A Landscape Approach to Environmental Design

Beverly A. Sandalack PhD FCSLA MCIP RPP

Associate Dean (Academic) Environmental Design + Planning Research Leader | The Urban Lab Faculty of Environmental Design | University of Calgary

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Illustrations by Jorg Muller

Change and form

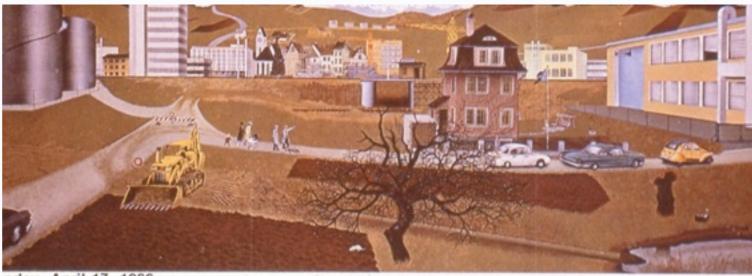
- > over time, loss of connection to landscape and sense of place
- > sustainability issues (social, environmental, economic)
- > decline in the ability of the built environment to support physical activity or social connections

Change and discipline

- > environmental design was once a more comprehensive endeavour
- > specializations and silos
- > public realm now often designed by default
- > CSLA perennially concerned with numbers / profile
- > emergent approaches (e.g. landscape urbanism) suggest that others think they can do a better job of landscape than landscape architects



lednesday, May 6, 1953



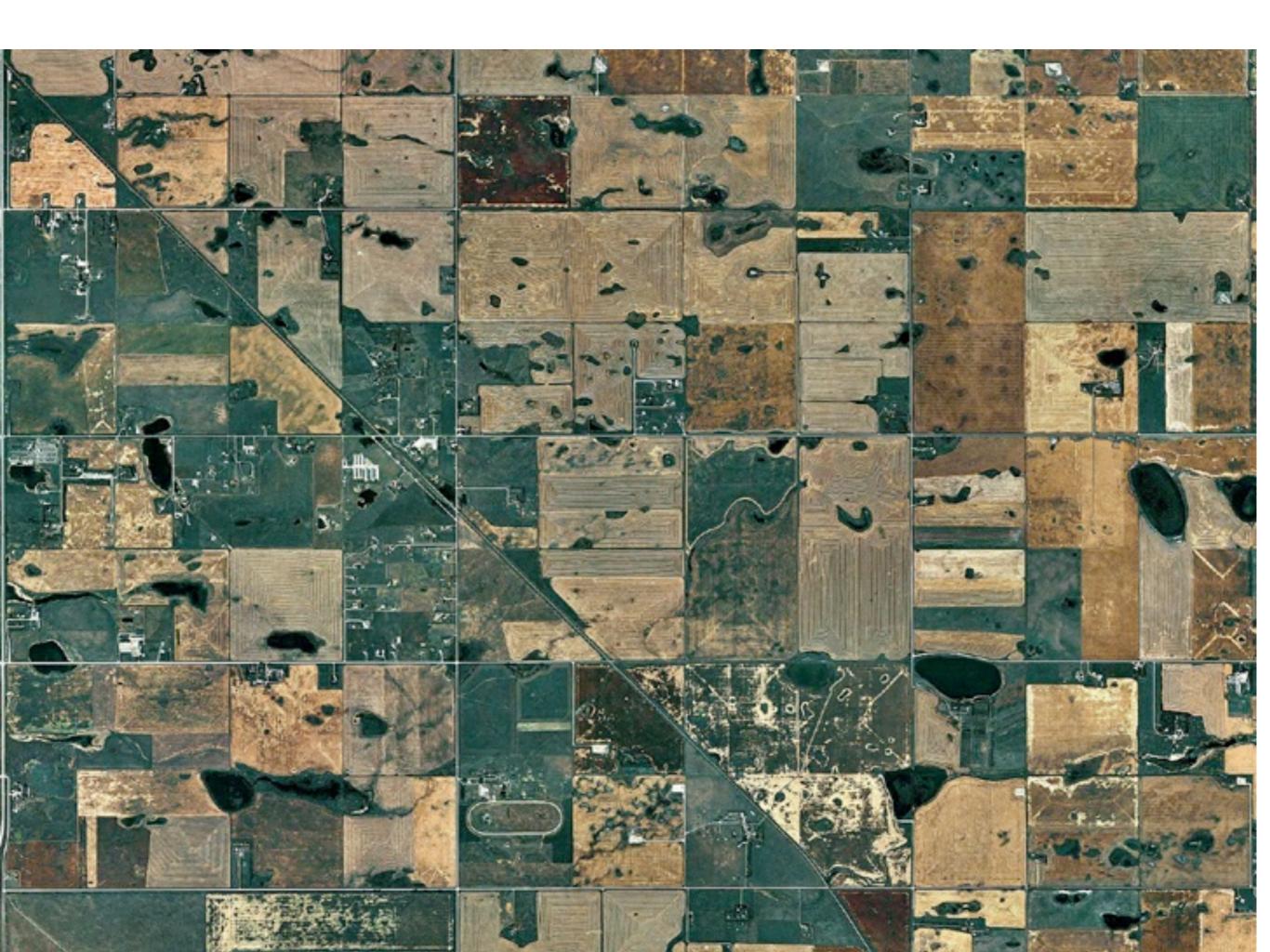
nday, April 17, 1966



> have we lived up to our landscape context?









> the worst aspects of the so-called 'American dream'





- > what is happening?
- > what should we do?

> illustrative case: Calgary

> Calgary est. 1883

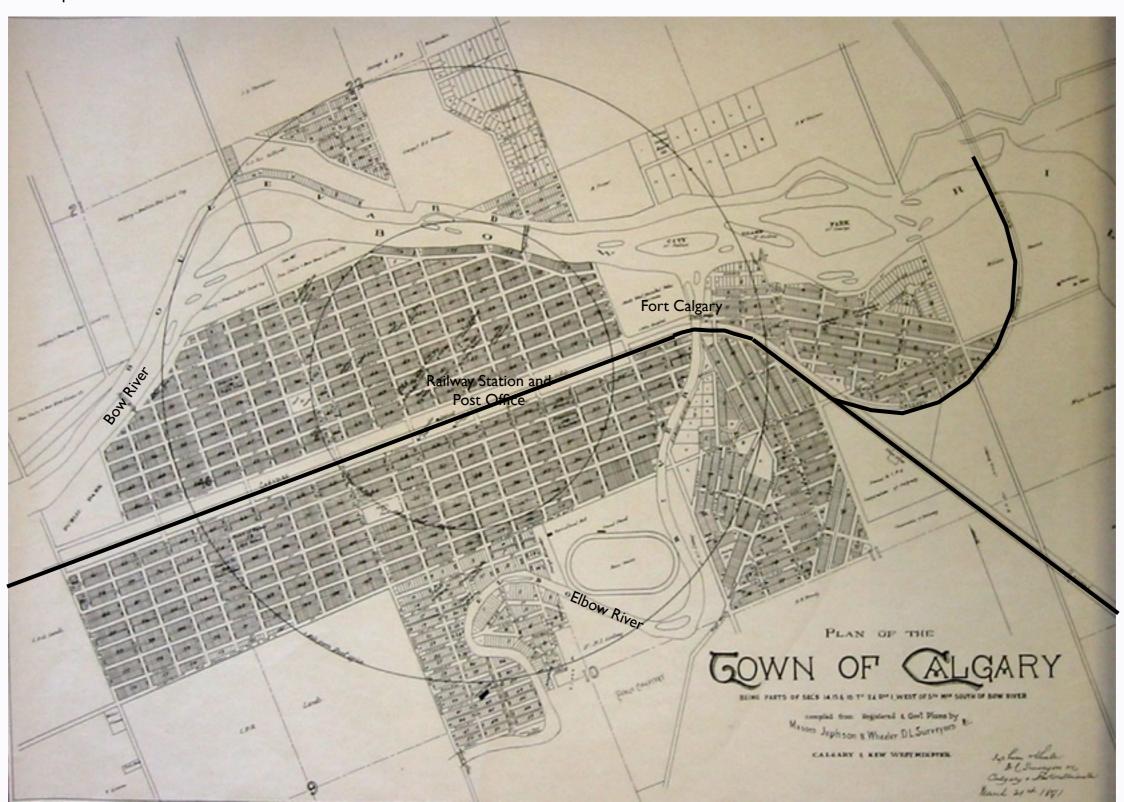






> first phase of urban development - paradigm of tradition/historical precedent, response to local conditions

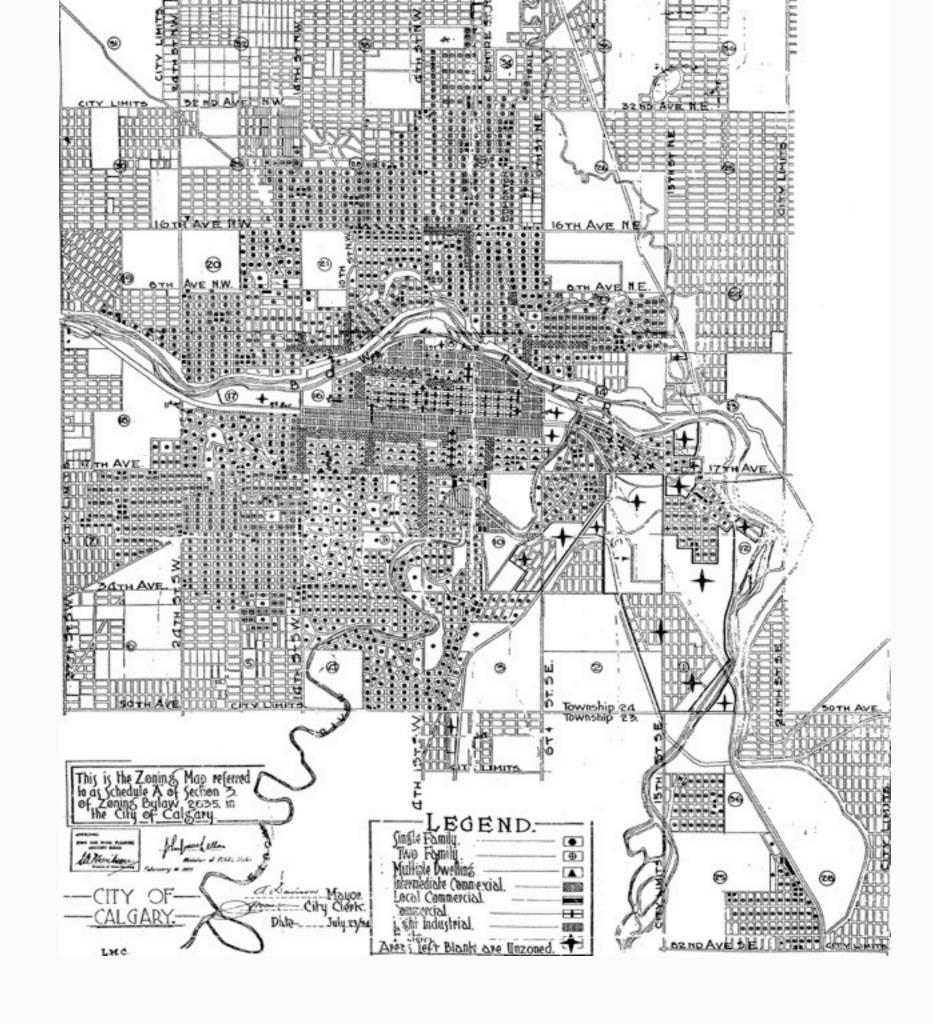
- the CPR was effectively Calgary's first planner
- grid pattern extending from railway/post office/downtown
- experience: inside out





- Zoning Map - 1934

up until then, and for its first 75 years, Calgary spread block by block in a grid pattern



- Central Memorial Park ca. 1900-1915 Glenbow Archives



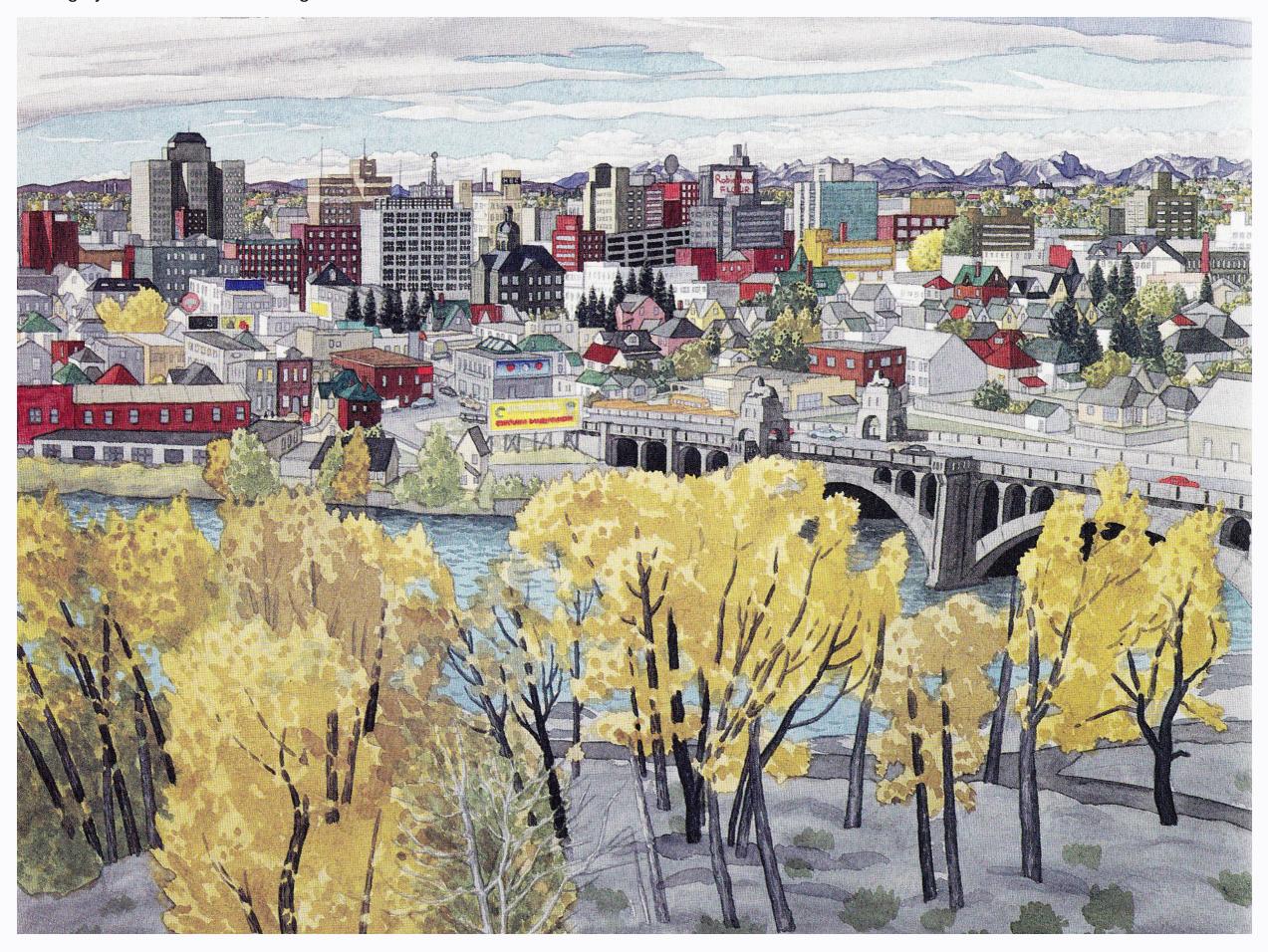
6th Avenue SW
 treed boulevards and sidewalks
 Glenbow Archives





Glenmore water treatment plant
 Glenbow Archives

- Calgary 1956. Edward John Hughes

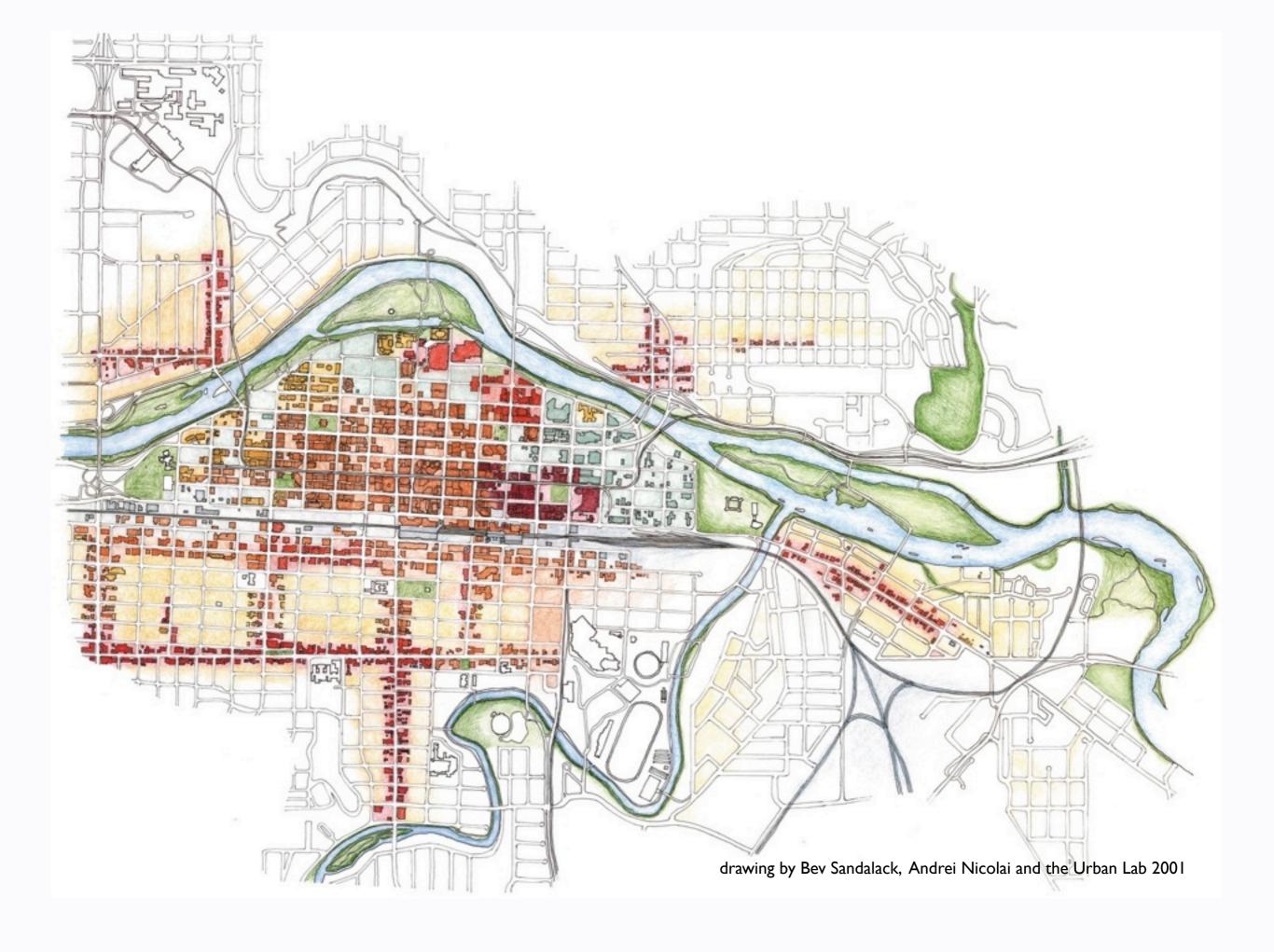


- early commercial 'main streets' developed around streetcar routes











- > second phase of urban development paradigm of modernity and space
- the city as machine
- functional architecture
- introduction of modern planning methods

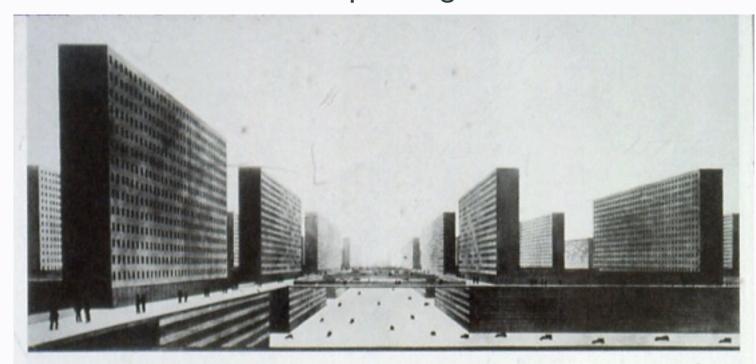
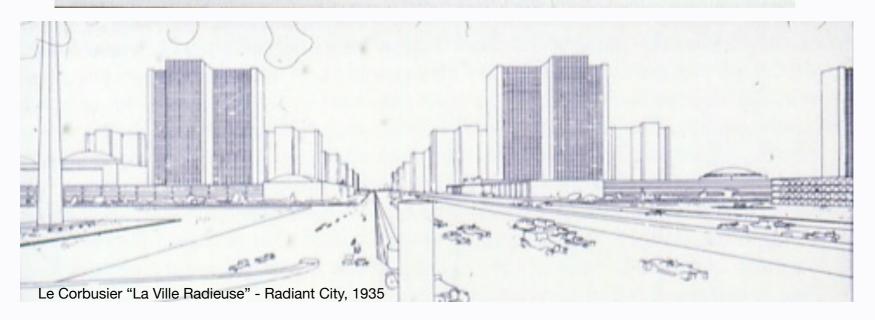
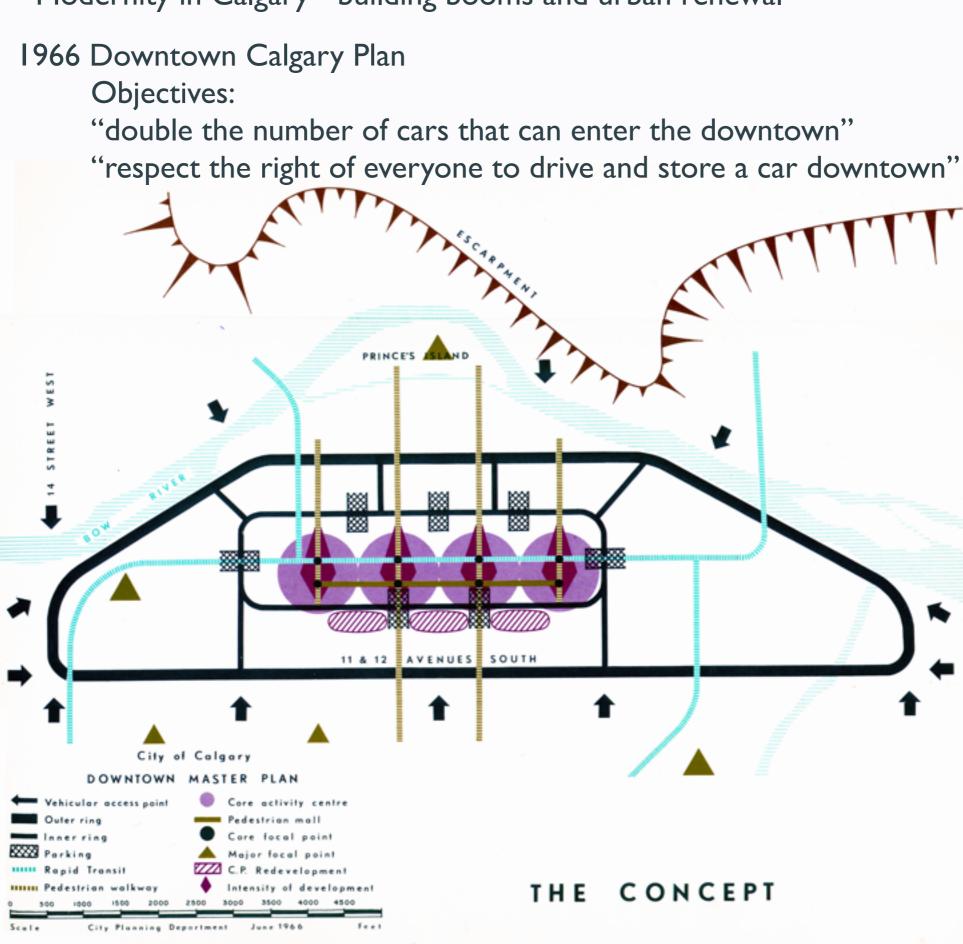


Figure 2-2. Ludwig Hilberseimer. The Ideal City. 1920.

Hilberseimer's drawing represents the Modernist utopia of high-rise buildings in straight, parallel rows. Traffic systems are rigidly separated, and functions are carefully zoned. (Courtesy: Dr. Franz Stoedtner and the Museum of Modern Art, New York)



- Modernity in Calgary - building booms and urban renewal



- Urban Renewal - the planning method of choice

- existing urban fabric and medium scaled office buildings destroyed to make way for larger scale urban renewal projects



Railway station and plaza photo Glenbow Archives

Replaced by underground station and Palliser Square shopping/office complex in 1960/70s

- Suburban expansion post WW2

- period of prosperity
- population boom
- huge surge in car ownership
- big demand for housing for families mostly bungalows
- adoption of 'modern' planning techniques
- development industry expands and increases influence on patterns of growth
- professions disaggregate into silos specialize but also isolate - the public realm often falls between the cracks





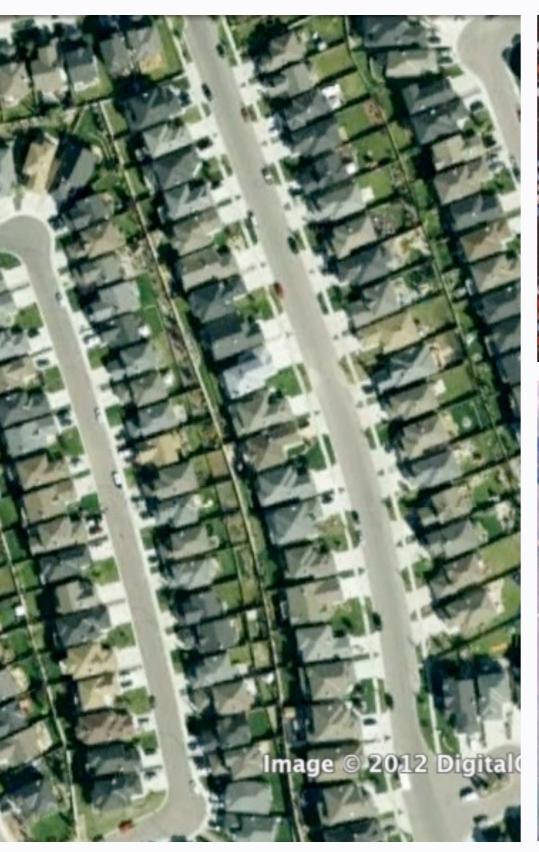


1994 Calgary Urban Park Master Plan

- built on ideas from 1914 Thomas Mawson & William Pearce
- continued river path project started in 1975



> third phase of urban development - paradigm of ambiguity, any time / any place?







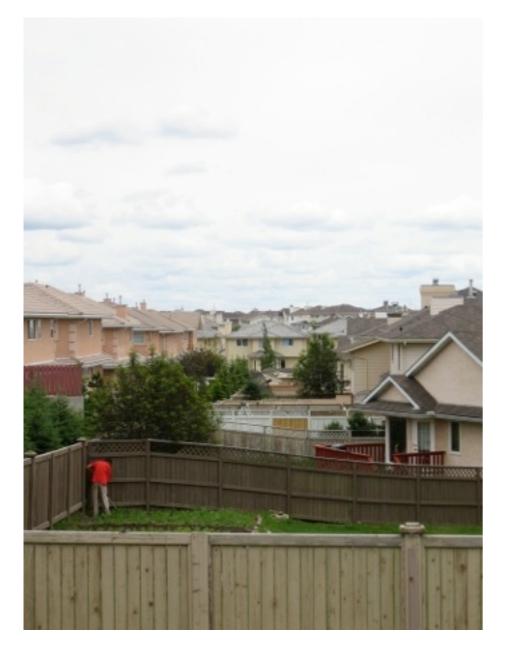
- continued expansion outward, auto-oriented development
- better transportation infrastructure allows easy travel, but creates a culture of commuting
- induced traffic



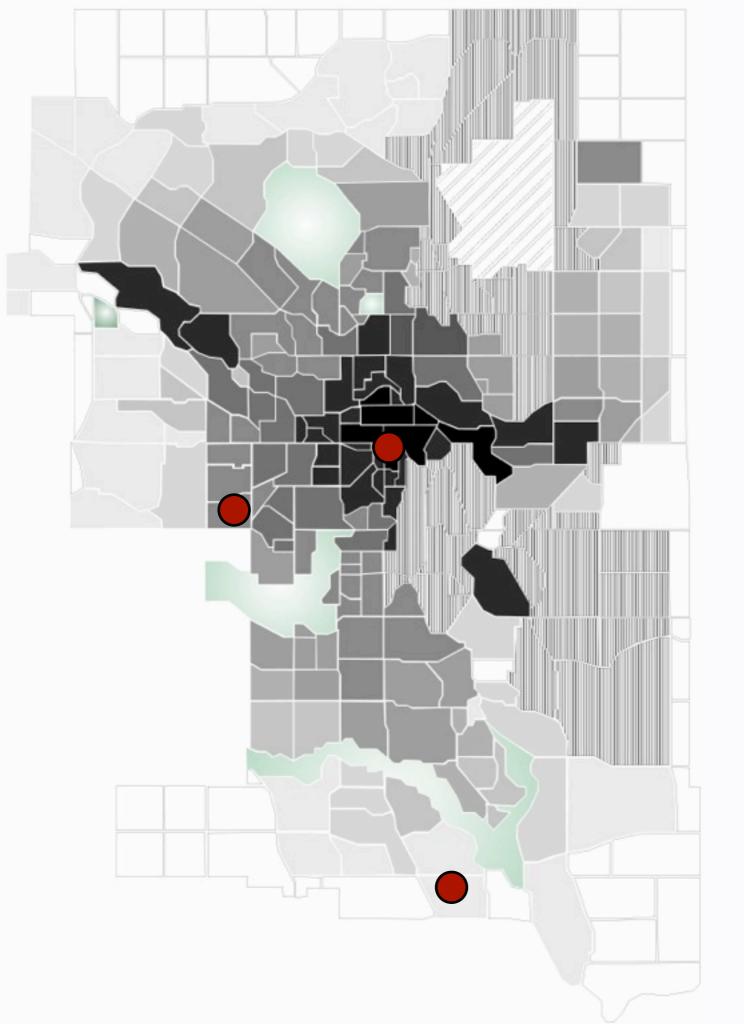




- private realm at the expense of the public realm







- changing quality of neighbourhood form

Roxboro 1910



Glamorgan 1953



Chapparal 2001



Globe and Mail 2005

Globe and Mail 2008

THREE FOR THOUGHT

WHAT YOU NEED TO KNOW ABOUT . . . URBAN SPRAWL

The end of motor city

As gas and transport prices rise, so will the costs of our spreading, globally dependent economies. CLIVE DOUCET looks at how we got into this cul-de-sac

Openie are composed of sto-city's streetcar lines. Unfortunately tures a complex truth in a heartbeat. There isn't a moment in the landscapes, as opposed to how

ries, not atoms" is one of my suburbs haven't been built around favourite aphorisms. It cap- anything but the car for 50 years.

When he writes about idealized day that we are not defined by the postwar suburbs really are, Carver's stories we carry around in our book is at its most attractive. His



Unfortunately, suburbs haven't been built around anything but the car for 50 years.

ENVIRONMENT

Read my ... er, book: It's the oil, stupid

HOT, FLAT, AND CROWDED

Why We Need a Green Revolution - and How It Can Renew America By Thomas Friedman Farrar, Straus & Giroux, 438 pages, \$30.95

REVIEWED BY ANDREW NIKIFORUK

n 2001, the U.S. military had a hell of a problem resupplying its diesel-run military bases in Iraq's Anbar Province with fuel. Low-carbon insurgents strategically, and repeatedly, attacked the high-carbon truck convoys with roadside bombs, and the body-bag count became obscene.

the corrosive political influence of hydrocarbons, the moral collapse of his country and the dangerous threat of climate anarchy, but sounds as though he could be railing against the ineptitude of Canadian elites (a carbon copy of the Bush crowd), you know you have an important and timely book in your hands.

In fact, Friedman's incisive attack on the "Dirty Fuels System" reads like a well placed blow against the continent's power brokers, whose primary energy motto remains "as dumb as we wanna be."

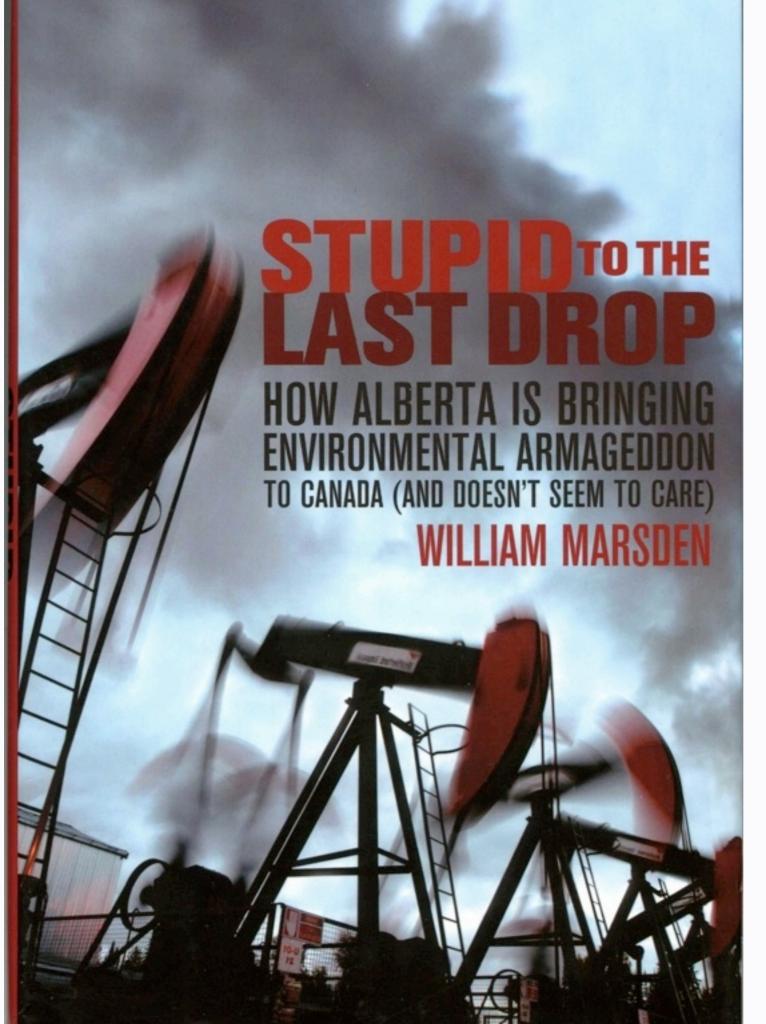
The United States, argues the Pulitzer Prize-winner and



Friedman: The sooner we lessen oil's influence, the

velopment, for example, doesn't just undermine a forest, but funds Ottawa's climate-change blindness and vote-buying tax reductions. (Contrary to the recommendations of the International Monetary Fund, Canada does not report oil revenue transparently and has no sovereign fund.) Middle East oil, of course, fuels terror, corrupt government and religious fanatics. Russian crude energizes 19th-century-like gangsterism. The sooner we lessen oil's influence in global affairs, Friedman argues, the safer democracies will be. For climate doubters and

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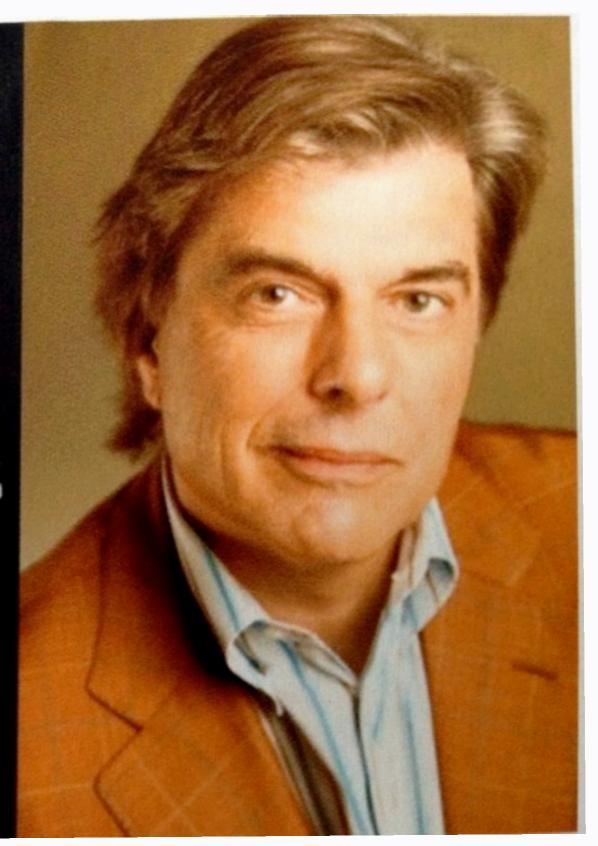
WIlliam Marsden 2007

WHY YOUR WORLD IS ABOUT TO GET A WHOLE LOT

SMALLER

JEFF RUBIN

OIL AND THE END OF GLOBALIZATION



Jeff Rubin 2009

> this is all good news

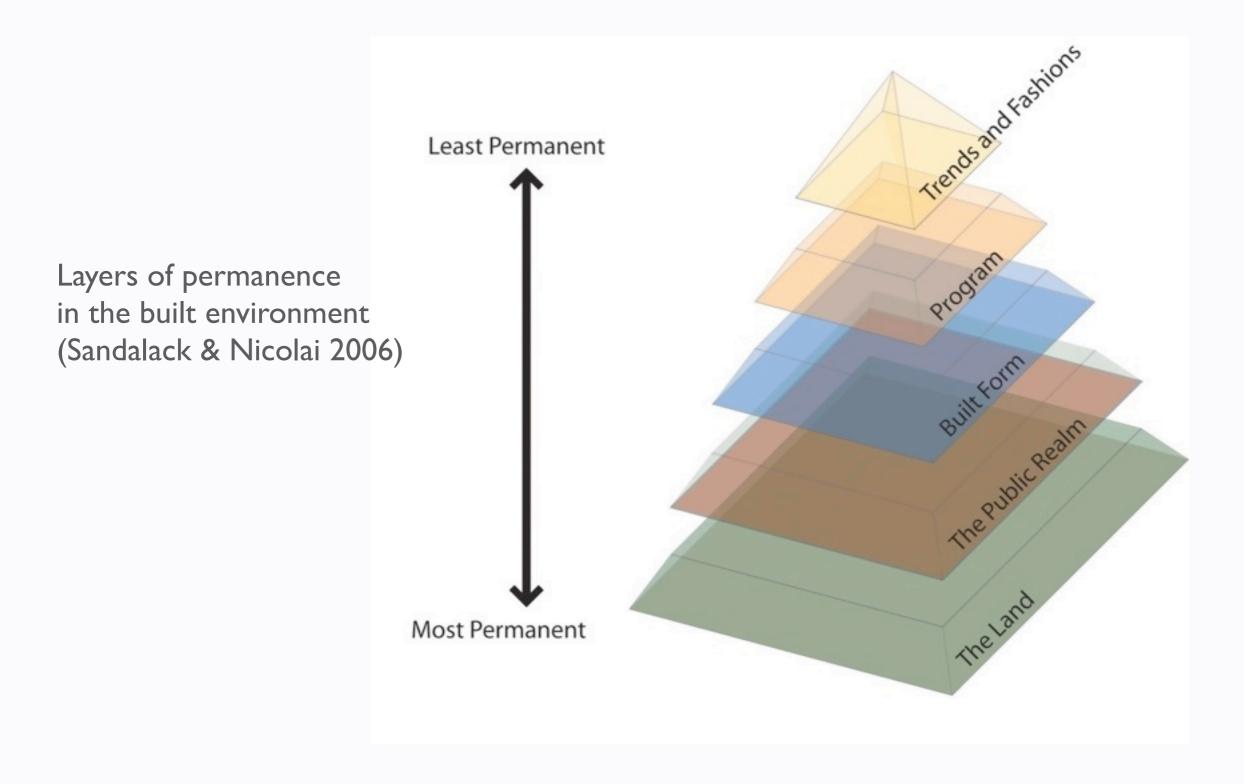
- > fourth phase of urban development?
- paradigm of sustainability and emphasis on public realm
- interdisciplinary approach landscape architecture understanding of systems, relationships, planning and design at multiple simultaneous scales
- a landscape approach to urbanism?

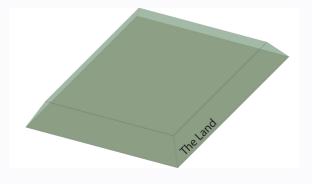






A framework for environmental design





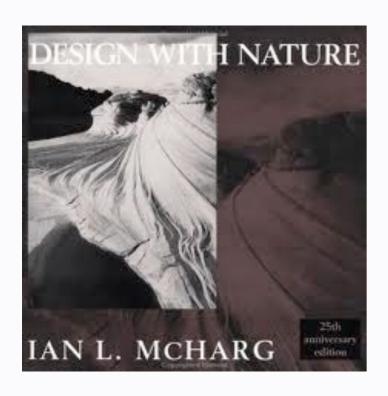
the land and environmental factors

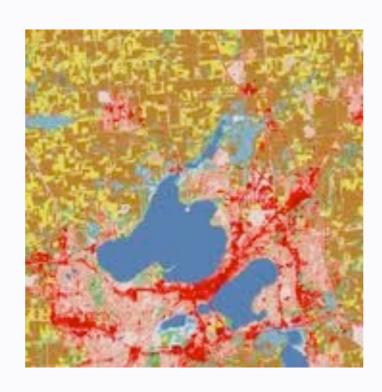


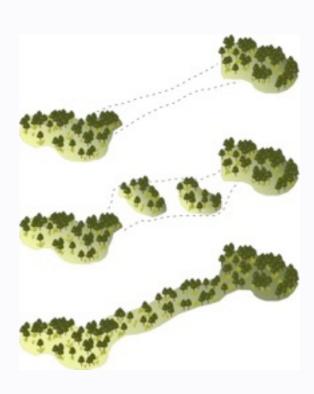


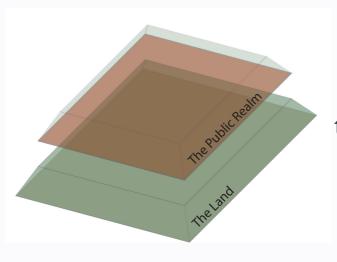


- > Ian McHarg Design with Nature
- > Richard TT Forman and Michel Godron Landscape Ecology and others
- > William March Landscape Planning









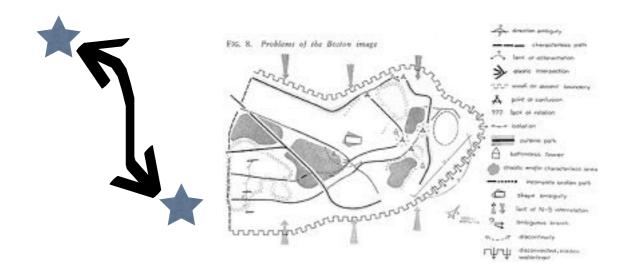
the public realm

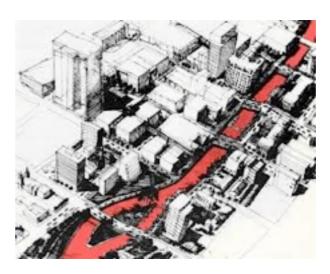






- > Kevin Lynch Image of the City and others
- > Gordon Cullen sequential experience
- > Fumihiko Maki and others linkage theory









Banff Avenue and Cascade Mountain

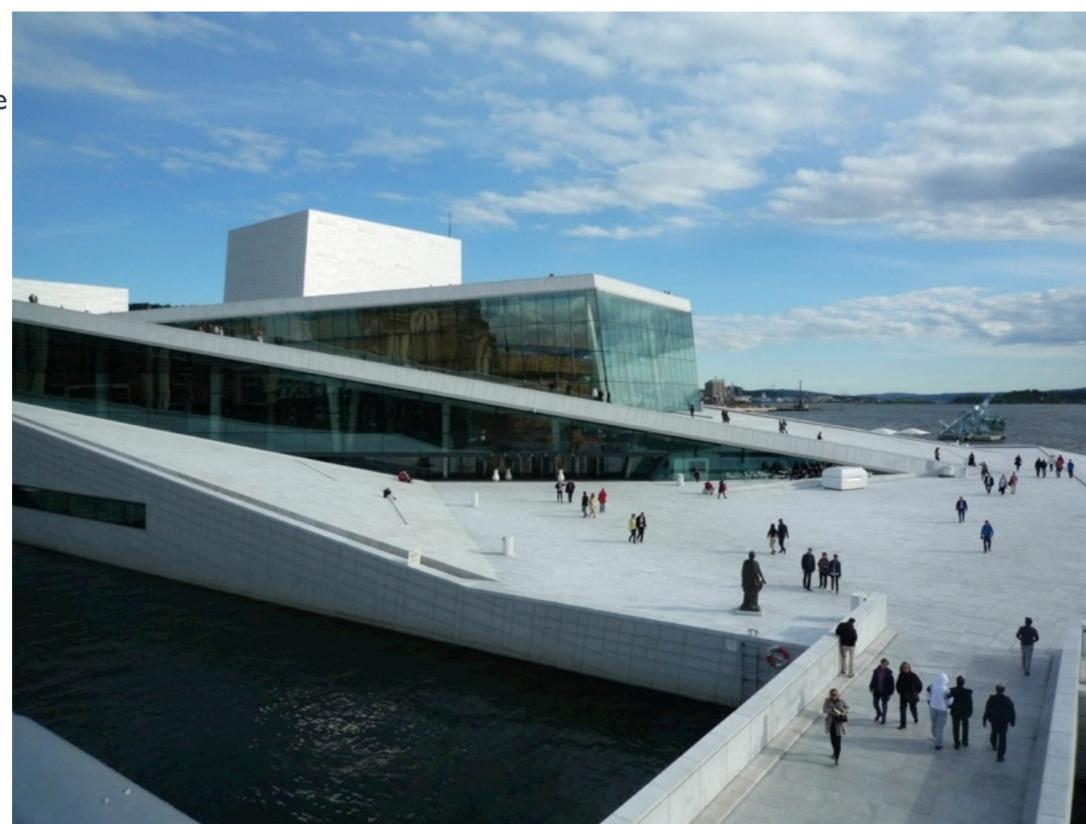


- designed with the landscape
- 4 season/all time use





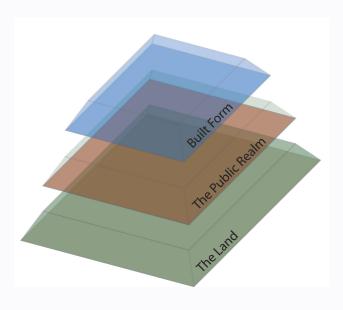
> Oslo Opera House Snohetta and others



> it's only money!





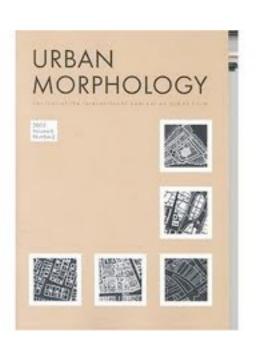


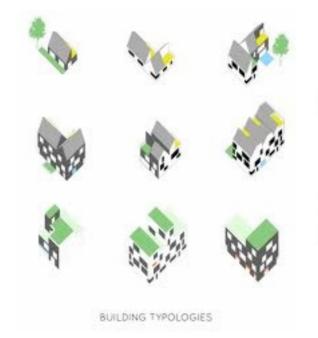
built form



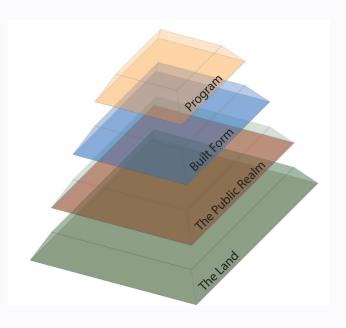


- > 3 schools of urban morphology (Conzen UK, Muratori and Caniggia Italy, Castax and Panerai France), also Anne Vernez Moudon and others *Urban Morphology*
- > Aldo Rossi urban typology









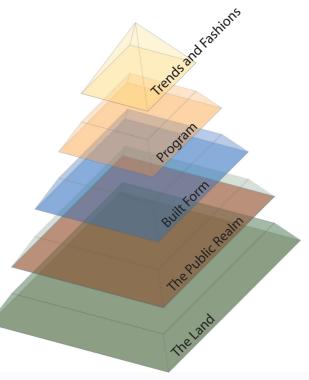
program

Aim for more resilient building types that can accommodate changing uses.....



Rather than single-use building types - become obsolete as needs change





trends and fashions











- > theoretical framework exists already, emphasizes understanding of systems, relationships, consideration of various scales simultaneously
- > landscape and the public realm as the organizing infrastructure of urban form
- > sometimes the most innovative thing is just to do the right thing landscape architecture has been too silent?
- > the 21st Century time for landscape architecture to finally take the lead
- > where to next????



thank you ~ merci

Bev Sandalack sandalack@ucalgary.ca I 403 615 4655







www.sandalackassoc.ca