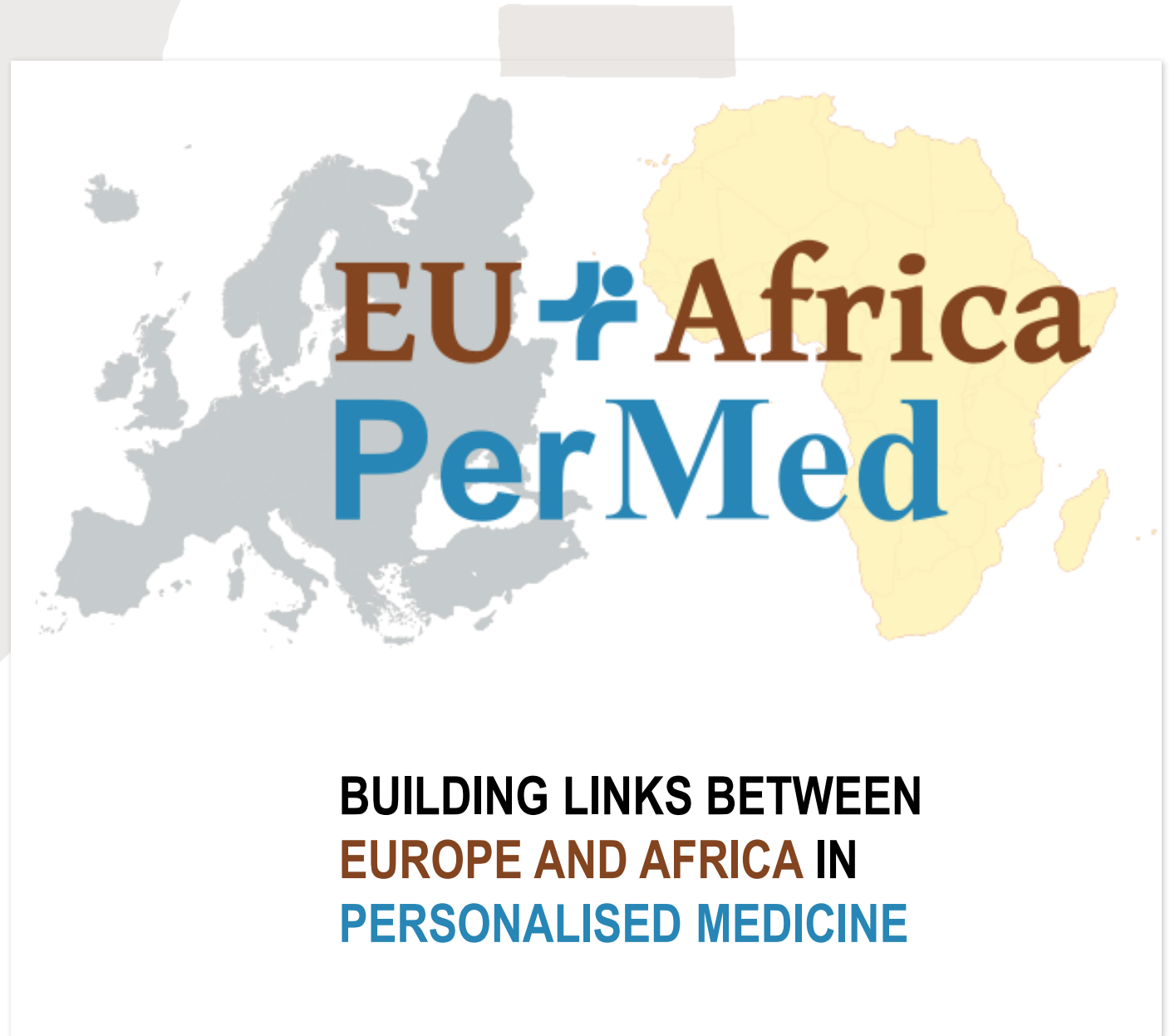


# Session: Findings from the Personalised Medicine gaps and needs analysis of the African regions

## Introduction

**Monika Frenzel (ANR)**  
EU-Africa PerMed Project

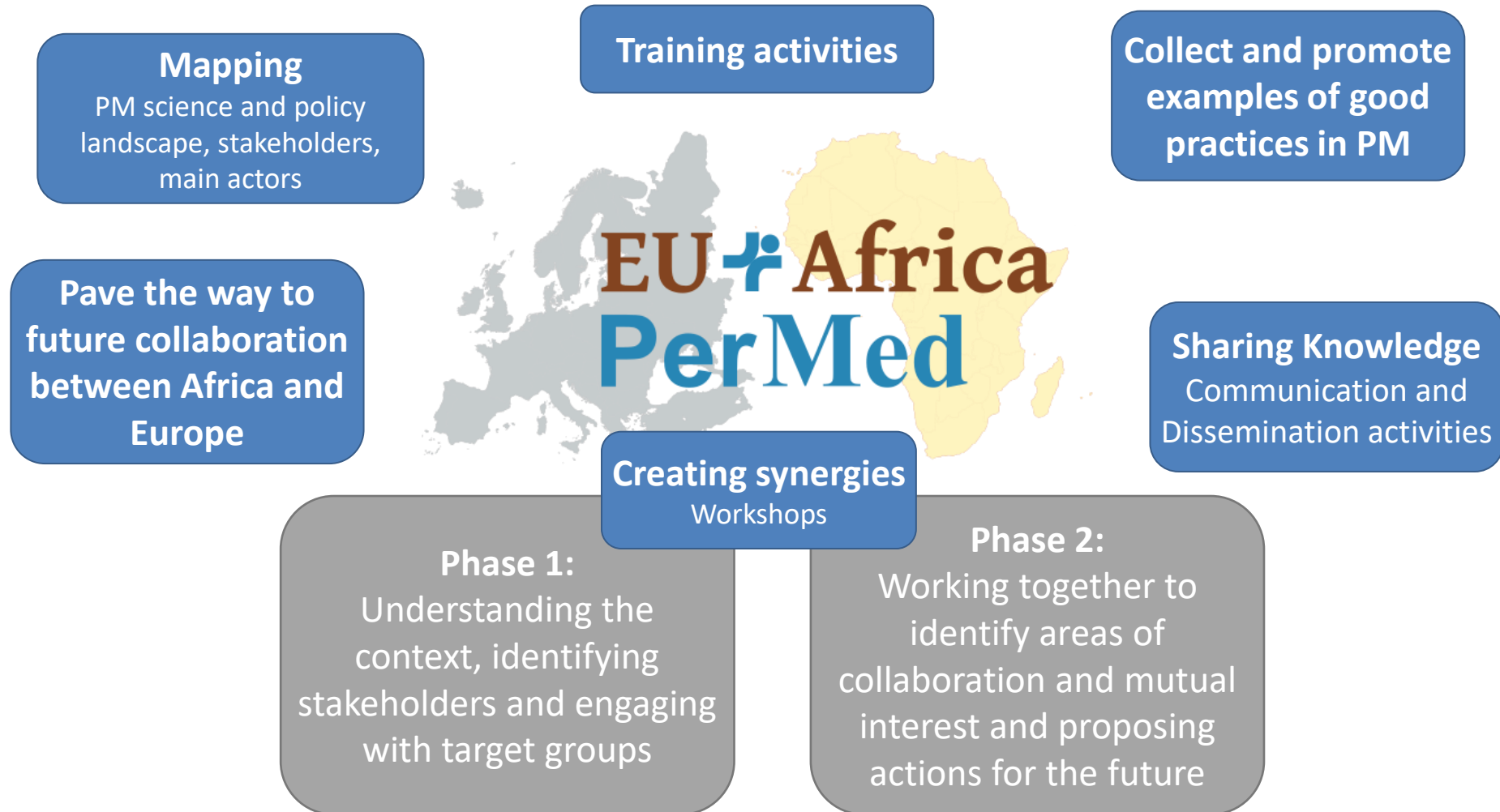


EU-Africa PerMed has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 964333

# EU-Africa PerMed objectives

- Objective 1: Identify, contact and engage with relevant health-related organisations
- Objective 2: **Explore and analyse the potential for and advantages of collaboration in PM between Africa and Europe; identify areas of mutual interest and added value for both regions; build sustainable links between both regions; integrate the African continent in the global PM agenda**
- Objective 3: Integration of organisations from African Union (AU) countries in the ICPeMed consortium, and in ERA PerMed.
- Objective 4: Seek synergies and align with activities of ongoing EU-Africa research programmes and other by-regional policy actions
- Objective 5: Capacity building (trainings)
- Objective 6: **Raise awareness for Personalised Medicine and the benefits of a closer inter- and intra-regional collaboration, for Personalised Medicine implementation**

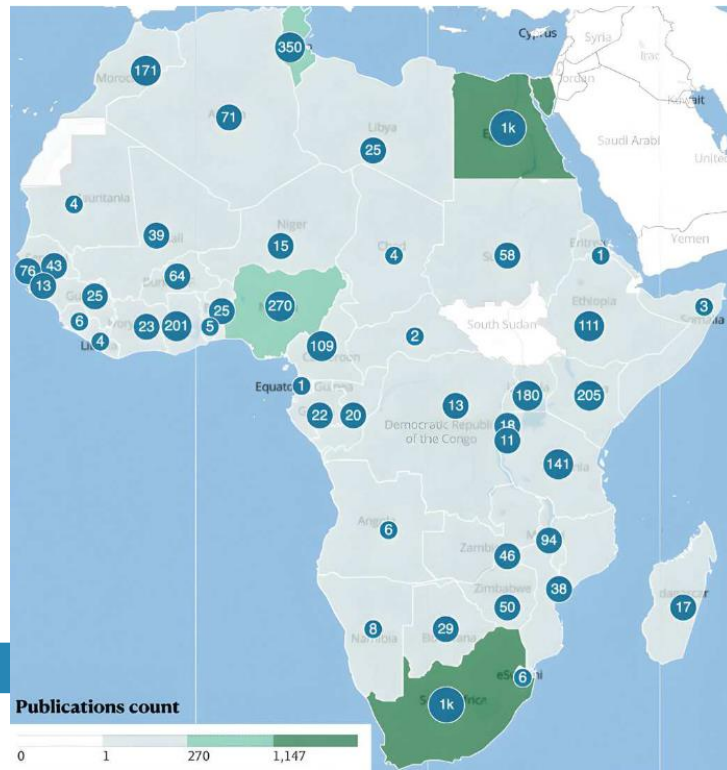
# EU-Africa PerMed activities



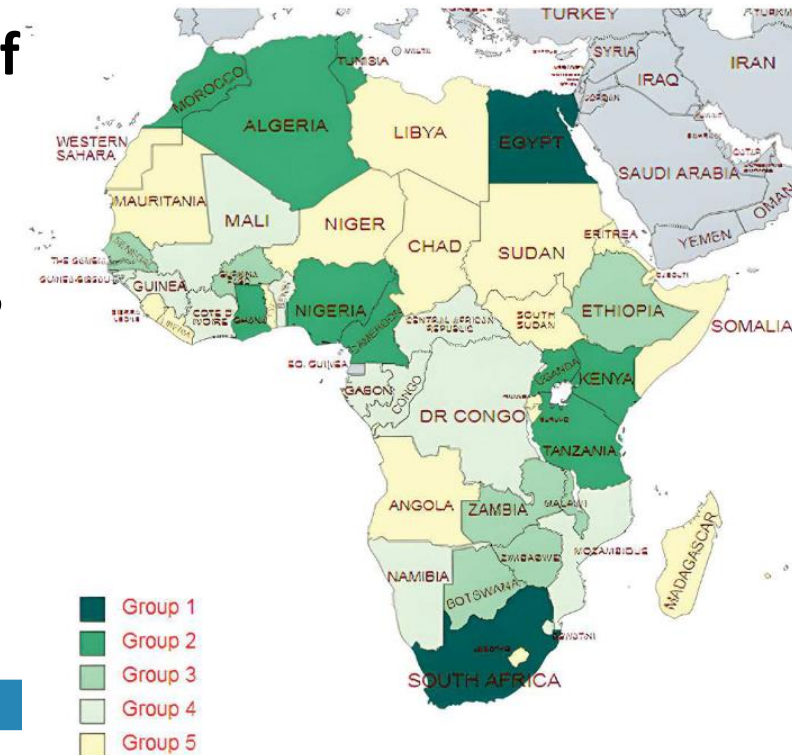
# Mapping the landscape in Africa

- **D2.1. Report:** [\*Mapping the scientific and policy landscape of PM in Africa\*](#)
- **D2.2. Report:** [\*The EU-AFRICA PerMed stakeholder mapping report\*](#)
- **D2.4. Policy Brief:** [\*Opportunities to Advance Personalised Medicine in Africa\*](#)

## Publications

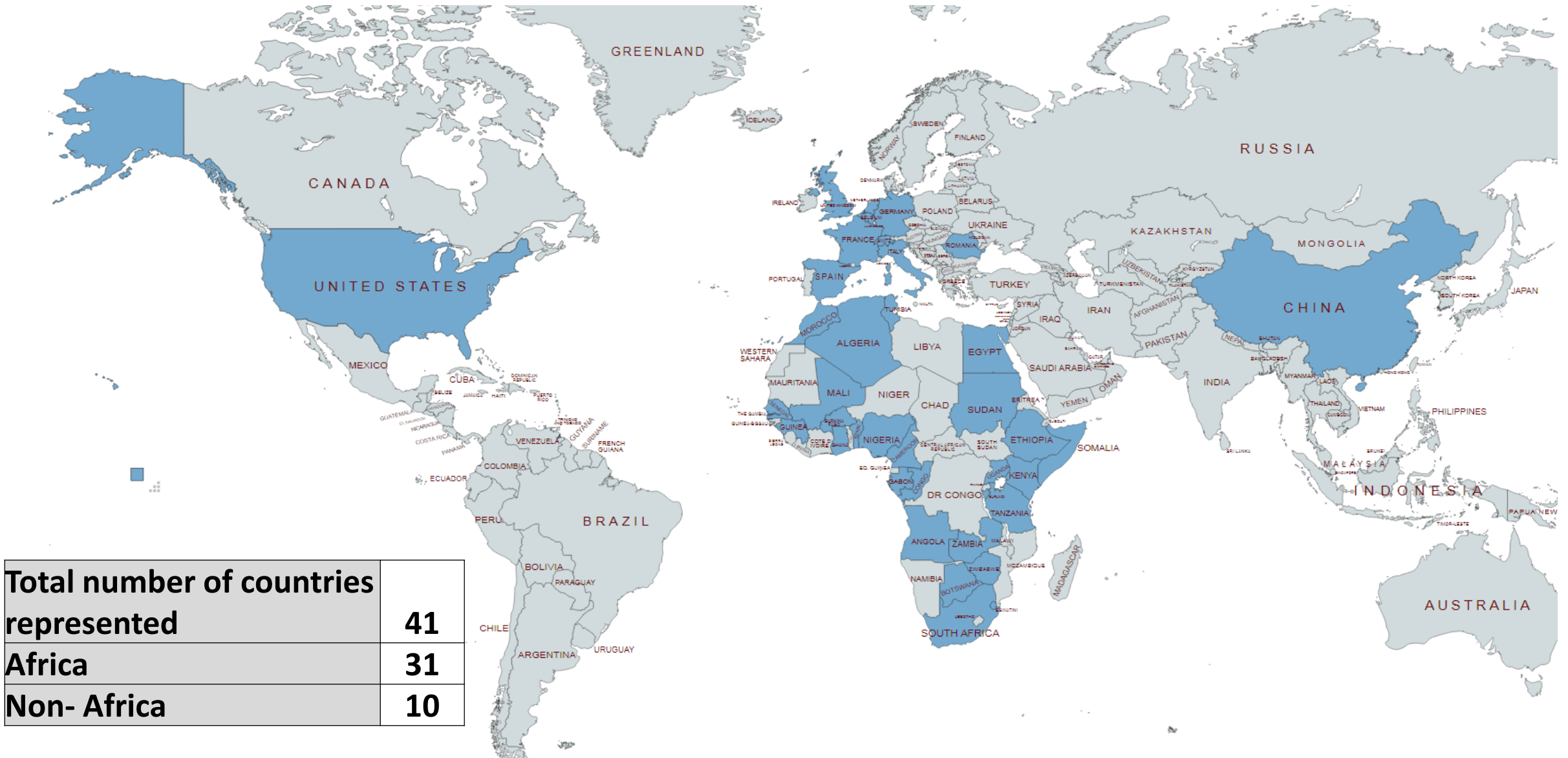


## Different Level of Adaption and implementation PM/Genomics capacities



# EU-AFRICA PERMed 1<sup>ST</sup> STAKEHOLDER WORKSHOP

## PARTICIPANTS – FEBRUARY 2022 (VIRTUAL)



# Opportunities, Needs and Interest

## **Opportunities that Africa can explore to strengthen the development and implementation of PM**

- Investing and building on current research efforts in PM
- Generating and Utilising genomic data on African Population
- Establishing collaborations through the available platforms to strengthen PM implementation at the Continental level
- Developing skills locally and tapping into the diaspora-trained and skilled human resources to enhance PM
- Establishing and implementing the policy and ethics frameworks
- Citizen education

## **Policy recommendations**

- Support research, data generation, mining, and translation into clinical care
- Skills and infrastructure development
- Ethical and regulatory framework development, strengthening, and harmonisation
- Awareness creation

## **Medical fields**

- Cancer
- Cardiovascular disease
- Diabetes
- Infectious diseases
- Rare genetic diseases
- Immune disease
- Neurological diseases
- Mental health disorders

## **PM application**

- Targeted treatment strategies
- Improved precise diagnostics
- Targeted prevention
- Clinical decision support
- Ethical, legal social frameworks
- Disease risk analysis



# Regional Workshops in Africa

- East Africa – July 2022, organised by NACOSTI in Kenya
- Southern Africa – 5 and 6 December 2022, sponsored by the SAMRC and the Department of Science and Innovation
- North Africa, focus on Algeria, Morocco and Tunisia – 9 January 2023, supported by INSERM
- West Africa and Central Africa – 25 January 2023, co-organised by IRESSEF and the National Academy for Sciences and Techniques of Senegal (ANSTS) and the African Conference of Deans of French-Speaking Faculties of Medicine (CADMEF)

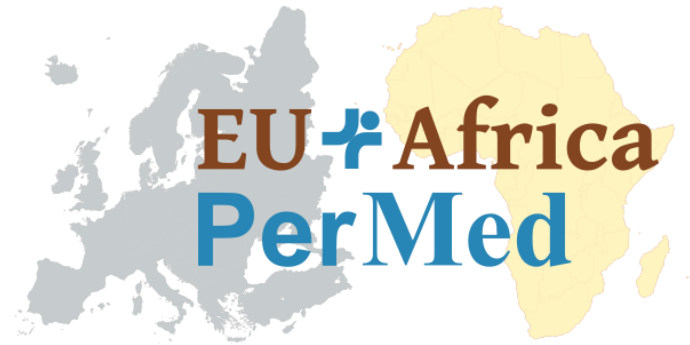
## Objectives

1. Review the landscape of PM
2. Identify and prioritise areas of interest
3. Identify gaps and needs for developing identified areas of interest
4. Reflect on consortium models for developing PM in the region (governance, funding, partnerships, training program, etc.)
5. Identify challenges and opportunities for collaboration with Europe

# Presentations of the African regional meetings outcomes

- **East Africa**, Teresia Nyawira, National Commission for Science Technology and Innovation, EU-Africa PerMed project
- **Southern Africa**, Rizwana Mia, South African Medical Research Council, EU-Africa PerMed project
- **Northern Africa**
  - Focus on Tunisia, Morocco and Algeria; Habiba Bouhamed Chaabouni (Tunisia), Mostafa Elfahime (Morocco) and Bensaada Mustapha (Algeria)
  - Focus on Egypt, Amr Radwan, Egyptian Center for Innovation and Technology Development, EU-Africa PerMed project
- **Western and Central Africa**, Abdul Karim Sesay, Head of Genomics Strategic Core Platform (Gambia)





**THANK YOU VERY MUCH  
FOR YOUR ATTENTION**  
and we are looking forward to this session



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