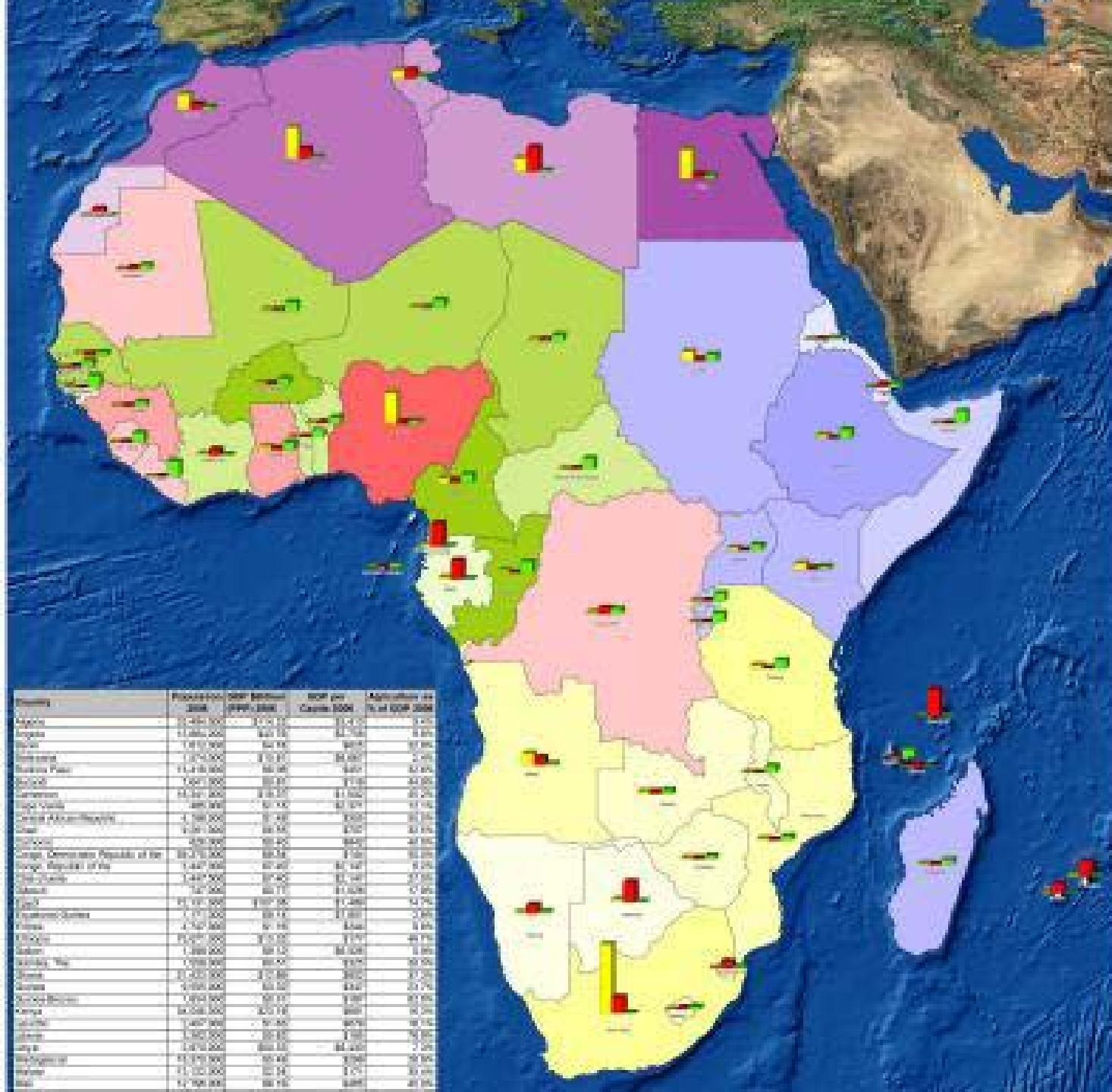


ECONOMIC INDICATORS FOR AFRICA









REALITIES CHALLENGES ACTIONS

FOR
SMALLHOLDER DAIRY
FARMERS IN AFRICA

ALASTAIR PATERSON

- PASSION FOR LIVESTOCK
- TRADITIONAL NEEDS
- ENTREPRENEURIAL SPIRIT (ES) I
- NATURAL ENVIRONMENT





REALITIES

- COMMUNAL GRAZING
- HEAVILY STOCKED (300%)
- MORTALITY = BIRTHS

RESULT

- NUTRITION
- PRODUCTION
- HUMAN REPRODUCTIVE RATE
- MILK DEMAND

CHALLENGES

- LAND TENURE
- BREEDS
- TRAINING



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SOUTH AFRICAN RESTITUTION AND REDISTRIBUTION

- 300 PEOPLE
- 30 FAMILIES
- 1000 Ha

```
graph TD; A[OFFTAKE] --- B[ ]; B --- C[7%]; B --- D[15%]; B --- E[25%];
```

OFFTAKE

7%

15%

25%

TRAINING

- TECHNICAL
- ENTREPRENEURIAL







