Green City

Seeing the Big Picture

Cities of Tomorrow New Thinking About Cities

December 7, 2016

Tbilisi, Ge

a presentation by

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Author and Regional Planner
Chicago, US

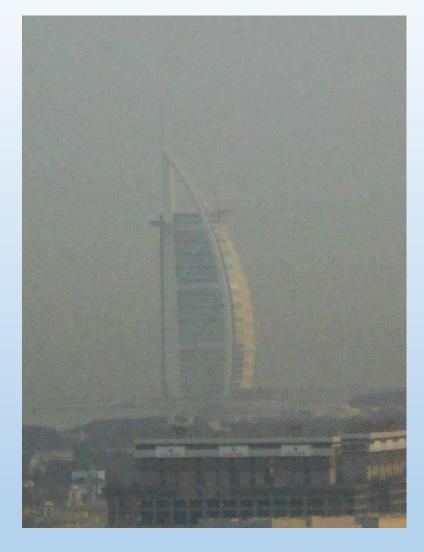


A Green City requires new thinking about Energy Water Transportation

The city will concentrate on

- alternative energy
- natural landscaping
- smart buildings
 - rooftop gardens
 - solar panels







Source: Masdar City

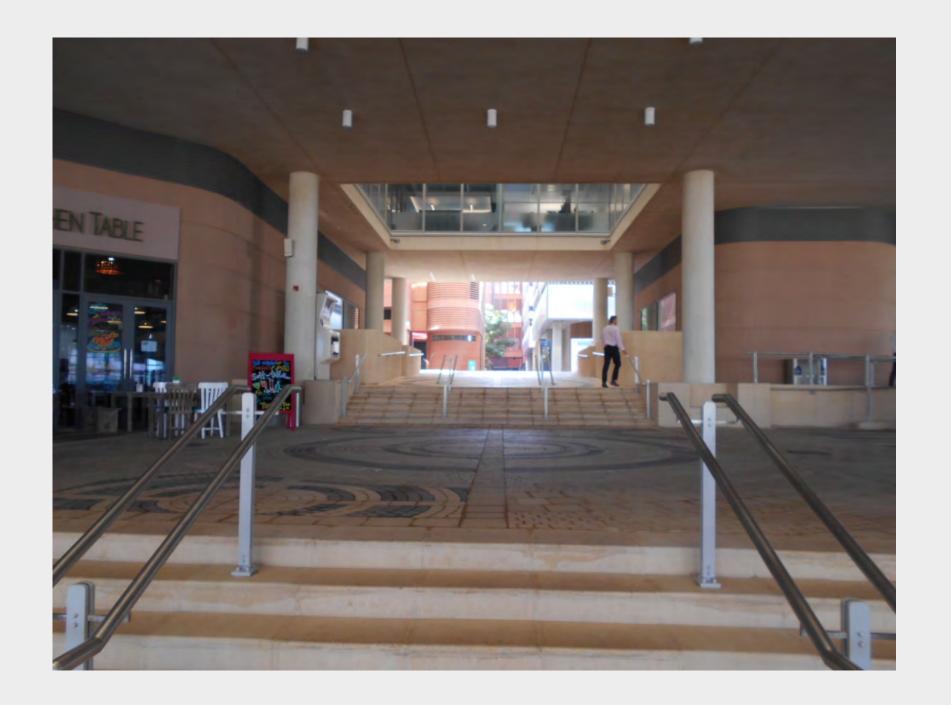


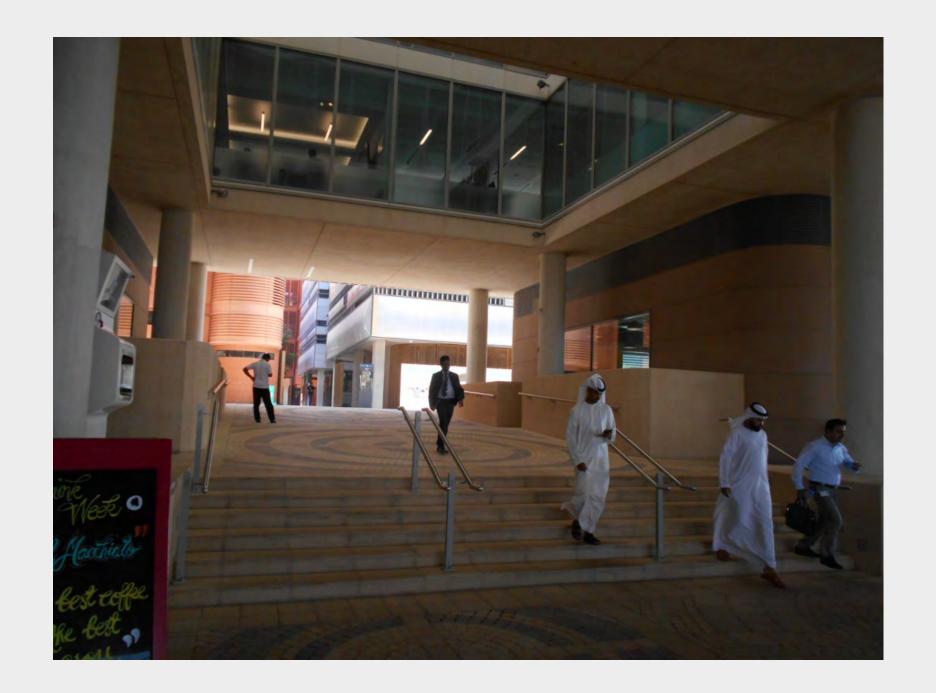


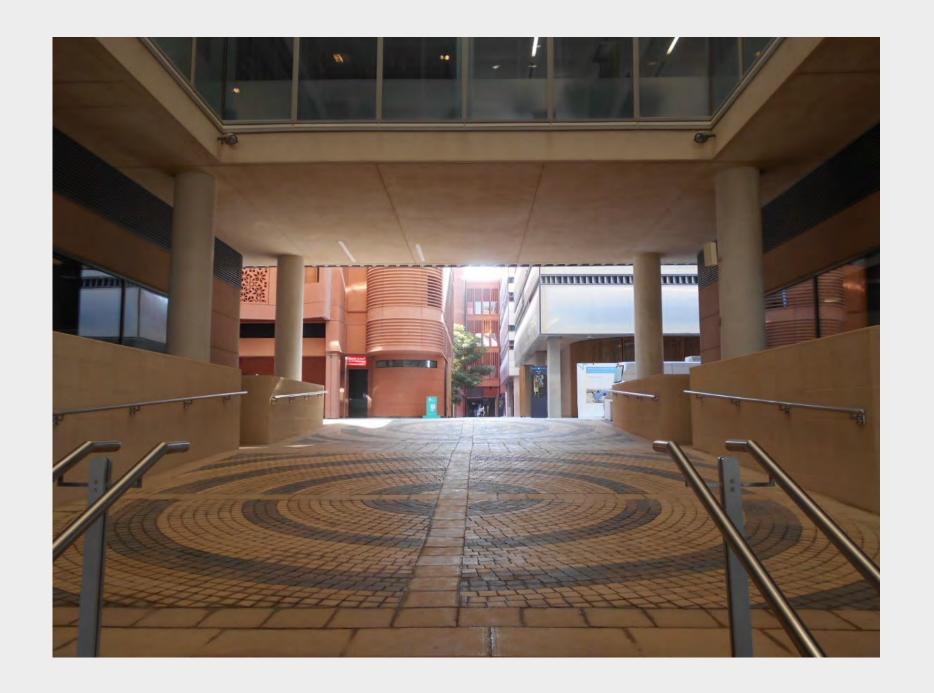


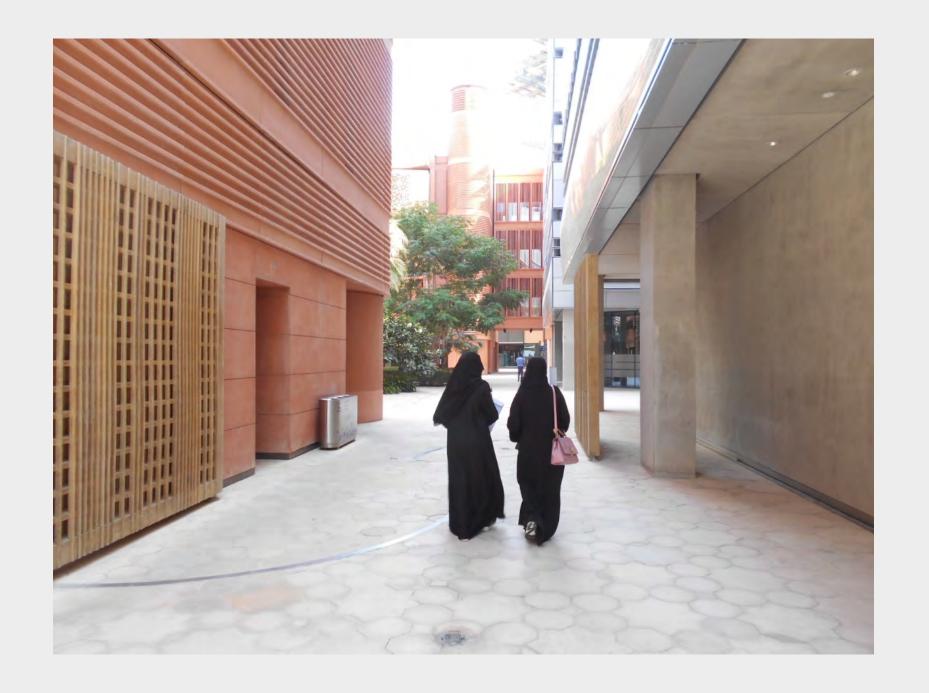


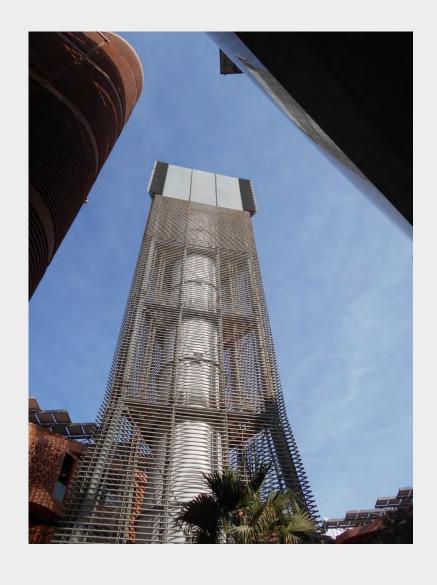


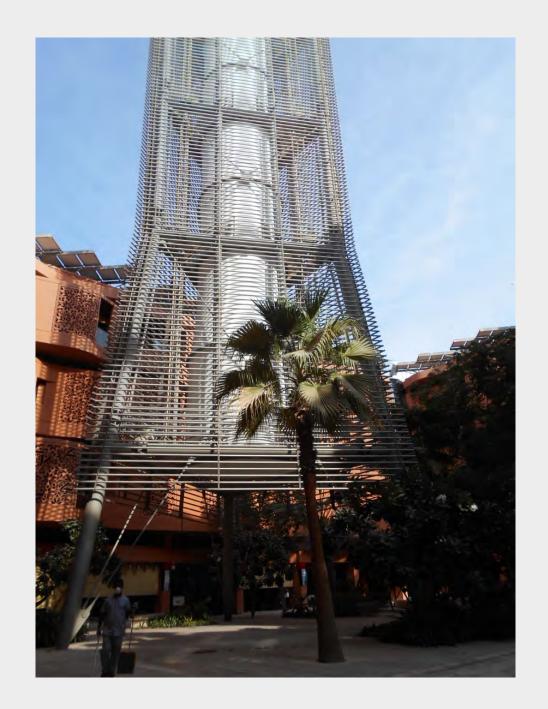


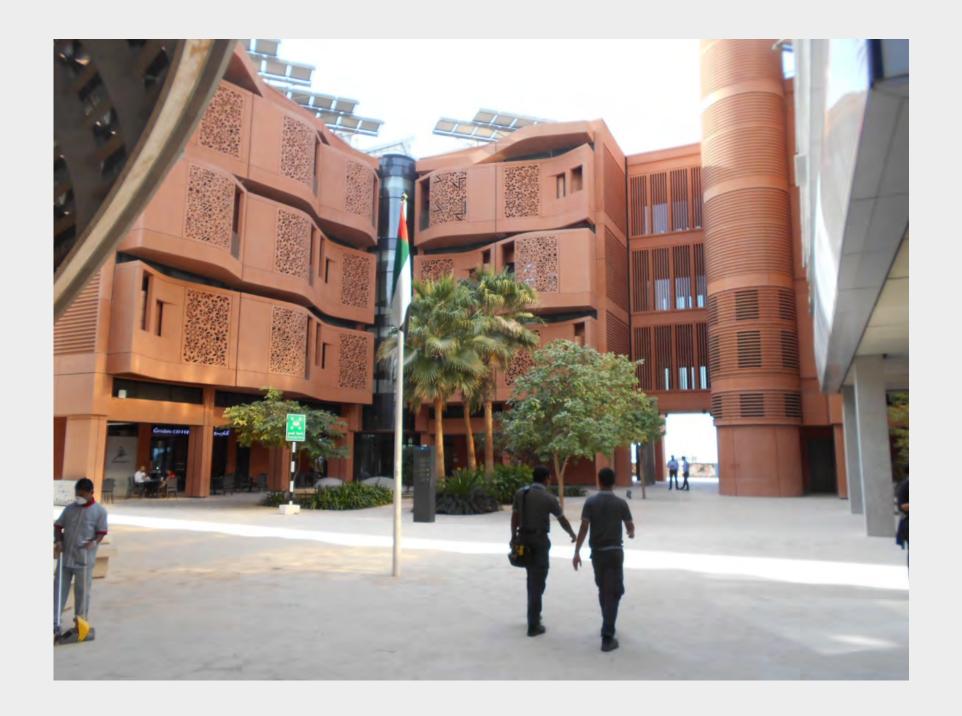


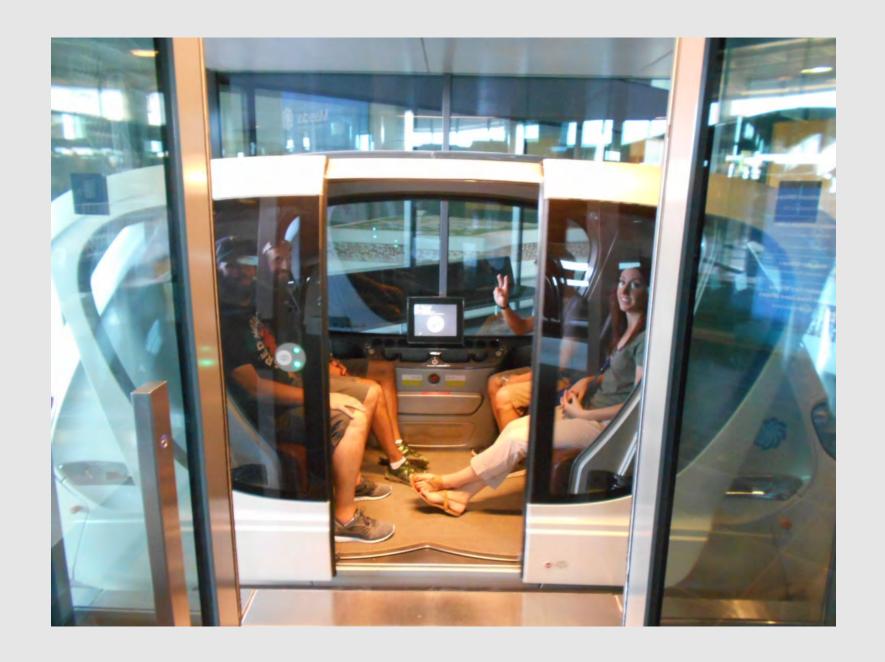


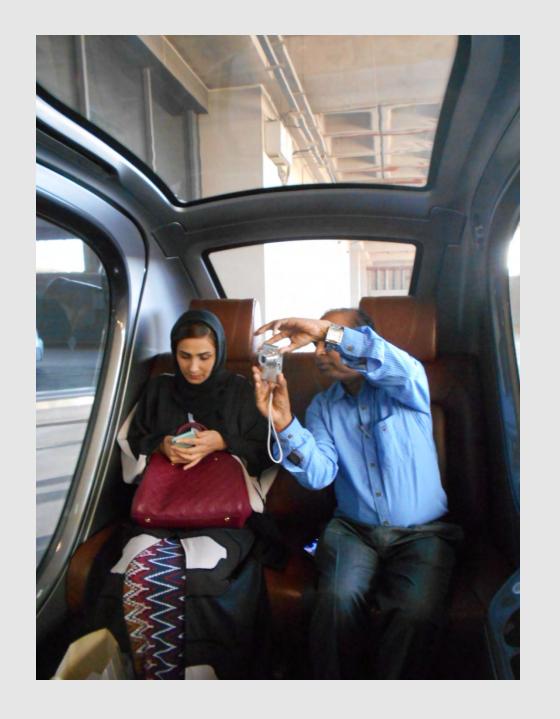


























A basis for a Green City

Good regional planning

Techniques we're working on

We have a long way to go...

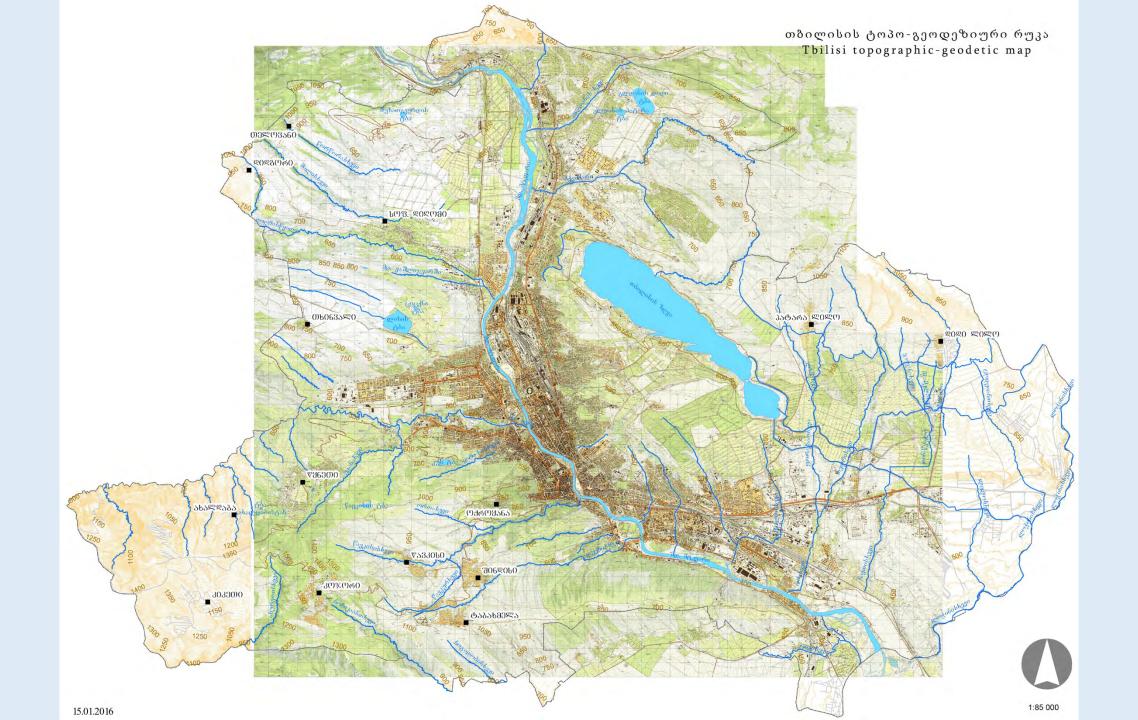
Where should the green stuff go?

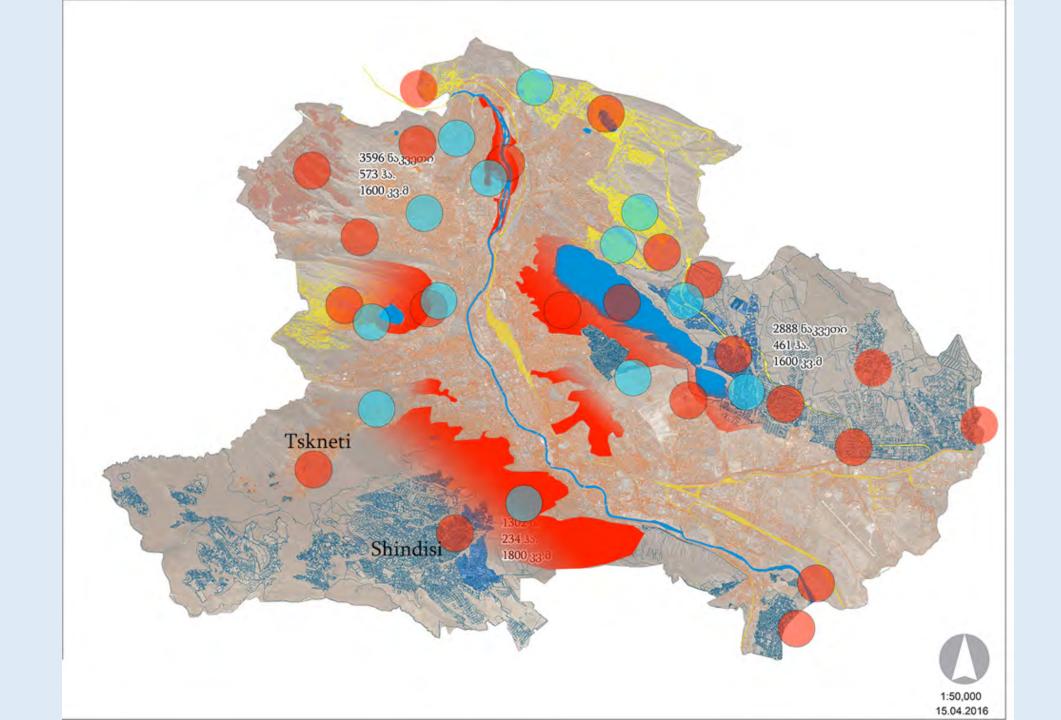
We need good planning –

Good urban form – for the whole city and region

For now and its future growth







Avoid sprawl

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because it causes
climate change
environmental degradation
fiscal distress
(and it's ugly...)
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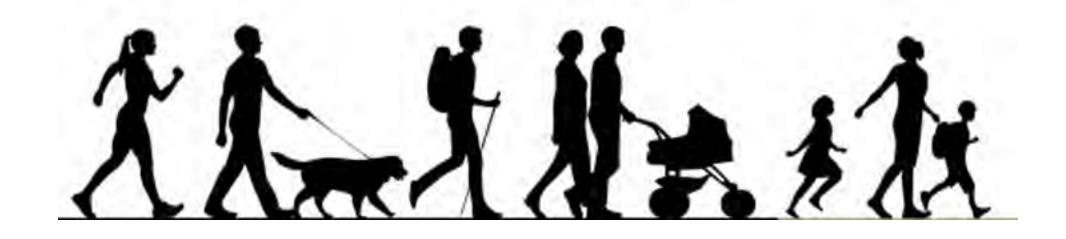
Develop the city

in a way that

has less impact on the environment and is more economically efficient

critical to get urban form right, from the beginning

because of a fundamental fact of nature... human nature



The 2-legged walking animal – the human being – is basis of a Green City

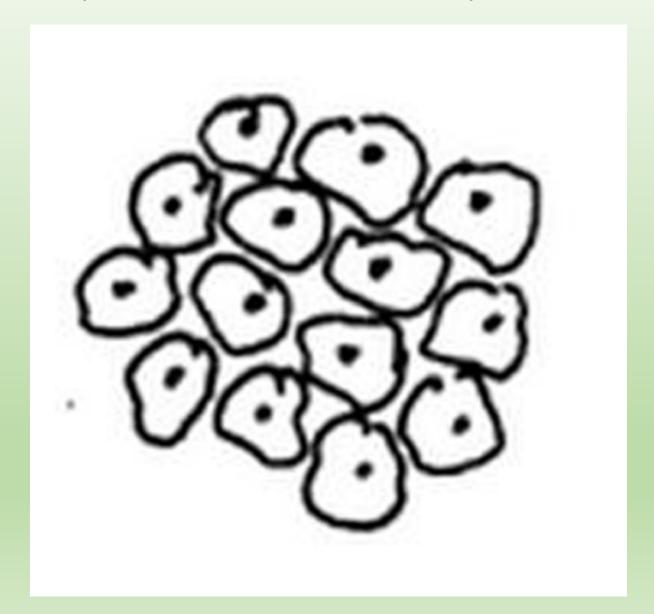


Walking is natural, it's green

The science of walking...

- 80 m/min or 1.33 m/sec.
- a simple circle of the same radius as the pedshed walk distance
- 5 minute walk is 400 m or ¼ mile and 10 min is 800 m or ½ mile.
- the actual area within a five minute and/or ten minute walk from the physical center of a neighbourhood or community

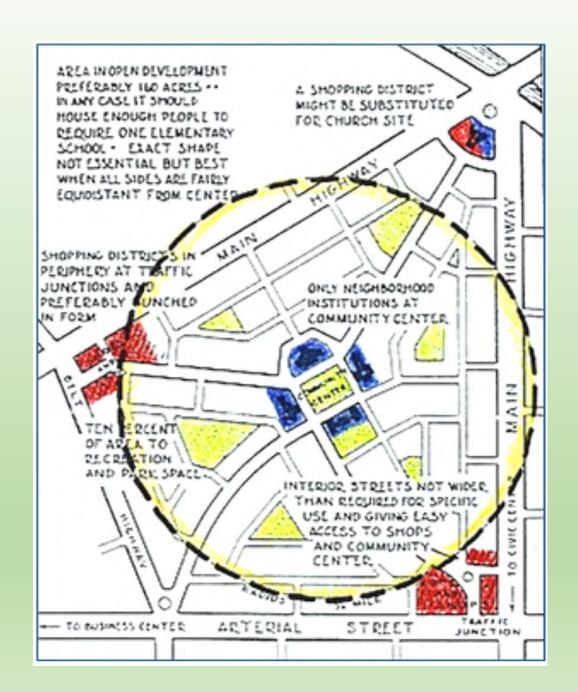
Kevin Lynch's cellular theory

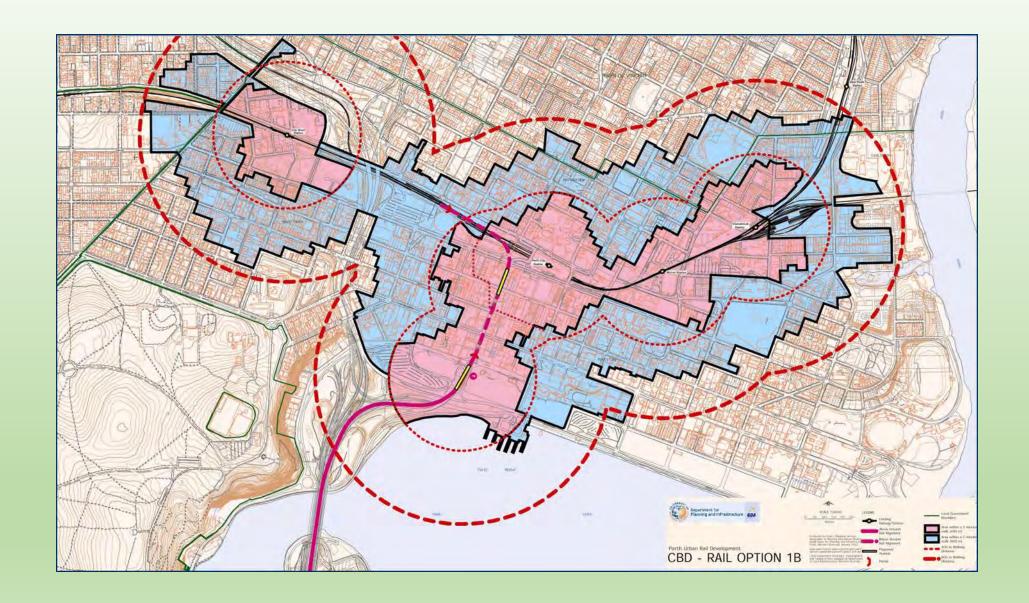


From A Theory of Good City Form (1981) by Kevin Lynch

Clarence Perry's neighborhood design

From Neighborhood and Community Planning (1929) by Clarence Perry

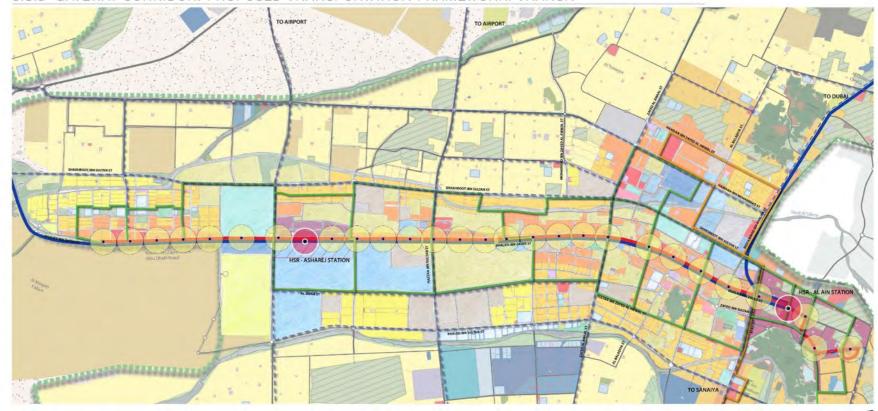




Urban Structure Framework Plans

Al Ain 2030 Urban Structure Framework Plan

6.1.3 GATEWAY CORRIDOR: PROPOSED TRANSPORTATION FRAMEWORK: TRANSIT



TRANSIT FRAMEWORK





Urban Structure Framework Plans

Al Ain 2030 Urban Structure Framework Plan

6.2.3 CBD: PROPOSED TRANSPORTATION FRAMEWORK: TRANSIT



Note: These plans represent themes to be refined in further planning and design. Land uses, street patterns, and exact alignments in all areas are conceptual, and to be subjected to detailed evaluation and confirmation. Under no circumstances should these plans be construed as final directives for specific sites or areas.



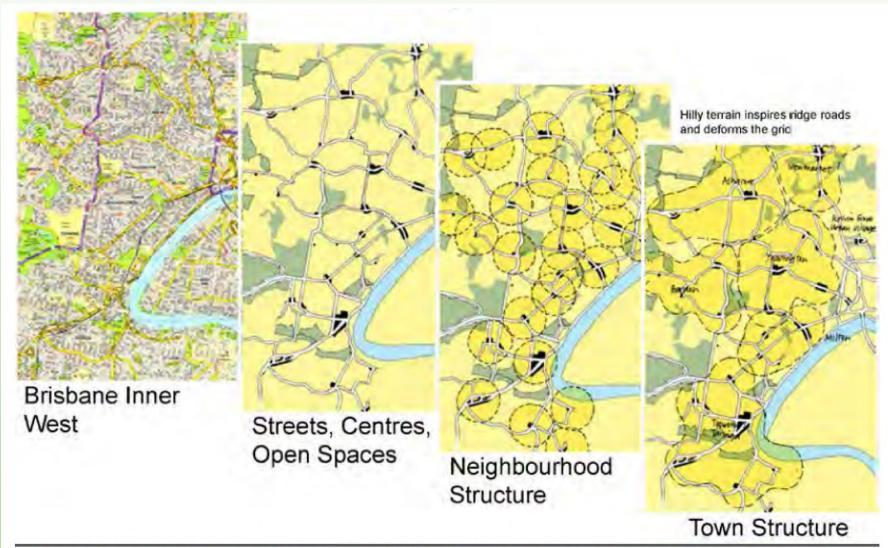
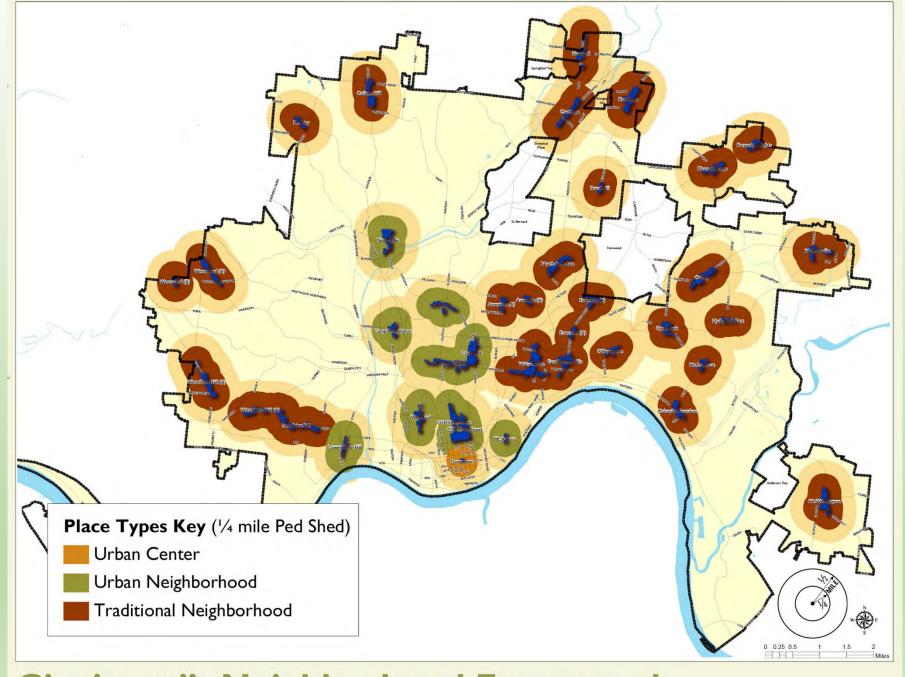
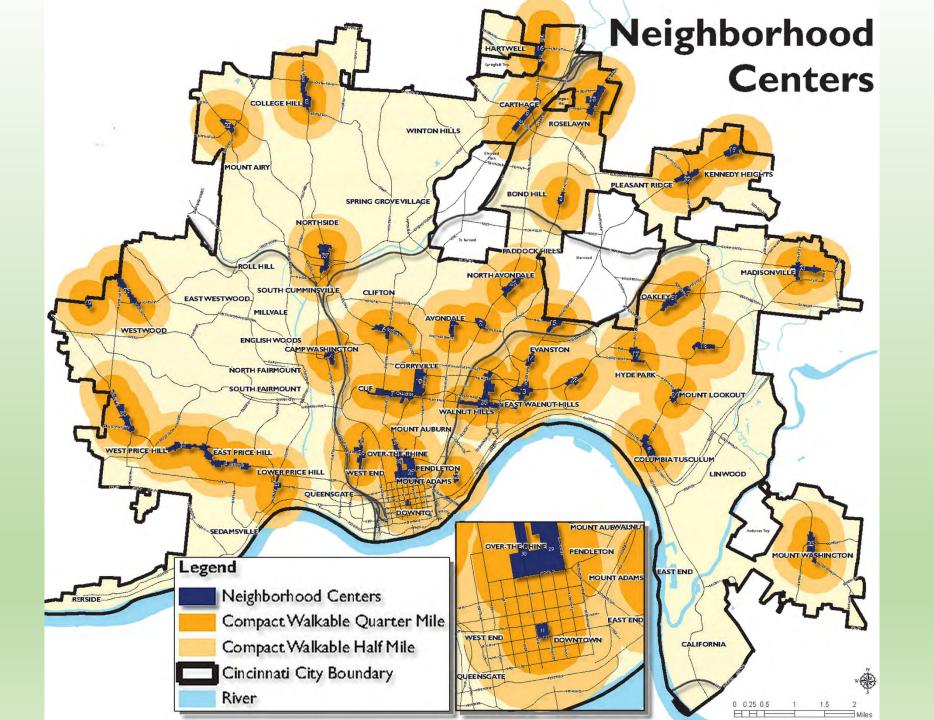
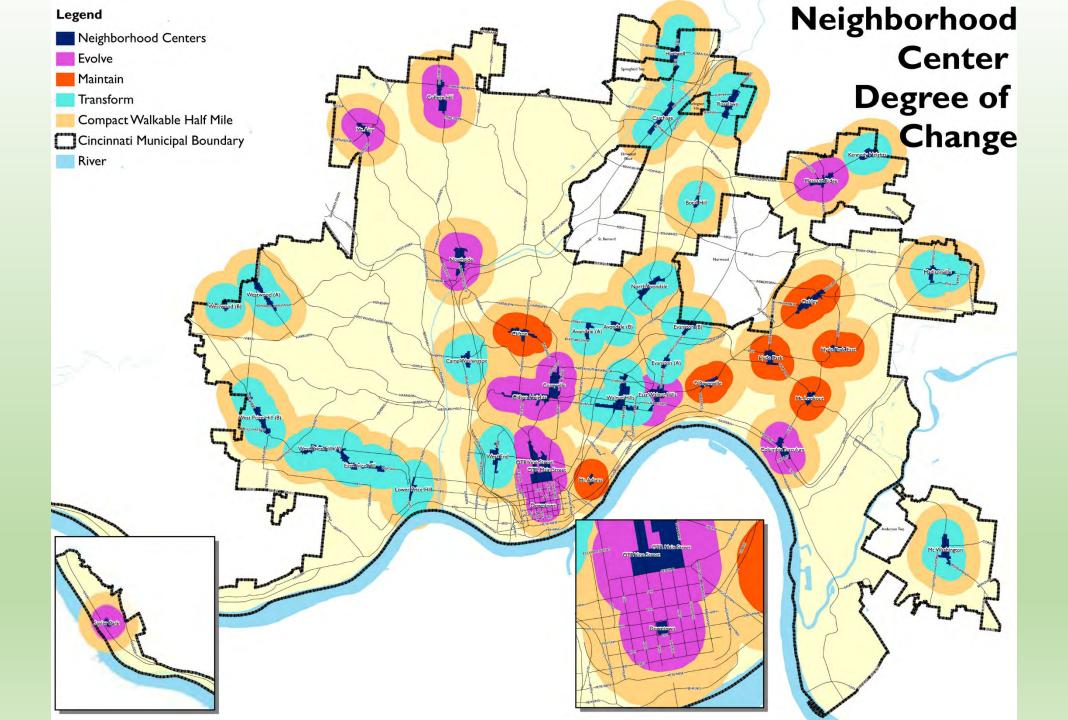


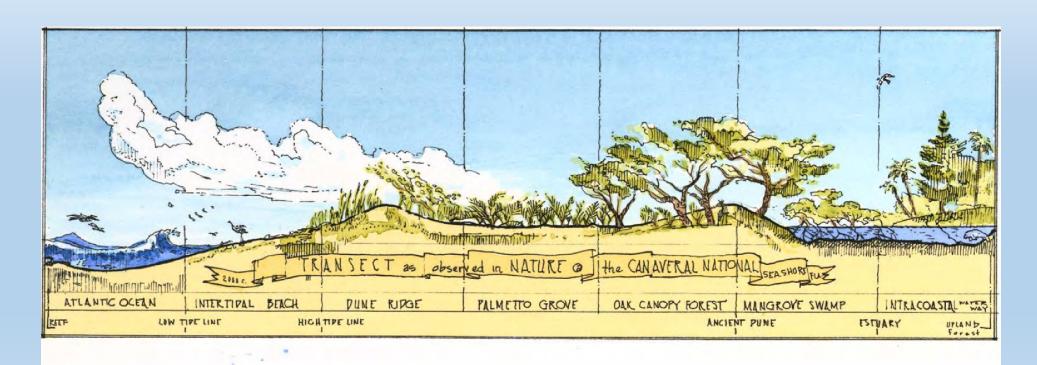
Figure 12: Applying the neighborhood principle to understand urban structure in Brisbane, Australia. Adapted from *Optimizing Urban Structure: Towards an Integrated New Urbanist Model* by Jones, 2009, p.9.



Cincinnati's Neighborhood Framework





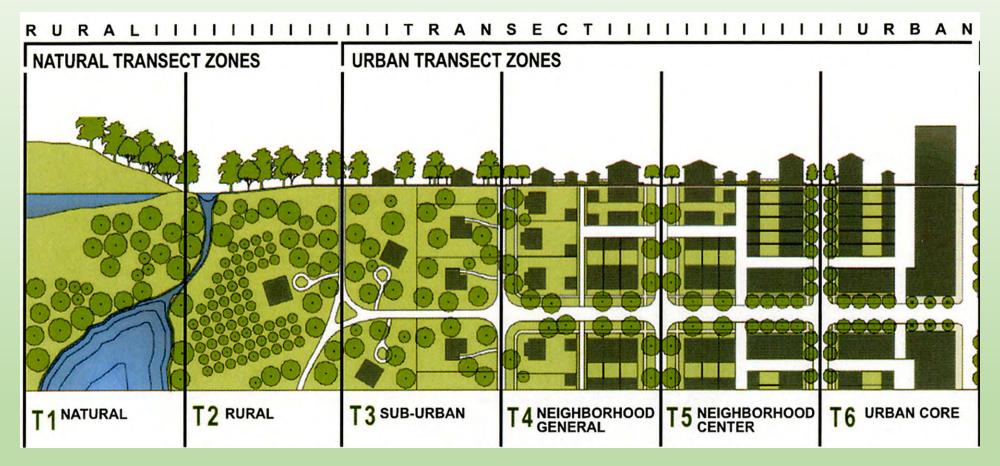


Title: A natural Transect Illustration

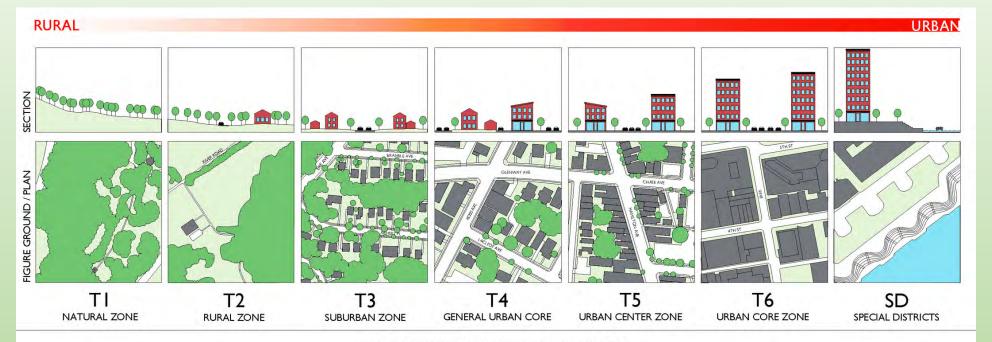
Source: James Wassell



Source: DPZ



Source: DPZ



THE CINCINNATI TRANSECT

glaserworks: Architecture & Urban Design

www.glaserworks.com

INTRODUCTION

Outline of the SmartCode

	ARTICLE 2 REGIONAL SCALE	ARTICLE 3 & ARTICL COMMUNITY SCALE		ARTICLE 5 BUILDING SCALI Standards
Open Lands	A. Sector Type O1 Preserved Open Sector	B. Community Type	C.Transect Zones	
		None	Natural Zone	
	O2 Reserved Open Sector	None	T2 Rural Zone	
New Development	G1 Restricted Growth Sector	CLD Clustered Land Development	T2 Rural Zone	-
			T3 Sub-Urban Zone	
			T4 General Urban Zone	
	G2 Controlled Growth Sector	CLD Clustered Land Development	T2 Rural Zone	-
			T3 Sub-Urban Zone	Building Disposition
			T4 General Urban Zone	istspostituu.
		TND Traditional Neighborhood	T3 Sub-Urban Zone	Building Configuration
		Development	T4 General Urban Zone	Building
			T5 Urban Center Zone	Function
	G3 Intended Growth Sector	TND Traditional Neighborhood	T3 Sub-Urban Zone	Parking and Density
		Development	T4 General Urban Zone	
			T5 Urban Center Zone	Parking Location Standards
		RCD Regional Center	T4 General Urban Zone	-
		Development	Urban Center Zone	Landscape Standards
			T6 Urban Core	Signage Standards
Existing Development	G4 Infill Growth Sector	TND Traditional Neighborhood	T3 Sub-Urban Zone	
		Development	T4 General Urban Zone	
			T5 Urban Center Zone	
		RCD Regional	General Urban Zone	3
		Development	T5 Urban Center Zone	
			T6 Urban Core	
Other			CB Civic Building	
			CS Civic Space	
	l,	SD Special District	SD Special District	- Warrants & Variances
		Distiller	J. J	

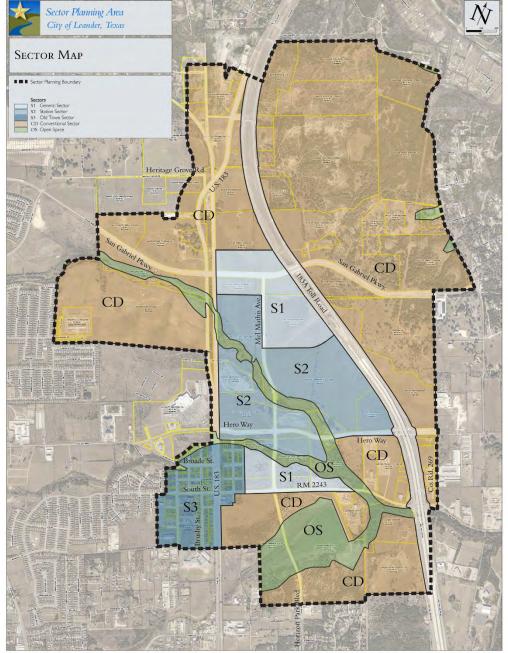
Source: SmartCode v9.2

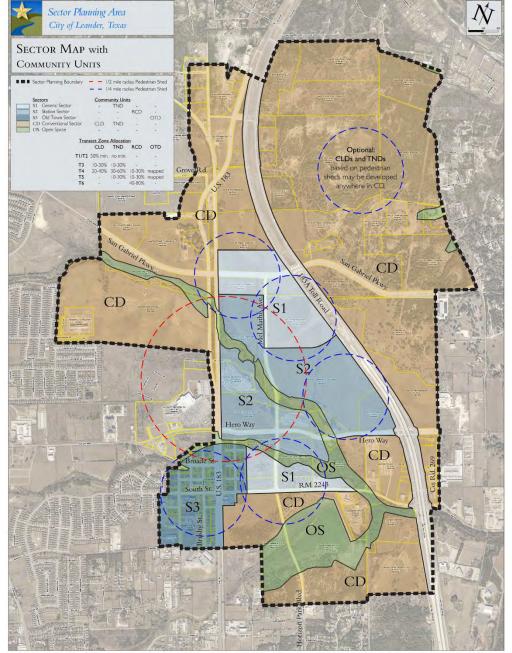
SMARTCODE VERSION 9.2

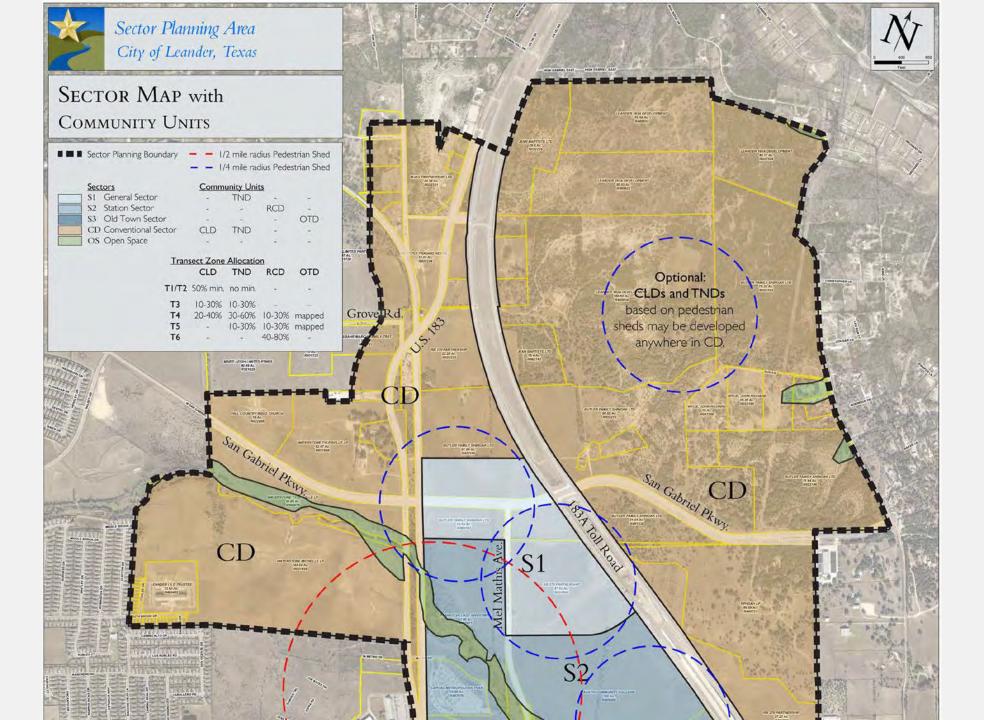
Outline of the SmartCode

	ARTICLE 2 REGIONAL SCALE	ARTICLE 3 & ARTICLE 4 COMMUNITY SCALE PLANS		ARTICLE 5 BUILDING SCALE	
	A. Sector Type	B. Community Type	C.Transect Zones	Standards	
Open Lands	O1 Preserved Open Sector	None	T1 Natural Zone		
	O2 Reserved Open Sector	None	T2 Rural Zone		
New Development	G1 Restricted Growth Sector	CLD Clustered Land Development	T2 Rural Zone	-	
			Sub-Urban Zone		
			General Urban Zone		
	G2 Controlled Growth Sector	CLD Clustered Land Development	T2 Rural Zone	-	
			T3 Sub-Urban Zone	Building	
			T4 General Urban Zone	Disposition	
		TND Traditional Neighborhood	T3 Sub-Urban Zone	Building Configuration	
		Development	General Urban Zone		
			Urban Center Zone	Building Function	

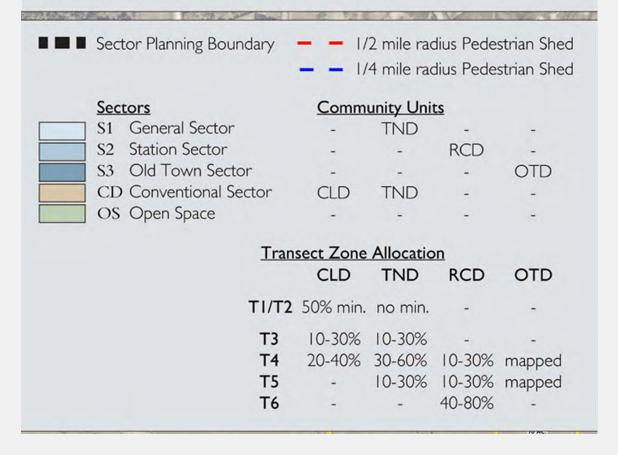
	Growth Sector	TND Traditional Neighborhood Development	T3 Sub-Urban Zone T4 General Urban Zone	Parking and Density
g			Urban Center Zone	Parking Location Standards
		RCD Regional Center	General Urban Zone	-
		Development	Urban Center Zone	Landscape Standards
			T6 Urban Core Zone	Signage Standards
	G4 Infill Growth Sector	TND Traditional Neighborhood	T3 Sub-Urban Zone	
Development		Development	General Urban Zone	
			T5 Urban Center Zone	
		RCD Regional Center	T4 General Urban Zone	-
		Development	T5 Urban Center Zone	
			T6 Urban Core Zone	
Other			CB Civic Building	
			CS Civic Space	
		SD Special District	SD Special District	Warrants & Variances

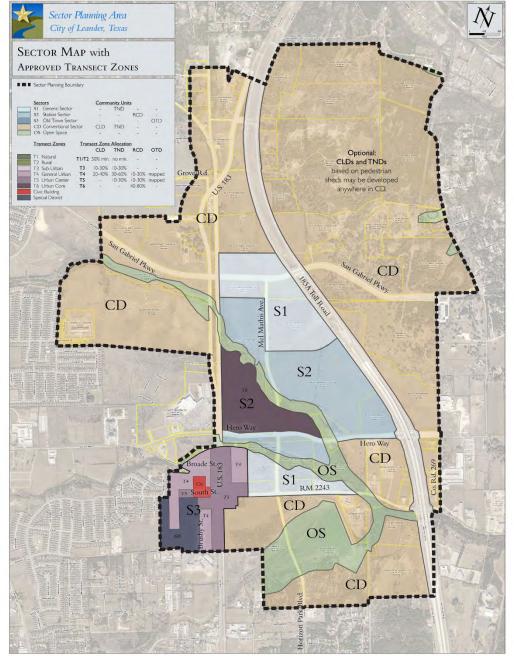


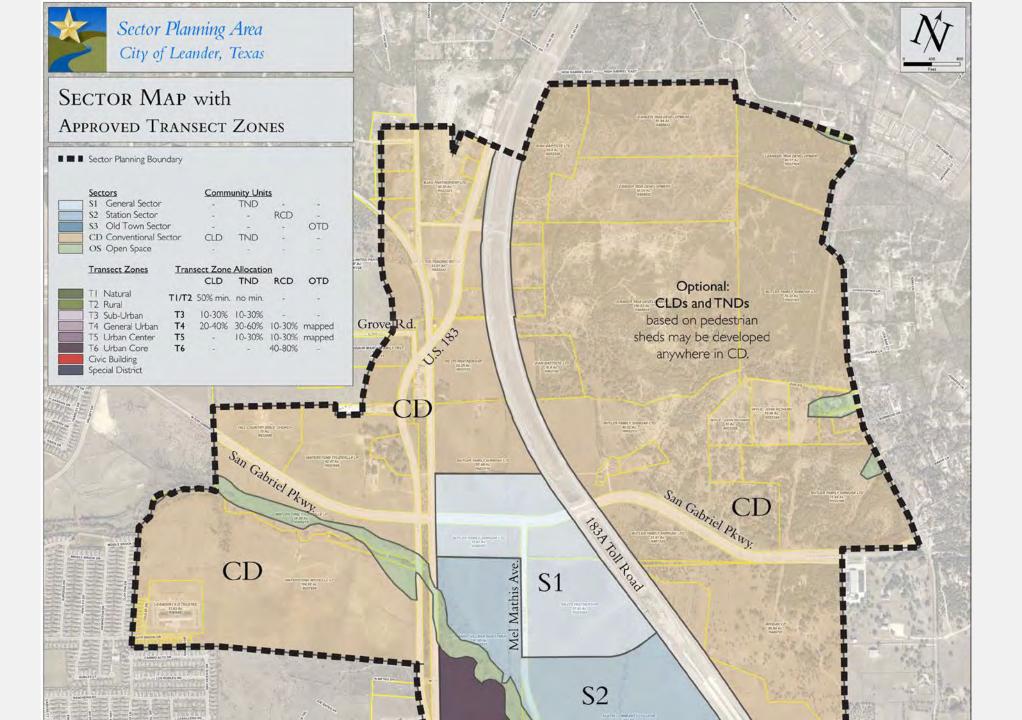




SECTOR MAP with Community Units





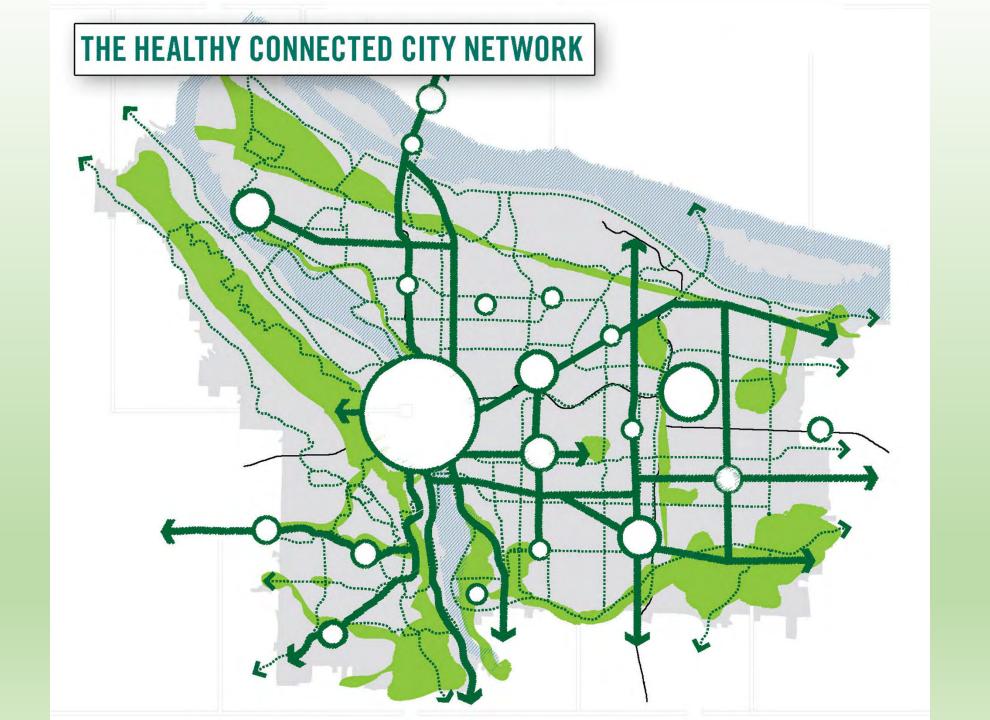


SECTOR MAP with Approved Transect Zones

■ ■ Sector Planning Boundary

Sectors S1 General Sector S2 Station Sector S3 Old Town Sector CD Conventional Sector OS Open Space		Commo	unity Unity Unity TND TND - TND -	rcd RCD - - -	- - OTD - -
Transect Zones	Trans	sect Zone CLD	Allocatio TND	n RCD	OTD
T1 Natural T2 Rural	TI/T2	50% min.	no min.	-	-
T3 Sub-Urban	T3	10-30%	10-30%	-	-
T4 General Urban	T4	20-40%	30-60%	10-30%	mapped
T5 Urban Center	T5	-	10-30%	10-30%	mapped
T6 Urban Core	T6	-	-	40-80%	-

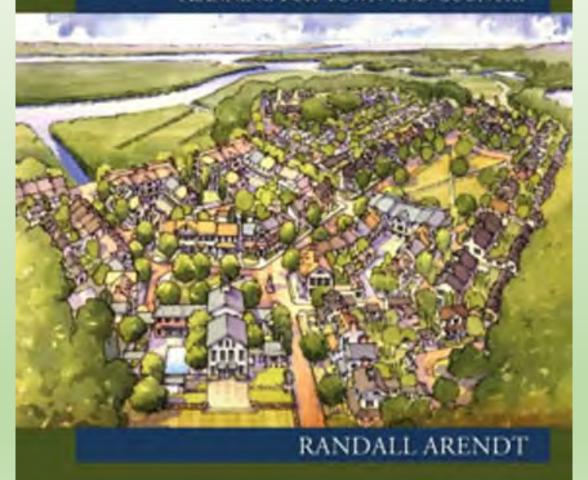
AKANDA: PLAN DE SECTEURS Aire protégée Zone tampon du parc national Plan de secteurs 0-1: Zone préservée O-2: Zone à réserver G-1 : Zone de croissance limitée G-1: Zone de croissance limitée G-2: Zone de croissance maîtrisée G-3: Zone de croissance souhaitée G-4: Zone de crossance existante Schéma Directeur O-1 : Zone préservée Eivigues. Centres urbains Zones urbaines Bordures urbaines Espaces verts Equipement sportif lardins maraichers 2 : Zone de trassance maîtrisée O-2 : Zone à réserver - INC vue airienne de Libreville. - Prince's Foundation/ANPN/ANGT : G-2 : Zone de proposition de zonage - ANPN: limites d'aires protégées croissance maîtrisée 13UNL03-000-04-EAL-4554, rev 004 G-2 : Zone de Code projet: NL03 Date: 20/05/2015 croissance maîtrisée Préparé par: CNG O-1 : Zone préservée Valide par: VOT Approuvé par: 500 G-1 : Zone de Système de coordonnées Projection: GTM2010 G-3 : Zone de croissance limitée Datum horizontal: WGS84 Datum vertical: NA 1/20000 Limite du G-4 : Zone de croissance existante Schéma Directeur



Second Edition

RURAL BY DESIGN

PLANNING FOR TOWN AND COUNTRY



Remember

Planning costs about .1% of the cost of development Keep up the good work of planning!

Thank you!



