



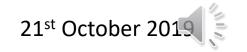






# Biomass utilization for rural development around the Biosphere Reserve of Yangambi (DRC)

Namibian Biomass Symposium



 MSc in bioscience engineering: forest and nature management

 Scientific collaborator at the RMCA (Belgium) and PhD student at the University of Gent (Belgium)



 Working in the DRC for the FORETS project (EU funded and implemented by CIFOR)

#### **Activities:**

Research in forest ecology and management, tree growth analysis, wood anatomy
Management of Yangambi's new wood biology laboratory



## 1. The current situation in the DRC





Only 1 % of rural households have access to electricity



What are the available sources of renewable energy?

- Hydroelectric potential technically exploitable
- → 774 000 GWh per year
- Solar energy potential is also significant (but cloud cover and regular rains)

Wind potential is quite mediocre with speeds < 5m/s</li>







## 2. The FORETS project











# Development, university training and scientific research for better management of natural resources (FORETS)

The specific objectives are the conservation and the sustainable use of the biodiversity and ecosystem services alongside local economic development in the area.



#### This project, which is funded by the European Union, is led by CIFOR















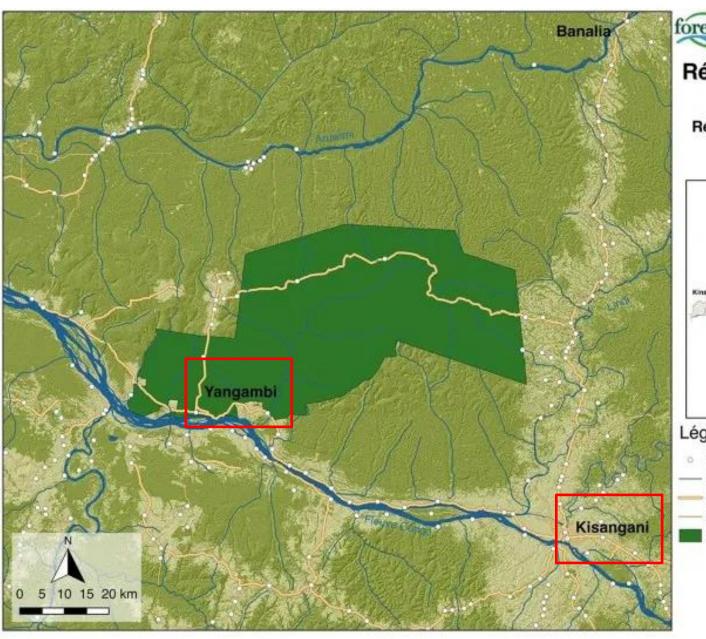




United Nations Educational, Scientific and Cultural Organization















#### Réserve de Biosphère de Yangambi

République Démocratique du Congo

Province de la Tshopo



#### Légende

- Village
- Cours d'eau
- Route principale
- Route secondaire
- Réserve de Biosphère de Yangambi







## Two main issues

High pressure on the Biosphere Reserve

No access to electricity

→ How can we address those issues?



 help local communities living near the reserve manage natural resources more effectively

Improve their livelihoods

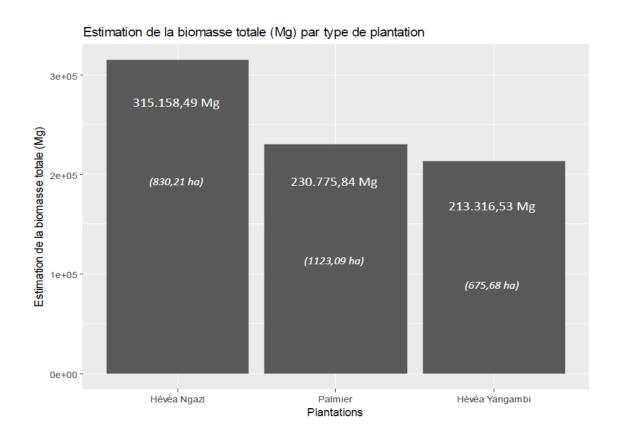
Provide an alternative source of fuelwood

Provide electricity





### Available biomass in old plantations



- In Yangambi, 245 t/ha
- Total area of 1 800 ha









## Next steps

Continue the tree nurseries

Plant 600 ha per year

 Identify the adapted technology to provide power and heat





