

AGRO REUSE OF  
COMPOSTED HUMAN FAECAL  
MATERIALS FOR PRODUCTIVE  
SANITATION SYSTEMS

by

PATRICK A. OGWO

DEPT. OF ENVIRONMENTAL RESOURCE MAGT  
ABIA STATE UNIVERSITY, UTURU

# Rationale For Reuse

- **Human faecal materials originate from the soil**
- **Reuse closes the material flow cycle**
- **Reuse Recycles Nutrient (hitherto seen as nuisance to flush away) to back to Agriculture**

# Advantages of Reuse

- **Minimizes pollution of water bodies**
- **Improves soil fertility**
- **Improves agricultural productivity**
- **Contributes to food security**

# Background

- **The world is facing serious water crisis**
- **Decreasing fresh water quality & quantity**
- **Sanitation related diseases/infections**
- **Damaged environment**
- **Modern misconception that human excreta are wastes with no useful purpose –flushed out**

## Background cont'd

- **>90% of brown water /excreta discharged to the environment without treatment**
- **Modern misconception that human excreta are wastes with no useful purpose –flushed out**

## Background cont'd

- **MDG challenges of providing sustainable sanitary services to > 1.2billion people over the next 7 years**

# Methodology

- **Faecal cake collected, mixed with wood chips& lime**
- **Composted human faeces (CHF) used to amend 3 degraded soils in a 4by 3 factorial experiment designed in RCBD.**