



SESSION 1.3:

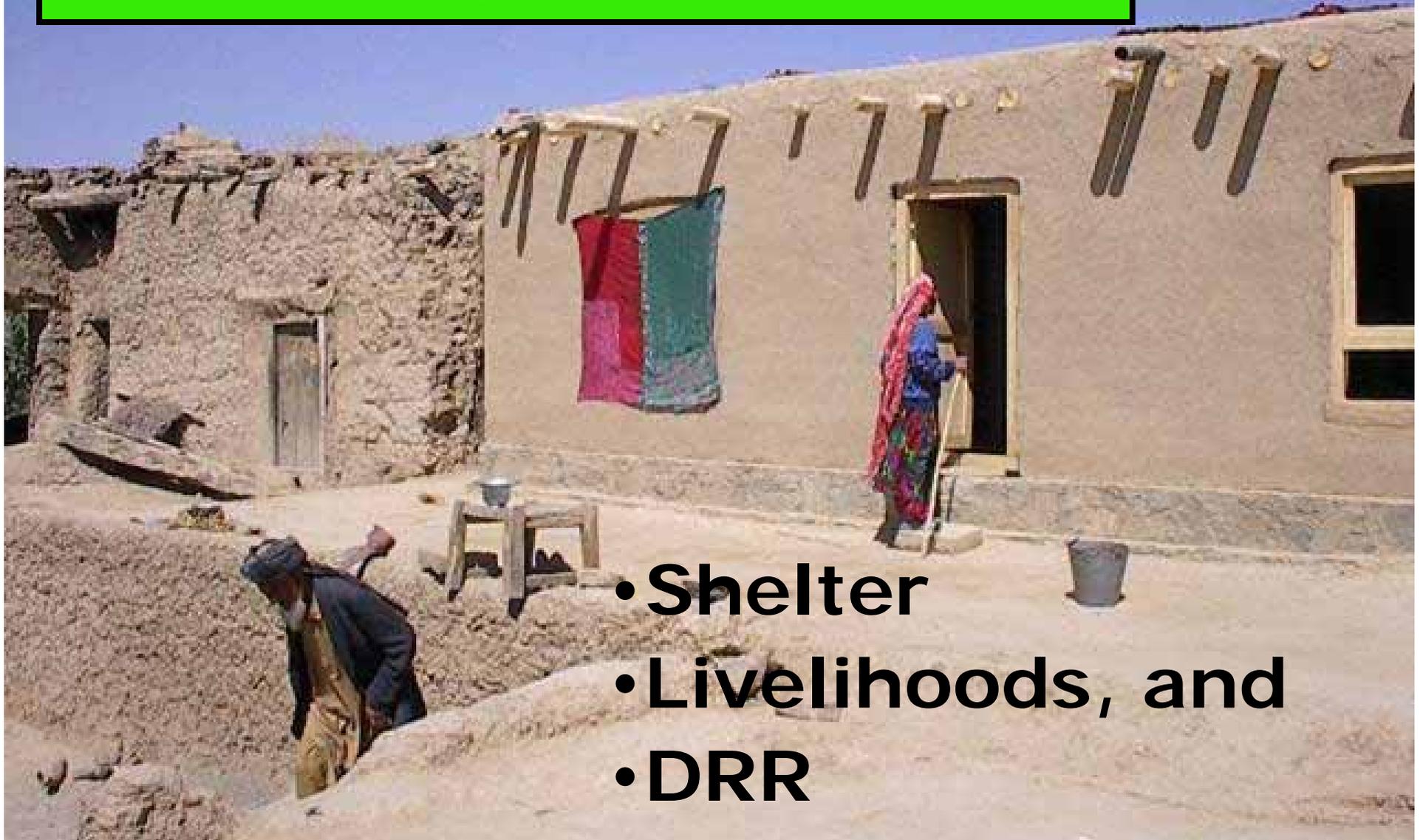
Local Materials and Markets: Salvaging, DRR, and Livelihoods

Presenters Include:

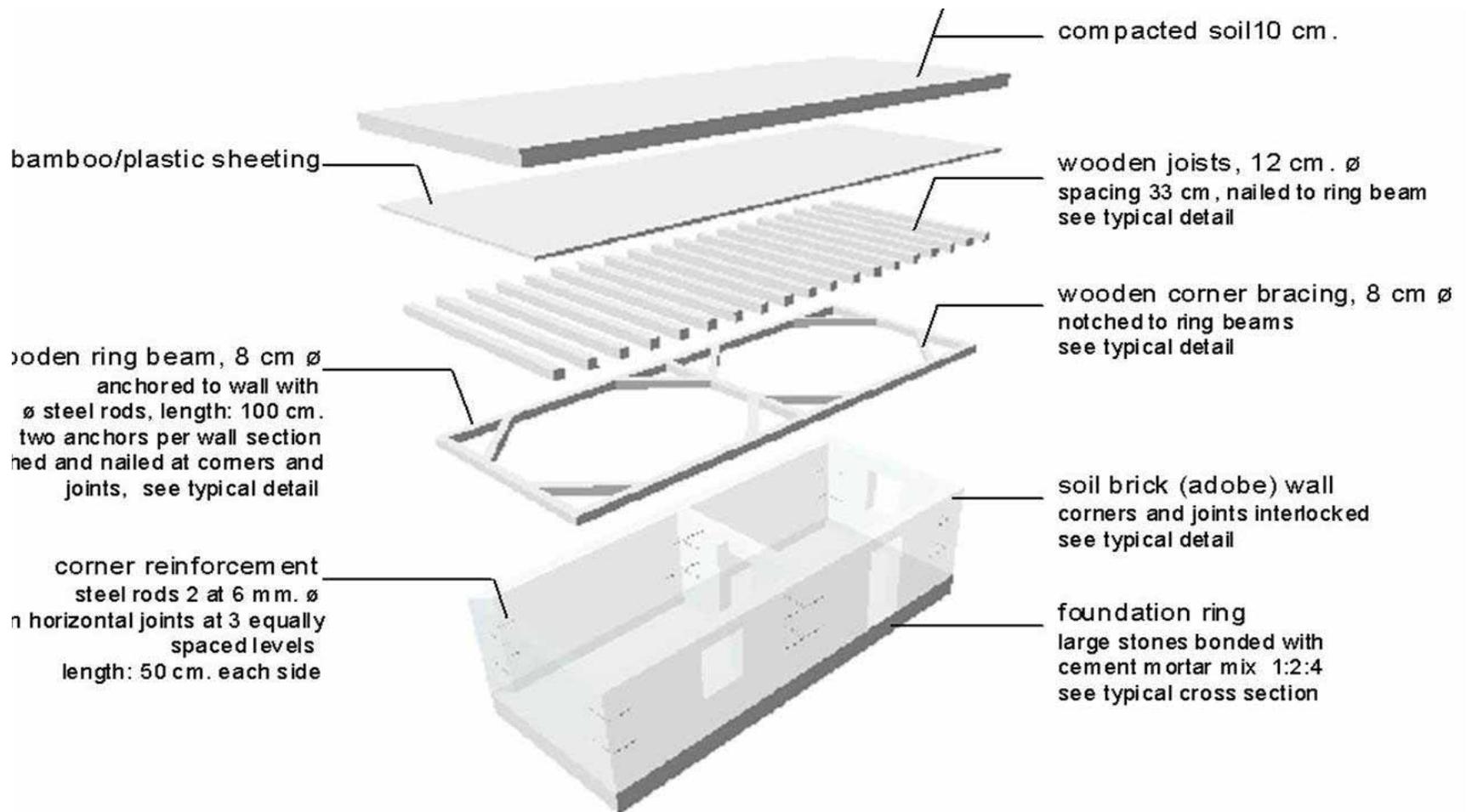
- **CARE/Peru**
- **CHF/Peru**
- **WVI/Nicaragua**



Use of Local Materials: Adobe in Afghanistan (\$490/unit)



- Shelter
- Livelihoods, and
- DRR



overall dimensions floor plan: 89' x 36' (net square 24 sq.m. suitable for 7 persons according to SPHERE standards @ 3.5 sq.m. per person)

DRR By Design... and Action



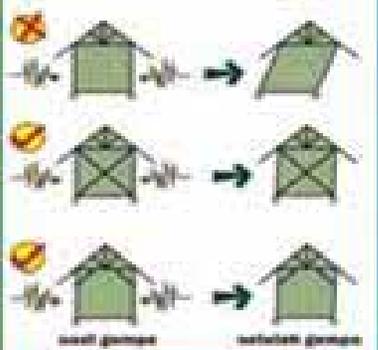
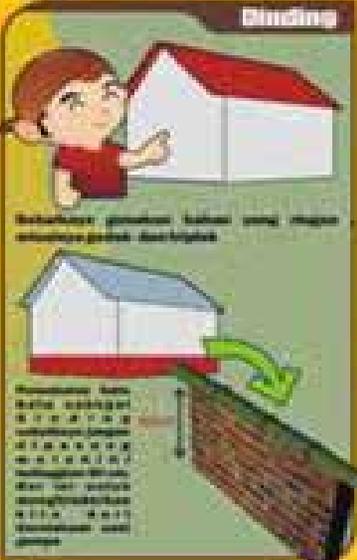
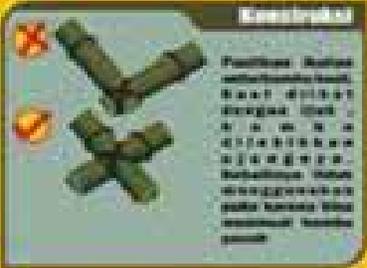
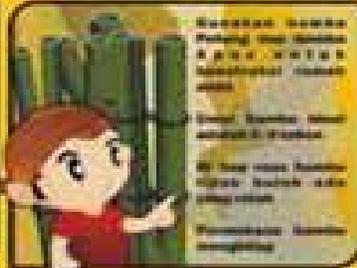
Use of New and Salvaged Local Materials, Java



Use of New & Salvaged Local Materials, Java, '06 (\$200 per unit)

DDR Opps Emerge in Design...

MARI MEMBANGUN RUMAH CIKAL DARI BAMBU



Salvaging for Next Steps...

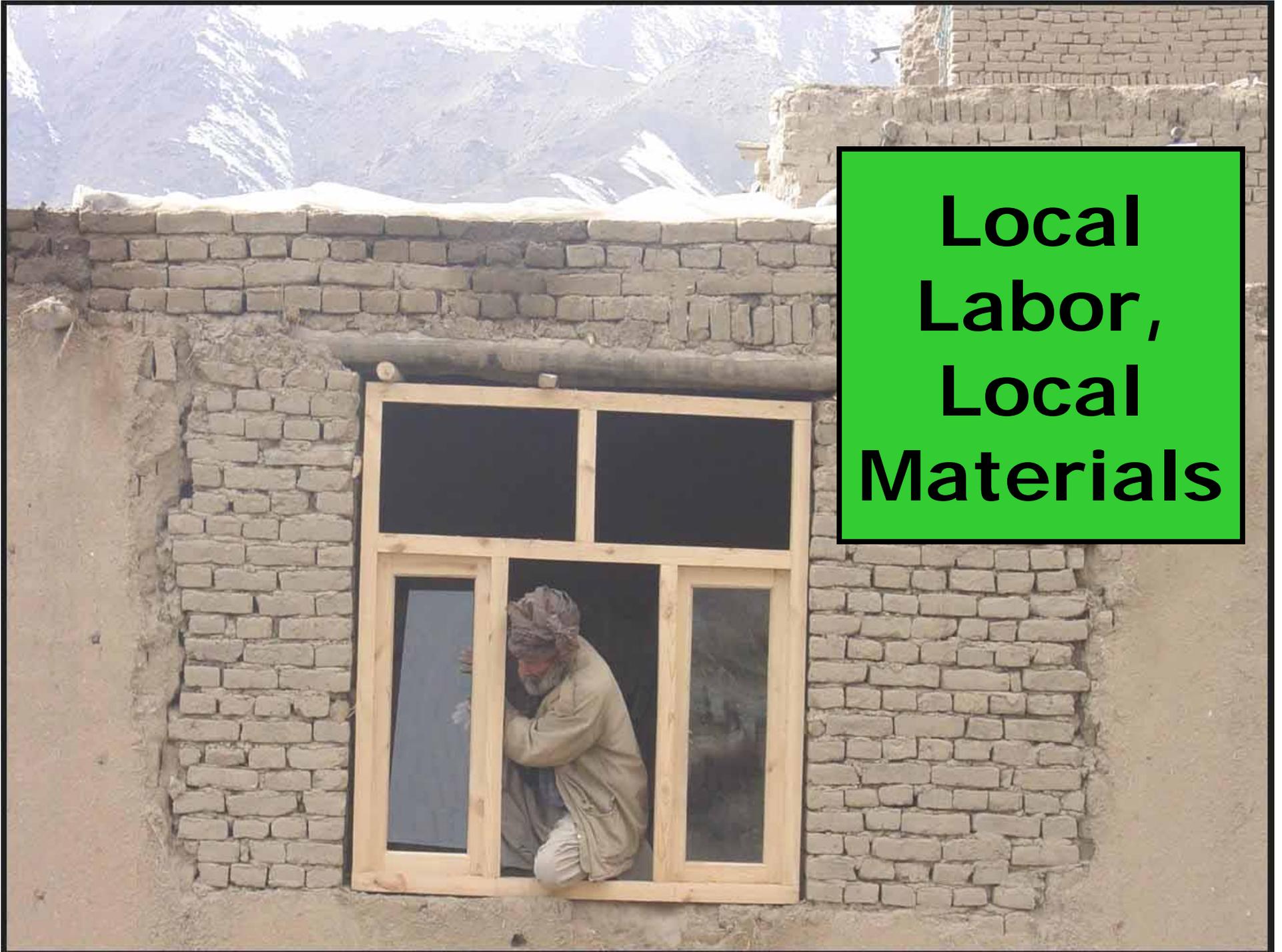


BRICKS -- and More BRICKS -- as Shelter-Livelihood Link



Significant Livelihood Generation Using Local Contractors





**Local
Labor,
Local
Materials**

Debris Fields Are Fields of Opportunity...

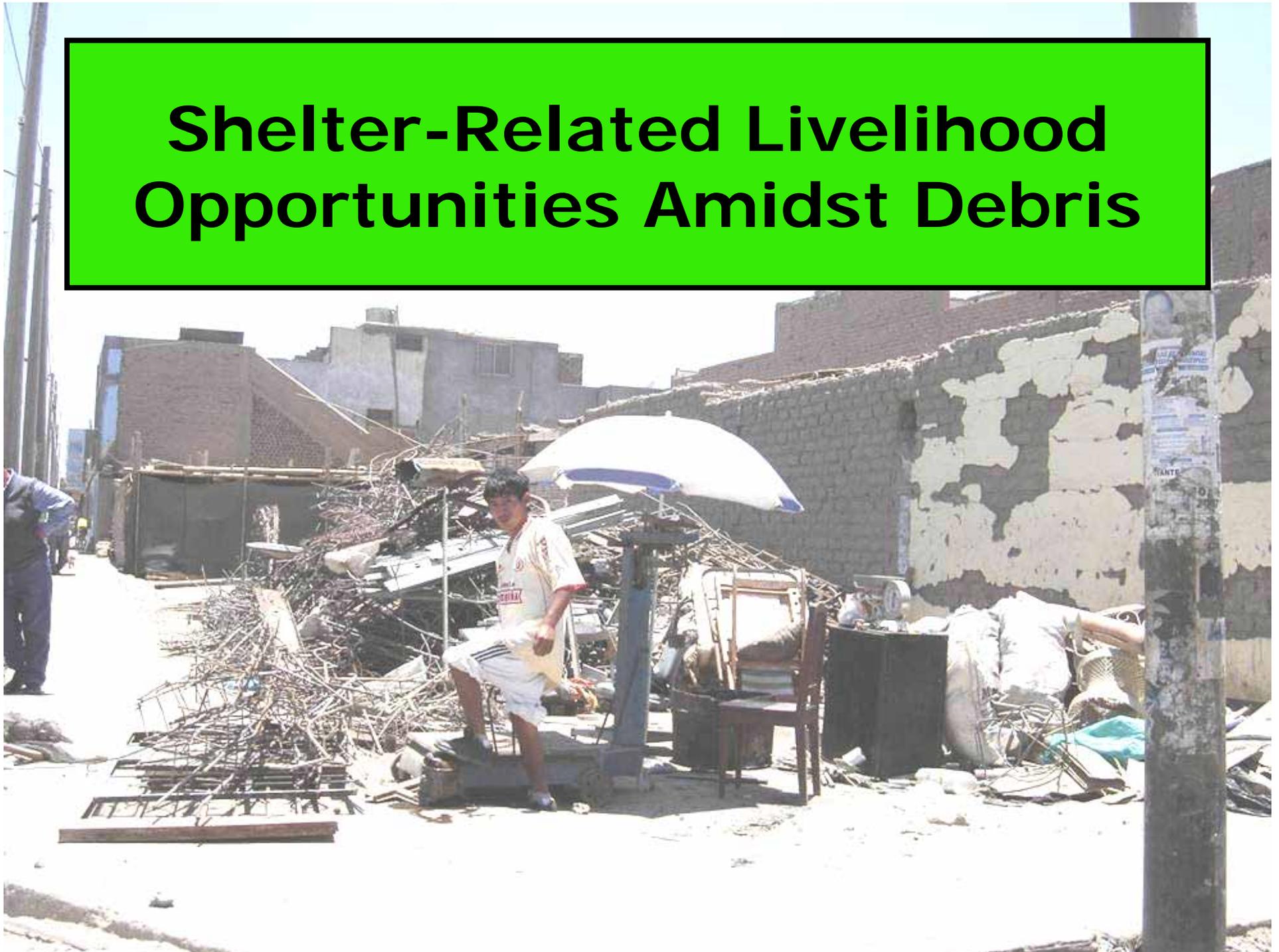


- In one Pakistani city alone, enough rubble to fill a line of trucks back to the DC!

Major Opportunities for Livelihood Generation



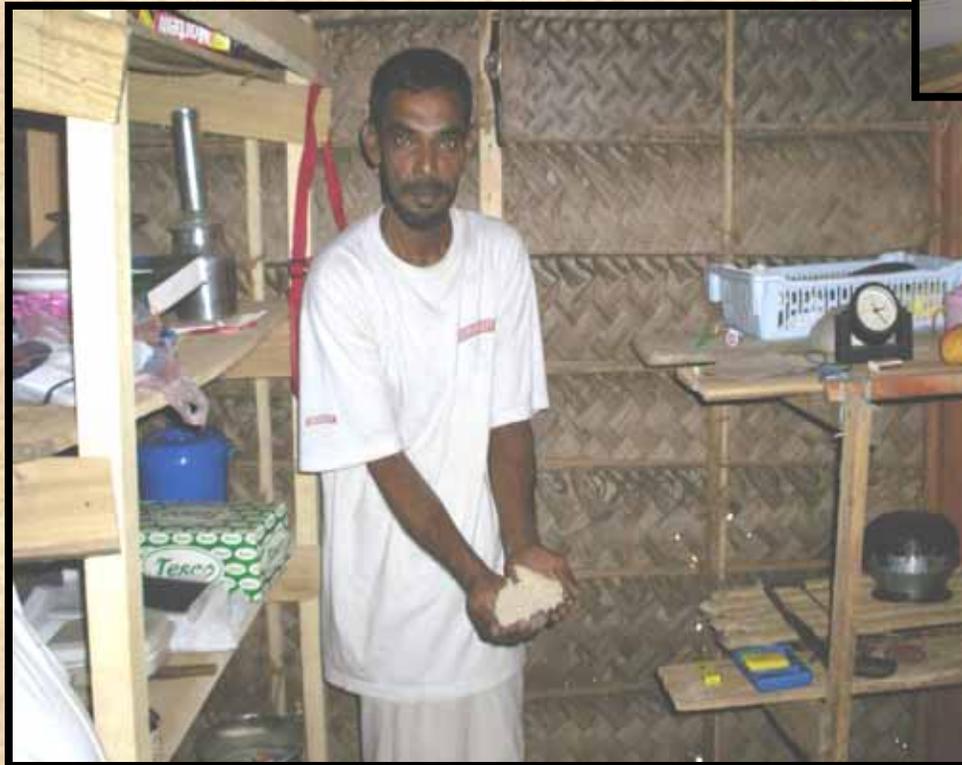
Shelter-Related Livelihood Opportunities Amidst Debris



Also A Precursor to Recovery: Debris Removal Increases Space for Shelter Activities



Shelter as a Survival *and* Production Platform

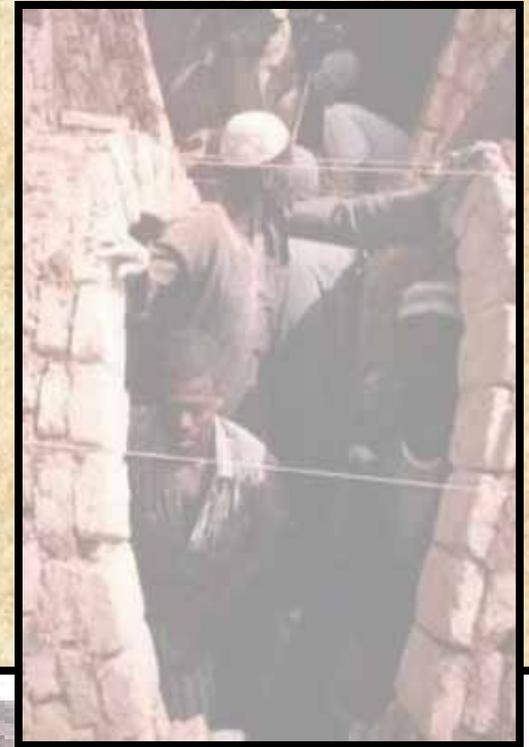




Growing Onions
INSIDE a Tent!

ECONOMIC IMPACTS OF SHELTER

- Greater Than Anticipated
- Shelter a Primary Means of Implementing OFDA Mandate's "Third Phrase"
- Can "Jump-Start" Affected Settlements
- Can Lead Transition to Reconstruction



Transitional Shelter in Goma



Project Economic Impacts...

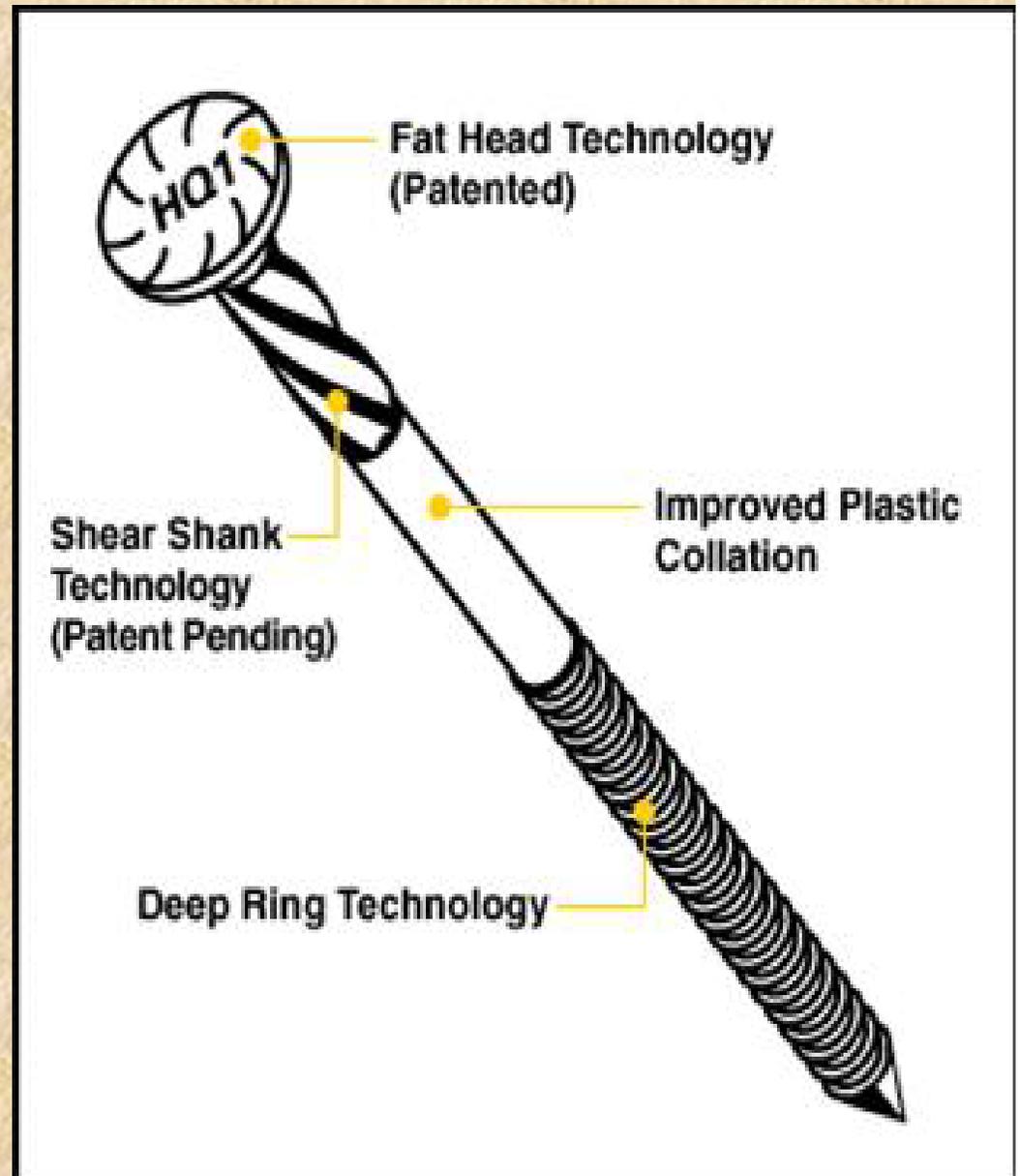
- 45,000 person-days of reconstruction work through beneficiary family hiring
- 270 jobs created in building materials and household goods supply
- 3,300 jobs created through home-based enterprises
- 5,010 total jobs, or about 1 per shelter
- Each shelter, costing \$445, stimulated community investment of an additional \$164/shelter in 1st year = 37% of cost



**LIVELIHOOD REALITY:
"Egg Crate" Brick-making Machine**

LIVELIHOOD IDEA:

**Promote
Fabrication
of Wind/EQ
Resistant
Nails**



KEY POINTS

- **In Addition to Responding to Shelter Needs, Shelter Provision is a Major Tool in Reducing the Economic and Social Impacts of Disasters** *(Remember the "Third Phrase")*
- **Livelihoods are not only Rural, or Ag**
- **Shelter Activities are Livelihood Magnets, Generating More per Dollar Than Any Other Sector**
- **Livelihood Opportunities Abound in New Strategies, New Tools, and New Products**