Sustainable Urbanism – Cultural Perspectives

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Key Focus: Urban Design Approaches......

- Active Measures : Al Shamal
- Passive Design: Heart Of Doha
- The Indian Tradition - Ahmedabad

Abstract
Al Shamal

Net Zero Carbon City


Identity – FIFA 2022; N Tip of Qatar
Mixed Use – 40,000 people; Education + Tourism
High Density / High Ground Coverage
Strategic Connectivity / Public Transport
Tight Urban Grain
Open Space / Culture Specific

Delivery – Upfront infra-structure
Msheireb - Heart of Doha, Qatar
31 Hec; FAR 2.5

City Centre Regeneration; Core vs Sprawl
Identity: New City Centre Mixed use quarter
High Density / High Ground Coverage
Passive Design Principles
High Connectivity / Compact Urban Grain
  - Re-interpreting Cultural Urban Typologies
  - Shaded Streets & Public Spaces
  - Mixed land parking
Delivery – Upfront infra-structure

World Architecture Award 2012 – Future Project
& Masterplanning
Heart of Doha – On Site!
Ahmedabad Inner City
- Lessons from History c 1560 – present day

Socially regulated neighbourhood clusters
Economic Self-sufficiency
Accessibility – Amenities & Resources
Identity - Compact Urban Grain / High Ground Coverage / Landmarks
Streets, Squares & Courts
  - High Aspect Ratio
Building Fabric
  - Heavy Thermal Mass;
  - Light Insulating Facade materials
Local Supply Chains
Local Recycling

Ahmedabad – Urban Morphology
Thermal performance – Urban Fabric
Location: Bazaar Street

Thermal performance – Urban Fabric
Location: Community Street – North and South
Thermal performance – Urban Fabric
Location: Passage

Thermal performance – Urban Fabric
Location: Square
Thermal performance - Dwelling
Location: Roof

Thermal performance - Dwelling
Location: 3 FLR – South Gallery
Thermal performance - Dwelling
Location: GR FLR – West Inner Room

Thermal performance – Dwelling Court
Location: 2 FLR – South Court
Sustainable Urbanism: Cultural Perspectives

- Active - Passive Approaches; New Building Typologies
- Space between Buildings / Public Realm
- Local Knowledge / Supply Chains
- Indigenous Technologies
- Environmental / Social / Economic

History is Testimony!