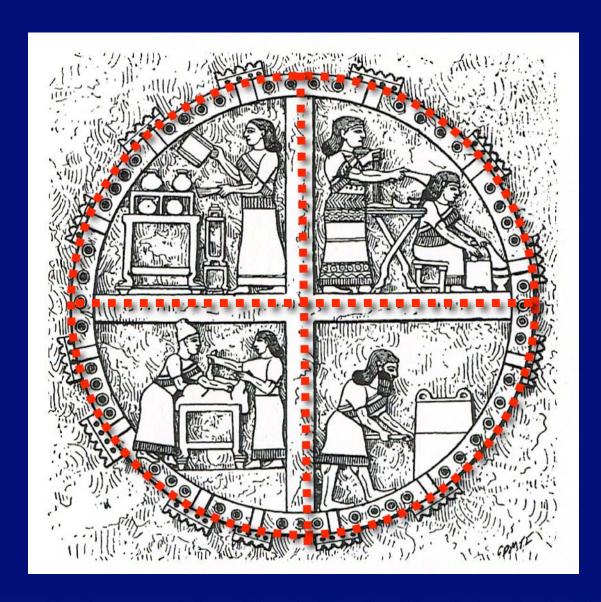
THE "ARK MODULE"

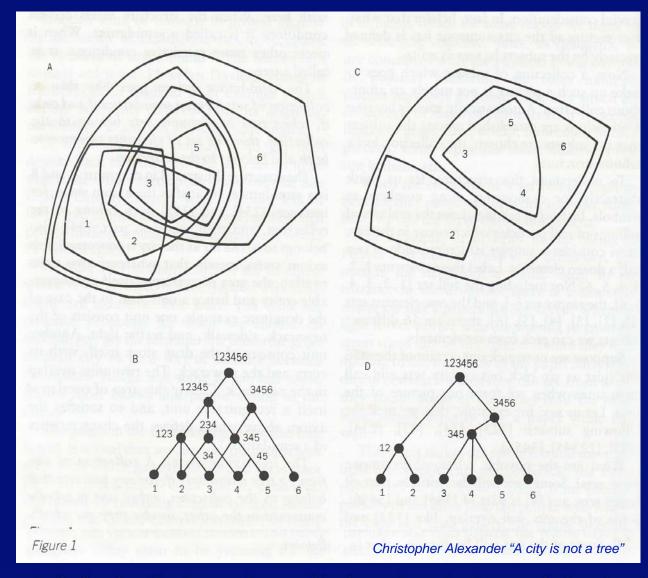


Jaime Correa

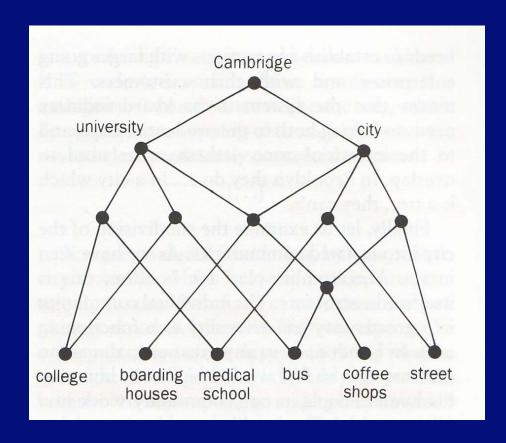
University of Miami and Jaime Correa and Associates

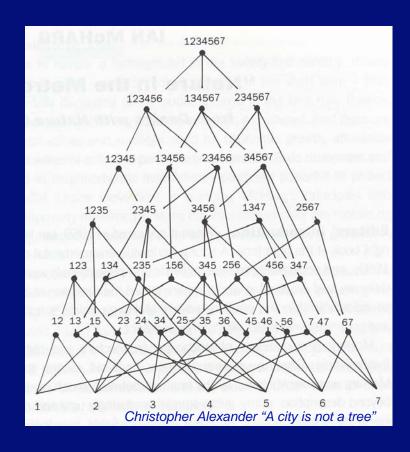


The most basic representation of the city (Egyptian Hieroglyph + Asyrian Figures)
Non-linear archetypal image of the city (**Art and Science**)



The mind's first function is to reduce ambiguity and overlap in a confusing situation

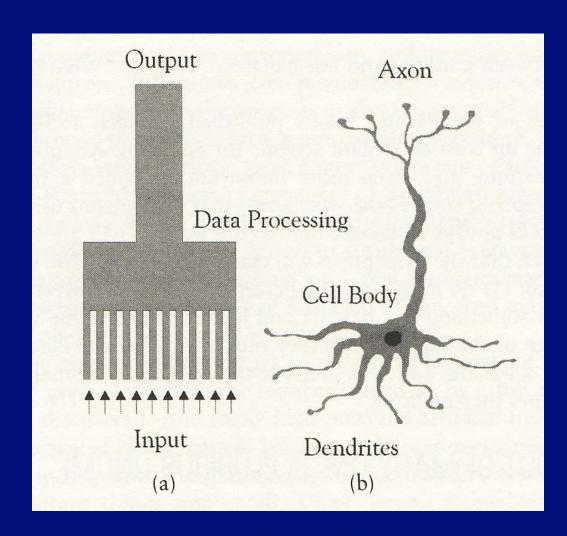




For the human mind, the tree is the easiest vehicle for complex thought.

But the City is not, cannot, and must not be a tree.

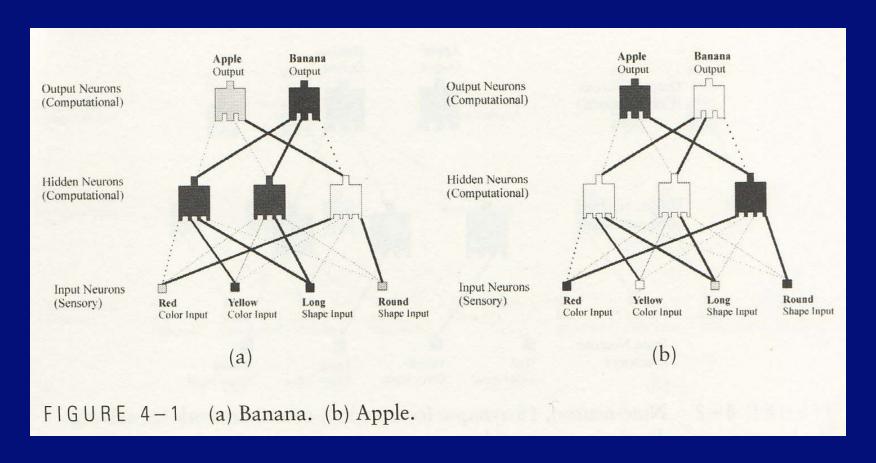
THE CITY IS A RECEPTACLE OF LIFE ... A RECEPTACLE OF WHOLENESS



The retina is not really a "part" of the eye at all.

It is organized not merely to gain light but to intelligently process visual data.

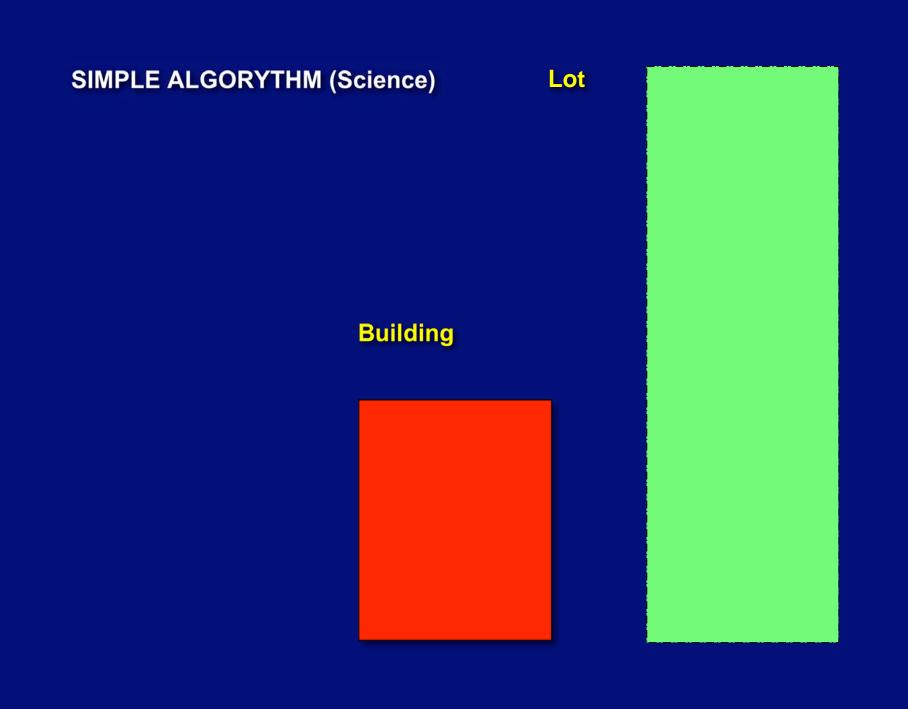
THE RETINA IS A DISCRIMINATOR AND A CLASSIFIER.

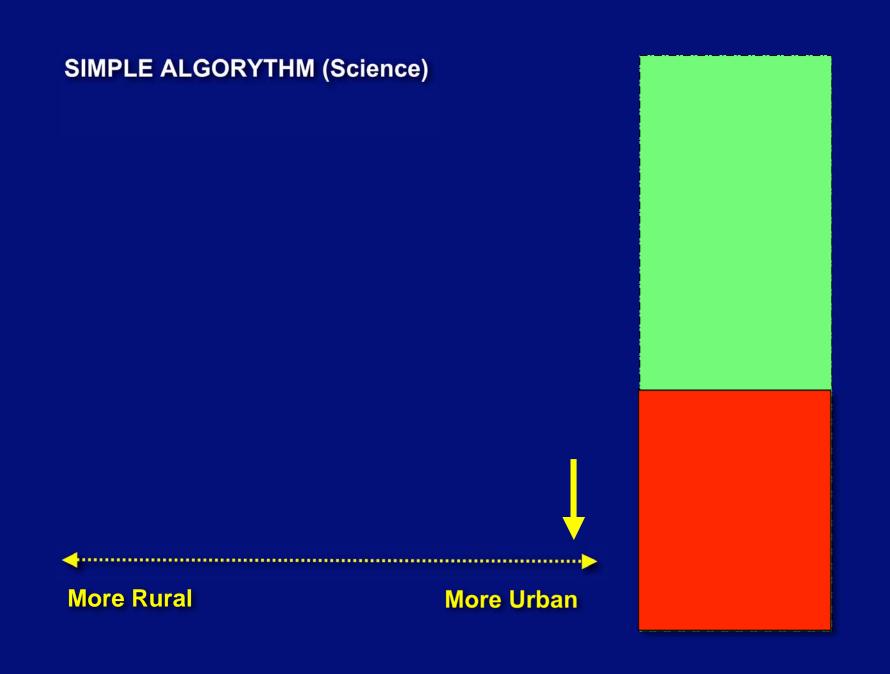


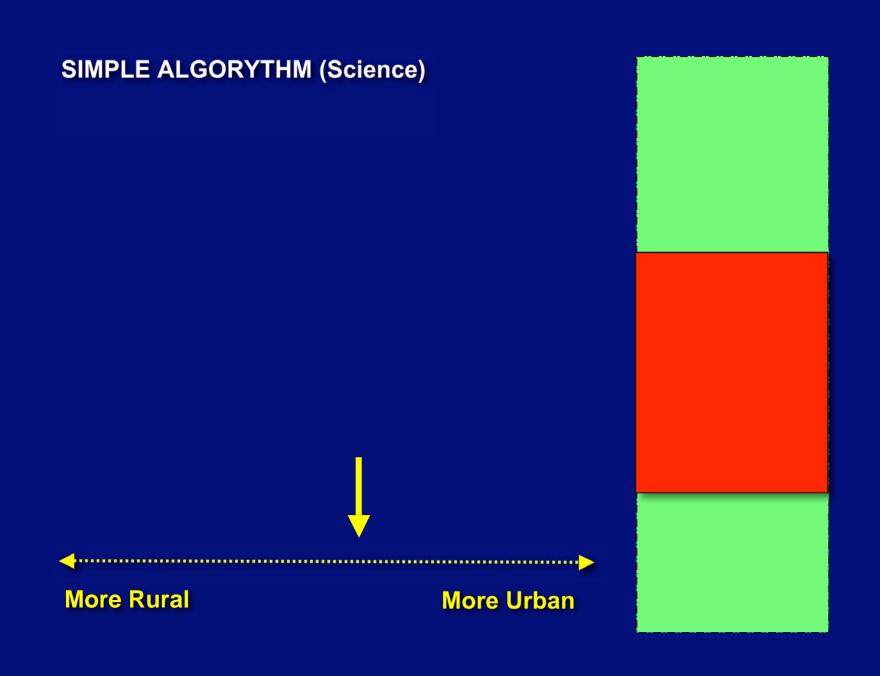
A multilayer Perceptron discriminating between a BANANA and an APPLE.

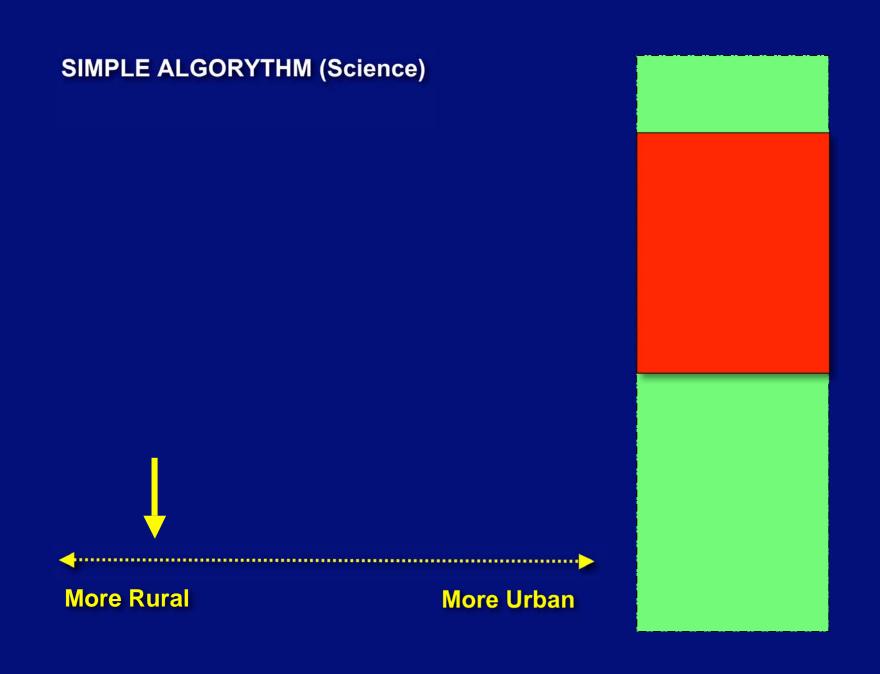
The person who builds the system decides the connections and the relationships.

ALGORYTHMS OF COMBINATIONS AND PERMUTATIONS CREATE EMERGING TYPOLOGIES.











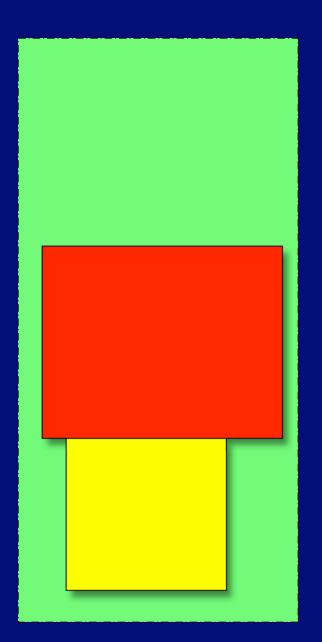
SIMPLE ALGORYTHM (Science)

Lot +

House +

Garage = Townhouse



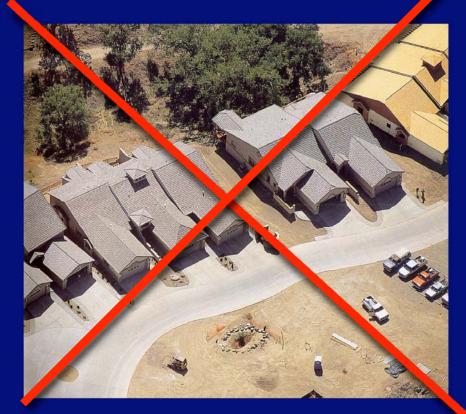


SIMPLE ALGORYTHM (Science)

Lot +

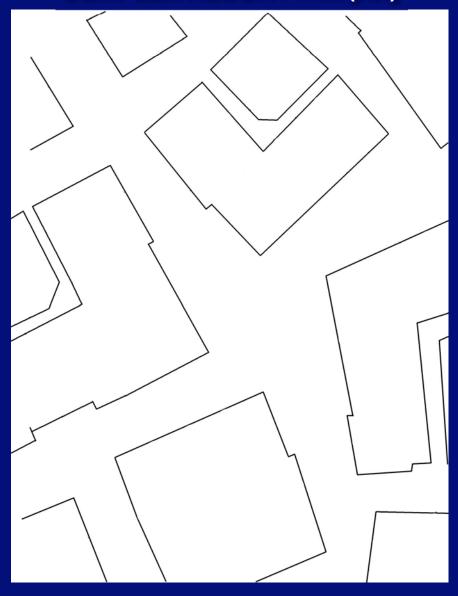
House +

Garage = Snout House

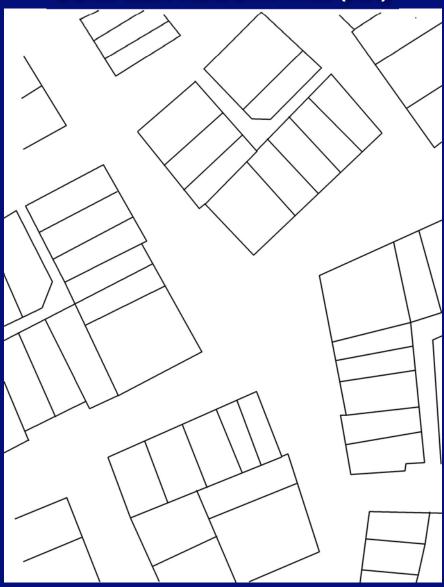


Not every combination will result in something agreeable or correct!

Blocks



Lots



Sidewalks



Buildings



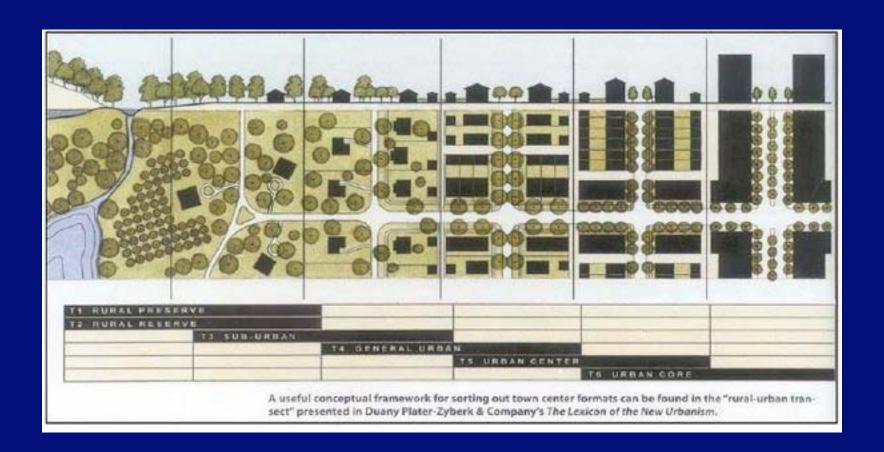
Encroachments



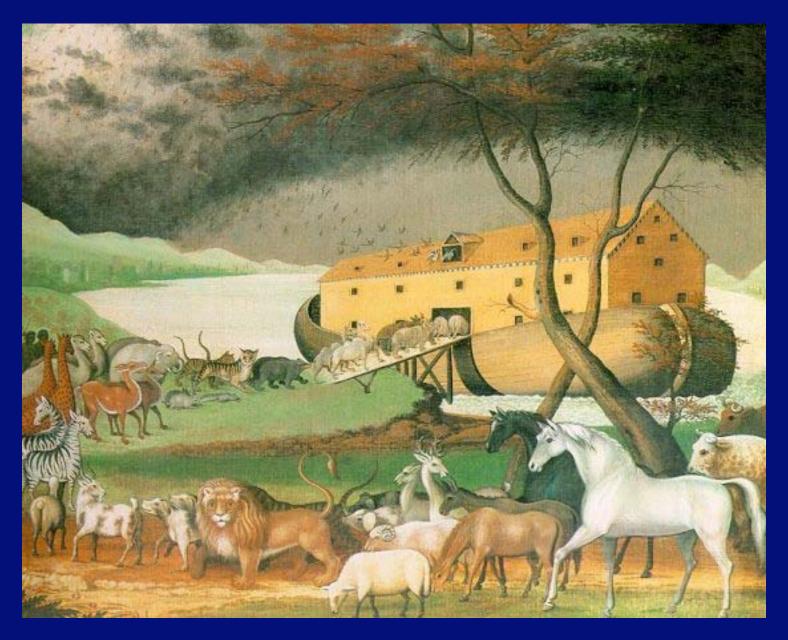
Landscape



EXTREMELY COMPLEX ALGORYTHM (Science and Art)



THE TRANSECT



The same kind of EXTREMELY COMPLEX ALGORYTHMS exist in this metaphor of sustainability.

"Then the people begun to multiply ... The Lord observed the extent of human wickedness ... and he was sorry he dad ever made them ... but, Noah found favor in the Lord" (Gen. 6: 1-8)

"Build a 250 feet long boat from cypress wood and waterproof it with tar, inside and out; then construct stalls through out the interior" (Gen. 6: 14-15)

"Enter the boat with your family and bring a pair of every kind of animal" (Gen. 6: 19)

"... and be sure to bring enough food ... take seven pairs of each animal I have approved for food and sacrifice" (Gen. 7:19)

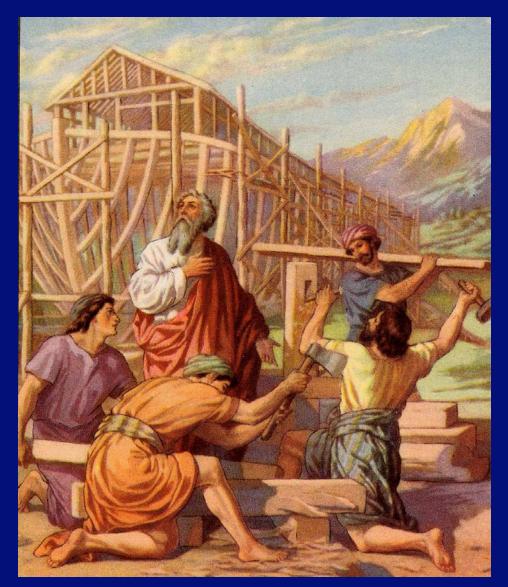
1. FIND FACTS AND DEVELOP A GENERAL CONSCIOUSNESS

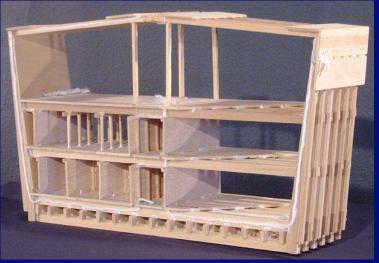
2. BUILD SUSTAINABLE ARCHITECTURE AND COMPACT CITY FORM

3. IT'S ALL ABOUT BIO-DIVERSITY

4.

DON'T FORGET YOUR FOOD SUPPLY







THE ARK is a receptacle of WHOLENESS ... a metaphor for the SUSTAINABLE CITY.

"The rain fell in mighty torrents from the sky ... God wiped out every kind of living thing" (Gen. 7: 11 and Gen. 7: 23)

5. START ANEW

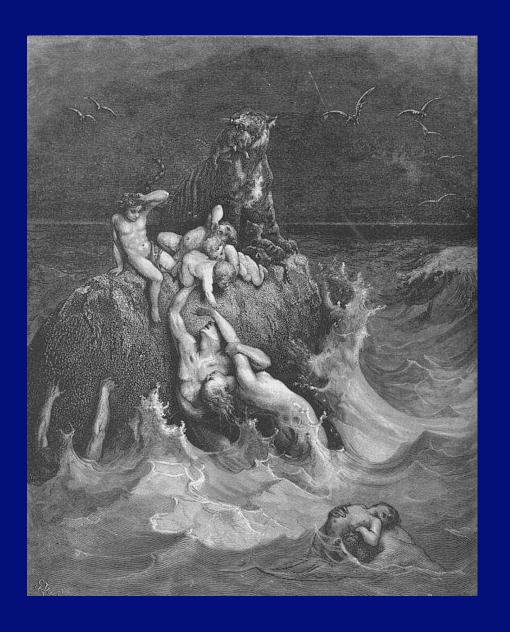
"It is not about recycling"

"It is not cradle to grave"

"It is cradle to cradle"

"Cradle to cradle requires:

INNOVATION



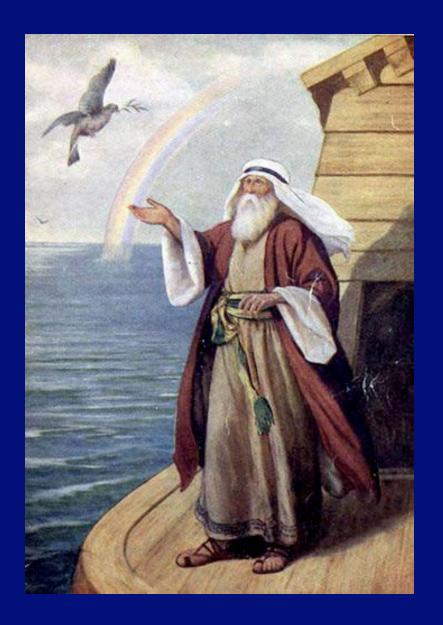


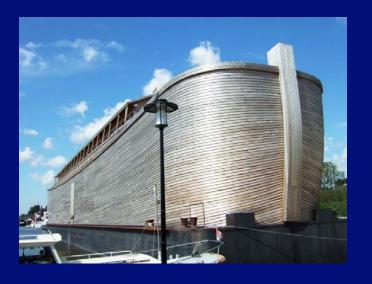


"Then Noah built an altar ... and there he burnt offerings" (Gen. 8: 20)

"Every living creature will look at you with fear and terror. I place them in your power" (Gen. 9: 2) **6. BUILD A TEST SETTLEMENT**

7. MOBILIZE CITIZENS AND CREATE POWERFUL POLICIES

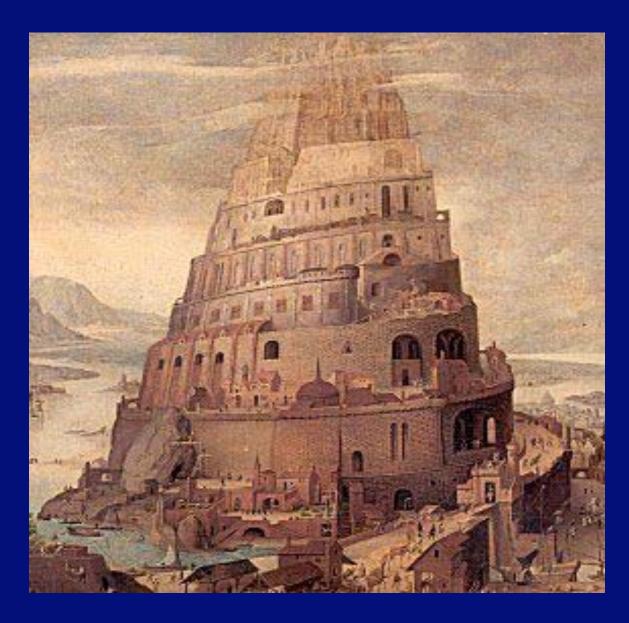






THE ARK is a receptacle of WHOLENESS ... a metaphor for the SUSTAINABLE CITY.

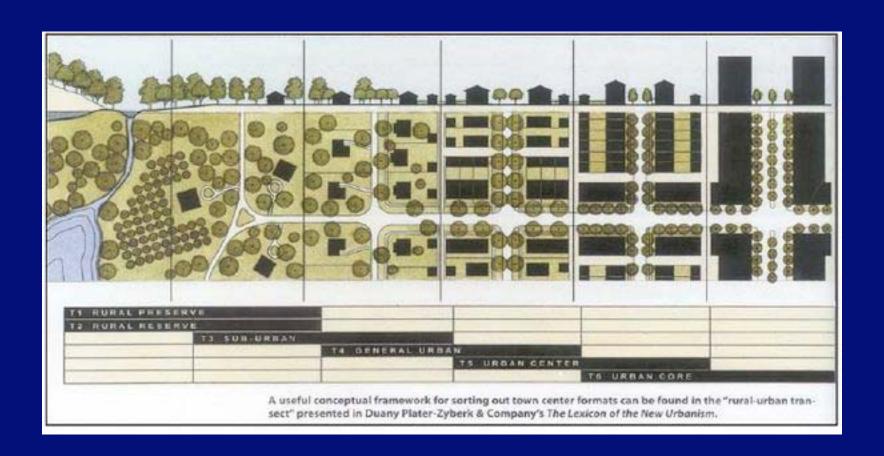
"... And when I see a rainbow, I will remember the eternal covenant with God ... never again will earth be flooded" (Gen. 7:19) 8. CREATE A SUSTAINABILITY COVENANT (a Charter)



9. BABEL... represents CULTURAL UNIQUENESS and GENIUS LOCI.

HOW CAN SUSTAINABILITY BE PLUGGED INTO THE SmartCode®?

(SmartCode® = Operational System for The Transect)



HOW CAN SUSTAINABILITY BE PLUGGED INTO THE SmartCode®?

BIBLICAL AGENDA



ART AND SCIENCE

OPERATIONAL MODULE

(An addition / an Appendix to the Smart Code)

SMARTCODE

TABLE 19 FOOD PRODUCTION

municipality

TABLE 19: Food Production. This table shows ways of incorporating food production within the transect.

	П	T2	T3	T4	T5	T6	SD	Specifics
Farm	•						•	
Agricultural Plots		•					•	
Vegetable Garden		•		•				
Urban Farm			٥	•	•			
Community Gardens				•	•	•		
Green Roof - Extensive - Semi Intensive	Ó	Q	,		•	•	•	
Vertical Farm					•	•	•	

Extensive Green Roofs are well suited to roofs with little load bearing capacity and sites which are not meant to be used as roof gardens. Semi-Intensive Green Roofs fall between Extensive and Intensive Green Roof systems; they require more maintenace, higher costs and more weight. Intensive Green Roofs allow lawn, perennials, busbes and tress; they may have walkways, benches, playgrounds and ponds.

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FOOD PRODUCTION

Farm

Agricultural Plots

Vegetable Gardens

Urban Farm

Community Gardens

Green Roofs

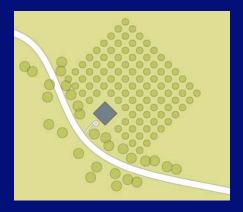
Extensive

Semi-Intensive

Intensive

Vertical Farm

FARMS

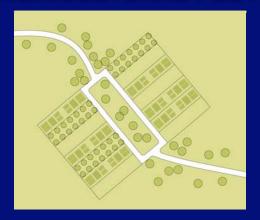




More Rural

More Urban

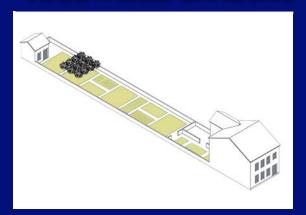
AGRICULTURAL PLOTS





More Rural More Urban

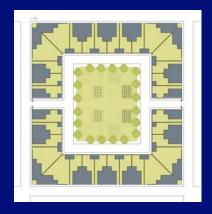
VEGETABLE GARDENS





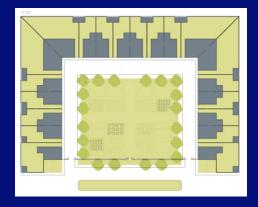
More Rural More Urban

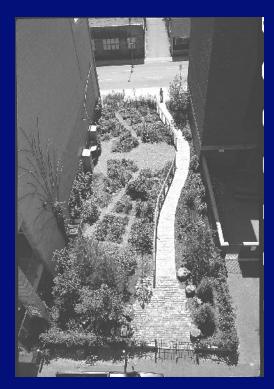
COMMUNITY GARDENS





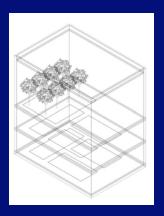
URBAN FARMS







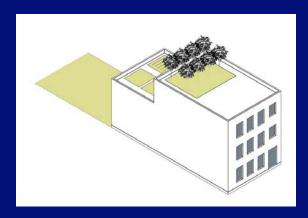
VERTICAL FARMS







GREEN ROOFS





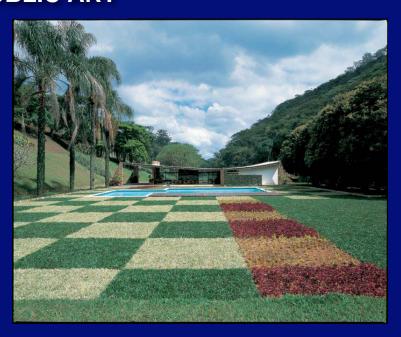


More Rural

More Urban

PUBLIC ART





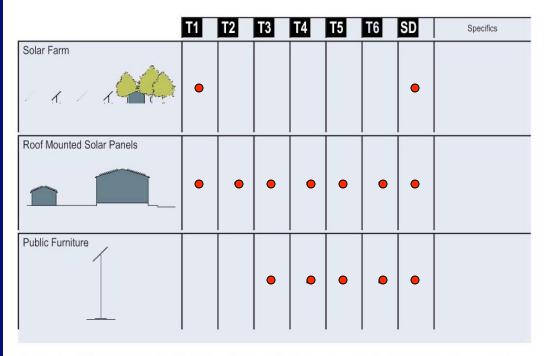


SMARTCODE

TABLE 18 SOLAR ENERGY

municipality

TABLE 18: Solar Energy. This table shows opportunities for the placement of Solar Panels within the Transect.



Note: A solar dish/engine system also utilizes solar collectors tracking the sun on two axes but it concentrates the energy at the focal point of a separate dish.

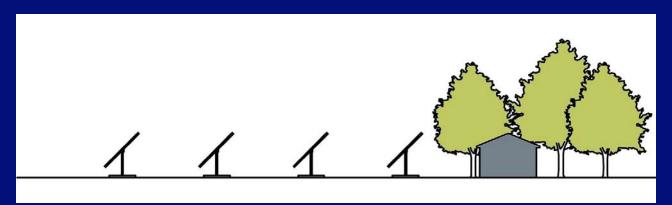
SOLAR ENERGY

Solar Farms

Roof Mounted Solar Panels

Public Furniture

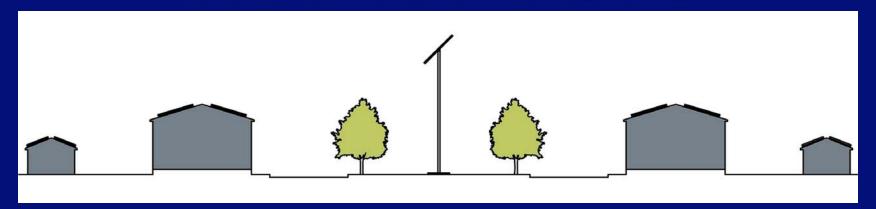
SOLAR FARMS





More Rural

ROOF MOUNTED SOLAR PANELS (RURAL)

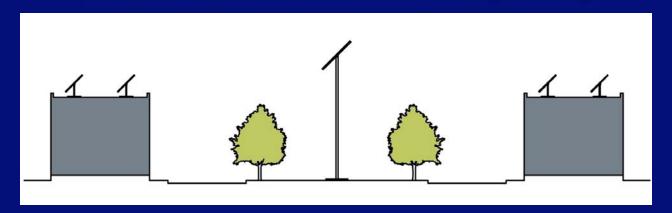






More Rural More Urban

ROOF MOUNTED SOLAR PANELS (URBAN)







The Wind Power Gizmos

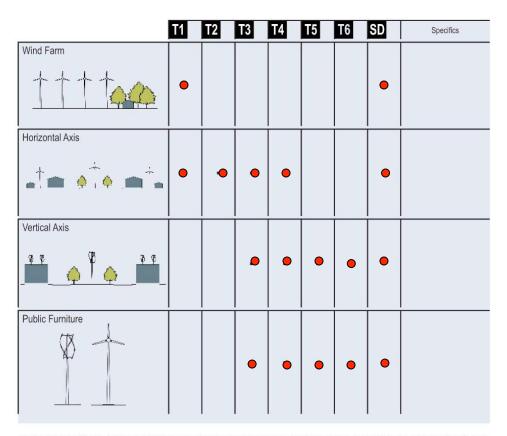
SMARTCODE

TABLE 17 WIND POWER

WIND POWER

municipality

TABLE 17: Wind Power. This table prescribes opportunities for the placement of Wind Turbines within the Transect.



Horizontal Axis: Most existing wind turbines are of the horizontal axis type. Horizontal axis wind turbines have blades like airplane

Vertical Axis: Vertical axis wind turbines have blades going from top to bottom.

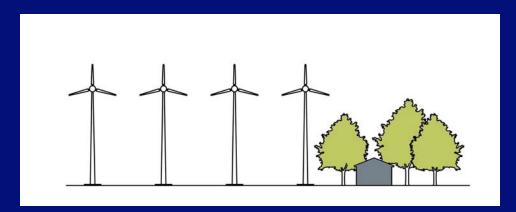
Wind Farms

Horizontal Axis

Vertical Axis

Public Furniture

WIND FARMS

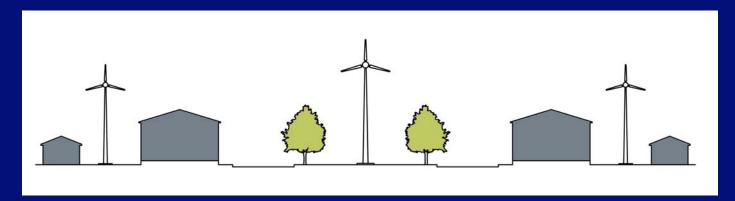






More Rural More Urban

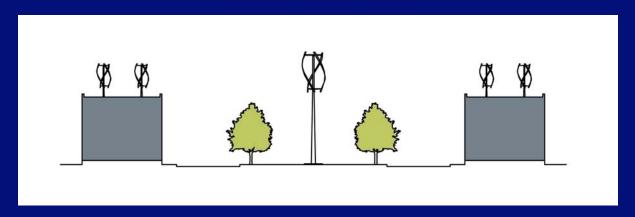
HORIZONTAL AXIS







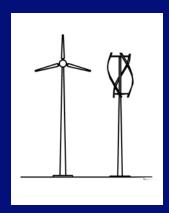
VERTICAL AXIS







PUBLIC FURNITURE







The Building Gizmos

BUILDING SUSTAINABILITY STANDARDS (The lot)



Compost Bins

Geothermal Wells

Green Roofs/Walls

Hot Water Panels

Septic Tanks

Solar Roofs

Vegetable Garden

Water Harvesters

Wind Turbines

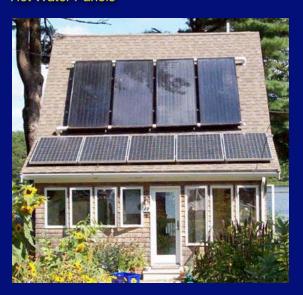
Compost Bins



Green Walls



Hot Water Panels





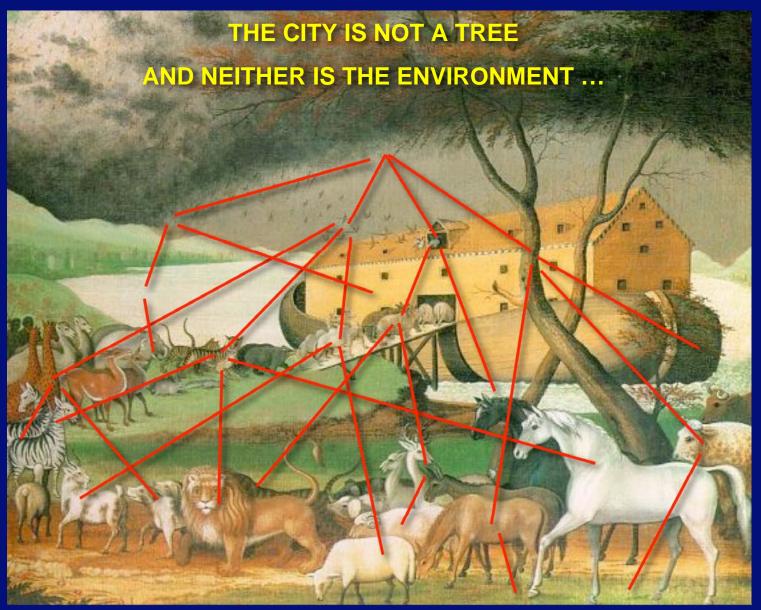
Water Harvesters



Vegetable Garden



Rooftop Turbines



The mind's first function will be **TO INCREASE** ambiguity and overlap ...**TO IMITATE NATURE**To produce classical imitations of nature with a high degree of lovability

THE "ARK MODULE" Smart Code for Sustainability

Jaime Correa

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