

WITH A NEW UPDATE BY THE AUTHORS AND A FOREWORD BY RICHARD FLORIDA Ellen Dunham-Jones, AIA Professor, MSUD Coordinator, Georgia Institute of Technology *Chair,* Congress for the New Urbanism

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The unintended consequences of suburbanization :

## public health concerns

Dramatic increases in obesity linked to sedentary lifestyles in suburbia, car crashes leading cause of death for anyone under 35

## climate instability & dependence on fossil fuels Urban dwellers have approx 1/3 the carbon footprint of urban dwellers. VMT and land urbanization have outpaced population growth 5 times.

disinvestment in downtowns

## poverty and social segregation

Since 2005 more Americans in poverty live in suburbs than cities

## affordability?

The savings of "drive 'til you qualify" are wiped out by rising transportation costs Low density increases municipal service delivery costs 40% on average



## DC Walk UPS

## 2012 Findings

GWU: Chris Leinberger, Mariela Alfonso

- 43 regionally-significant walkable urban places
- 75% price premium for office rents 71% price premium for multi-family residential rents/sales
- Retail –\$6.71/sf premium for each tier ranking
- Walk UPS = 11% of metro area, but 33% of metro real estate income

market driver headlines :

## demographic shifts

suburbia simply isn't "family-focused" anymore. 2/3 of suburban hh's don't have kids, 85% of new hh's won't through 2025 . Millennials are looking for nightlife and value wifi and connectedness more than cars.

## the new centers

as metros have expanded, first ring suburbs and commercial corridors now have central locations, often meriting densification and urbanization of their "underperforming asphalt".



## strategy: Re-inhabitation

relocalization of people, place, landscape, and activity

tactical urbanism, crowdsourceing, and collaborative consumption

cheap space for communityserving uses

"third places"

## *From Mies van der Rohe gas station to Senior and Youth Center* "Le Station", Nun's Island, Quebec, Arrondisement of Verdun, Eric Gauthier -FABG Architects, 2011



Geothermal heating allowed removal of the HVAC system to cleanly expose the roof and ceiling systems

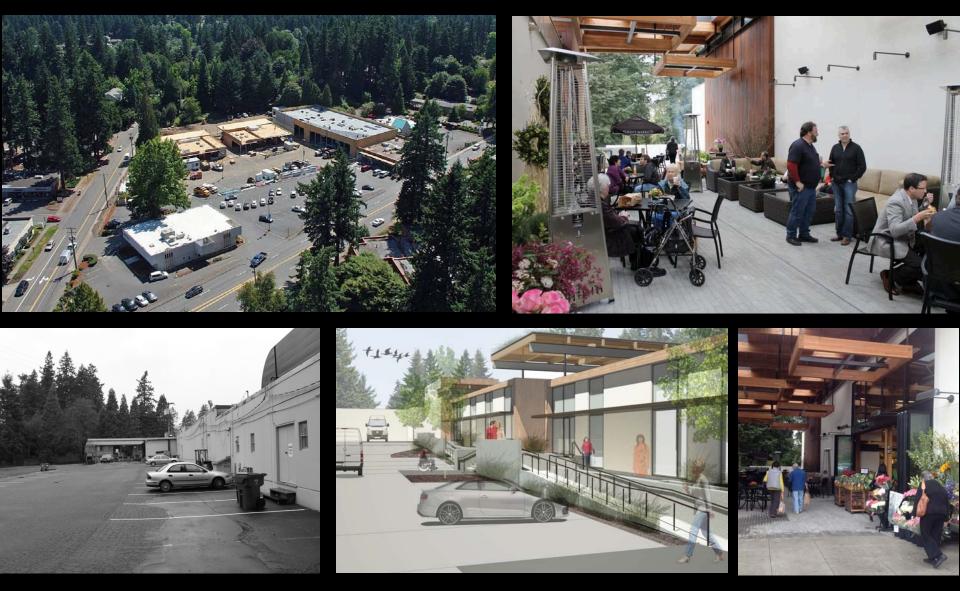
## From Wal-Mart to Public Library – a catalyst for walkability?

**McAllen Public Library**, McAllen TX; Boultinghouse Simpson Gates Architects, Meyer Scherer Rockcastle Architects





Updating the "L" strip mall with third spaces and portals to the neighborhood Lake Grove Shopping Center, Lake Oswego, OR: Eric Shoemaker Beam Development



From "back" to a new front facing the neighborhood and inviting walking and biking

## Meds & Eds: From dying mall to revived mall and university medical center

One Hundred Oaks, Nashville, TN: ATR & Assoc., Gresham Smith and Partners Architects



Source unverified

*From downtown mall to library, several colleges, office, health, and restaurants* **Citi Plaza,** London, Ontario

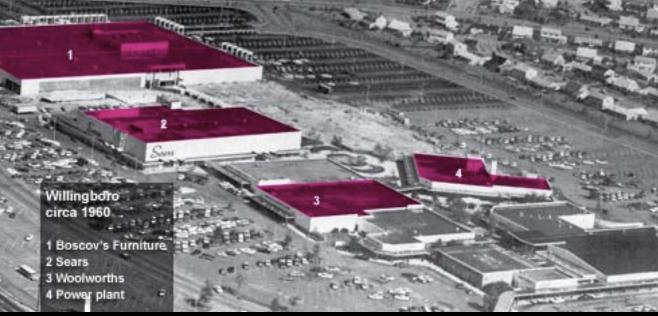


## From retail strip to job and town center Willingboro Town Center Willingboro, NJ (pop. 32K) Delco Development, Croxton

Collaborative Architects

### 1960

- 1. Boscov's Furniture
- 2. Sears
- 3. Woolworths
- 4. Power plant



Courtesty Croxton Collaborative Architects



## 2009

- 1. Mail-service pharmacy
- 2. Office building
- 3. Public library w/ retail
- 4. Community College
- 5. Town Commons
- 6. Townhouses
- 7. Planted swales

## Crowdsourced street to become permanent?





If you're looking for a model example of <u>crowdsourced placemaking</u>, check out the <u>Better</u> <u>Block project</u> in Oak Cliff, near Dallas, Texas.





**2-day "Art Installation" Build a Better Block,** Go Oak Cliff, October 2010 Oak Cliff, Texas

Source unverified



tac.ti.cal

ing or maneuvering to accomplish a purpor

Short Term Action || Long Term Change



### pavement to plaza



depave





Congress for the New Urbanism: Next Gen short-term projects for long-term gains



yarnbombing



Adirondack chairbombing

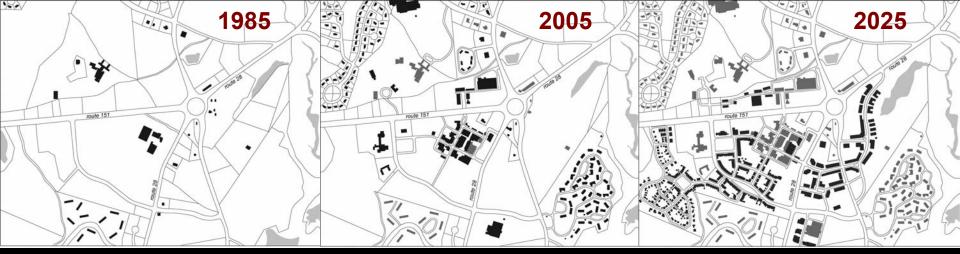
guerrilla grafting

# Redevelopment

urbanize – organize buildings to create connected outdoor rooms and walkable street networks

densify and diversify: reward the pedestrian eye

green the infrastructure



Source: Dunham-Jones, Williamson 2009



from strip center to "attachable urbanism"

Mashpee Commons, Mashpee, MA (pop. 14k)

1988-present

Cornish Assoc. Ltd / Duany Plater-Zyberk & Co / Imai, Keller Moore

## From grocery anchored strip mall to village center

**The A&P Lofts**, Old Cloverdale, Montgomery AL City Loft Corporation, McAlpine Tankersley Architecture, The Colonial Company

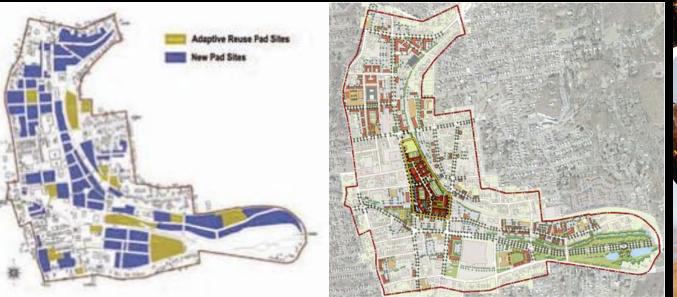




*From reinhabitation to redevelopment on 2.6 acre strip mall into town center* **DeSoto Town Center**, DeSoto, TX (pop. 50K): TCC High Street, JHP Architecture Urban Design



## Leveraging Public Land and Crowdsourcing Bristol Rising, Bristol, CT (pop. 60k): Renaissance Downtowns LLC







**Downtown Flesta!** 

Pop Up Draws 20K!

New Project Quotes Page!

Zoning says )

#### **Recently Popular Ideas**

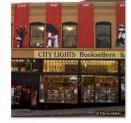


Trader Joe's



Performing Arts Centre





Spice & Tea Exchange Literary Collike (12) (=1

Literary Cafe + Performance Space...

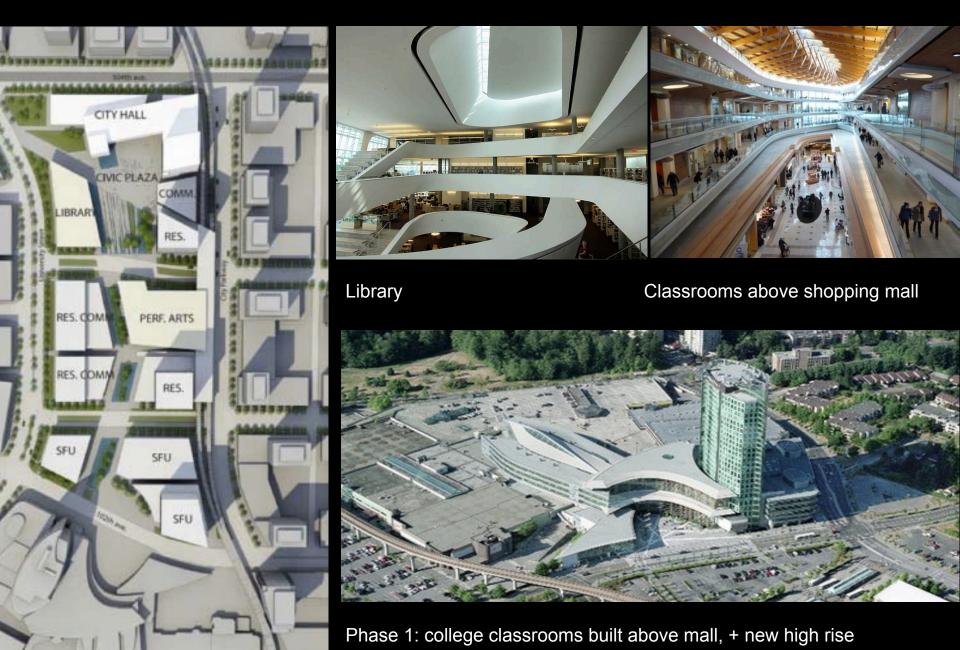
👌 like (354) 🗐 34



*transit triggers infill of an office park* **University Town Center,** Hyattsville, MD (pop. 18k) Prince George's Metro Center, Inc.; Parker Rodriguez, RTKL Associates, WDG Architecture Vertical campus with diverse green spaces to catalyze retrofit of suburban hub Université de Sherbrooke Longueuil, Quebec: Marosi Troy, Jodoin Lamarre Pratte, Labbe



*From a park-n-ride + mall to a high-design, geo-thermal civic centre TOD* **Surrey Central City,** Surrey, BC (pop: 468k); Simon Frasier University, Bing Thom Architects

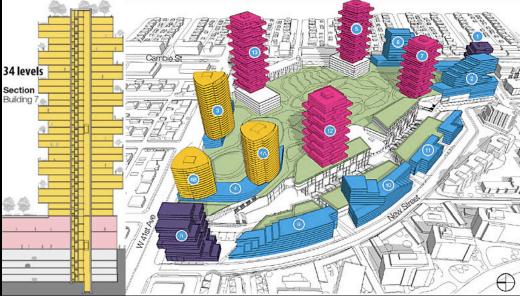


## High rise housing above an expanded, hybrid mall

Oakridge Centre, Vancouver: Ivanhoe Cambridge, Henriquez Partners Architects









#### New Neighbourhood Street

### **The Commons**

#### Central Active Area

- Children's Play Area 
   Juice Bar
   Great Lawn
   Outdoor Seating
- Rec Room
   Tai Chi Plaza

#### Children's Play Area

- The Great Lawn
  - Events Gathering Space
    Passive Open Space

#### Rec Room

- The Meadow
- North Gardens
   Viewing Platform

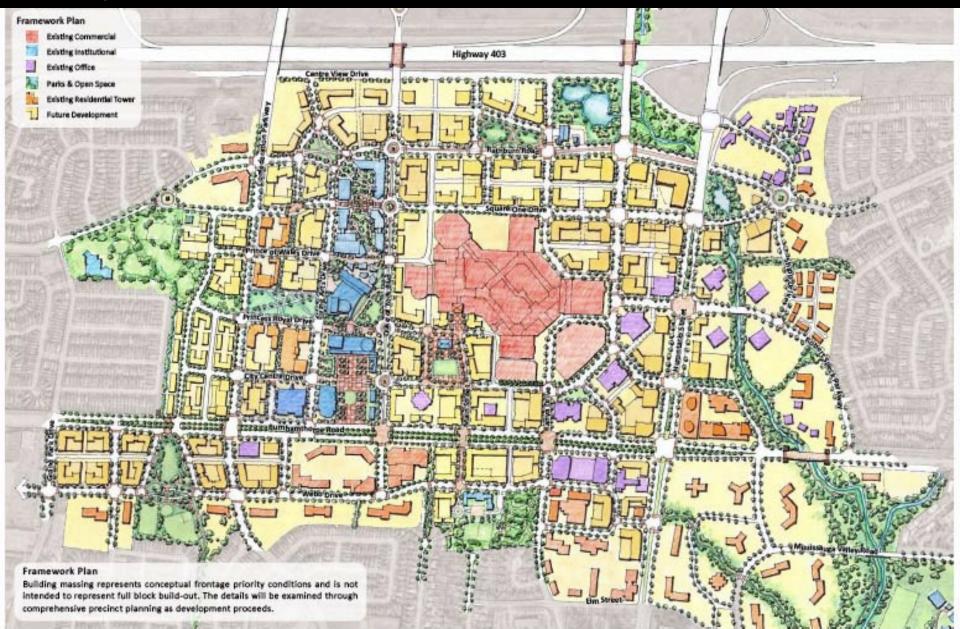
#### Passive Open Space South Gardens

- Community Gardens
  - Residents' shared food and flower garden
     Community tool storage etc.
- The Commons Loop



## Infilling around the mall and office high rises

**Mississauga Downtown 2021;** City of Mississauga; Glatting, Jackson, Kercher, Anglin; Greenberg Consultants,



## From dead mall to green downtown

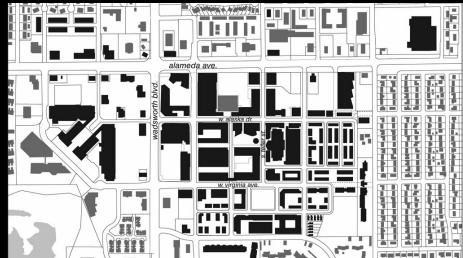
Belmar, Lakewood, CO (pop 143k): Continuum Partners; Elkus Manfredi Architects, Civitas Inc.



### Suburban Form

-buildings as discrete, stand-alone objects -open space lacks form, is dominated by cars -blocks and streets are large, unconducive to walking -single uses, separated infrastructure systems

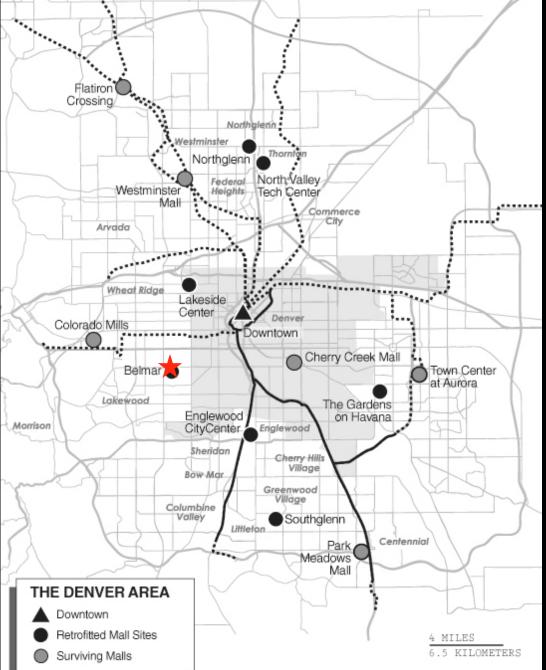




## **Urban Form**

-buildings align and front onto the street -open space shaped by the buildings; an outdoor room -blocks and streets are smaller, more walkable,safer -mixed uses, more integrated infrastructure systems







**8** of **13** regional malls in the Denver Metro area have been retrofitted or announced plans to be.

Retrofitting does NOT imply the wholesale redevelopment of existing neighborhoods.

Rather it provides existing neighborhoods with urban nodes on targeted underperforming sitesraising the question, **how to connect the dots?** 



technological innovation: The Schweeb, Driverless car, the Straddle Bus, and the Bamboo Bike





### Implementation:

## Triggering Corridor Retrofits

### **Streetscape Improvements**

- Tactical Urbanism
- Road Diets to capture public land
- Complete Streets, street trees etc.

Planning processes that link multi-modal transportation investments to zoning changes

- Atlanta's Livable Centers Initiative
- Federal Partnership for Sustainable Communities grants
- Austin: negotiating Form-Based Codes as replacement zoning

## Transit

• DC - rail, Denver – It rail, Portlandstreetcar, Cleveland-BRT, etc.

## **Private-Sector Coalitions**

- Build a Better Block
- Business Improvement Districts
- White Flint Partnership

## **Anticipatory Retrofitting**

 Design new parking lots as future building sites

### Recapturing traffic islands for redevelopment while making walkable intersections Fort Totten MetroRail stop, Washington DC Planning Department, WAMATA Source: Washington DC Planning Dept website



*From 5-lane arterial to 2-lane Main Street with multi-use parking Ramblas & solar* Lancaster, CA (pop 157k): CT/KDF Community Development Partners, Moule & Polyzoides Since revitalization started in 2009: \$106mil in New Markets Tax Credits for redevelopment for local entrepreneurs; 50 new businesses; 10% increase in downtown property values; 50% cut in traffic collisions





Photoz; G. Komar





## from commercial strip to multi-way boulevard and new downtown

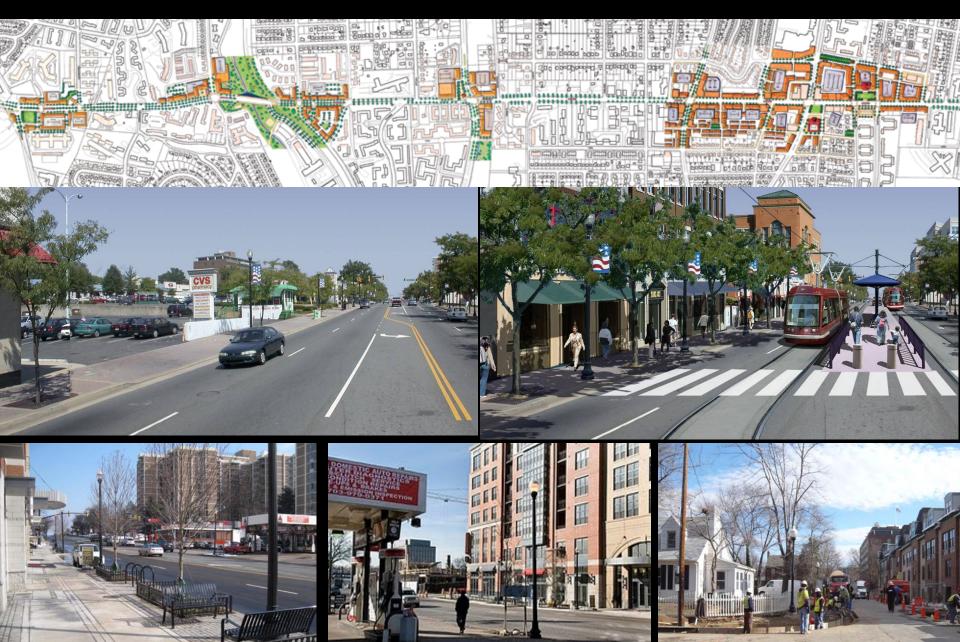
Palm Canyon Drive, Cathedral City, CA (pop 51k); Freedman, Tung & Bottomley source: Dunham-Jones, Williamson,







## *Form-based codes to induce densification at nodes and support transit* **Columbia Pike**, Arlington County, VA, Ferrell Madden Associates, Dover Kohl & Partners



*From edge city sprawl to 430-acre BRT-extended TOD centered on boulevard* White Flint, MD: White Flint Partnership, Montgomery County, Glatting Jackson, var designers -new high-rise downtown over 20 years, \$6-7 bil tax revenue, 10k residents – 25% affordable





*retrofitting land use, transportation and energy on a commercial corridor* **Cambie Corridor,** Vancouver, BC, Vancouver City Planning Department



# Re-greening

reconstruct local ecology, daylight culverted streams, and clean run-off

add parks to increase adjacent property values

food and energy production

carbon sequestration



Please join us for Meet & Greet with the MowGoats: Clover, Buffy, Princess and Rosie!

Date: Tuesday, June 5, 2012 Time: 4 - 6 pm Location: W. 61st Street and Frontier Avenue (just south of Clark Avenue)

Decade-long study of 4,436 regreened vacant lots in Philadelphia showed reduction in gun assaults, vandalism, less stress and more exercise



#### **Bioretention**

Per Unit Cost Estimates

site demolition/grading \$20 per cubic yard (50)\$	1,000
walkway/paving materials	
compacted crushed gravel \$1.50 s.f. (1,800)\$	2,700
landscape materials	
topsoil \$25 per cubic yard (20)	\$500
mulch \$40 per cubic yard (80)\$	3,200
plant materials	
low mow seeding \$0.12 s.f. (3,700)	
grasses-perennials \$5 s.f. (2,500)\$1	2,500
Bioretention Total Cost Estimate	
subtotal cost \$2.54 per square foot\$2	0,844

contingency 10%	\$2,080
design/engineering 15%	\$3,120
total project cost	\$26,044

Cost Estimate.....Parcel Area 8,000 square feet (0.18 acre)



2 roof 3 lawns 4 bioretention



Vacant sites near parking lots and other paved surfaces can be used to provide bio-retention areas for managing stormwater. Bioswales and rain gardens must be designed and engineered in response to the soil conditions and water volumes at a specific site.

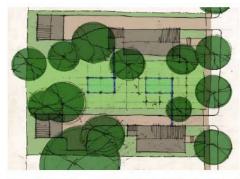
#### Geo Thermal Wells

Geo Thermal - Shared Utilities Total Cost Estimate

geothermal installation per house (\$21,000) (2) ......\$42,000

Geothermal technology uses the earth's renewable energy, just below the surface, to heat and cool a home, and to help provide hot water Geothermal energy is extremely cost effective and environmentally friendly. Although the cost of installing a geothermal well is higher than installing a conventional heating system, a geothermal system results in significantly lower utility costs. Geothermal wells can be installed on a vacant site to generate energy for two adjacent houses.





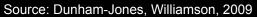


## *from shopping center to wetland w/ new lakefront property investment* **Phalen Village**, St Paul, MN,U.Minn CALA (Dowdell, Fraker, Nassauer) and City of St. Paul



CONTEXT MISSISSIPPI FLYWAY

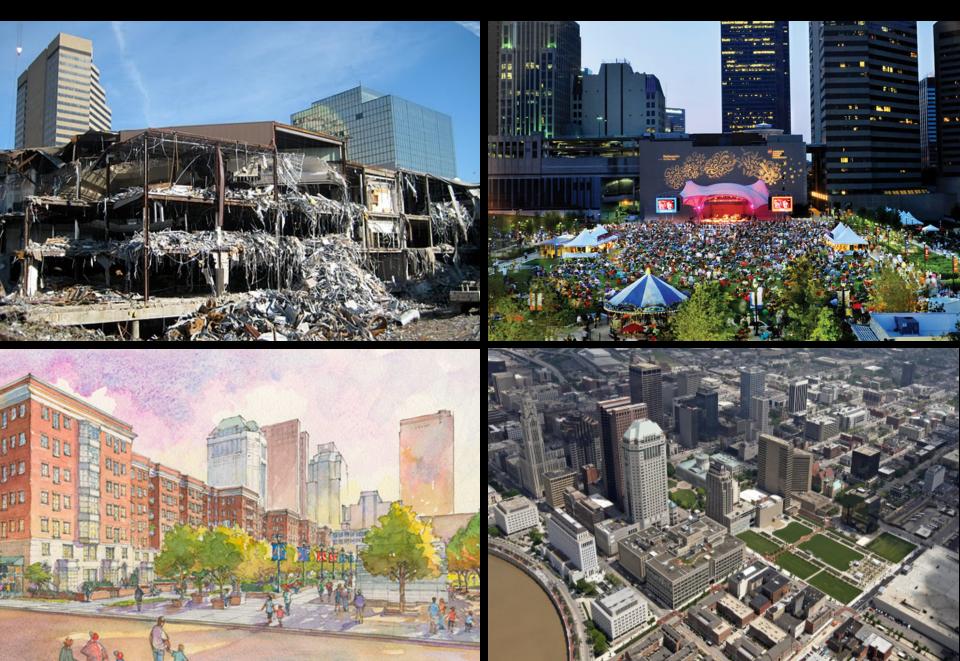






## From urban mall to park ringed with urban housing

Columbus Commons, Columbus OH: CDDC, Capitol South, Coma-Kokosing, Moody Nolan, EDGE Group





from mall parking lot to TOD with condos, senior housing, and daylit creek park Northgate Urban Center, North Seattle, WA: LEED-ND pilot program Thornton Place, Mithun Architects for Stellar Holdings & Lorig Associates

•Added 530 units of housing at net 96 units/acre (another 1800 coming?)

•Increased open space within the Northgate Urban Center by 50%

•Provided pedestrian links that shortened walking distances by 50% from several adjacent neighborhoods



Thornton Creek Water Quality Channel: City of Seattle, SvR Design

•Reduced impervious surface by 78%

•Designed to remove an estimated 40-80% of suspended solids from 91% of the avg annual stormwater runoff from the 680-acre drainage basin

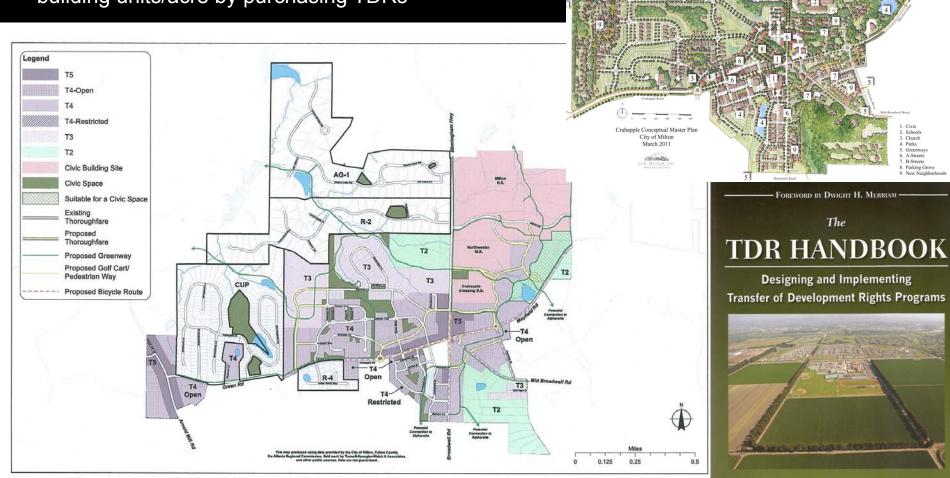
•Created new habitat: native birds were observed within one month and native volunteer plants have gotten established with the 85% native species that were planted.

•Adds an estimated 30% increase in adjacent property values

## *Transfer Development Rights to Concentrate Growth and Preserve Rural Land*

**Form Based Code w/ TDR:** Milton GA, (pop 33k) TSW & Assoc., Rick Pruetz

- Owners in T2 apply for Sending Sites
- Receiving areas in T3-T5 can nearly double baseline building units/acre by purchasing TDRs



### **Crabapple Regulating Plan - DRAFT V6**

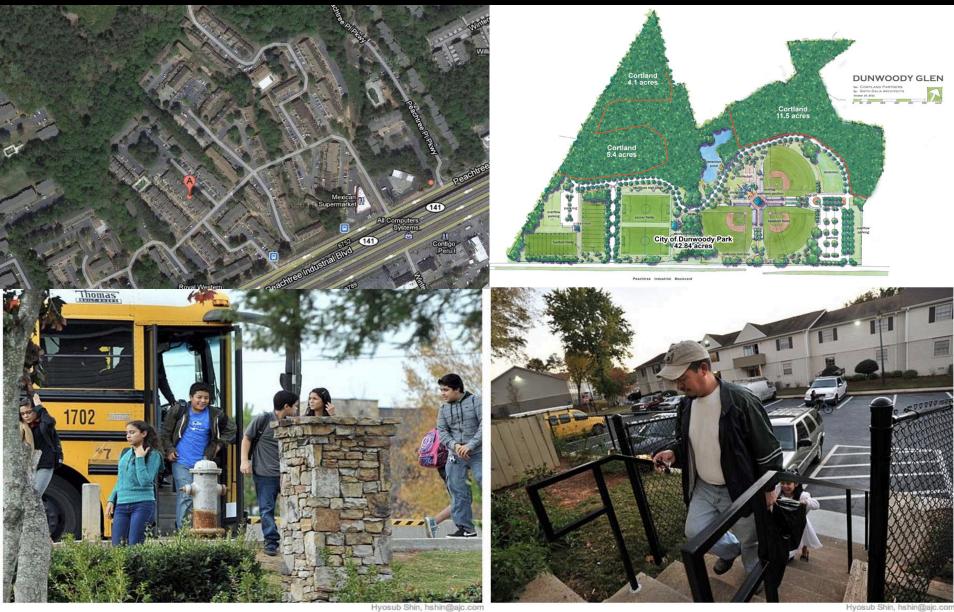
RABAPPLE FORM-BASED CODE une 5, 2012

repared by Tunneli-Spangler-Walsh & Associates



Arthur C. Nelson, Rick Pruetz, and Doug Woodruff with James C. Nicholas, Julian Conrad Juergensmeyer, and Jonathan Witten

### Gentrification in the name of regreening? Dunwoody Glen, Dunwoody GA (pop 46k)



Kids get off the school bus at Dunwoody Glen Apartments, which is one of apartment complexes could be torn down to build a sports complex

Dunwoody Glen Apartments resident Erick Pereira and his daughter Mariana Pereira, 5, walk back home after a trip to a local grocery store.

## challenge:

## **New Tools**

The ITE street design manual

**Community/Business Improvement Districts** 

Anticipatory retrofitting and contingent zoning

**Design competitions** 

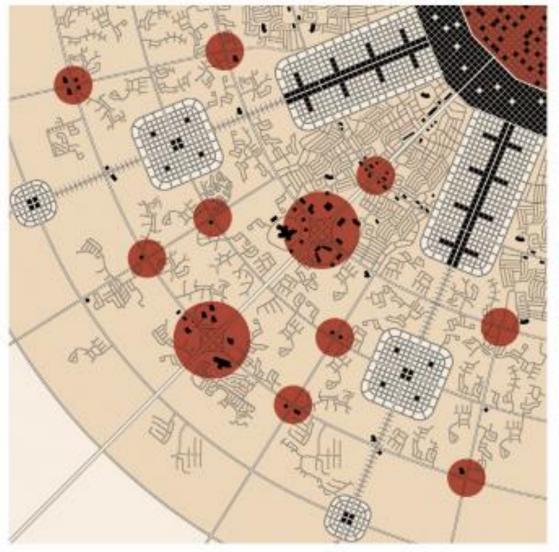
Retrofittability analysis & performance metrics

Street art

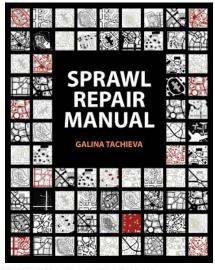
Real estate transaction fees

Greyfield audits

### Targetted retrofitting at the Metro/Regional scale Galina Tachieva, The Sprawl Repair Manual



2-1. Sprawl repair targets: commercial, employment, and transportation nodes with the best potential for redevelopment



Repair in urban core



Communities for preservation and emulation



Sprawl development



Sprawl repair targets



Sprawl as is or devolution



Undeveloped land

#### strategy:

# Next Steps for High Growth Places

Conduct metro-scale greyfield audit and target areas for regreening, redevelopment and reinhabitation

Update zoning codes and subdivision regulations to incentivize diverse and connected urbanism

Challenge designers to improve architectural quality of "instant urbanism"

Come to CNU 21: May 29-June 1 in Salt Lake City!

#### strategy:

# Next Steps for Slow Growth Places

Look at regional incremental impacts: dying malls + Main Streets

Target downtown malls for redevelopment

Consider TDRs and ROI req'mts on public investment to direct growth towards existing urban centers and away from inefficient locations that should be regreened

Empower your youth and social media

Leverage your public land and use civic buildings to anchor reinvestment

Come to CNU 22: June 4-9, 2014 in Buffalo, NY



SAVE THE DATE:

22nd Annual Congress for the New Urbanism

## **JUNE 4-7 2014** BUFFALO, NY



Congress FOR THE New Urbanism

Partnering to **Remove Obstacles** to Urbanism by Reforming Standards and **Practices** 

Past Initiatives: **HOPE VI Mixed** Income Communities LEED-ND **CNU/ITE Manual on** Walkable Urban Thoroughfares



**Project for Transportation Reform** 



**Transportation Networks** 



**Highways to Boulevards** 



Live/Work/Walk: Removing Obstacles to Investment



#### **Health Districts**



LEED for Neighborhood Development



CNU'S

REFORM

PROJECT FOR

RANSPORTATION

TRANSPORTATION

NETWORKS

RECLAIMING URBANISM

LIVE/WORK/WALK

REMOVING OBSTACLES TO INVESTMENT

#### DESIGNING WALKABLE URBAN THOROUGHFARES

SPRAW

ENERGY AT A

SCALE

NEIGHBORHOOD

RETR

**Designing Walkable Urban Thoroughfares** 



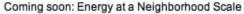
**Emergency Response and Street Design** 













Rainwater-In-Context

Emerging Initiatives: Tactical Urbanism, Urban Agricutlure, Code Reform, Low **Carbon Communities** 

## ADDITIONAL RESOURCES

**CNU Sprawl Retrofit Initiative: Active list-serv, website with examples and model** legislation. For info go to: http://www.cnu.org/sprawlretrofit Retrofitting Suburbia Facebook page:http://www.facebook.com/pages/Retrofitting-Suburbia/29939207705?ref=ts Designing Suburban Futures, 2013 book by June Williamson centered on next generation retrofits proposed through the Build a Better Burb design competition. Sprawl Repair Manual: 2009 book by Galina Tahchieva of DPZ. Prototypical solutions at the regional, neighborhood, and building scale. Big Box Reuse, Julia Christenson, 2008 Suburban Transformations, 2007 book by Paul Lukez Malls into Main Streets: 2005 report by CNU to guide local officials and owners/ developers through the process. "Retrofitting Suburbia", Places 17:2, Summer 2005, theme issue guest-edited by **Dunham-Jones and Williamson** Greyfields to Goldfields: 2002 book by Lee Sobel and CNU based on 2001 regional mall study by Price Waterhouse Cooper CNU 21, May 29-June 1, Salt Lake City CNU 22, June 4-9, Buffalo, NY