

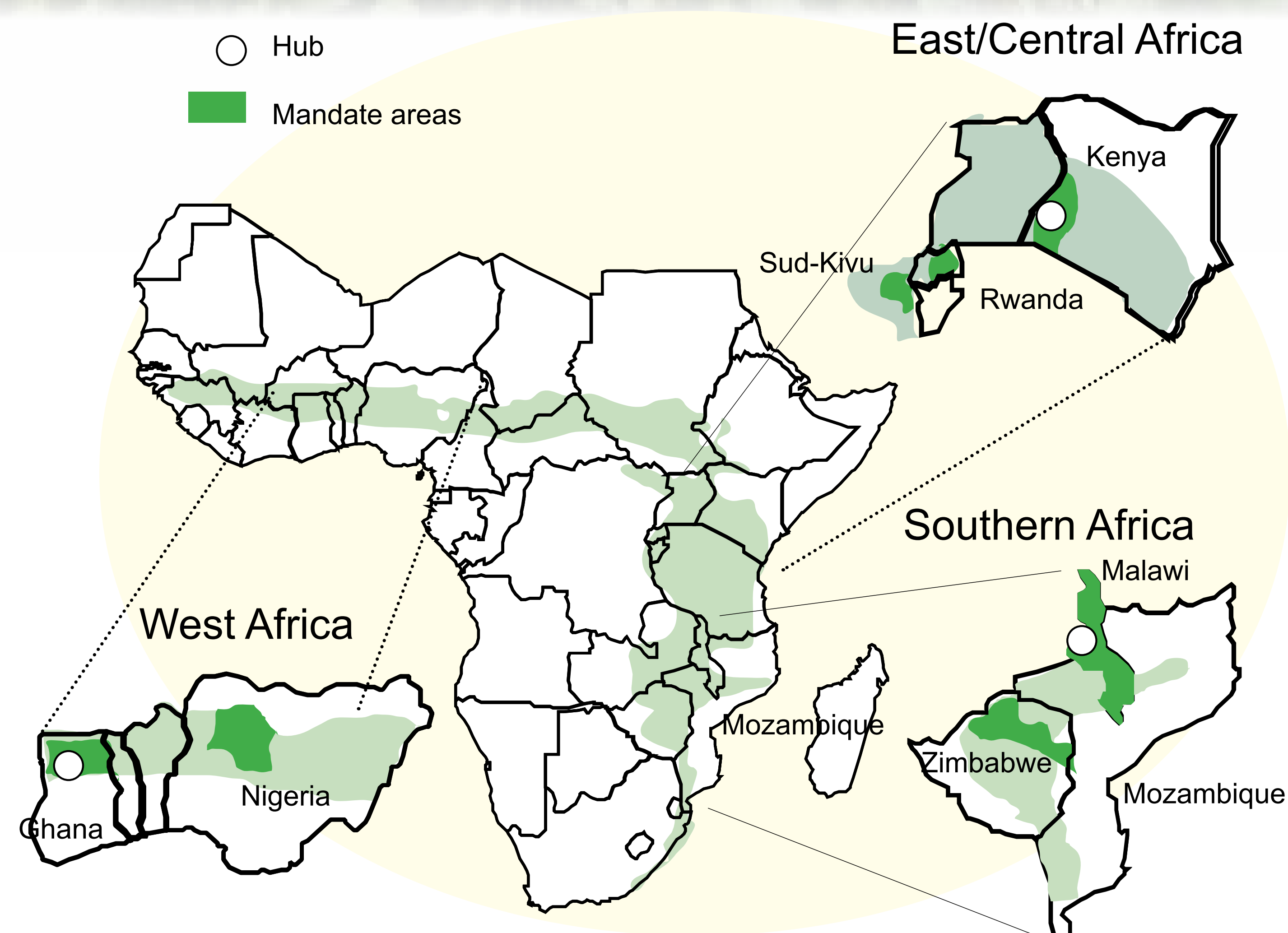
# N2Africa Project



**Mission:** N2Africa uses a partnership approach to deploy legume and inoculants technologies to triple the inputs of free atmospheric nitrogen by biological nitrogen fixation, thereby improving crop and livestock productivity, human nutrition and farm income for smallholder farmers of Africa, while enhancing soil health.

## Expected Outcomes

- 1 Diversification of N<sub>2</sub>-fixing legume species that are integrated into smallholder farming systems in sub-Saharan Africa;
- 2 Expansion in cultivation of grain and forage legumes, greater productivity in legume-based farming systems, and enhanced family incomes;
- 3 Selection of efficient rhizobial inoculant strains and improved grain legume varieties with enhanced BNF capacities adapted to various environmental stresses;
- 4 Establishment of a state-of-the-art laboratory and culture collection of elite strains of rhizobia for target legumes; and
- 5 Establishment of rhizobial inoculant production in countries of West, East and Southern Africa, through partnership with the private sector.



## Achievements (in first 3 years out of 4 years)

- 1 So far raised average grain legumes yields by 752 kg ha<sup>-1</sup> against a target of 954 kg ha<sup>-1</sup> in four grain legumes; that is Soybeans (1,044 kg ha<sup>-1</sup>), Common Beans (502 kg ha<sup>-1</sup>), Cowpea (1,004 kg ha<sup>-1</sup>), Groundnuts (456 kg ha<sup>-1</sup>)
- 2 So far increased average biological nitrogen fixation (BNF) by 43 kg ha<sup>-1</sup> against a target of 46 kg ha<sup>-1</sup>; that is Soybeans (68 kg ha<sup>-1</sup>), Common Beans (18 kg ha<sup>-1</sup>), Cowpea (60 kg ha<sup>-1</sup>), Groundnuts (24 kg ha<sup>-1</sup>)
- 3 So far increased average household annual crop value for the four key legumes by US \$ 166 against a target of US \$223; that is Soybeans (US \$ 240), Common Beans (US \$ 98), Cowpea (US \$ 281), Groundnuts (US \$ 45)
- 4 So far directly benefiting 236,417 households (1,891,336 individuals) against a target of 225,000 households (1,800,000 individuals) in eight countries in sub-Saharan Africa. That is Western Africa (78,000), Southern Africa (36,000), and East and Central Africa (122,417)
- 5 Supporting 18 MSc students and 7 PhD students filling identified knowledge gaps in 8 countries
- 6 So far trained 284 technical staff in essential microbiological skills and BNF technologies against a target of 90 for the four years
- 7 So far trained 1,881 training of trainers (from agricultural extension and NGOs) in legume and inoculants technologies against a target of 320 for the four years
- 8 So far trained 74,868 farmers in legume management and inoculants technologies against a target of 93,240 for past three years
- 9 So far trained 153 agro-dealers in accessing, managing and distributing information on inoculants use; against a target of 270 for the four year
- 10 So far organised 175 extension events against a target of 66; 70 media events against a target of 73; 53 nutrition events against a target of 32.
- 11 The participation of women is at 99% currently
- 12 So participated in 2 joint partnership events with AGRA and TL II against a target of 3 for the four years
- 13 Participating in key regional fora like Regional Universities Forum (RUFORUM), and African Green Revolution Forum
- 14 Produced a variety of training, research, development and dissemination materials for stakeholders in colleges, national extension agencies and national agricultural research agencies. Most of these materials are web-based and easily accessible