



Diffusion of the Nubian Vault in the Sahel

Strategy, methodology and partner roles



In order to promote the large-scale deployment of its adapted housing programme in Sahelian Africa, AVN is directing its strategic approach to model the diffusion of the Nubian Vault (NV) concept through the transfer of its methodology to Operational Partners (OP), thus guaranteeing strong and growing impacts.

Accordingly, AVN operates at three levels:



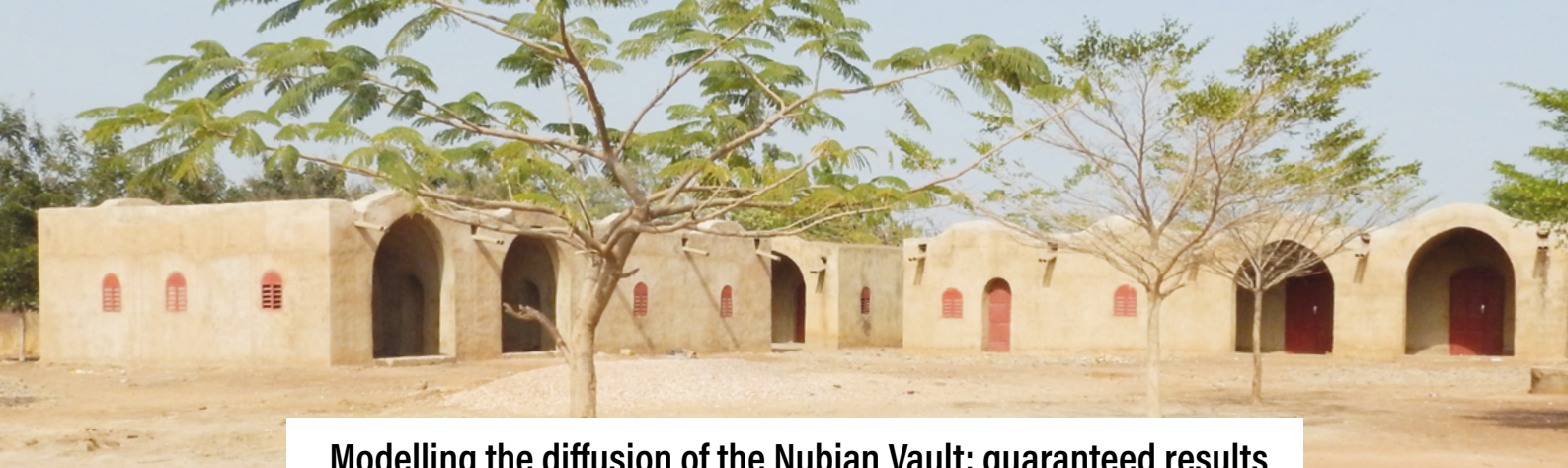
The mobilization, training, and accompaniment of Operational Partners who adopt AVN's methodology, thus duplicating the development of the Nubian Vault market in their zones of action



The organization of support functions essential to the implementation of this strategy: training, technical support, follow-up and evaluation, feedback, facilitation of a network of partners, advocacy, etc.



The continuing promotion and diffusion of the Nubian Vault concept as an operator in specific territories, so as to consolidate the deployment procedures and explore new technical and methodological approaches



Modelling the diffusion of the Nubian Vault: guaranteed results



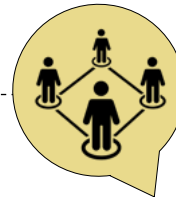
Two levels of intervention:
the Implementation Unit (IU) and
the Implementation Territory (IT)

Pages 4 to 7



**Coherent support and
accompanying functions**
set up by AVN

Page 8



**Involvement of different
stakeholders** (operational,
promotional, financial)

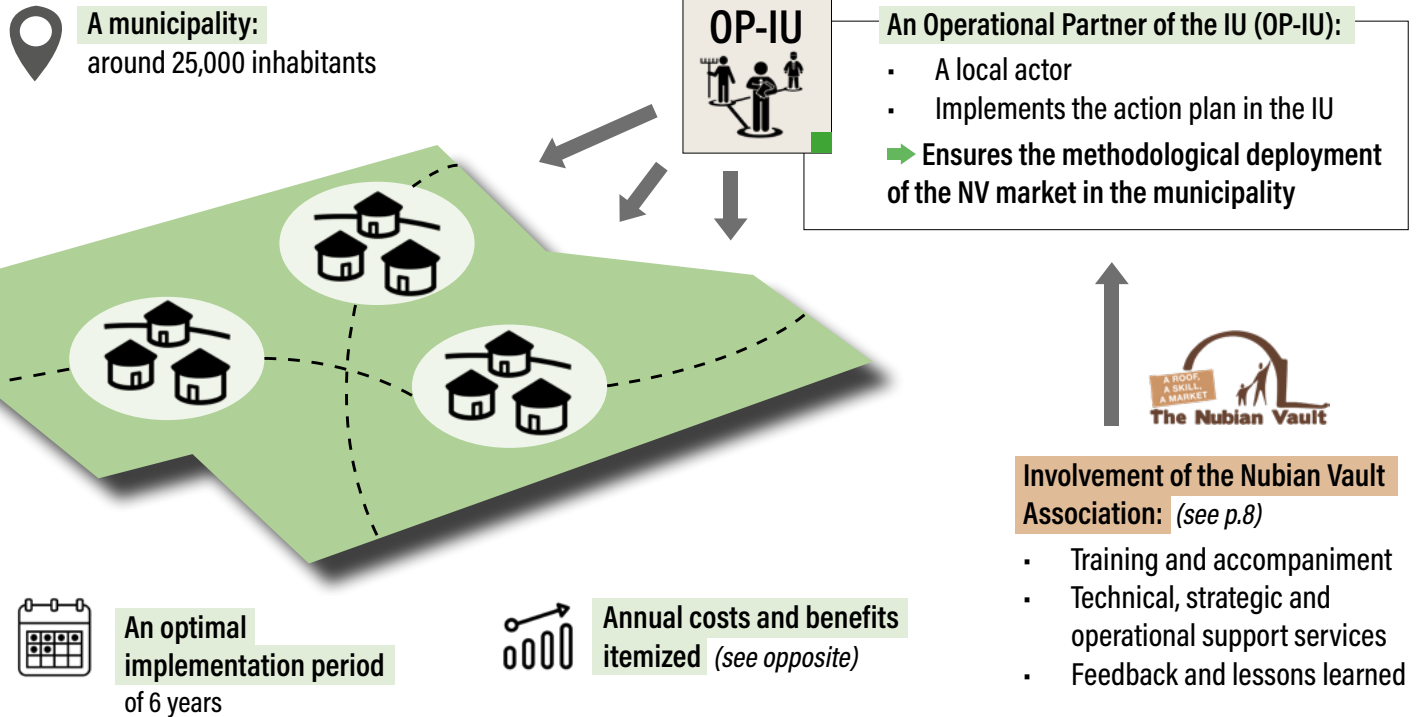
Page 9



For organizations hoping to deploy the Nubian Vault, this document describes the steps to follow and the resources needed to successfully implement the concept in their zones of activity.

The Implementation Unit (IU)

The Implementation Unit (IU), the territorial base level of action, is defined as:



The Implementation Units (IU) are deployed in an Implementation Territory (IT) managed either by an Operational Partner OP-IT, or directly by AVN.



Anticipated results

Simple illustration showing the sequence of activities for a group of masons, and the minimum results estimated for an IU, over 6 years:



Typical progress of a group of masons during the length of an IU*

Cumulative results for the whole IU

Year 1

Paid initial training:

► groups of apprentices are trained in the NV technique and together build their own house

3 apprentices
3 masons
3 NV

Years 2>3

Continuing training:

► NV masons complete their apprenticeships on the work sites of their first clients
► financial incentives for NV construction boost an emerging market

7 apprentices
7 masons
4 NV artisans
19 NV

Years 4>6

Autonomous marketing:

► the masons have become NV artisans and stimulate their market through financial incentives aimed at their future clients

10 apprentices
10 masons
10 NV artisans
80 NV houses and X public NV

Actions implemented by the OP-IU



Establishment of the NV offer

- Promotion of NV construction skills
- Monitoring of training activities



Emergence of the NV demand

- Raising awareness of the NV concept
- Management of financial incentives
- Accompaniment of the developing market



Stakeholder involvement

- General awareness raising
- Mobilization of actors wishing to integrate and promote the NV concept

*A new group of masons starts off the process each year, except in Year 6

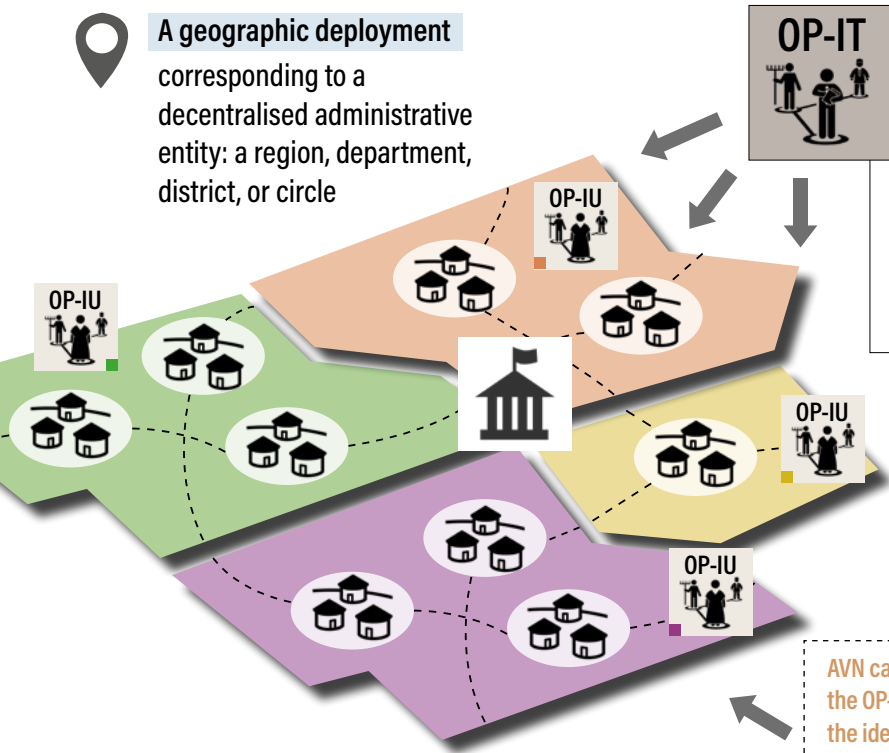
The Implementation Territory (IT)

The Implementation Territory (IT) groups together one or more Implementation Units (IU) and is defined by:



A geographic deployment

corresponding to a decentralised administrative entity: a region, department, district, or circle



OP-IT



The Operational Partner of the IT (OP-IT) who:

- Is an experienced actor, operating locally
 - Mobilizes, trains and coordinates the OP-IU(s)
 - Raises awareness amongst, and involves, corresponding and technical partners in the territory
- ➔ Stimulates the territorial promotion and diffusion of the NV market



Involvement of the Nubian Vault Association: *(see p.8)*

- Training and accompaniment
- Technical, strategic and operational support services
- Feedback and lessons learned

Actions carried out by the OP-IT



Building the NV offer

- Coordination of the training of actors of the NV sector
- Organizational and networking assistance (economic interest groups, federations of artisans, etc.)



Emergence of the NV demand

- Raising awareness amongst local actors for the construction of NV community buildings
- Supporting the implementation of community building projects
- Drawing up programmes for access to private housing



Mobilization of partners

- Collaborating partners: civil society organisations, NGO's, institutional and public actors
- Technical partners: micro-finance institutions, professional training centres etc.



A Sahelian Network of Nubian Vault developers

The OP-ITs are invited to come together in a Sahelian network of NV developers, animated by AVN.

➡ The aim is to promote the sharing and ongoing improvement and development of deployment practices.

The network strengthens our representation and cumulative impacts, allowing for:

- **Wider advocacy at national and international levels**
- **Mobilization of national political actors and their partners**
- **Financial negotiations through the consortium**



What role for AVN?



As the original operator, AVN guarantees the support functions needed for a large-scale deployment of the Nubian Vault market, by accompanying Operational Partners in the Sahel.

This involves:

- ➔ **Overall coordination of deployment**, in the interests of effectiveness and efficiency
- ➔ **Mobilization, training and accompaniment** of Operational Partners
- ➔ **Management of a training centre and resources** (technical, entrepreneurial, training of trainers and of development actors)
- ➔ **Hosting of a technical reference and resource centre**
- ➔ **Organization of a monitoring, evaluation, and feedback service** to ensure the ongoing improvement and development of the methods and working tools of the OP-ITs and OP-IUs
- ➔ **International advocacy** to promote the NV as a relevant solution for adapted housing
- ➔ **Transfer of strategic support services** to States and regions wishing to implement or develop the Nubian Vault construction techniques
- ➔ **Help in research for funding**
- ➔ **Facilitation and animation of the Sahelian network** of NV developers

AVN may also act as an operator in certain territories so as to test its methods in different contexts and undertake R&D activities.

How to get involved?



As an Operational Partner

- Civil Society organizations
- NGOs, development actors

➔ **implement the IU and IT methodologies in your action zones, for the benefit of your communities**



As a Collaborating Partner

- Civil Society organizations
- NGO's, development actors
- Institutional and public actors

➔ **support the mobilization of local actors and the dissemination of the NV concept**

➔ **implement construction programmes**



As a Financial Partner

- Sponsors
- Foundations
- Public development agencies

➔ **finance AVN's methodological offers (IU, IT, the overall programme) and the construction of community buildings**

NB: Organizations wishing to construct NV buildings without becoming a formal partner can contact AVN to be put in touch with NV artisans and enterprises and benefit from AVN's technical support.

Contact AVN: contact@lavoutenubienne.org

The Nubian Vault Association

www.lavoutenubienne.org



thenubianvault



@earthroofs



la Voûte Nubienne

Your contact at AVN:

AVN France

contact@lavoutenubienne.org



AVN Burkina Faso

avn-bf@lavoutenubienne.org



AVN Mali

avn-mali@lavoutenubienne.org



AVN Senegal

avn-senegal@lavoutenubienne.org



AVN Benin

avn-benin@lavoutenubienne.org



AVN Ghana

avn-ghana@lavoutenubienne.org