

CAMEROON RURAL INTEGRATED DEVELOPMENT PROGRAMME (CRIDP-NGO)

Motto: Knowledge, Practice, Health and Development

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Title: Technical Concept Note: Tubah Green Hub Initiative

Focus: Circular Bio-Economy & Groundwater Restoration

Target Cycle: September 2026 Horizon Europe (Cluster 6)

1. Project Rationale

Rural communities in the Northwest Region of Cameroon face critical threats from soil degradation and water scarcity. The Tubah Green Hub is designed as a scalable model for climate-smart agriculture, integrating renewable energy with circular resource management to ensure food security.

2. Technical Pillars

- **Solar-Powered Irrigation:** Implementation of IoT-monitored groundwater extraction to ensure year-round cultivation with zero carbon footprint.
- **Organic Composting:** Transforming agricultural waste into high-nutrient organic fertilizer to restore depleted soil health and eliminate chemical dependency.
- **Seed Multiplication:** Establishing a local hub for resilient, climate-adapted seed varieties to support smallholder farmers.

3. Partnership Framework

CRIDP seeks collaboration with EU academic and research institutions (e.g., Mendel University) to provide:

- **Informatics:** Remote sensing and data dashboard design for water table monitoring.
- **Economics:** Circular business modeling and ESG (Environmental, Social, and Governance) impact metrics.
- **Governance:** Socio-economic studies on the impact of sustainable water management in rural settings.

4. Implementation Capacity

CRIDP provides the physical infrastructure, local land transport logistics, and community governance required to move research from the laboratory to the field.