S6 Design Tools for Resilient Residential Neighbourhoods

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Learning Objectives

At the end of this session, you will be able to:

1. **Compare** housing schemes taking account of different morphological and typological characteristics.

2. **Evaluate** the performance of dwelling communities taking into consideration the relation between social, economic and environmental factors.

3. **Formulate** a design hypothesis to develop an inclusive dwelling community based on incrementality, typology mix and clustering.

Design Tools for Resilient Residential neighbourhoods

-Nelson Mota

Design Tools for Resilient Residential neighbourhoods

Link for Video: https://youtu.be/ZH8Ncj3Zlgg

Incrementality
Typology Mix
Clustering

• **Incrementality:** how dwelling environments should be able to accommodate growth and change through time.

• **Typology Mix:** how design can be responsive to different patterns of inhabitation, aspirations and cultural backgrounds, creating inclusive dwelling environments.

• **Clustering:** what methods and strategies can shape the association of dwelling units in order to create meaningful communities.

Incrementality
Typology Mix
Clustering

- Case Study:

- **Aranya Township (India)**

- Designed by Balkrishna V. Doshi (Vastu-Shilpa Foundation)

- 1980s

Incrementality
**Typology Mix
Clustering**

- Case Study:

- **Aranya Township (India)**

- Scale: Cluster and Dwelling Unit

- Link: https://youtu.be/BlLh-sE-NB8

Incrementality
Typology Mix
Clustering

- Case Study:

- **Aranya Township (India)**

- Scale: Neighbourhood

- Link: https://youtu.be/_oIHdyqniMA

Incrementality
Typology Mix
Clustering

- Case Study:

- **Shushtar New Town (Iran)**

- Designed by Kamran Diba (DAZ Architects Planners & Engineers)

- 1972-85

Incrementality
Typology Mix
Clustering

- Case Study:

- **Shushtar New Town (Iran)**

- Scale: Neighbourhood

- Link: https://youtu.be/_AgdXrPRdjU

Incrementality

Typology Mix

Clustering

- Case Study:

- **Shushtar New Town (Iran)**

- Scale: Cluster and Dwelling Unit

- Link: https://youtu.be/BpA0pxxSRTI

Clustering

- Case Study:

- **Dar Lamane (Morocco)**

- Designed by Abderrahim Charai & Aziz Lazrak

- Completed 1983

**Incrementality
Typology Mix**
Clustering

- Case Study:

- **Dar Lamane (Morocco)**

- Scale: Neighbourhood

- Link: https://youtu.be/xDkO0NdmHkE

**Incrementality
Typology Mix**
Clustering

- Case Study:

- **Dar Lamane (Morocco)**

- Scale: Cluster and dwelling Unit

- Link: https://youtu.be/kn5muwLzTuw