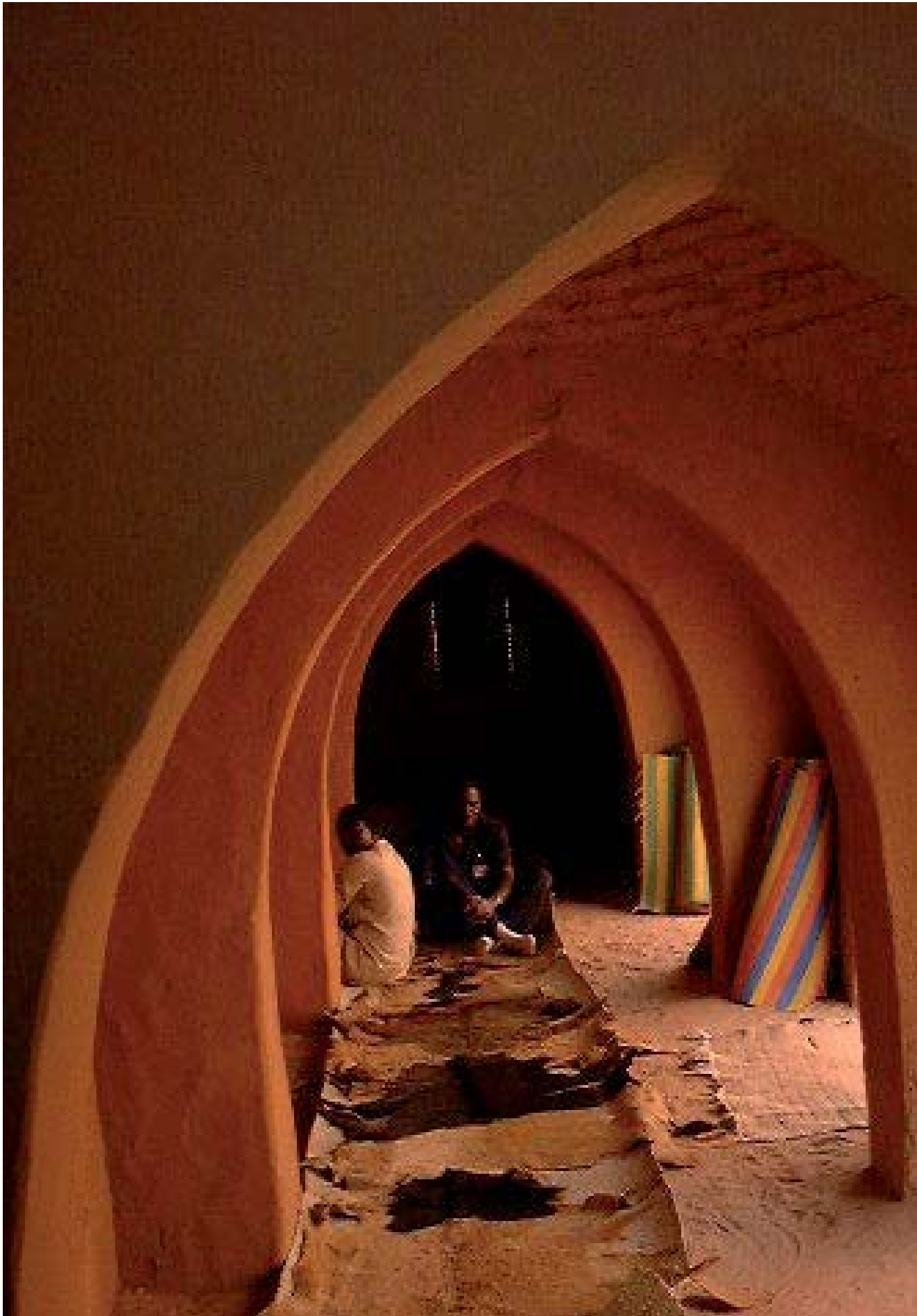




Developing local capacity for
better quality of life in the S





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





Developing local capacity for
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Woodless Construction WORLD HABITAT AWARD 19

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 focused on promoting woodless construction on Burkina Faso.

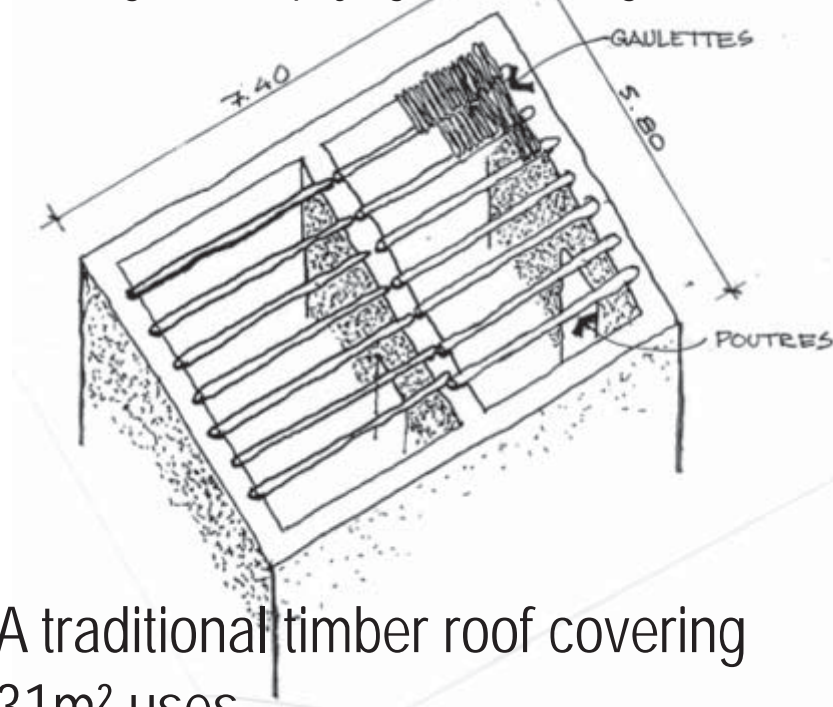




Adapt to the consequences of climate change... ... and reduce timber co

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

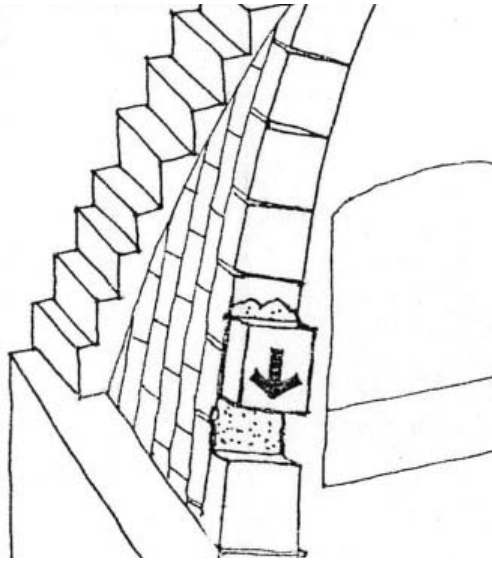
12 m³ of branches, equivalent to 8 cartloads of
wood



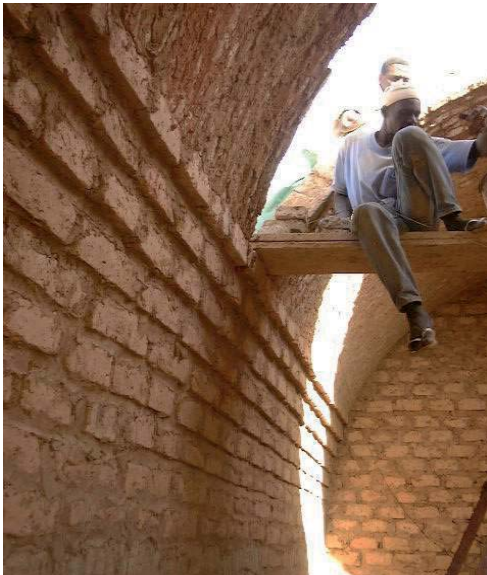


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Woodless Construction ...

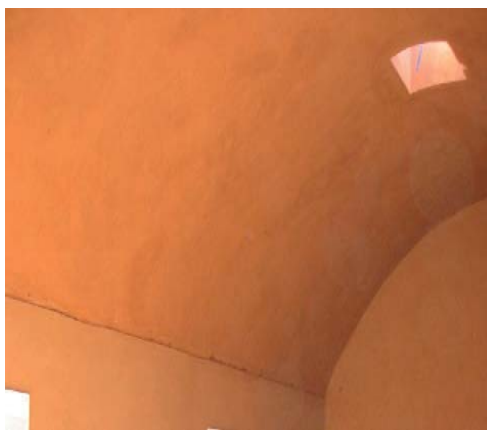


... achieves high quality sustainable building
... uses local materials including hand-made
dried mud bricks
... encourages secondary employment in
transport, brick making, unskilled labour, e



Using genuinely local materials

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



Local builders meeting needs

Builders trained by DW local trainers can build a
huge range of different building types



Developing local capacity for
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Decent, sustainable and a 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.

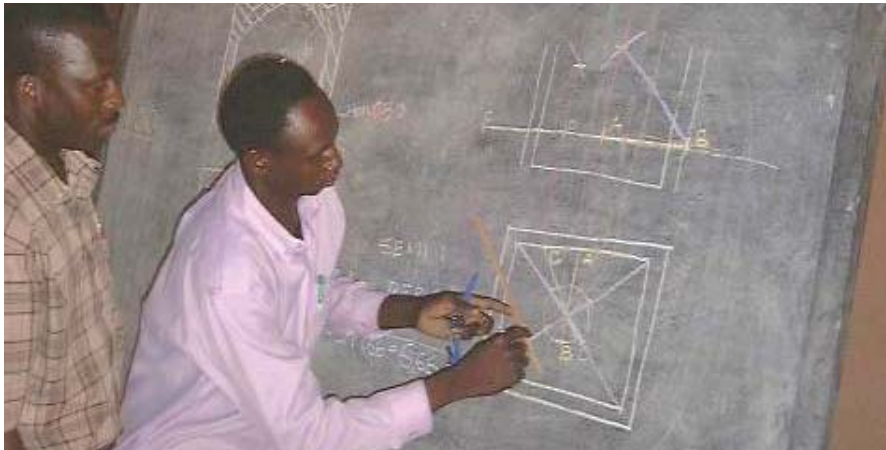


*Pride in getting
a new start with
new skills*

Builders take
pleasure in decorating
their homes



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





Developing local capacity for
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Better incomes by helping impr

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%





Developing local capacity for
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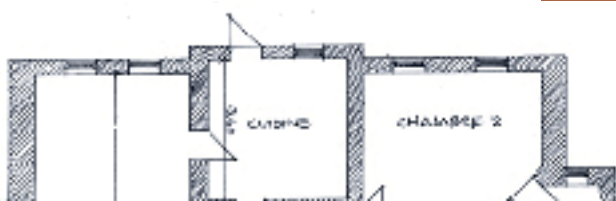
High quality villas and large buildings

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





Developing local capacity for
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Accompanying decentralization 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.

