

**« The Nubian Vault is like a family name.
It stays in the family and is attached to it.
The Nubian Vault means security
and employment for our children »**

Mrs Ekobié, leader of a women's group in Burkina Faso



A ROOF,
A SKILL,
A MARKET



**The Nubian Vault
Association**

**Better Building
in West Africa**

Empowering people
through sustainable and
affordable housing

The Nubian Vault in the NDC



Senegal



Sector: Energy

Sub-sector: Energy Efficiency

Subject: Production of thermal insulation material using Typha in Senegal and adoption of the Nubian Vault technique in rural housing and community infrastructures

Burkina



Sector: Housing and Urbanism

Priority: 9/33

Subject: Enhancement of local materials and promotion of housing without wood or sheet metal (the Nubian Vault) for climate change adaptation in rural and semi-urban areas of Burkina Faso



- Deforestation and demography
 - No more wood or straw
- Use of imported materials (iron sheets, steel, concrete)
 - Highly inappropriate (expensive, hot, polluting, etc.)
- Loss of local architectures and traditional know-how

Housing in Africa:

A major issue



Appropriate = Decent + Affordable + Sustainable





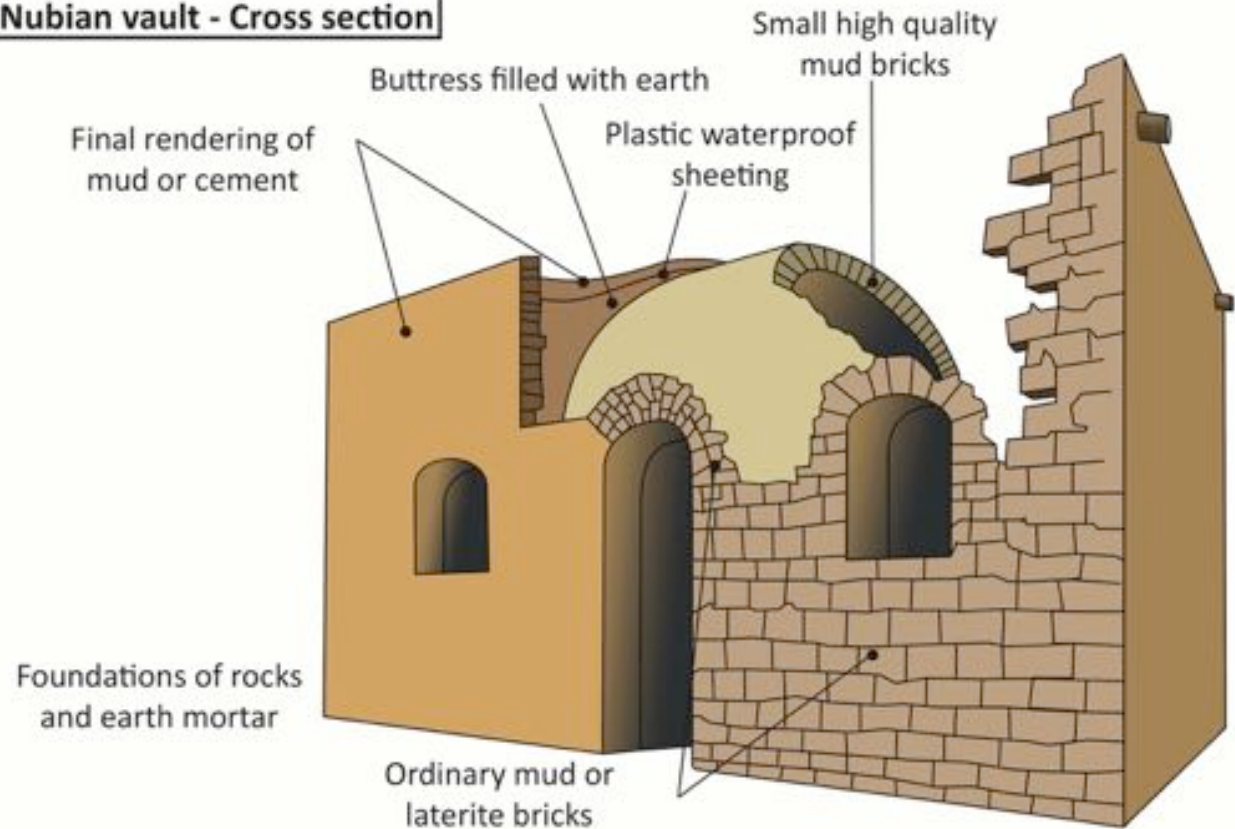
An age-old construction technique, low-tech, low-cost, low-carbon:

- Environmentally sustainable
- Long-lasting
- Affordable
- Comfortable
- Strengthening local economies

The Nubian Vault

Technical Concept

Nubian vault - Cross section



Local materials



Local know-how



Transmission of NV know-how



Real building sites



Rural building - Exterior



Rural building - Interior



Urban building - Exterior



Urban building - Interior



School – Exterior



School – Interior



Cultural center – Exterior



Cultural center – Interior





- To contribute to the diffusion of an appropriate construction technique...

- By using the market as the vector of a widespread dissemination for the largest number...

- And then, to withdraw from the autonomous territories

AVN program

A ROOF



+

A SKILL



+

A MARKET





To support the emergence of autonomous Nubian Vault markets for multiples uses:

- Private buildings in urban and rural areas
- Community and institutional buildings

A Roof

To kick-start the NV market through awareness campaigns





- To implement a technical and entrepreneurial dynamized vocational training

- To ensure support for construction project management

- To lead R&D activities and impact assessment to improve the NV technique

A Skill

To strengthen the NV building sector by reinforcing local know-how





- To develop housing microcredit products
- To implement housing subsidies to densify the market
- To support the institutional integration of the NV concept

A Market

To foster a supportive institutional context for the Nubian Vault





Multiples and cross-cutting Benefits

- Mitigation and adaptation to climate change
- Local economic development
- Green jobs creation: vocational training
- Green growth
- Improved quality of life
- Reduction of inequalities
- Rural development
- Education, health, energy, culture





An international recognition

In various fields :

Environment and sustainable development

Social entrepreneurship and economic development

Housing and construction





Growing and long-lasting Results

30% of NV market
annual growth rate

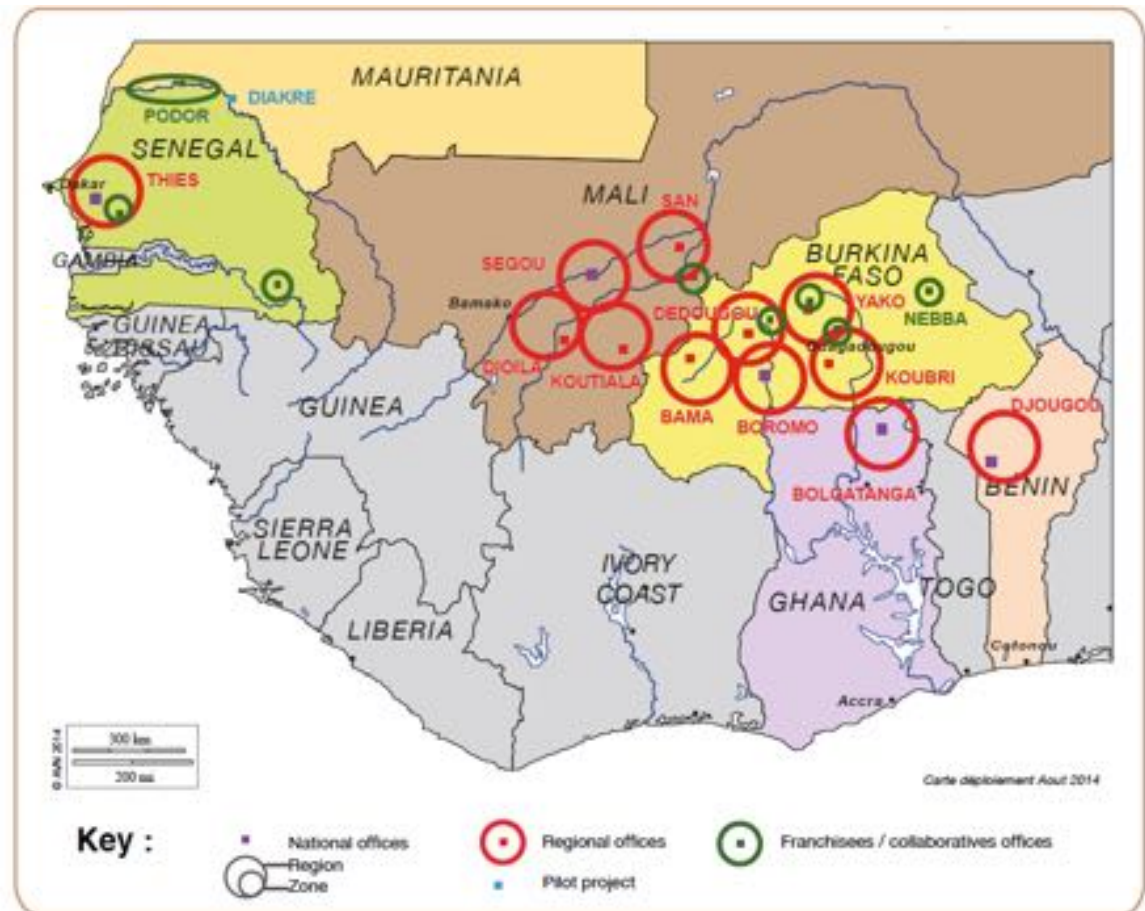
2000 NV buidings in
800 towns and
villages in 5 countries

24 000 beneficiaries

440 NV masons
trained and 400
apprentices in training

65,000 Teq CO₂
economized

2,4 millions euros of
local economies (only
structural work)





Projection (2025)

40% of NV market
annual growth rate

45 000 NV built in
15 000 towns and
villages in 12 countries

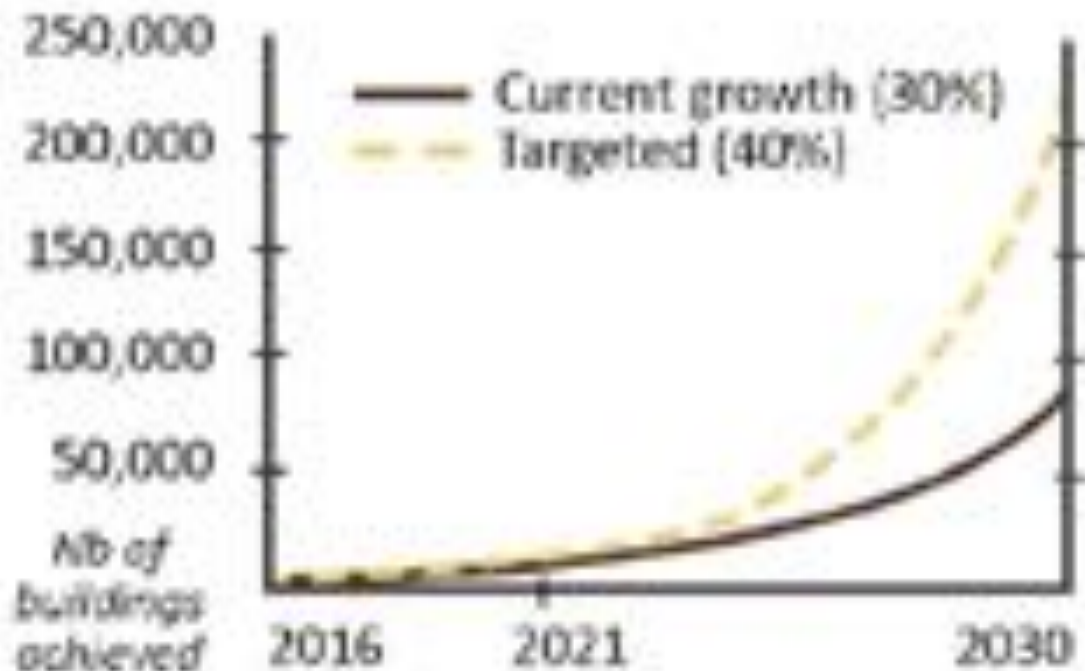
310 000 beneficiaries

3 800 NV masons
trained

90 000 Teq CO₂
economized

42 millions euros of
local economies
(structural work)

Growth projection





Integration of NV concept into the national policies :

- ⇒ Low-carbon housing and construction
- ⇒ Green jobs
- ⇒ Environment
- ⇒ Economic development
- ⇒ Education
- ⇒ Agriculture
- ⇒ Health

Partnerships and involvement in AVN program



Example of actions for Ministries of Environment

- Evolution of the legislative framework on **sustainable resource management** for construction materials
- Integration of appropriate constructive techniques within **technical standards and norms**
- **Sensitization and training cycle**
- Use the NV technique for the **construction needs**
- **Project proposals to multilateral funds**





THANK YOU !

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