

What we do.....

Technical Support & Consultancy



Practical Work Experience & Training



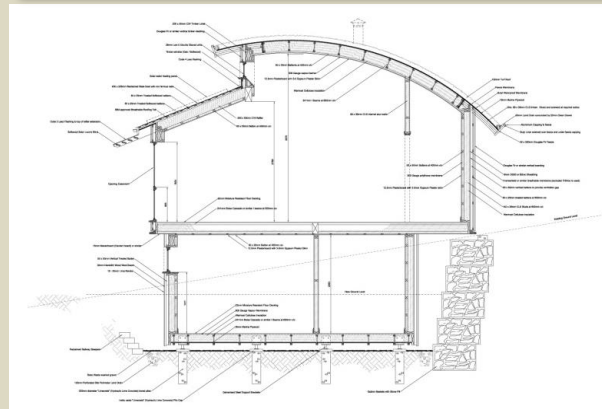
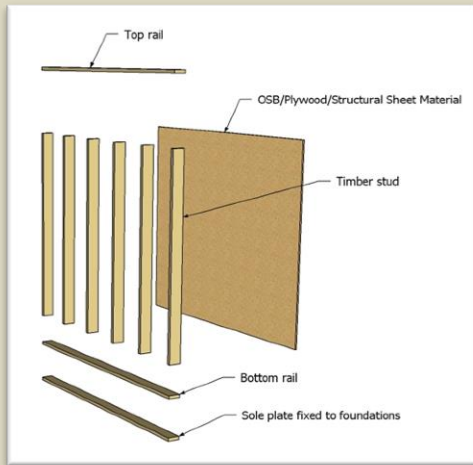
Practical Research & Development



Technical Background

Open Panel Timber Frame

OPTF has a structural frame of timber sheathed with a sheet material such as Orientated Stranded Board (OSB), Plywood, to provide bracing



- Reduced Construction Time
- Reduced waste
- De-skilled the process
- Improved air tightness and insulation
- Minimise Carbon Footprint

Timber Shelter Background

Grenada, Aceh, and other shelter projects provided an interest in timber construction after disasters



Paper produced for Haiti for classroom modules.



Timber frame technical support to Cambridge University. Included manufacture of 1:1 model.



Timber Frame – Evolution and development

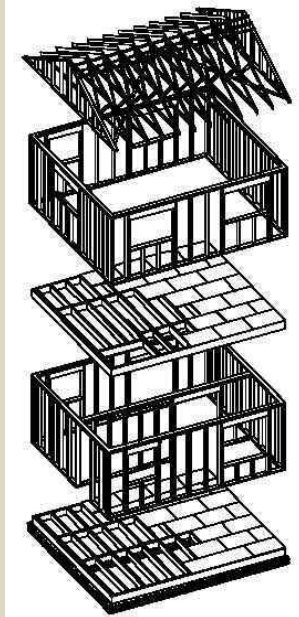
Round



Post & Beam



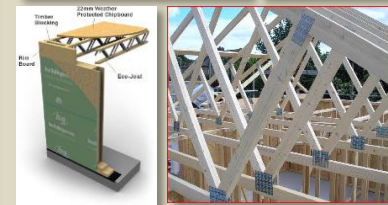
Open Panel



Platform Construction

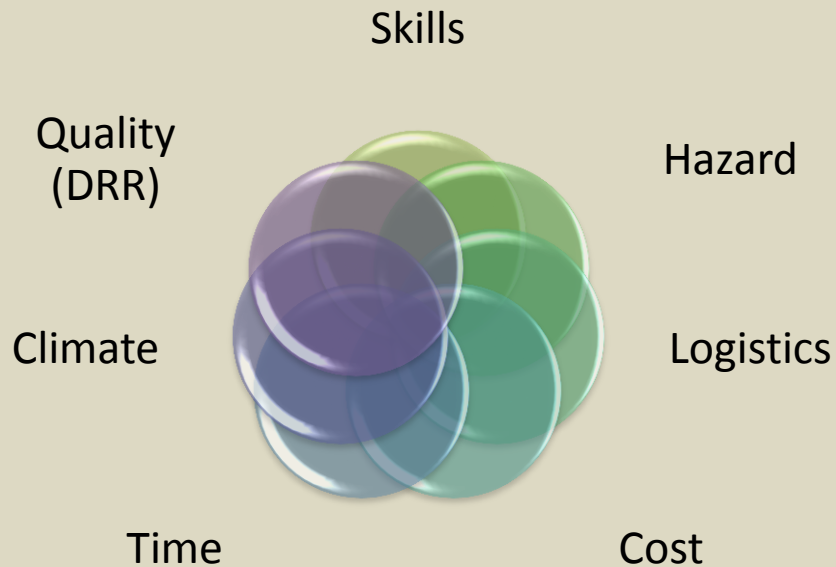


Segal Method



Modified Timber Products

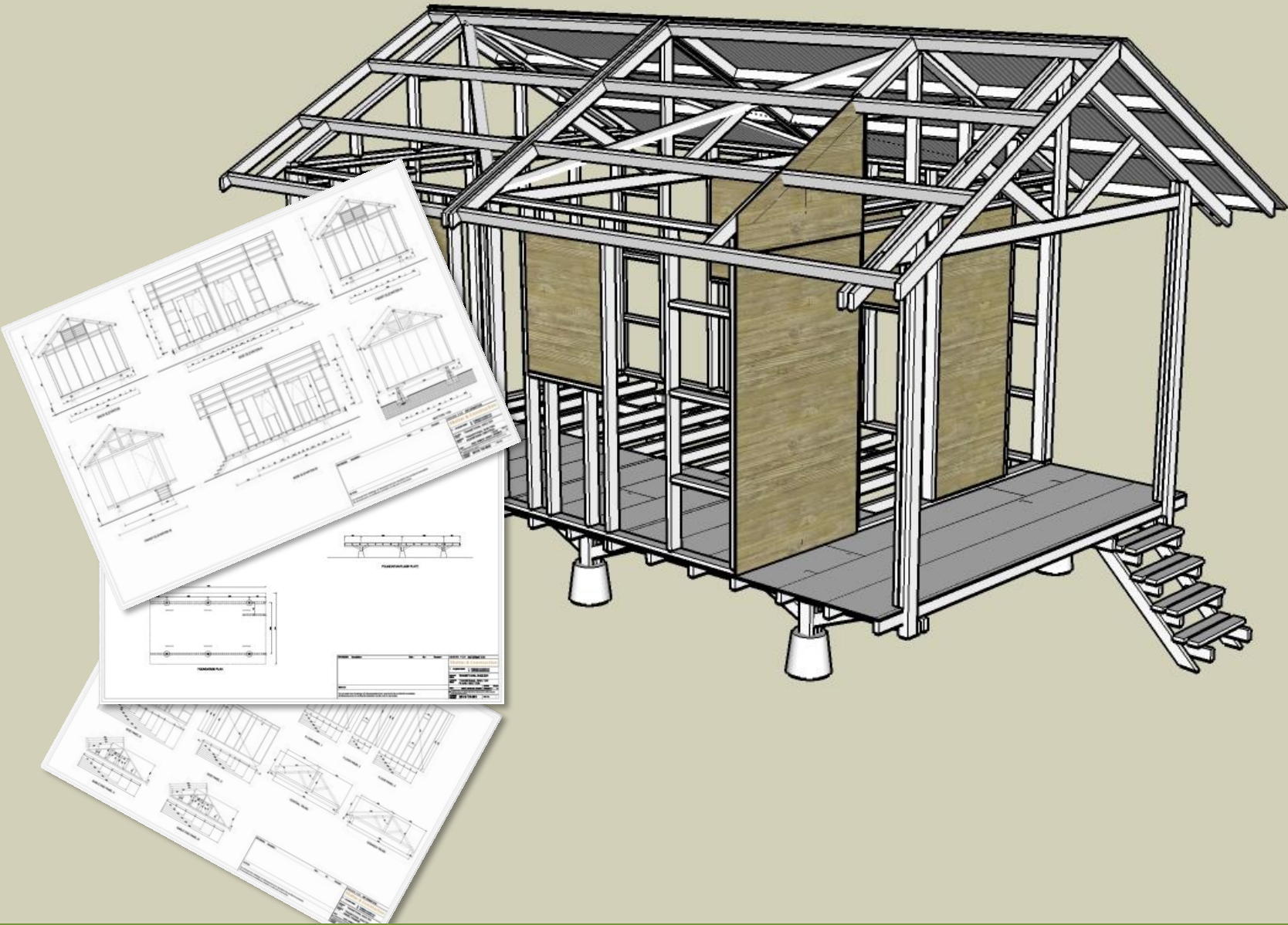
Challenges



Guiding Principles

- Basic Skills
- Basic Hand Tools
- Limited Materials
- Minimise Waste
- Fast & Simple Construction
- On & Off Site Production
- Robust Connections
- Adaptable
- Upgradeable

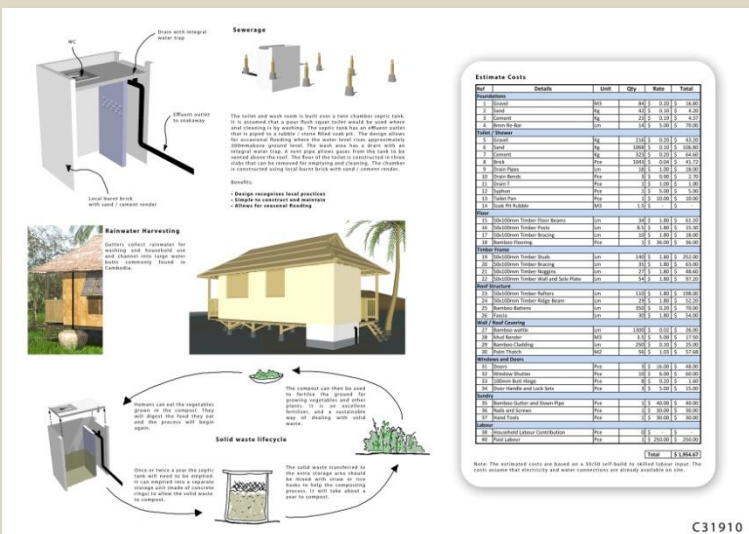
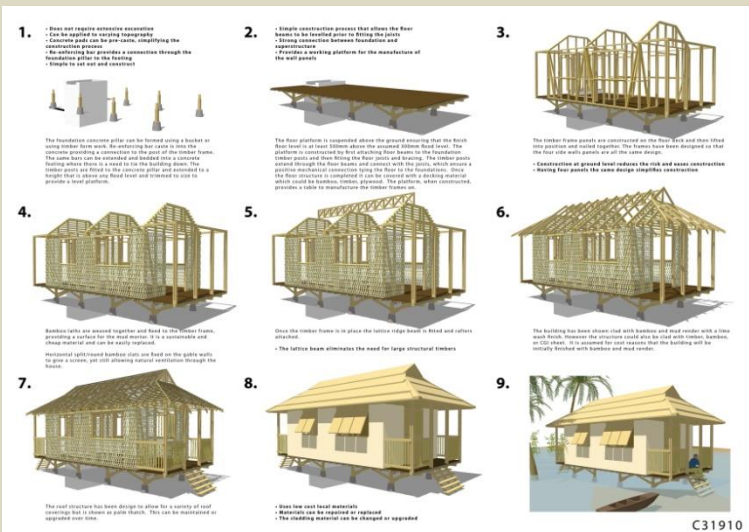
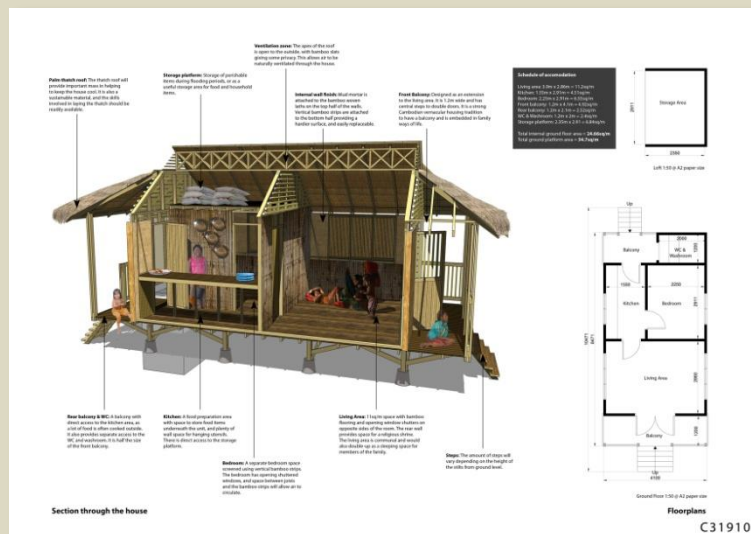
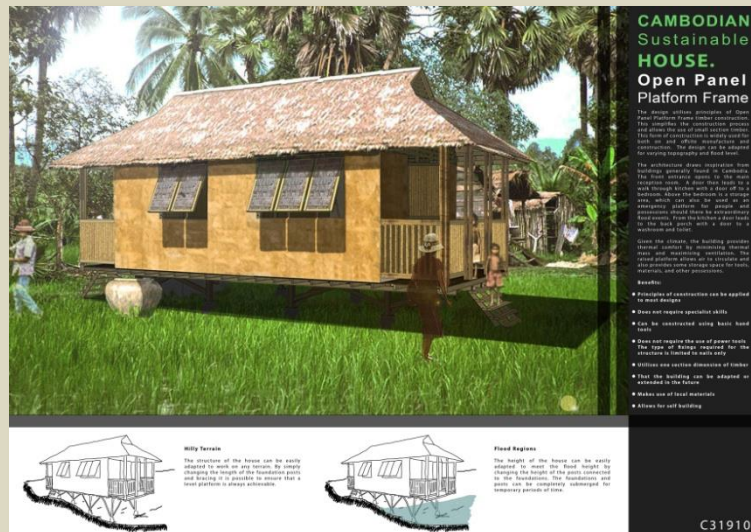
Design



Construction



Application



Next Steps

- **Foundation Design– Ground Bearing and Suspended**
- **Cladding Options – Roof and Walls**
- **Hazard Specific Design and Construction Details**
- **Adaptation**
- **Thermal Performance – Cold / Hot Climate**
- **Ventilation**
- **Joinery – Doors and Window Design and Manufacture**
- **Public Buildings**
- **Urban Multi Occupancy – 2 Storey Platform Frame**
- **Mobility Access**
- **Off-Site Manufacturing**
- **Logistics Tools**
- **Training Material**
- **Field Testing**