

Launch workshop of the Global Soil Partnership in Eastern-Southern Africa

BURUNDI/MINISTRY OF AGRICULTURE AND LIVESTOCK

Ir. Prosper DODIKO

DIRECTOR OF

SOIL FERTILIZATION DEPARTEMENT



BURUNDI

- Area : 27,834 KM²
- Density : 8.1 millions
- Provinces : 16
- Communes : 129
- Cultivable area : about 3 millions ha
- Cultivable area with a PH below 5
: 1 000 000 ha

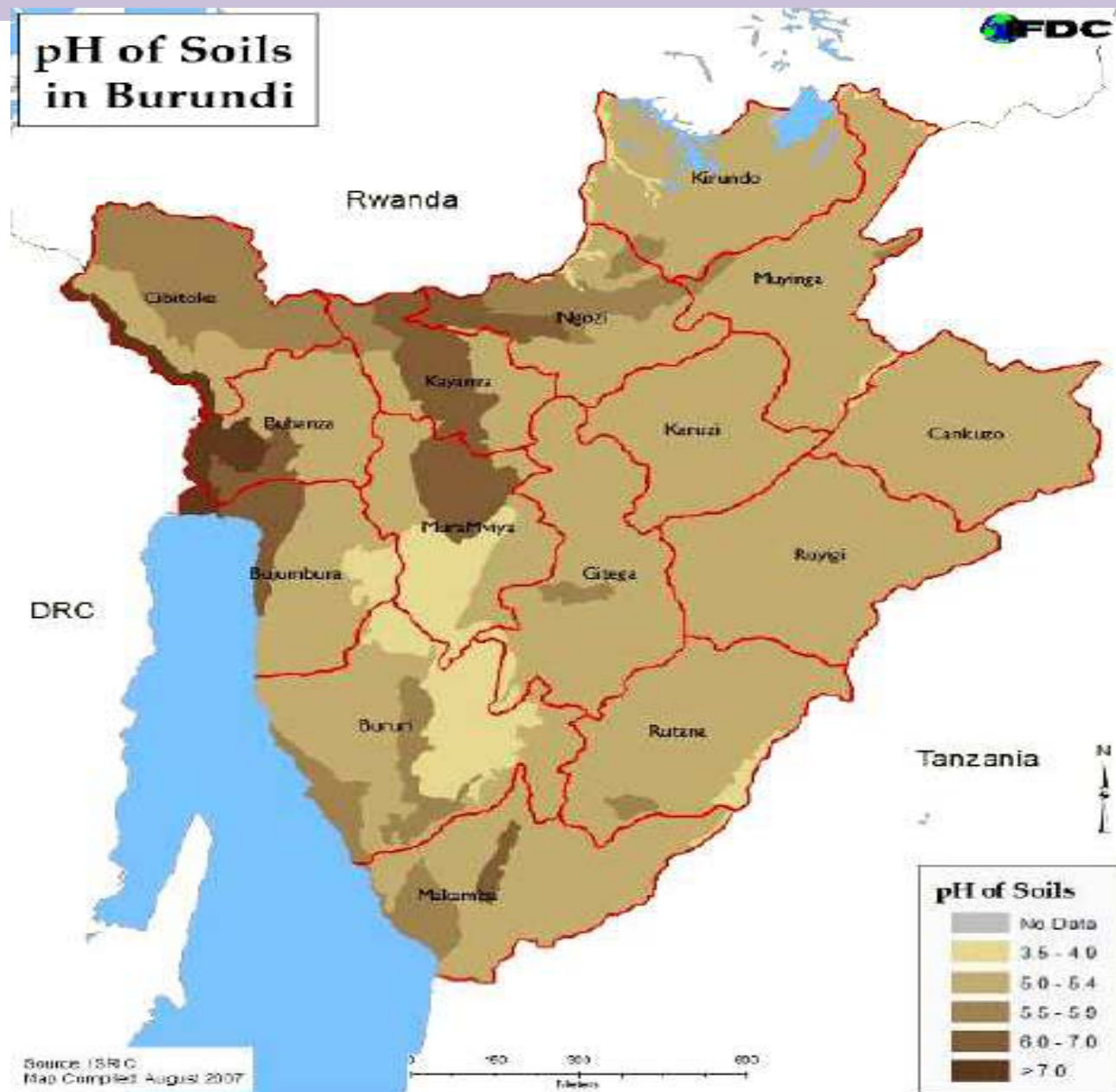
Statut of burundian soil

Majority of land lost their fertility;

Because:

- 1. Soil degradation (soil erosion, fire)**
- 2. Not enough knowledge and expertise in soil management**
- 3. Unsustainable practise**
- 4. Underusing fertilizers and organic matter**

BURUNDI



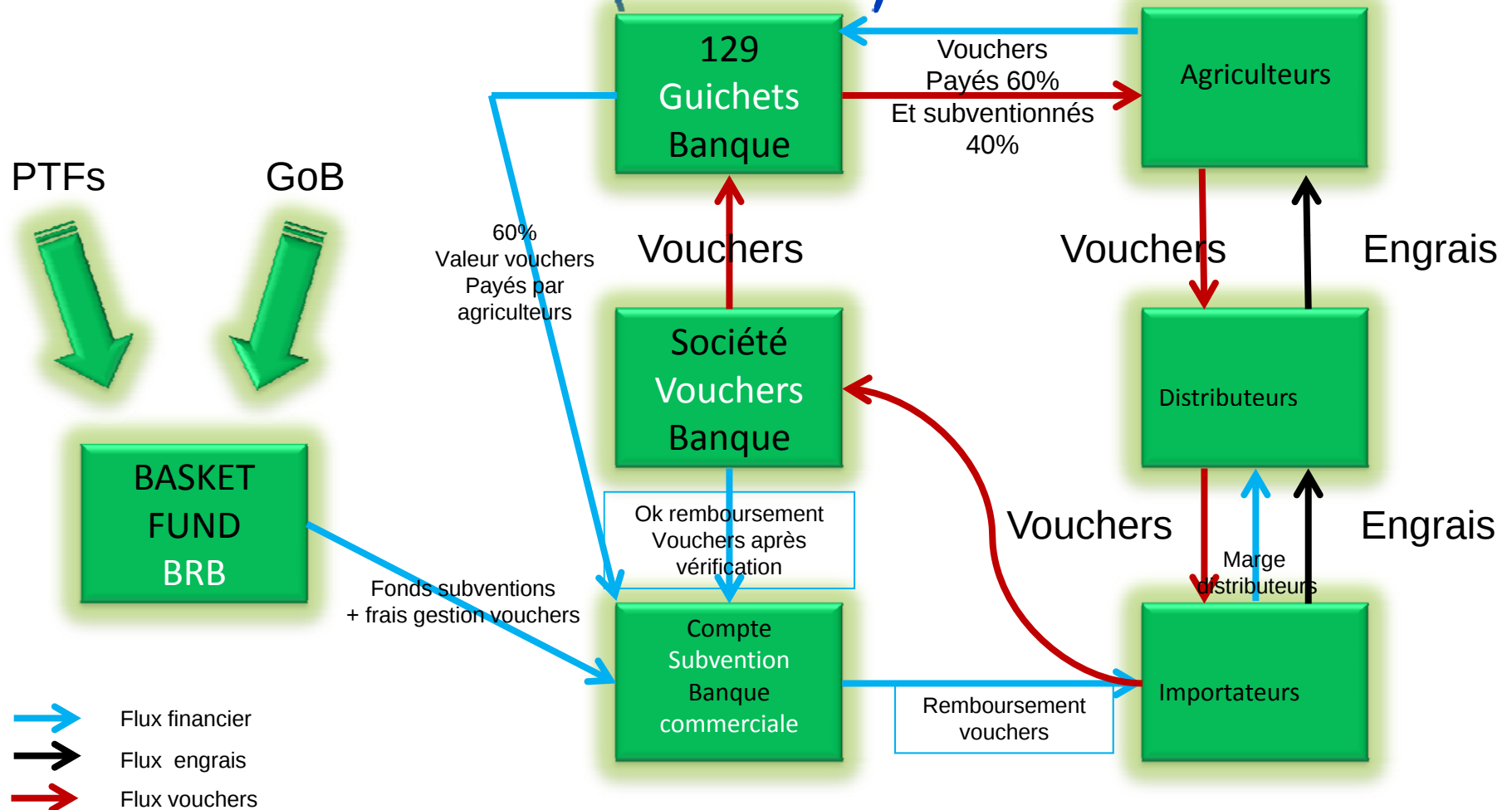
Ressources and feedstocks of Burundi

- For mineral fertilizers, there have been no studies yet of feasibility (phosphate of Matongo)
- **All mineral fertilizers used in Burundi are imported from outside through tenders**

Types of mineral fertilizers used in Burundi

- **DAP, 18-46-0** veron beans, corn, wheat and potatoes;...
- **Urea, 46%** on rice and coffee,...
- **KCl 60% P₂O₅** on the patatoes, palm,...
- **NPK** on tea, cotton and tobacco,...
- **TSP 45% P₂O₅** of sugar cane,...

To make available the fertilizers (PNSEB)



Agricultural liming

- **For agricultural liming, our country has the fertilizer raw materials in a good quantity and quality**
- **Unfortunately, these raw materials deposits are not yet well developed: investors not well advanced in this area**

Agricultural liming

- **Studies by the Institute of Agronomic Sciences of Burundi (ISABU) in search of carbonate rocks have revealed four genetic units:**

1.The dolomitic rocks of Moso

2.The dolomitic marbles of Bubanza and Gasenyi

3.The travertine of Imbo North + Busiga

4.The carbonatites of Matongo

A. The dolomitic rocks of Moso

1. Chemical composition

*** Cao : 26-30%**

*** MgO : 18-22%**

*** $\text{Fe}_2\text{O}_3 + \text{Al}_2\text{O}_3 + \text{SiO}_2$: 5%**

2. Volume of reserves

- **Murama : 300 000T**
- **Busiga : 250 000T**
- **Bukemba : 100 000T**
- **Kibonobono : 500 000T**
- **Gihofi : 60 000T**
- **Butare : 200 000T**
- **Kibizi : 15 000T**
- **Shaka-Makaronkwe : 50 000T**

B. The dolomitic marbles Bubanza and Gasenyi

1. Chemical composition :

*** Cao : 29%**

*** MgO : 21%**

2. Volume of Reserves :

*** Marble Gasenyi : 25 000T**

*** Marble Bubanza : Not evaluated**

C. The travertine of the North and Imbo Busiga

1. Chemical composition

*** Cao : 40%**

*** Mg : 3%**

2. Volume of reserves

1) Rugombo III	: 624 000T
2) Rugombo V	: 560 000T
3) Cibitoke VIII	: 230 000 T
4) Cibitoke IX	: 208 000T
5) Gasenyi	: 87 000 T
6) Busiga	: 60 000 T
7) Gihungwa	: <500 000T

C. The carbonatite Matongo

- 1. Chemical composition

* CaO : 45.19% average

* P₂O₅ : 1.66%

* Fe₂O₃ : 3.06%

2. Volume of reserves: 816 000T

Potential market of liming

- **The needs exist and the market is very attractive:**
 - * **1,000,000 ha with pH <5**
 - * **Recommended dose: 3T/ha every 3 years or 1T/ha/an full broadcast application**

Potential market of liming

- **Market Potential quantity: 1,000,000 ha**
- **1T/ha/year x 1,000,000ha = 1,000,000 T / year**

Potential market turnover:

1,000,000 t / year x 250,000 FBU/ T =

250 billion FBU / year

Or \$ 209 million / year

Or € 149.3 million / year

Production status

Our country, **Burundi**
needs to develop a
successful and
sustainable fertilizer
manufacturing industry



1. NEED:
1 000 000T/year

Problem



2. Production:
4 producers
3600T (2010/2011) only

**3. Volume of
reserve:**
850 tons millions



THANK YOU FOR
YOUR ATTENTION

Ir. Prosper DODIKO,
doprosper2002@yahoo.fr