

Productive Sanitation for Food Security

How do we take Productive Sanitation to scale sustainably ?

Get Involved !

AUC@ the SEI-Side Event, AfricaSan, Dakar, Senegal

May, 25th, 2015



responsibility to implement
the African Water Vision 2025
that has Sanitation
component:

*Reduce by 95% by 2025, the
population without access to
sanitation*

Situation today ?

>548 millions of African people
still lack appropriate sanitation

(2014 African Water and Sanitation Report)





6. RECOMMENDATIONS

- First.) In order to provide the AU Assembly with the full picture of progress on the Sharm El-Sheikh Commitments, it is recommended that the countries listed below to fully participate in the next rounds of the reporting exercise: Comoros, Djibouti, Eritrea, Guinea-Bissau, Republic Arab Sahara.
- Second.) AUC in collaboration with AMCOW should reinvigorate implementation of recommendations and the follow-up actions. It is also desired that donor institutions and development partners should observe the 2014-2015 budget resources to practical implementation of activities to increase access to sanitation services to the people of Africa, as well as supporting the implementation of the recommendations.
- Third.) It is submitted for the consideration of the Assembly of the Heads of State and Government of the African Union, to designate the Republic of Burkina Faso to champion continent-wide action to close the loop on sanitation, and at the same time contribute to efforts to assure food security in Africa. Focus shall be placed on (i) instituting mechanisms to facilitate the use of waste as a resource in agriculture; (ii) upscaling existing productive sanitation programmes; and, (iii) raising the profile of the utility of productive sanitation to, on the one hand, turning the tide against the pollution of Africa's water and environmental resources, and on the other hand, sustainably and ecologically increasing agricultural production.

How do we take **Productive Sanitation** to scale sustainably ?



Our wastes could be powerful resources...



URINE
1750 ml.

954g

URINE
750 ml.

406g

GROWTH
3.25 Mon.

URINE
ZERO

63g

Our wastes could be powerful resources...



We move from here (wet /sludge)...



No other way to perform my business...



No other way to perform my business...



**It is happening at
small scale ...**



Closing Nutrients loop!



*Assainir
et
produire plus !*



PROJET
D'ASSAINISSEMENT
ECOLOGIQUE DE LA VILLE DE OUAGADOUGOU



Decentralized operation and management... and local job creation



Collecte des urines brutes dans un ménage



Chargement des bidons d'urines



Transport vers le site d'hygiénisation



Bidon d'urines brutes pour la collecte

Bidon de birg-koom (urines hygiénisées) engrais naturel

Decentralized and low cost treatment... local job creation



Site d'hygiénisation du secteur 27, dispositifs de stockage et d'hygiénisation des excréta



Fosses d'hygiénisation des fèces



Polytanks pour le stockage et l'hygiénisation des urines



Prototype de charrette pour la livraison

Market creation for human fertilizer...

Yield comparison testing



Birg_koom, 5g/l: 0,7 litre/souche



Urée 46%N: 3,2 g/souche



BIRG-ADOM (5g N/L)
0,7 litre/souche

URÉE (46%)
3,2 par souche

Market creation for human fertilizer...

Yield comparison testing





Market creation for human fertilizer...

Yield comparison testing



Market creation for human fertilizer...

Yield comparison testing



Market creation for human fertilizer...

Yield comparison testing





Market creation for human fertilizer...

Yield comparison testing





gtz



ATELIER DE REFLEXION SUR LES STRATEGIES DE PROMOTION ECOSAN AU BURKINA FASO



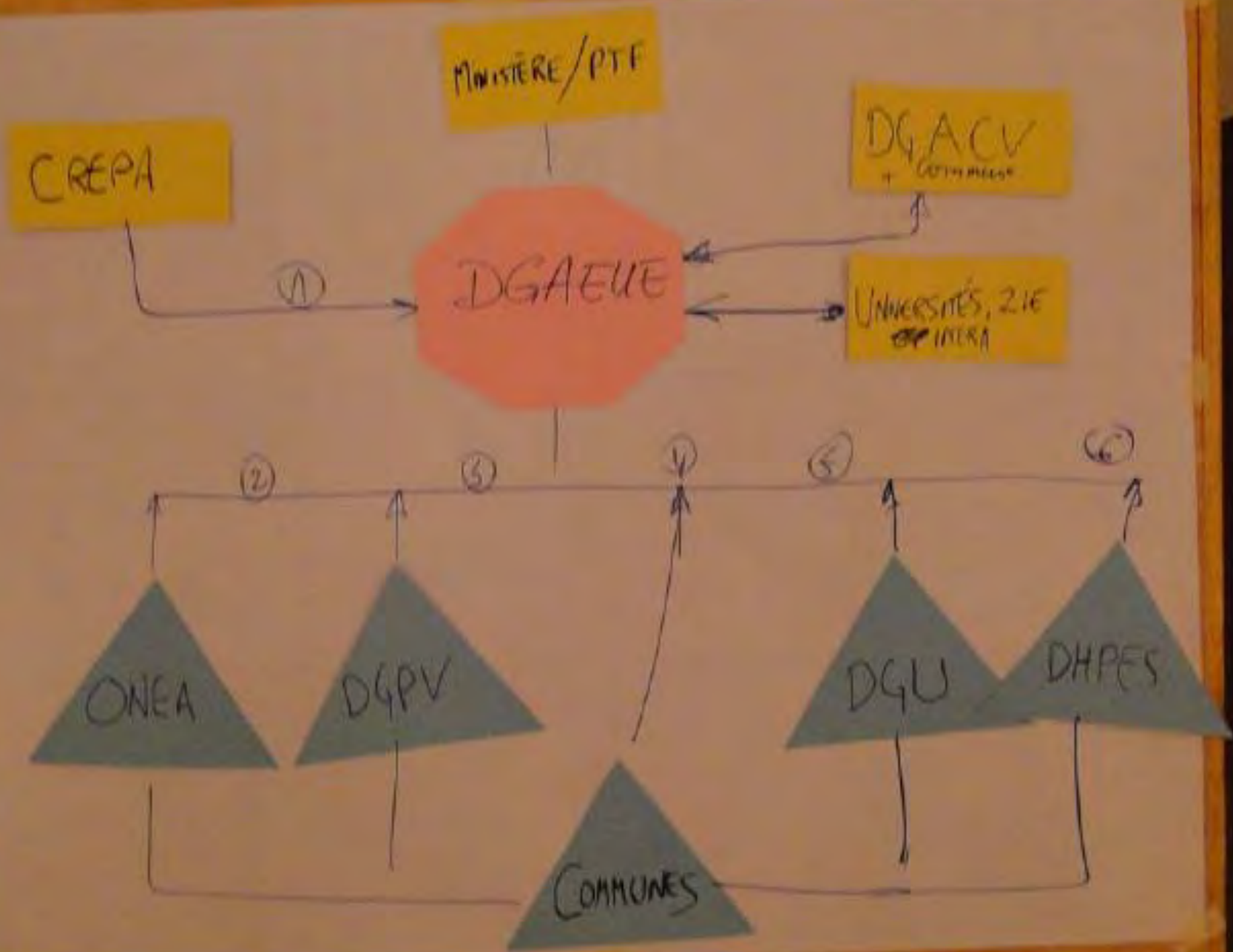


Figure 6: Résultats des travaux sur les arrangements institutionnels

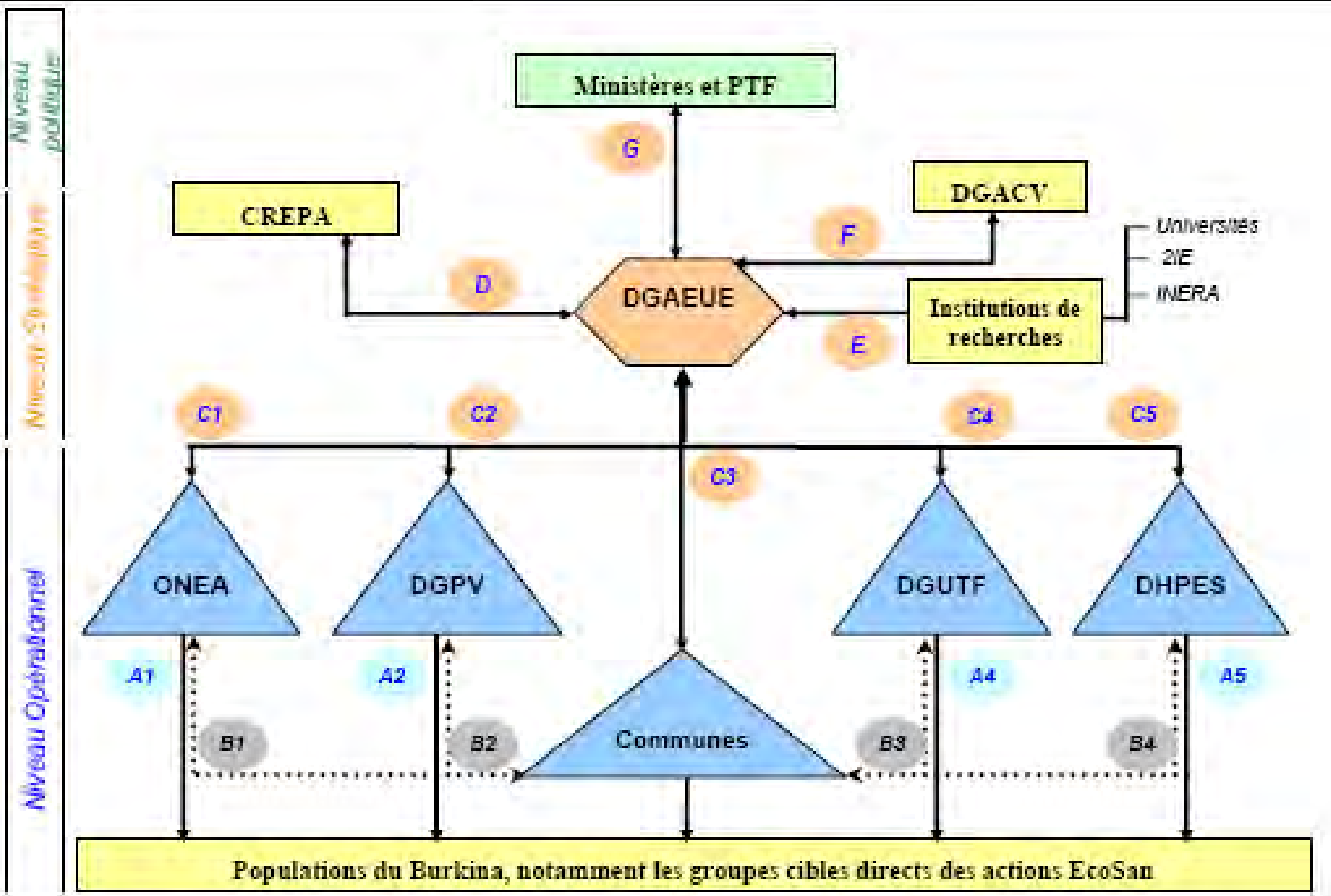


Figure 7: Montage institutionnel de mise en œuvre de l'Action Nationale EcoSan

**More advanced technologies
around the world...**

Advanced system in Holland



Large Scale Ecosan in China: *Erdos Eco-Town Project in Inner Mongolia*







Large scale urine and faeces collection systems in Sweden



Large scale urine and faeces collection systems in Sweden



Feaces becoming compost... ready for use

Good for soil consolidation



Hygienic after 6 months)



Large scale Urine Storage Systems in Sweden



Modernized Collection Systems in Germany



Modernized urine application systems in Sweden



**Why large scale intervention
is not happening yet?**

Driving Actions for scaling up...

Constraints

(missing actions)

Advocacy. Commun. & Cap. Dev

More Comprehensive researches

Inter-sectorial approaches

Policies formulation & promotion

Trigger political commitments and large scale actions...

“Pan-African Programme for high level Advocacy to promote Infrastructures Development for large scale implementation of Sustainable Sanitation for Food Security in Africa”

Infrastructures for Waste generation... *EcoSan cities in Africa*



Infrastructures for urine storage...



Infrastructures for urine application...



Infrastructures for agri-water management...



Infrastructures for solar energy use...



Infrastructures for Crops harvesting and processing ...



Infrastructures for Crops harvesting and processing ...



Infrastructures for Crops harvesting and processing ...



Infrastructures for Crops harvesting and processing ...



Infrastructures for Crops harvesting and processing ...



Infrastructure for crops harvesting and processing ...



Infrastructures for crops processing ...



Infrastructures for crops processing ...



Infrastructures for crops processing and transport ...



Interested partners:

SEI;

Norges Vel Sus. San—design

→ *climate smart agriculture Norad*

WaterAid

Other ???

Know more about the programme @ the Side Event

Organized by:

**The Gvt of Burkina Faso, AUC and
WaterAid**

Date:

Wednesday 27th May @ 9.00 to 10.30