

C2

Housing Typologies in India and Role of Artisans

No. of Slides: 25
Time: 45 min



National Disaster
Management Authority



Hunnarshala
Foundation



People in Centre



Gujarat Institute of
Disaster Management

Expected Outcomes

1. The participants understand relevant variety of housing typologies in the region (traditional and conventional).
2. The participants know different materials, construction systems and contemplate on the relevance of the choice of materials to make hazard resistant houses.
3. Participants understand role artisans play by using available materials and help evolve the typologies in the region and its importance in adding hazard resistance to houses.

Prepare a list of materials used in houses you have built, lived or observed in the region.

1.

How strong you think these houses are, against possible hazards in the region?



Earthquake Flood



Tsunami Landslide



Cyclone Fire

2.

Is diversity in materials good or bad?

Advantage: Building with many materials reduces stress on a single material, and controls cost.

- Stone
- Brick
- Mud
- Cement
- Wood
- Steel
- Other materials

3.

Is it possible to make houses using all these materials **safe during natural hazards?**

1. Construction with **Cob Walls**





Cob walls with timber and mud flat roof - **Haryana**



Cob walls with thatch gabled roof - **Madhya Pradesh**



Cob walls with thatch roof over circular plan - **Gujarat**



Cob walls with thatch hipped roof - **West Bengal**



Cob walls with tiled hipped roof - **Chhattisgarh**

2. Construction with **Wattle and Daub Walls**





Wattle and daub walls with sheet hipped roof - **Kerala**



Wattle and daub walls with thatch hipped roof - **Arunachal Pradesh**



Wattle and daub walls with Mangalore tiles gabled roof - **Odisha**



Wattle and daub walls with Mangalore tiles hipped roof - **Maharashtra**



Wattle and daub walls with thatch roof - **Nagaland**



Wattle and daub walls with thatch/tilled hipped roof - **Jharkhand**

3. Construction with **Adobe Walls**





Adobe walls with thatch hipped roof
- **Sikkim**



Adobe walls with timber & mud flat roof - **Haryana**



Adobe walls with country tiles gabled roof - **Rajasthan**



Adobe walls with thatch hipped roof
- **West Bengal**



Adobe walls with timber & mud flat roof - **Himachal Pradesh**



Adobe walls with thatch gabled roof
- **Uttar Pradesh**

4. Construction with **Rubble Stone Walls**





Stone rubble masonry walls with CGI sheets gabled roof- **Jammu & Kashmir**



Stone rubble masonry walls with slate stone gabled roof- **Chhattisgarh**



Stone rubble masonry walls with CGI sheets gabled roof- **Himachal Pradesh**



Stone rubble masonry walls with thatch hipped roof- **Jharkhand**



Stone rubble masonry walls with mangalore tiles gabled roof- **Uttarakhand**



Stone rubble masonry walls with country tile flat roof- **Dadra and Nagar Haveli**

5. Construction with **Ashlar Stone Walls**





Ashlar Stone Walls with Mangalore tiles gabled roof- **Karnataka**



Ashlar Stone Walls with RCC flat roof- **Kerala**



Ashlar Stone Walls with country tiles hipped roof- **Chattisgarh**



Ashlar Stone Walls with Mangalore tiles hipped roof- **Goa**



Ashlar Stone Walls with CGI sheets hipped roof- **Himachal Pradesh**



Ashlar Stone Walls with shingle gable roof - **Jammu & Kashmir**

6. Construction with **Timber Walls**





Timber walls with timber gabled roof- **Uttarakhand**



Timber walls with thatch hipped roof- **Sikkim**



Timber walls with mangalore tiles hipped roof- **Kerala**



Timber walls with slate stone hipped roof- **Himachal Pradesh**



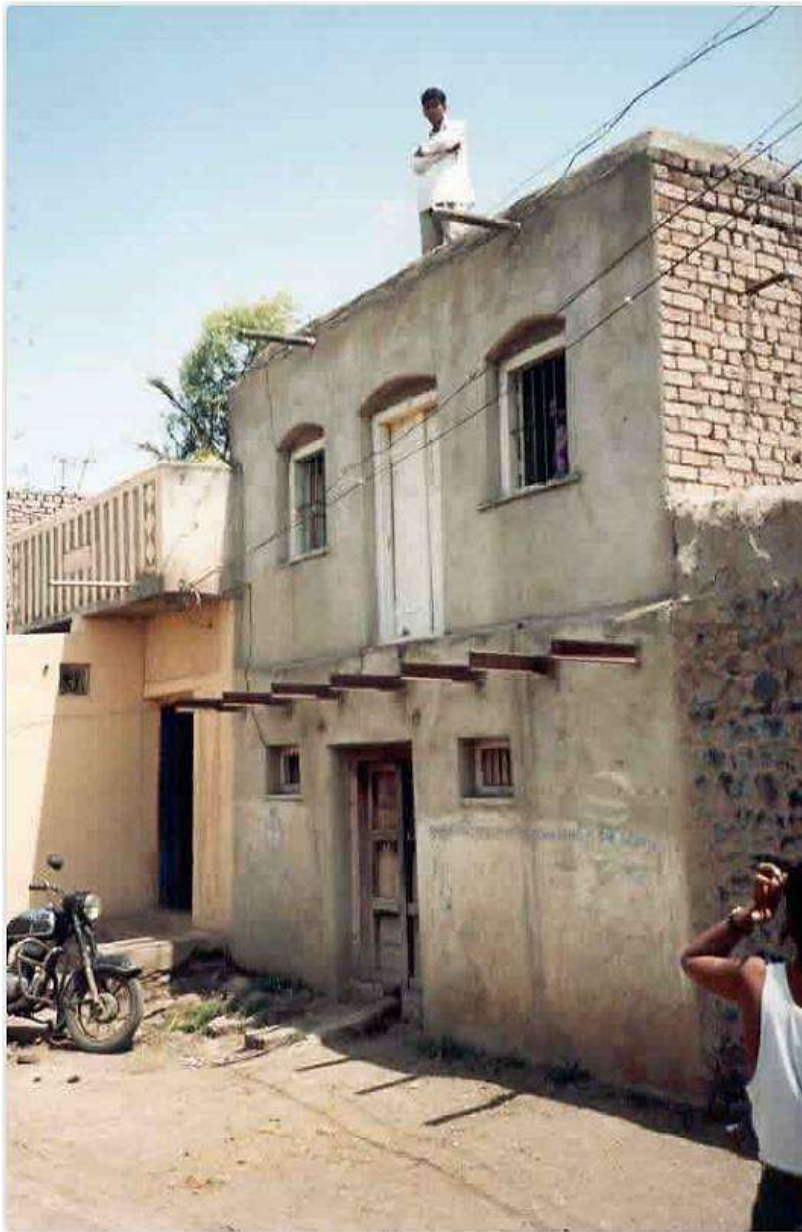
Timber walls with CGI sheets hipped roof- **Jammu & Kashmir**



Timber walls with CGI sheet hipped roof- **Sikkim**

7. Construction with **Burnt Brick Walls**





Burnt Brick walls with RCC flat roof- **Uttar Pradesh**



Burnt Brick walls with country tiles gabled roof- **West Bengal**



Burnt Brick walls with mangalore tiles gabled roof- **Tamil Nadu**



Burnt Brick walls with RCC flat roof- **Haryana**



Burnt Brick walls with CGI sheets gabled roof- **Meghalaya**

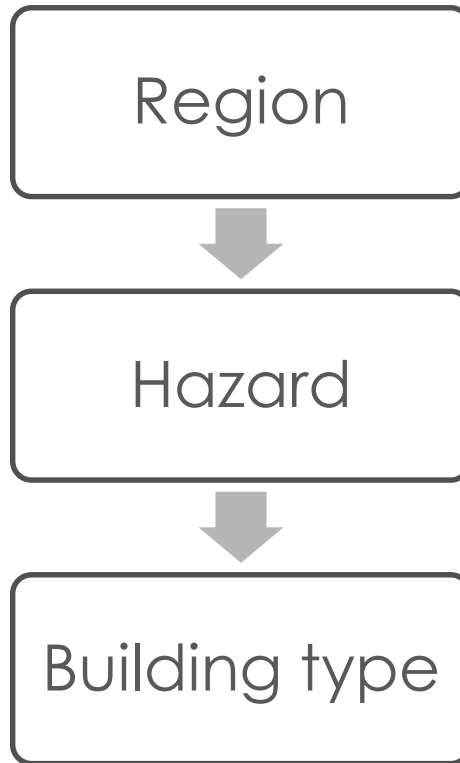


Burnt Brick walls
on with
cantilevered
RCC flat roof-
Assam



Burnt Brick walls
on stilts with
Thatch gabled
roof- **Arunachal
Pradesh**

What is the relationship between:



Why one finds specific types of houses in some regions?
(Eg. Ease of access to materials and skills)

Role of Artisans

To emphasize importance of the role of Masons as Guides to the society in constructing safer homes.



How will you gain people's **trust**?

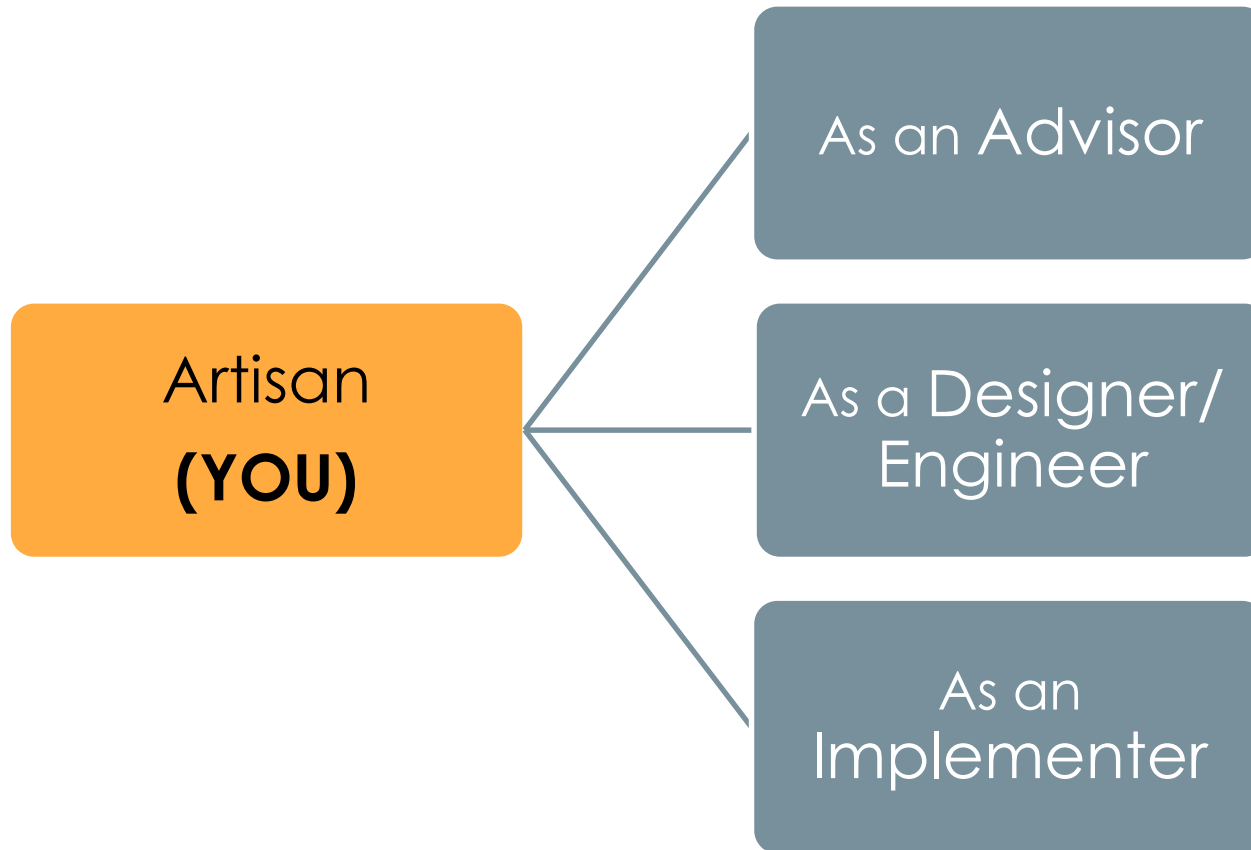
How will you **convince** people?

What do you think people **expect** you to do?

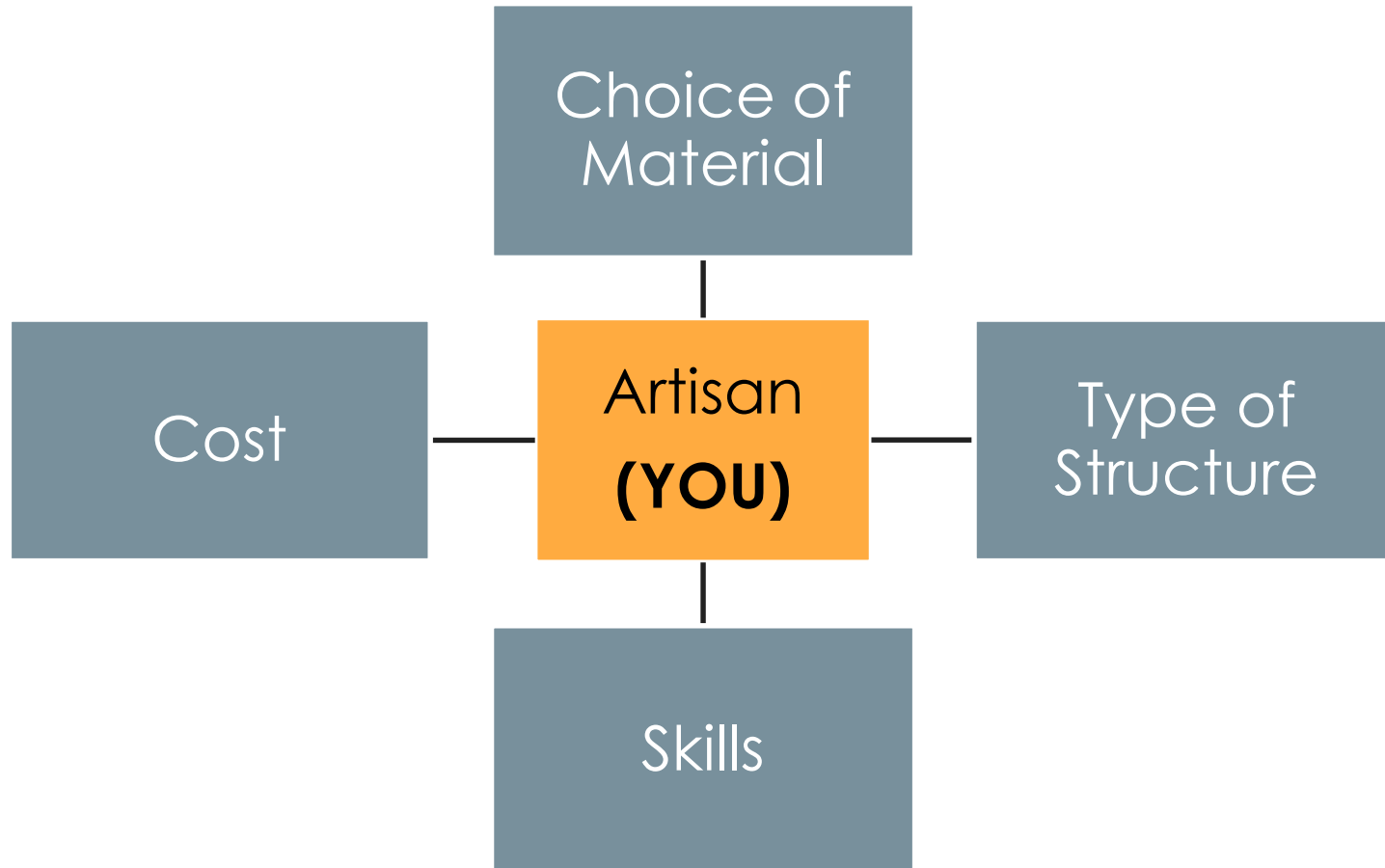
What do people **consider** your role to be?

Let's make a list of what people think you can do and influence.

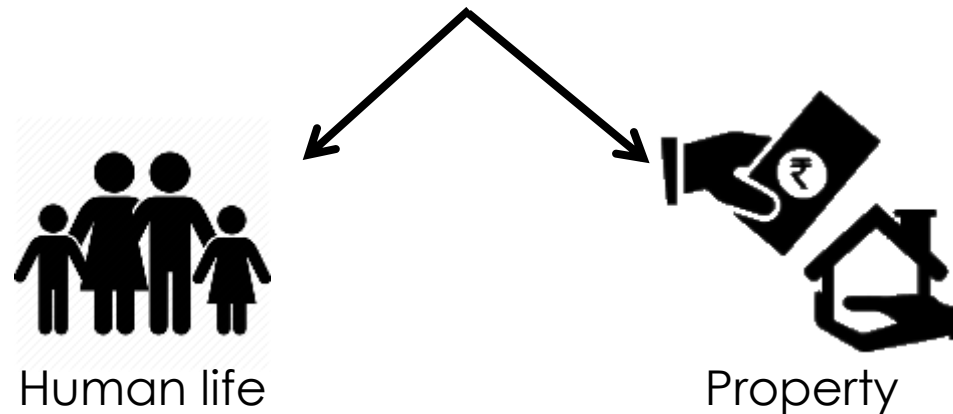
Discussion:



Discussion: Topics you should keep in mind while building with good quality construction for hazard resistance.



What is the risk of a Weak house on



Hence, **strong** and **resilient** houses are needed.

What makes a
house **strong**?

