



SUPPORTING LOCAL
CAPACITY DEVELOPMENT

APPUI AU DEVELOPPEMENT DE
LA CAPACITE LOCALE

Selected DW projects

An overview of Viet Nam and Burkina Faso



2 times winner
World Habitat
Award



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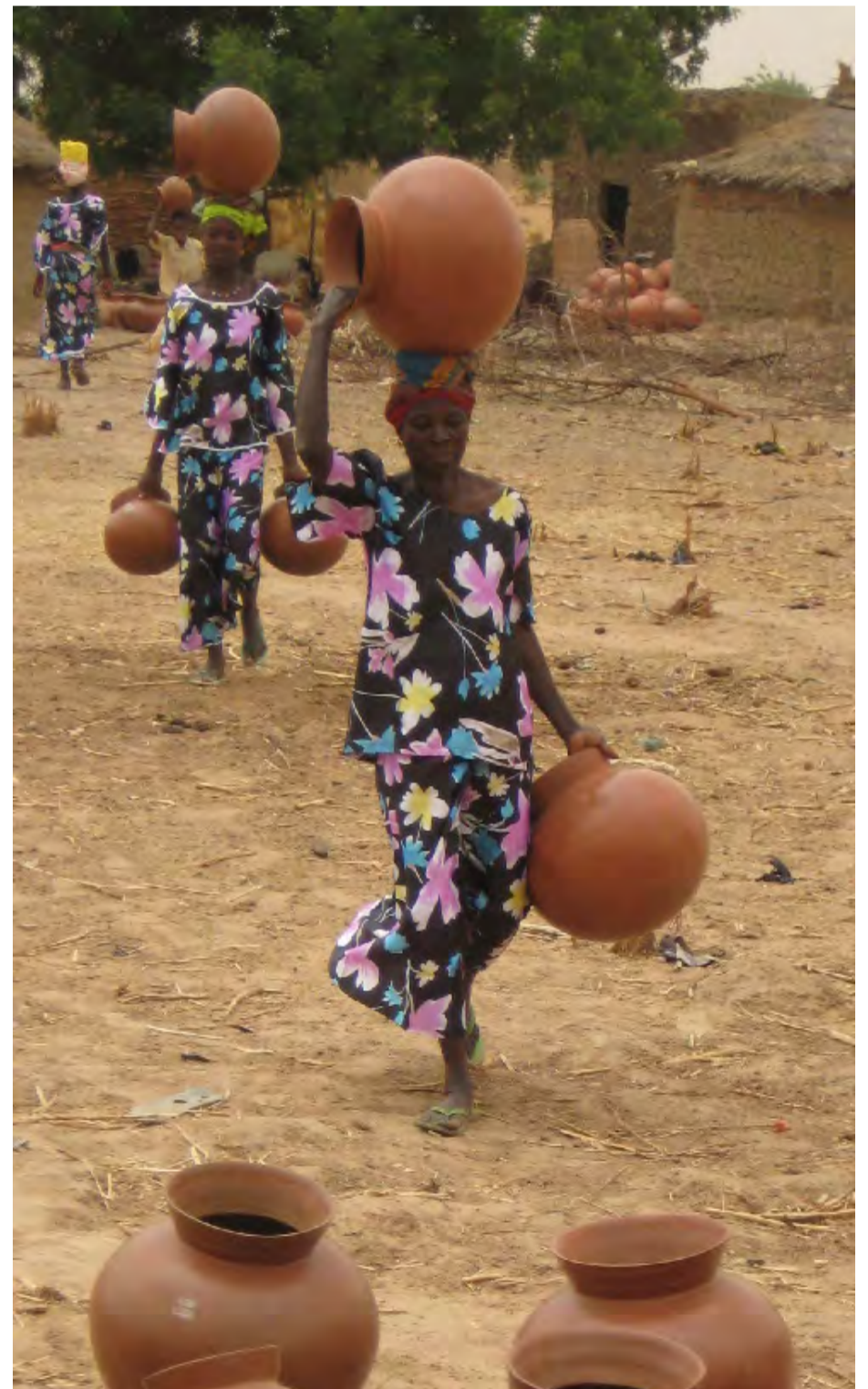
Development Workshop

- Established in 1973
- A network of organisations with offices in France, Canada, Angola, Burkina Faso and Viet Nam
- 35 years of action-based research and project implementation in the field of human settlements in less favoured communities



DW office in France

- French not-for-profit registration
- approved for issuing of tax deductible receipts (equivalent to "gift aid" in UK)
- head office in south-west France (Toulouse airport 1 hour's drive)
- permanent field offices in Hué (Viet Nam) and in Ouagadougou (Burkina Faso)
- focuses of activity include –
 - habitat and environnement in the face of climate change
 - prevention of damage to shelter and settlements caused by natural disasters
 - adaptation to climate change
 - construction materials and techniques adapted to local needs and resources
 - sustainable development of local economic opportunities with communities
 - micro credit for shelter improvement
 - integrating risk reduction into post-disaster interventions
 - capacity development in all these fields...



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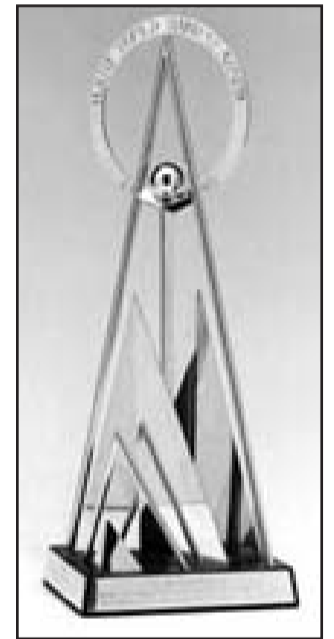
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World Habitat Awards

Since the creation of the Award in 1985, DW France is the only organisation worldwide to have won this prestigious award twice.

- 2008 World Habitat Award for “the Prevention of typhoon damage to housing caused by Typhoons, Central Viet Nam”
- 1998 World Habitat Award for “the Promotion of Woodless Construction in Mali, Niger and Burkina Faso”



2009 United Nations ISDR Sasakawa

Award for Disaster Reduction

Certificate of Distinction awarded in 2009 for 35 years of community based disaster reduction and capacity building

2010 UN Habitat ‘25 Urban Best Practices’

For Preventing Typhoon Damage to Housing in Vietnam

2010 UNDP/UNCHS/BSHF South South

Transfer Award

for “Preventing Typhoon Damage to Housing in Vietnam” and its extension to Indonesia, Myanmar and Haiti.

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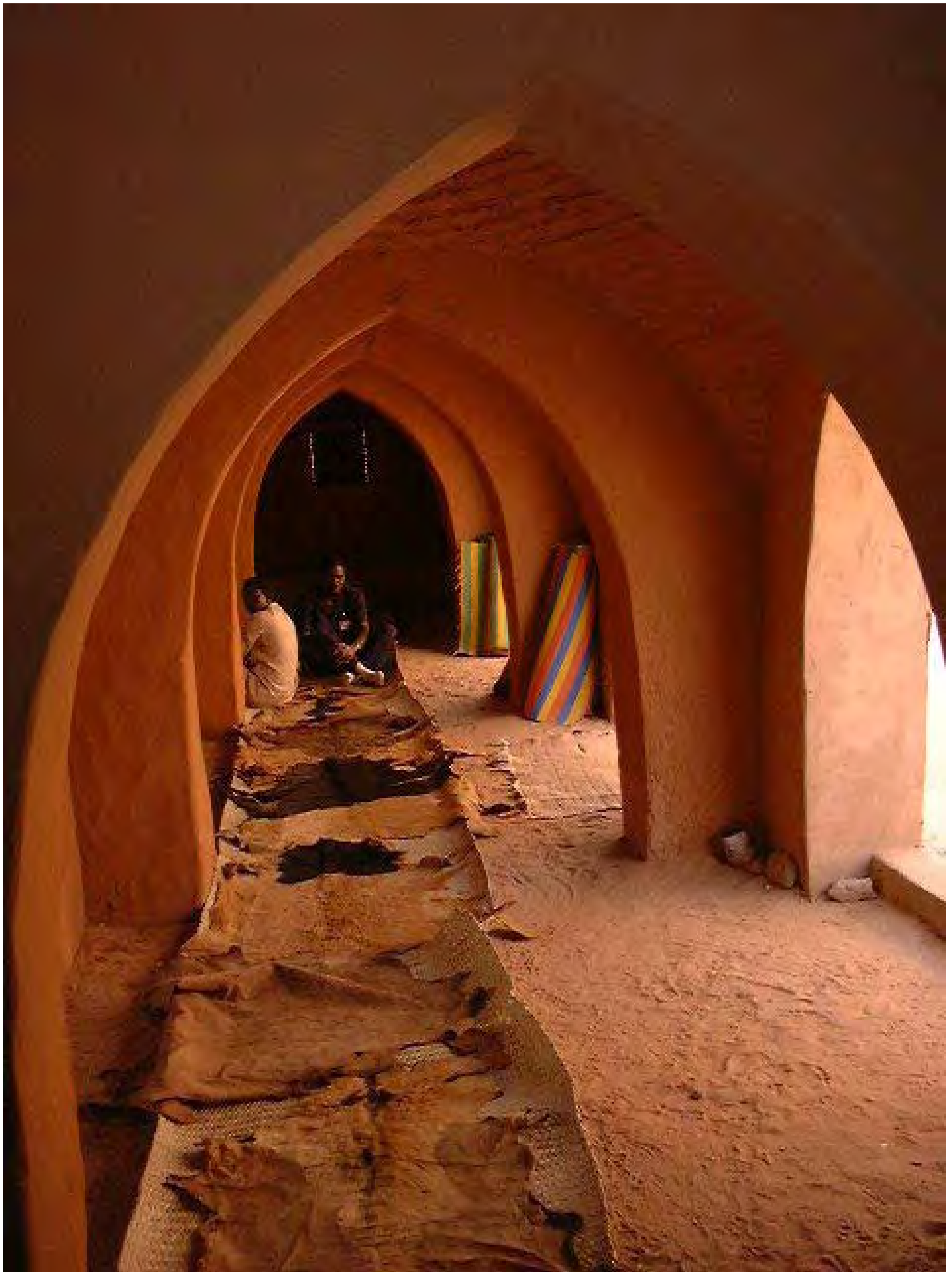


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Developing local capacity for a better quality of life in the Sahel

CONSTRUCTION
SANS BOIS



DANIDA
Région Midi-
Pyrénées
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UNION



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World Habitat
Award 1998



DW in Burkina Faso

Objectives

Enhancing local capacity to improve the quality of life of poor communities.

How ?

By developing the local economy and local skills, we help -

- Create new income generation opportunities
- Reduce the need for economic migration
- Reduce pressure on the natural environment
- Train young women and men (over 50% of the population are under 25 years old!) in sustainable skills
- Satisfy shelter and infrastructure needs using local resources and no costly imports
- Support local organisations including economic interest groups and local authorities
- Raise public awareness about using local human and material resources for local development
- Restore a positive image of building with earth, the best resource for meeting 21st century needs in the area



Oursi Beero museum, built with woodless construction (mud bricks, vaults, local renders) in northern Burkina Faso

Woodless Construction WORLD HABITAT AWARD 1998



In sub-Saharan West Africa, the promotion of woodless construction is one of DW's key actions in improving livelihoods and in fighting over-consumption of scarce timber resources. Woodless construction has its origins in Iran and Egypt, and makes it possible to eliminate the use of wood in roofing, by using instead earth vaults and domes. Excessive use of timber in construction has contributed to the growth of the desert.



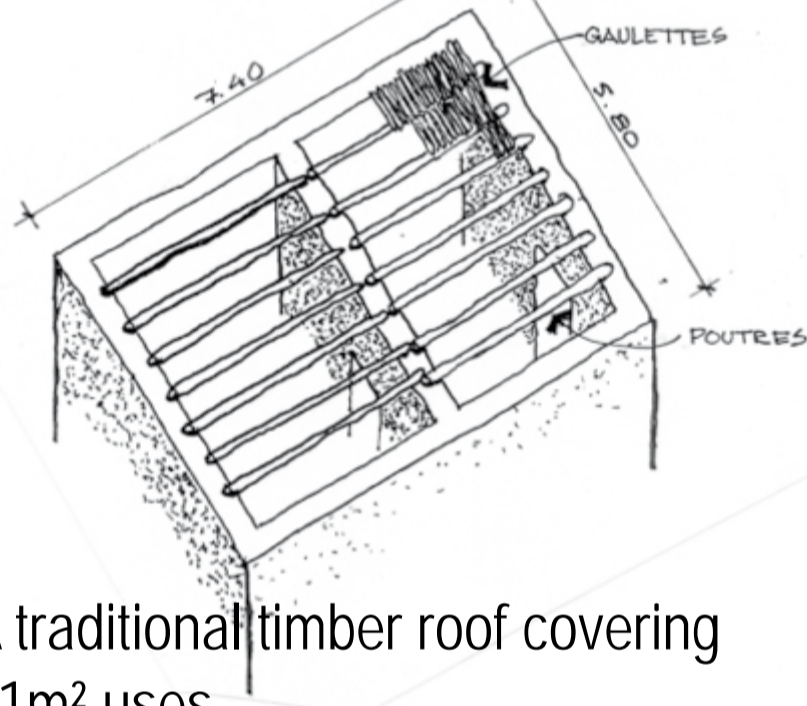
Today, DW activities in the region are centred on Burkina Faso.



Adapt to the consequences of climate change... ... and reduce timber consumption

The over-consumption of wood in construction has led to

- the destruction of whole forests
- rapid environmental deterioration
- the disappearance of previously common tree species ...
- scarce good quality timber becoming very expensive ...
- a high risk of paying fines for illegal tree cutting



A traditional timber roof covering

31m² uses -

56 linear metres of beams

12 m³ of branches, equivalent to 8 cartloads of wood

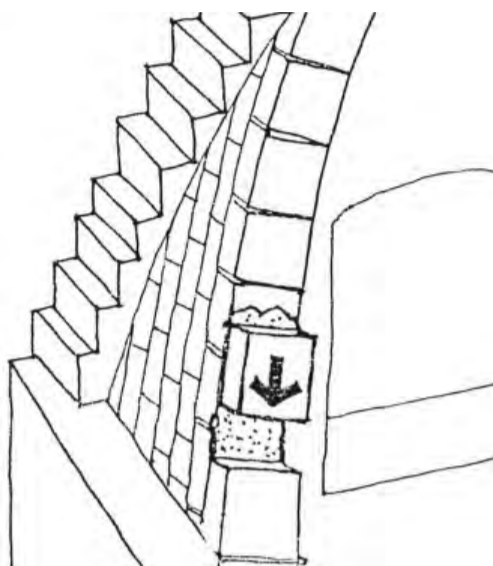


A woodless construction roof -

- Uses only earth, water, and newly developed skills thanks to DW training
- Uses earth vaults and domes
- Requires no supporting shuttering during construction
- Uses no imported materials such as cement

Protecting trees also conserves the CO₂ storage capacity - it's good for the planet...

Woodless Construction ...



... achieves high quality sustainable buildings
 ... uses local materials including hand-made sun dried mud bricks
 ... encourages secondary employment in transport, brick making, unskilled labour, etc.



Using genuinely local materials

- no cement
- no brick making presses
- no galvanised metal roof sheeting
- no timber shuttering during construction



Local builders meeting local needs

Builders trained by DW local trainers can build a huge range of different building types. Clients do not have to turn to costly, distant firms, using imported materials.



Woodless construction -

- Protects the environment
- Stimulates the local economy
- Provides excellent climatic comfort inside the buildings
- Can be adapted to suit different budgets and needs

Decent, sustainable and affordable shelter

Woodless construction provides the opportunity to build simple houses adapted to the needs and capacity of the poor.

After three weeks initial training by DW, each trainee mason is committed to building one house, for himself or his family. These are usually 9 to 12m² and can be round or rectangular, adapted to local styles.

Each house built by a newly trained mason is a local demonstration of what he is able to build with his recently acquired skills. The cost of a small woodless construction house is much lower than the cost of a house using non local materials.



Pride in getting a new start with new skills

Builders take pleasure in decorating their homes.

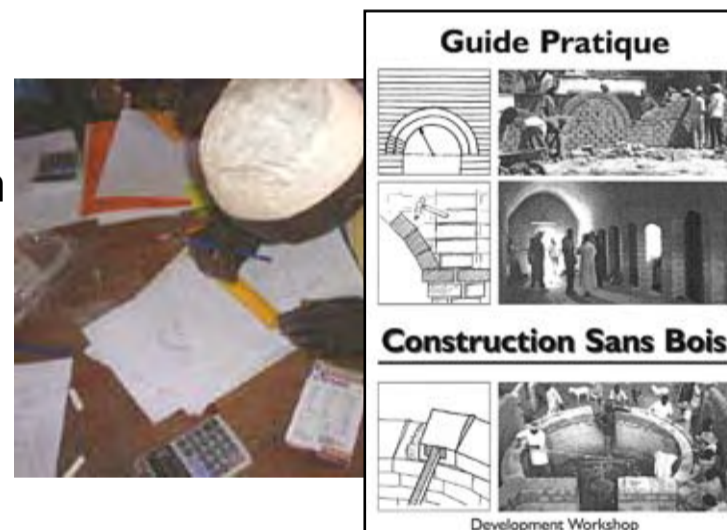
Other advantages...

- No fire risk
- Easy maintenance by local men and women

25 years experience of training in West Africa



- Training novice trainee builders to use woodless construction techniques - three weeks on special training structures
- Training site supervisors and trainers in woodless construction
- Training in woodless construction design and how to draw building plans
- Training in preparing cost estimates and quantities for woodless construction
- Training in setting up economic interest groups for young men and women
- Training women potters to use new kilns, to make new products and to market them



Helping women improve pottery production

DW supports women potters in Burkina Faso by -

- building fuel efficient pottery kilns
- helping women expand the production of pottery items to include new gutters, floor tiles, improved fuel efficient stoves, etc.

This both improves the quality of products and saves energy :

- fuel costs cut by over 90%;
- less breakage and better quality means productivity goes up by 70%



Ceramic gutters cost one fifth of the price of metal gutters, and generate local revenue

- ***Pottery is an important economic activity for women, easily integrated into their domestic lifestyles***

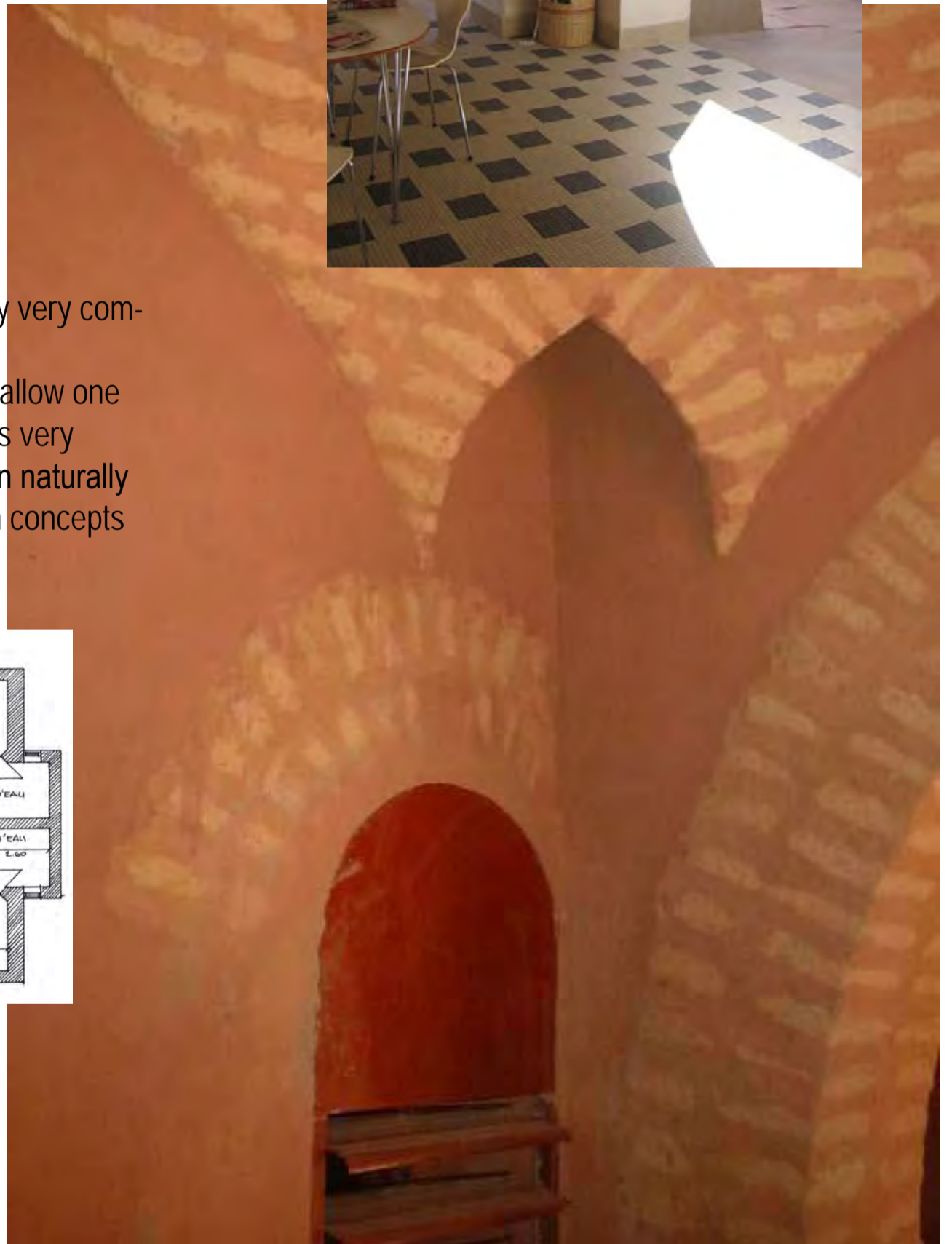
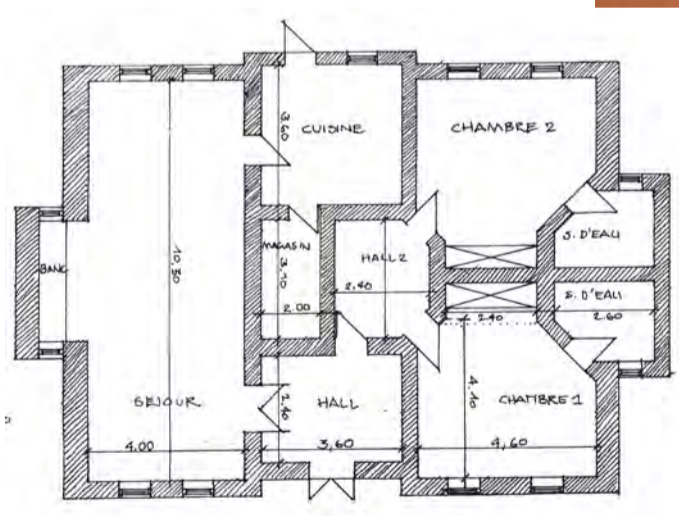
High quality villas and large public buildings

Woodless construction can be adapted to meet all sorts of needs. Prestigious buildings for wealthier clients and public buildings provide work and enhance the image and reputation of woodless construction.

Finishings are chosen according to one's means and needs...

- tiled floors,
- modern plumbing,
- various wall finishes,
- solar energy installations.

Woodless construction is already very comfortable in a hot climate. Its thermal qualities, however, also allow one to use additional cooling systems very efficiently. Woodless construction naturally lends itself to bio-climatic design concepts



Accompanying decentralised government in Burkina Faso

DW promotes a strategy that encourages local government to turn to locally developed skills and materials in order to meet local development needs, rather than employing city based contractors and imported materials.

Woodless construction is used to build housing for health and education workers, offices, clinics, maternity centres, classrooms, and more besides.

