

Smart Cities & Large Scale Projects

Smart Cities: Challenges & Creative Solutions to a more sustainable approach in designing large scale neighborhood or community projects

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Short Profile: Walid Bakhos is Senior Urban Planner and Architect at IBI Group. He has worked as a consultant for a number of International Organizations in the MENA region. He was part of the planning team in charge of the Lebanese National Master Plan. He contributed to SEA-Lebanon and to the National Environmental Action Plan of Lebanon. From 2009 to 2012 he worked on the New Master Plan for Damascus and its Vital Surrounding as Urban Planning Group Leader. He contributed to the Dubai State of Environment Report (SOER) leading the preparation of the chapter on “Built Environment”. He is currently Project Manager and Lead Urban Planner of the MODON Oasis project, several Industrial cities with Logistics and Technology Zones located in KSA. He holds a PhD in Spatial Planning focusing on the renewal of spatial planning in the context of globalization.

Definition / Benefits	Constraints / Challenges / Barriers
<ul style="list-style-type: none"> ✓ Effective integration of physical, digital and human systems in the built environment to deliver a sustainable, prosperous and inclusive future for its citizens. SOURCE: PAS 180:2014, 3.1.62 	<ul style="list-style-type: none"> ✓ Buzzword ✓ Danger to Privacy (surveillance, hacking, etc.) ✓ Works better in developed countries ✓ Requires strong infrastructure (Wi-Fi connection)
Best Practice / Solutions / Tools	Resources / Local Availability
<ul style="list-style-type: none"> ✓ Big Data ✓ Smart mobility / Driverless Cars ✓ Urban Metabolism ✓ Participation Approaches to Planning / 	<ul style="list-style-type: none"> ✓ Beirut Digital District in Bachoura ✓ Berytech – “B2i Bridge to Innovation” Initiative ✓ CES-MED - SEAP

<p>Geodesign</p> <ul style="list-style-type: none">✓ Masdar City - UAE✓ 100 Smart Cities initiative - India (Bhubaneswar)	
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