

Agenda for Sept. 20



- Potential Guest Speakers

Dr. Todd Randall (Confirmed)

- City of Thunder Bay? - Aaron Koch (Chicago Resilience Office)?
- Field trip
- Topics
- Lecture 3: Sustainable Communities
Cities, Towns, Regions

Field Trip: *Nolalu Eco Centre*



Northern Ontario's largest solar- and wind-powered straw bale house

Date: October
16,17,18 ?

Tours are usually 1.5 to 2 hours include drinks and snacks and Q&A and are \$4.00 pp for groups over 8. (small groups \$5 pp)

Sustainable Communities Ancient Cities to Current Policies Geography 4771



SEPT 20, 2017

GRAHAM SAUNDERS



Photo Credit: J. Jorgensen

Minoan Civilization

The “100 Cities of Crete”



KNOSSOS

Settlement dates about 9000 BP. Palace dates at 3900 BP.

PHAESTOS

Late Neolithic to late Bronze Age. Settlement 5000 BP. Palace dates at about 3850 BP. Palaces built at the start of Middle Minoan period.

Art and Technology



Architecture and design

Drinking water and sewage :

Like Wells

Earthquakes

Ancient Rome



753 BC to 476 AD
Romulus and Remus,
on 21 April 753 BC

Extent of Roman Empire



Source: <https://www.timemaps.com/civilizations/ancient-rome/>

Roman infrastructure



City street in Pompeii

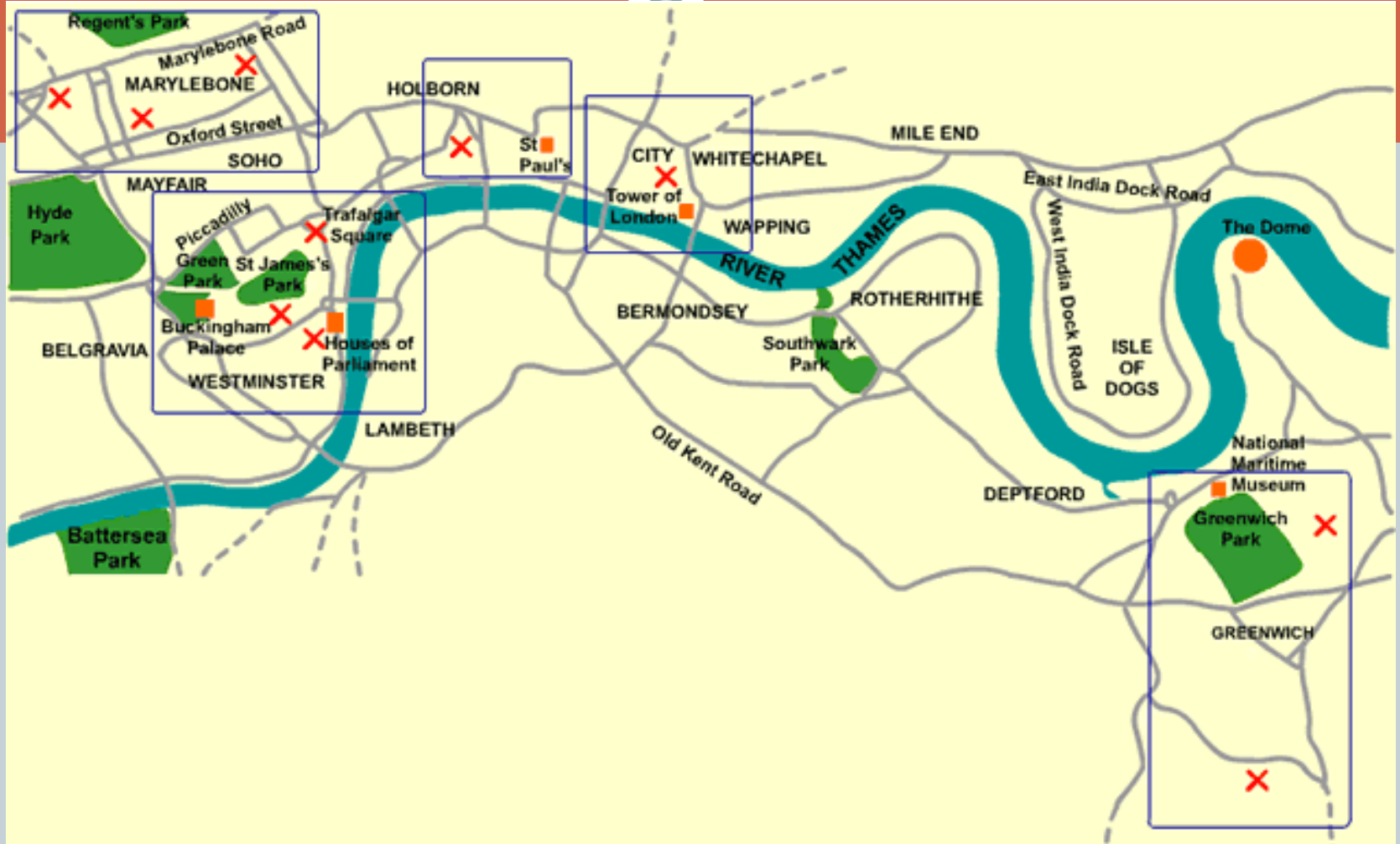
Local roads, streets and wide long-distance highways that connected cities, major towns and military bases.

Major roads were surveyed courses, often stone-paved, cambered for drainage, flanked by footpaths and drainage ditches.

29 major military highways and 372 roads connecting 113 provinces more than 400,000 kms.

In Britain at least 4,000 kms, some are overlaid by modern roads.

London: circa 1500 AD



Source: <http://www.nationalarchives.gov.uk>

Paris: 1615 AD



Romans
conquered
Basin in 52 BC

Town named
"Lutetia" by Julius
Caesar.
Later Lutetia
Parisiorum

Regular grid-plan
of a Roman city
(300 Roman feet)

Source: <http://www.oldmapsofparis.com/>

New Suburb Planned With Stores, Churches, Industries



NEW TORONTO SUBURB of Yorktown is envisaged in \$200,000,000 development planned for 2,200 acres of North York township land located on Don Mills Rd. as indicated in this sketch of the project which locates many of its main

developments. Homes for 45,000 people, stores, churches, schools, roads, sidewalks and even an artificial lake are included in the plans of the Don Mills Development Co. headed by E. P. Taylor. Land was purchased during past six years

PLAN TOWN OF 45,000 ON DON MILLS FARMS WILL COST \$200,000,000

By PAUL L. FOX

A \$200,000,000 development which is going to create a new Toronto suburb, Yorktown, with a population of 45,000 people, will be located in the Toronto Metropolitan area within the next few months. The project is located on what is now 2,200 acres of farmland on Don Mills Rd. in North York township.

Full largely in the planning stage, the development is being made by the Don Mills Development Co., headed by E. P. Taylor. The investment to be made represents homes for the 45,000 population, stores, churches, schools, roads, sidewalks, recreation, industries and even an artificial lake.

Old Families to Stay

The land which is to be developed has been purchased over the last six years by the development company. Although thousands of lots of the old families in the area will still own the farms their grandfathers bought, the old families will not leave the area.

Harold Gwynne, 75, has retired to a small farm house on a seven-acre tract of land at the corner of the 200-acre farm his grandfather bought more than 100 years ago. B. H. Muirhead, whose farm has been in the family for 85 years, has been given the use of the family house.

MEXICAN WOMEN SOON TO GET VOTE

Mexico City, March 12.—(AP)—Mexican women are about to get the vote. A constitutional amendment to give the women the right to vote has been passed by 12 states—the number necessary to make it effective. The constitution that Congress has passed has the vote to complete ratification. A. Rodriguez, for President Juarez, said Congress will put the new law into operation.



OLD OIL LAMP which she converted to electricity is displayed by Mrs. Emma Duncan, Farmhouse in land for 100 years will be in the centre of suburb to be developed



MRS. B. H. MUIRHEAD of Don Mills Farm which is being subdivided is seen with collie. House stands with marks line of projected house

EXTENSIVE AUCTION SALE
Herd of 42 Registered & Cross

HOLSTEINS

REGISTERED, BLOOD TESTED - 4 VICTIMS
STOCK, 2 TRACTORS, COMBINE, IMPLEMENTS, ETC.

B. H. MUIRHEAD

Owner Don Mills Rd. & Lawrence Ave.
WEST 11th St. corner 49 WINDING RD.

TUES. MARCH 24

AUCTION SALE of herd of registered Holsteins will be held March 24 by B. H. Muirhead whose family have operated farm for 92 years. While land is to be subdivided, Mr. and Mrs. Muirhead may stay as long as they want.



RURAL MAIL CARRIER, J. Wosley who delivers on Don Mills Rd., hopes he gets help when the 15,000 homes are built in the new community of Yorktown. Some 500 houses are expected to be built on Muirhead, nearby farms this year.

EX-EMPLOYEE OF HYDRO HOMESICK ROBBER SUSPECT

A Toronto Hydro employee, who police charge was an ex-employee of a major power substation in Toronto, will be flown to Toronto tonight and appear in magistrate's court tomorrow on more than half a dozen home-breaking charges.

Richard Wilson Lloyd Dale, who surrendered to police in Toronto and handed over a revolver, is being returned to Toronto, along with a number of other charges.

The revolver was identified as belonging to Dr. James Campbell, 4444 Ave. Rd., whose apartment was burglarized last spring. Police said Dale went to Vancouver and became "homesick" for Toronto. He got back as far as Winnipeg and ran out of fuel.

CAN'T SEE USER GETTING REFUND ON FURNACE TAX

Repeal of the 18 per cent sales tax on gas and oil burners and reconditioning will not bring refunds to users in hundreds of dollars for manufacturers — but it is not clear that will be gained on 10,000 units of the new equipment, a major power substation today.

The repeal, effective Jan. 1, will be made in manufacturing by the department of national revenue. The department will issue a refund to the manufacturer of the equipment will be made in manufacturing by the department of national revenue. The department will issue a refund to the manufacturer of the equipment will be made in manufacturing by the department of national revenue.

Col. John Ross, executive member of the British Columbia Association, will lead the first assault on the 1,000-foot peak.

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STUDENT, 23, LEADS FINAL EVEREST PUSH

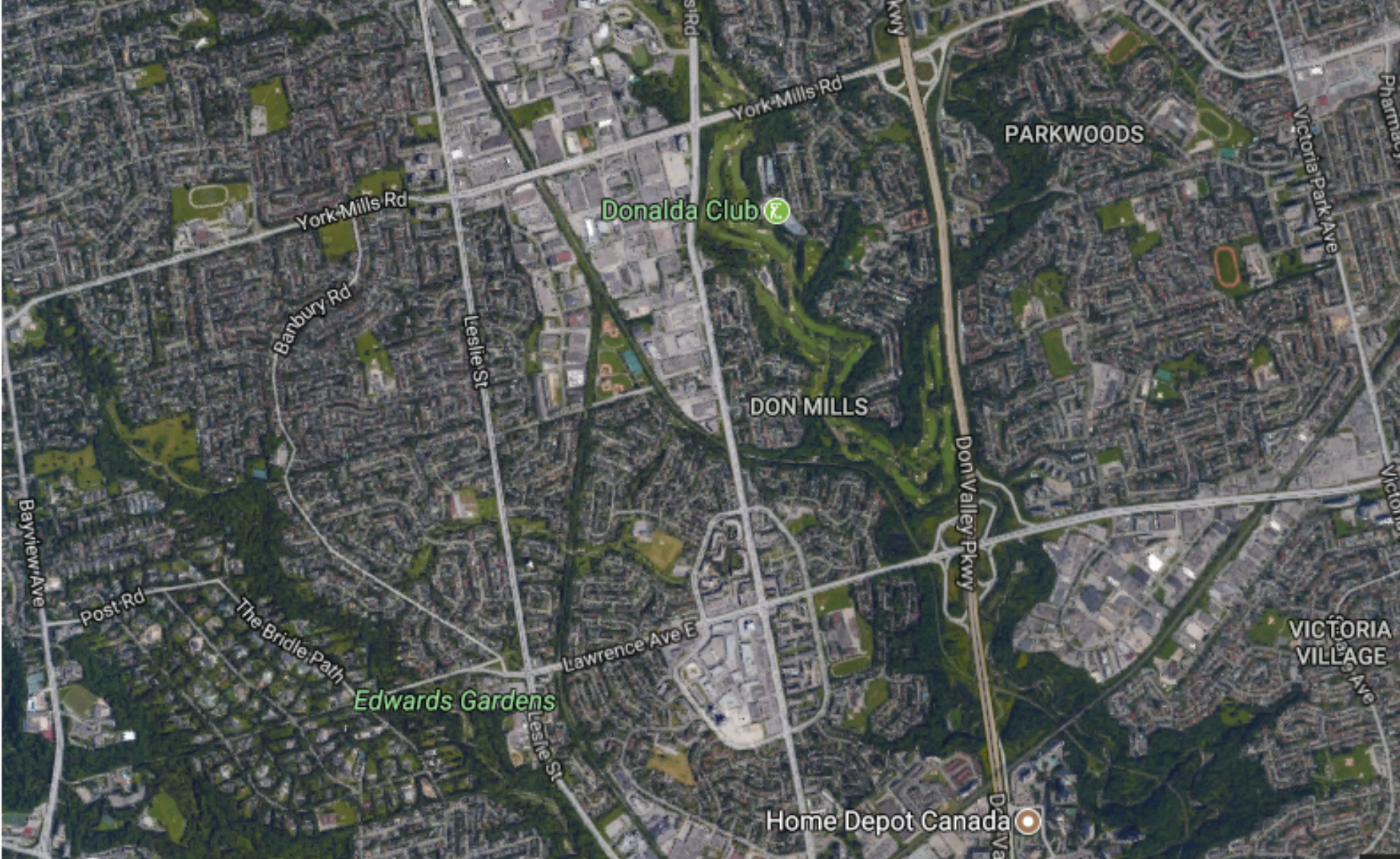
Karlsruhe, March 12.—(AP)—George Band, 23, executive member of the British Columbia Association, will lead the first assault on the 1,000-foot peak.

Col. John Ross, executive member of the British Columbia Association, will lead the first assault on the 1,000-foot peak.



Don Mills

Don Mills



Source: Toronto Star Archives and Google Maps



Sustainable Urban Development



The Ills of Current Urban Development

Postwar (WW2) North America

- more dispersed urban patterns
- segregation of land uses
- longer journeys to work

- even suburbanization in European & Asian cities (core vs suburban growth, 1965-2000, M'Gonigle and Starke [2006])
- hard to service these patterns by E-efficient modes of transport
- notable quotes



- *“Phoenix sprawls over the desert at a rate of 1 acre per hour ... commutes as long as 100 km from E. Penn to NYC.”*
- - Adler (1995)

- *“By designing decentralized suburbs, with little pedestrian or bicycle access to schools, offices, shopping and recreation, we have essentially engineered physical activity out of our daily lives.”*

- David Suzuki



- *“What we know is the likelihood of someone being obese is much lower where they can walk to shops and services near to where they live”*

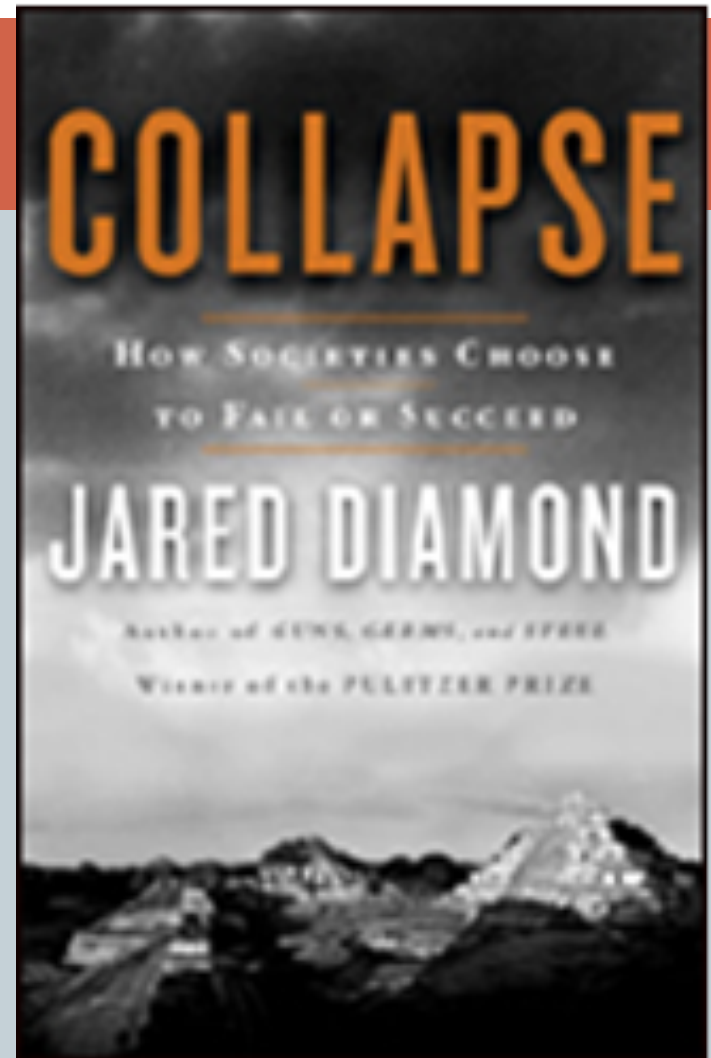
- K. Tomic,
Geographer, U. Alberta

- *“Sustainability means doing things better – not doing without. Right now, Canadians consume too much, and most of it is wasted. Less than 10 percent of the energy we generate is actually used for its intended purpose.”*

● -
David Suzuki



- What happens if and when the Developing World reaches our level of development and (heaven help them) our levels of consumption?



Jane Jacobs

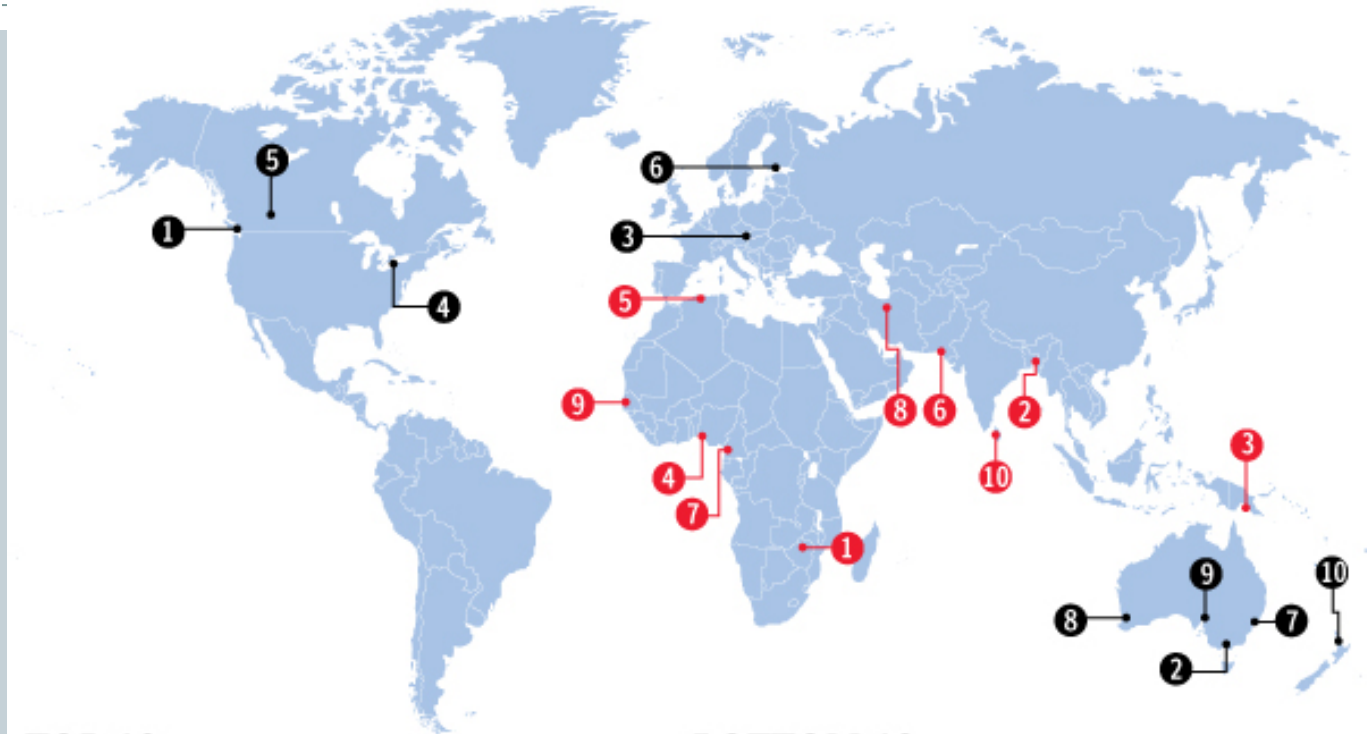
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- “Cities have the capability of providing something for everybody, only because, and only when, they are created by everybody.”
- Jane’s Walk is held the first weekend in May
- ***The Death and Life of Great American Cities*** was described by *The New York Times* as “perhaps the most influential single work in the history of town planning....[It] can also be seen in a much larger context. It is first of all a work of literature; the descriptions of street life as a kind of ballet and the bitingly satiric account”

THE WORLD'S TOP 10 AND BOTTOM 10 MOST LIVABLE CITIES

● Top 10 ● Bottom 10

in 2011



TOP 10

- | | |
|-------------------------|---------------------------|
| 1. Vancouver, Canada | 6. Helsinki, Finland |
| 2. Melbourne, Australia | 7. Sydney, Australia |
| 3. Vienna, Austria | 8. Perth, Australia |
| 4. Toronto, Canada | 8. Adelaide, Australia |
| 5. Calgary, Canada | 10. Auckland, New Zealand |

BOTTOM 10

- | | |
|-----------------------------------|------------------------|
| 1. Harare, Zimbabwe | 6. Karachi, Pakistan |
| 2. Dhaka, Bangladesh | 7. Douala, Cameroon |
| 3. Port Moresby, Papua New Guinea | 8. Tehran, Iran |
| 4. Lagos, Nigeria | 9. Dakar, Senegal |
| 5. Algiers, Algeria | 10. Colombo, Sri Lanka |

SOURCE: ECONOMIST INTELLIGENCE UNIT

ANDREW BARR / NATIONAL POST

Source: Andrew Barr / National Post,

Most liveable: 2017

1. Melbourne, Australia
2. Vienna, Austria
3. Vancouver, Canada
4. Toronto, Canada
5. Calgary, Canada
6. Adelaide, Australia
7. Perth, Australia
8. Auckland, New Zealand
9. Helsinki, Finland
10. Hamburg, Germany

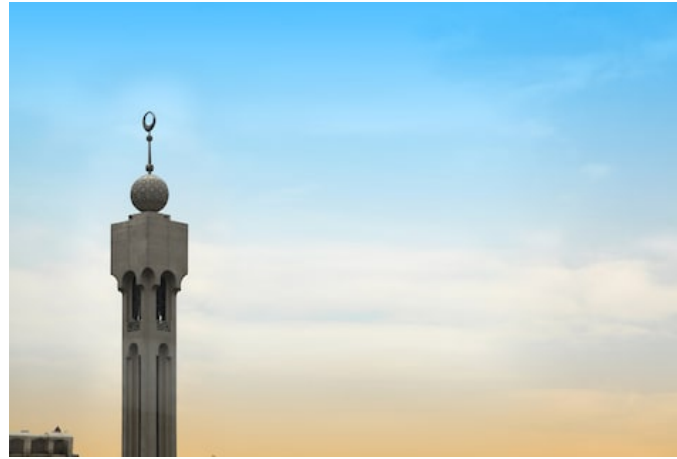


Melbourne at night

Photo credit: James O'Neil

Least liveable: 2017

Kiev	Ukraine
Douala	Cameroon
Harare	Zimbabwe
Karachi	Pakistan
Algiers	Algeria
Port Moresby	PNG
Dhaka	Bangladesh
Tripoli	Libya
Lagos	Nigeria
Damascus	Syria



Spire in Damascus

Source: <http://www.economist.com>

Connections between “Livable” and Sustainable Cities?

Many measures:

Employment, home ownership, safety, etc.

Sustainable Cities Index

<https://www.arcadis.com/en/global/our-perspectives/sustainable-cities-index-2016/>

Combination of 32 different indicators grouped

- 1. People (Social)**
- 2. Planet (Environmental)**
- 3. Profit (Economic)**

Top 10 Sustainable Cities of the World



- Europe has the greatest number of sustainable cities in the list of 100, and are in the top 10.
- Germany is the country that contributes the highest number of sustainable cities based on this study.
- Asia is the second continent with more sustainable cities in the list
- Highest ranked North American city is Vancouver (Canada) #23
- Santiago de Chile (Chile) is the top South American City
- In Australia the urban area with a higher value is Canberra (Australia) #28.

Top 10 Sustainable Cities of the World, (2)



- Zurich (Switzerland)
- Singapore (Singapore)
- Stockholm (Sweden)
- Wien (Austria)
- London (United Kingdom)
- Frankfurt (Germany)
- Seoul (South Korea)
- Hamburg (Germany)
- Prague (Czech Republic)
- Munich (Germany)

For Friday, Sept. 22



Measuring sustainably

Vancouver Example

Agenda for Sept. 15



- Potential Guest Speakers

LCRA - Lakehead U? - Dr. Todd Randall - Grassy Narrows?
- City of Thunder Bay? - Aaron Koch (Chicago Resilience Office)?

The choices likely have to be limited to two!

- Field trip

- Topics

- Lecture 3a: Sustainable Communities
Cities, Towns, Regions