

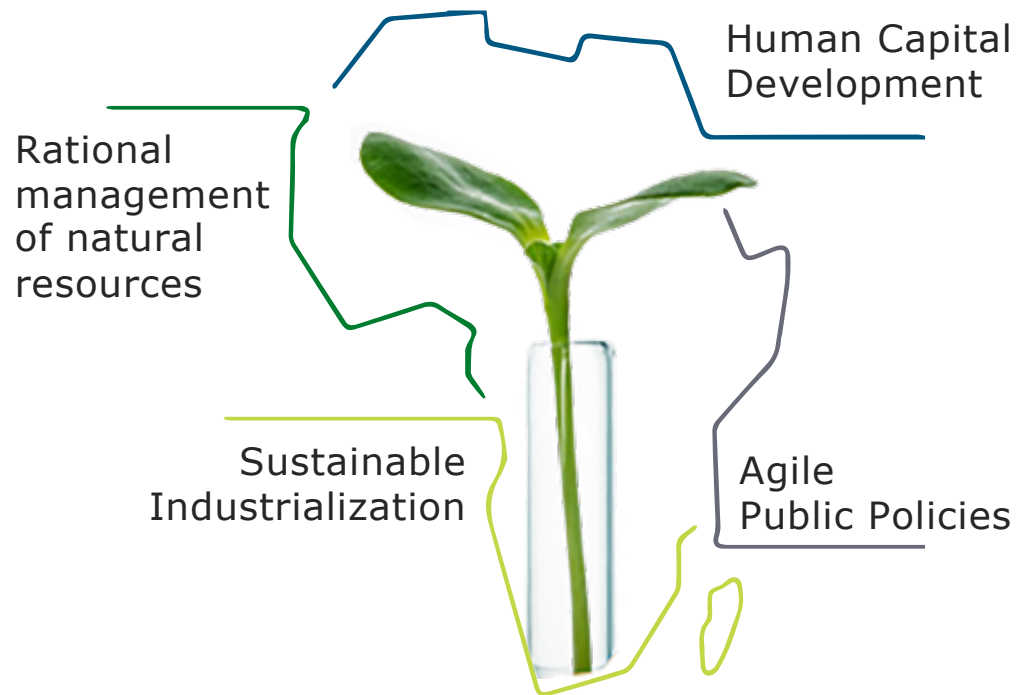
MOHAMMED VI
POLYTECHNIC
UNIVERSITY

Rafiq EL ALAMI
Head of Digital 4 Research & Digital Learning Labs @UM6P















RESEARCH AND INNOVATION IN FAVOR OF THE SUSTAINABLE DEVELOPEMENT OF AFRICA



AFRICAN CHALLENGES



RESEARCH INTERESTS

-  **Water, Agriculture & Environment**
-  **Natural Resources & Food Security**
-  Renewable Energies
-  Industrial & Chemical Engineering
-  **Biotechnology & Biomedical Engineering**
-  Architecture, Urban Planning & Land Use
-  Geology and Sustainable mining
-  **Agricultural Economics & Development**
-  Chemical and Bio-chemical / Green Process Engineering
-  Complex system engineering and Human Sciences
-  **Behavioral Sciences**
-  Computer & Communication Sciences
-  Medical Application Interfaces
-  Industrial Economy and emerging Africa

LIVING LABS : PLATEFORMES D'EXPÉRIMENTATION À ÉCHELLE RÉEL



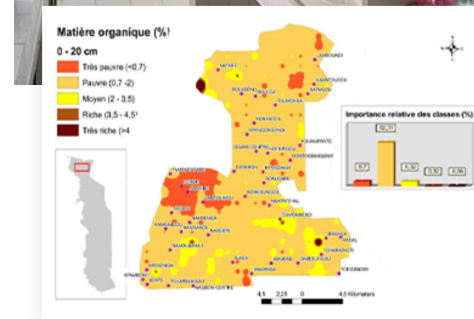
PUBLIC PRIVATE PARTNERSHIP FOR REAL IMPACT



PPP WITH REAL IMPACT

African Soil Fertility / Characterization Maps

- OCP Foundation and UM6P lead projet
- In collaboration with Local Ministries of Agriculture
- Soil Fertility Project in Nine Countries
- Local capacity building
 - Lab infrastructure
 - Soil sampling
 - Soil Lab analysis
 - Map production



LES CARTES DE FERTILITÉ



ANALYSE DES SOLS



ITRA

Link: <https://FertiTogo.Tg>

Couches thématiques

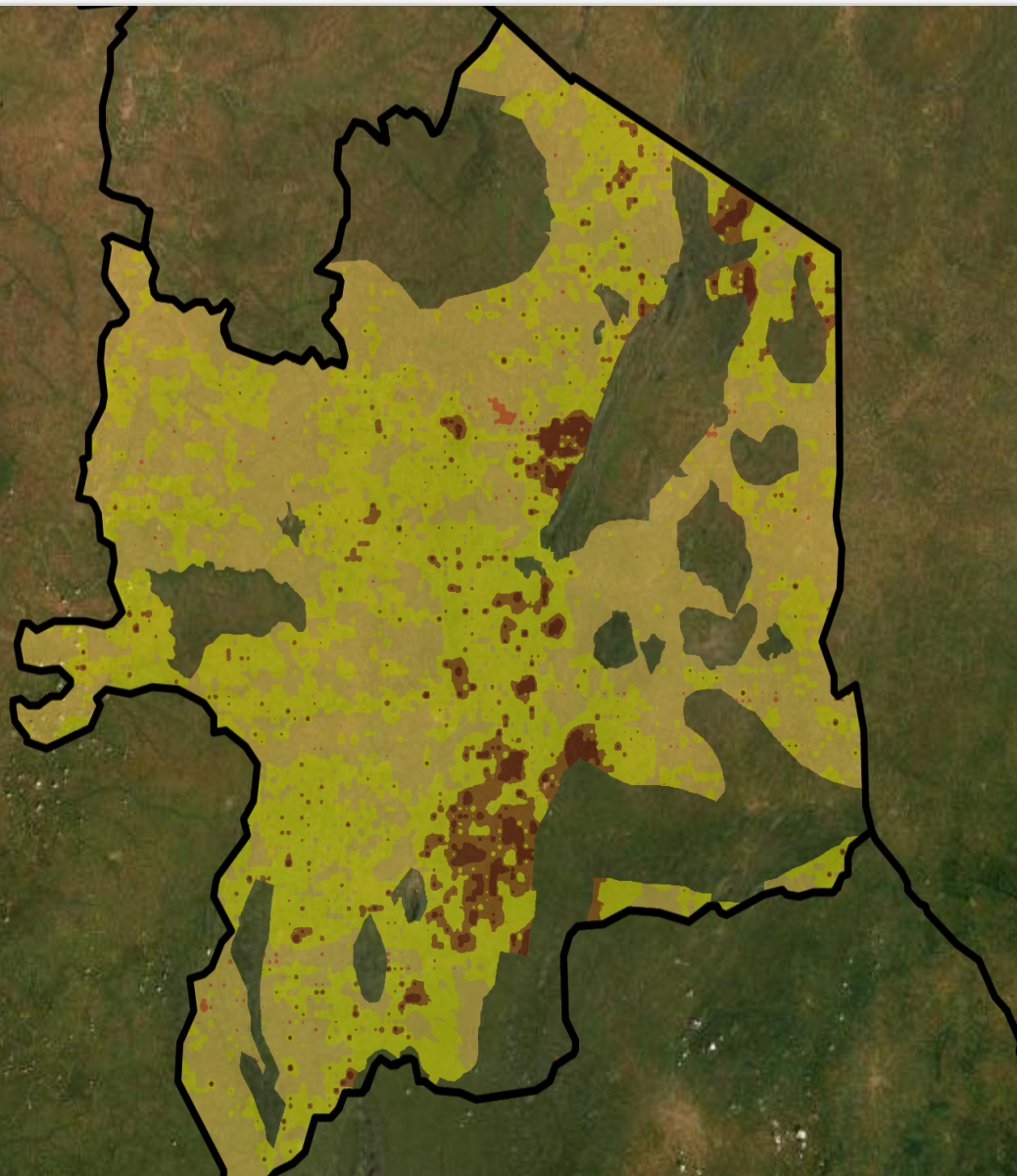
Exploration Conseiller

KARA 

Choisir la préfecture 






- Matière organique
- Phosphore(P2O5)
- Potassium(K2O)
- pH eau
- Vider la carte

- Préfectures
- Cantons
- Zones Exluses



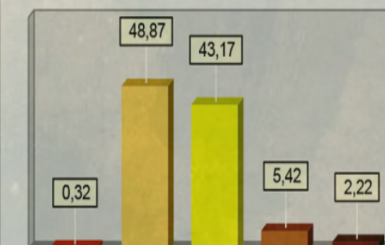
Légendes

Matière organique (%)

-  Très pauvre (< 0,7)
-  Pauvre (0,7 - 2)
-  Moyen (2 - 3,5)
-  Riche (3,5 - 4,5)
-  Très riche (> 4,5)

Statistiques

Importance relative des classes (%)





Résultats



Données de fertilité

Recommandation par unités fertilisantes

Données géographiques

Longitude 0.8484139080442787

Latitude 9.524677285398552

Région KARA

Préfecture BASSAR

Canton SANDA-KAGBANDA

Données de fertilité

Phosphore assimilable (mg/kg P_2O_5) 2.82

Potassium (mg/kg K_2O) 90.59

Matière organique(%) 3.50

pH Eau 5.95

Résultats



Données de fertilité

Recommandation par unités fertilisantes

Culture

Choisir la culture * :

Maïs



Choisir la culture précédente

Céréales



Rendement visé (t/ha)



4.95 t/ha

Obtenir les recommandations

Recommandation en unités fertilisantes par élément :

Azote (kg N/ha)

117

Phosphore (kg P/ha)

94

Potassium (kg K/ha)

188