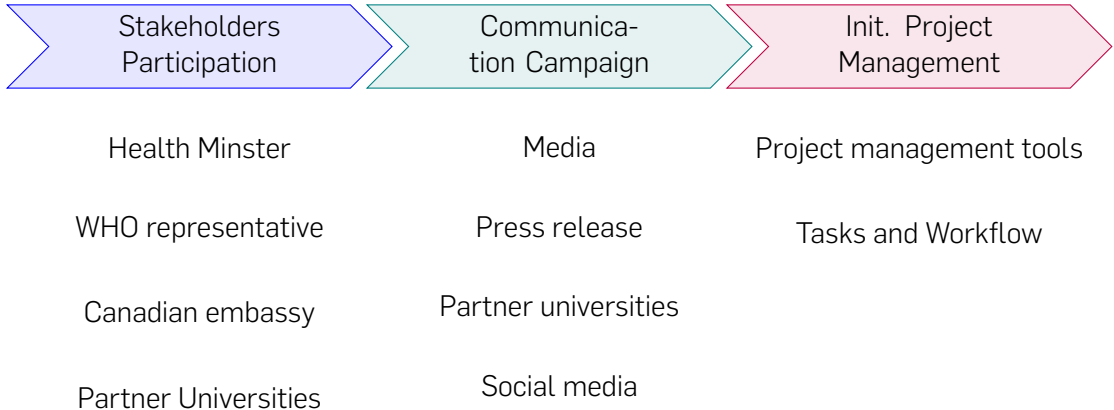
PROGRESS

PROGRESS



PROJECT LAUNCH PLAN

PROJECT LAUNCH PLAN



WEBSITE AND SOCIAL MEDIA

PROJECT ACCOUNTS

 <https://twitter.com/AI4TB>

 <https://sites.google.com/ump.ac.ma/ai4tb/teams>

EXPECTED ACTIVITIES

EXPECTED ACTIVITIES

- Surevy on AI TB: - AI for TB detection
 - AI for TB propagation modeling
 - Meta Survey : AI TB
 - Present status of TB management (AI4TB Member Countries)
- dataset
- Identify and establish partnerships with healthcare facilities in each participating country.

Q&A

