

Sustainable Urban Design: An Environmental Approach

Environmental		Social		Economic	Cultural	
Ecology	Recourses and Energy	Land Use& Infrastructure	Environmentally compatible design	Urban Space	Economic Impact	Local community Cultural & Heritage
<ul style="list-style-type: none"> Demography Microclimate Ecology strategy and monitoring Landscape and Distribution of green spaces Heat Island reduction Desertification and Shading treatment 	<ul style="list-style-type: none"> Energy strategies & management Energy of building Infrastructure energy Natural & renewable resources, Solar, Wind & others Electrical power Saving energy Monitoring energy & performance 	<ul style="list-style-type: none"> Mixed Use Functions relationship Remediation Land Land use scheme Built environment Rehabilitation of urban areas Infrastructures network 	<ul style="list-style-type: none"> Comprehensive design & urban network Smart and preferred location Different facilities Universal design consideration Buildings environmentally compatible 	<ul style="list-style-type: none"> City public Spaces Open & enclosure spaces Utilities and facilities Activities & distances Community involvement opportunities Amenities provision Encourage health activities 	<ul style="list-style-type: none"> Economic impacts Economic viability 	<ul style="list-style-type: none"> Local community & Social inclusion Historical & Identity of cultural & heritage Cultural and natural assets use Conservation Social infrastructure formation Cultural practices
Water Quality	Air Quality and emissions	Materials management	Transportation / Mobility	Safety	Services	Business, Investment and Employment
<ul style="list-style-type: none"> Water quality consideration Building Water Efficiency drinking water Consumption Water pollution recirculation & treatment Rainwater management Water bodies 	<ul style="list-style-type: none"> Good air quality Acoustic and vibration environments Ventilation Urban Heat Reduction Carbon, CO2 emissions Heat exhaust 	<ul style="list-style-type: none"> Sustainable materials Local materials Materials selection according to the global environment consideration & health Reused and recycle materials Low-emitting materials 	<ul style="list-style-type: none"> Transport assessment Public transport Private Transportation Street Networks Pedestrian walkways Cars parking Cycling facilities Ecosystem networks Transportation systems capacity& demand 	<ul style="list-style-type: none"> Securing buildings Open spaces and street Safety of pedestrian areas Providing rapid and safe evacuation Crime prevention Secure & safe Communities 	<ul style="list-style-type: none"> Services delivery Services information systems Usability Proximity to services Entertainment equipment 	<ul style="list-style-type: none"> Personal skills Local industries Employability Life cycle costing
Waste Management	Hazards	Sustainable Buildings	Comfort outdoor areas	Operation, Conservation Long term	Governance & Community involvement.	Flexibility and Innovation
<ul style="list-style-type: none"> Waste Management classification, treatment & recycling Solid, Organic waste Wastewater management Hazardous waste management 	<ul style="list-style-type: none"> Hazards assessment & management Flood risk Earthquake Sand dunes Avalanche and collapse The risks of natural hazards & protection 	<ul style="list-style-type: none"> Sustainable buildings Reuse of existing buildings Construction products reduction Natural & mechanical ventilation Thermal comfort in buildings Acoustic Quality and daylight 	<ul style="list-style-type: none"> Light and noise pollution Reduction of vibration impacts Small impacts reduction Outdoor thermal comfort Strategies 	<ul style="list-style-type: none"> Conservation management for long-term Preservation of historical resources Urban preservation 	<ul style="list-style-type: none"> Consultation and engagement Community management of facilities Outreach and community participation Awareness of sustainability and Design review 	<ul style="list-style-type: none"> Intelligent Buildings Innovation and effective performance Flexibility of changing demand

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