

# Rating Green Cities

European cities are a powerful source of potent ideas and inspiring practice.

Are they models for American sustainable cities?

How can we evaluate them?



## Global Cities

from **SquintOpera** HD 3 years ago NOT YET RATED

The Global Cities Institute focuses on the evolving role of cities and regions in realising social, economic and environmental aspirations. The institute, a not-for-profit initiative by Aecom, draws on the company's fully integrated planning, design, engineering and management capabilities to help improve cities. The 'CITY' graphic creatively evolves with each description from growing to shrinking, green to arid, wealthy to poor. The film effectively and artistically explores this cross section of cities, questioning the approach on how to deal with these current urban problems.

<http://vimeo.com/27484133>

## Comparing the U.S. and Europe

United States	Europe
Autonomy	Embeddedness
Self-Reliance	Inclusive Relationships
Risk-Takers	Risk-Averse
Personal Wealth	Quality of Life
Private Property	Collective Responsibility
Nature: to be conquered	Nature: "invisible web of life"
Economic Growth	Sustainable Development
Emphasis on Work	"Leisure and deep play"

Source: Summary from Rifkin, *The European Dream*

### THE 100 BEST CITIES FOR PEOPLE AND THE PLANET

BY ALBERTO LUCAS LÓPEZ, DANIELA SANTAMARINA, AND KELSEY NOWAKOWSKI  
FOR NATIONAL GEOGRAPHIC

**London:** Overall 5<sup>th</sup>, Economic 3, Environmental 9, Social 37

**Edinburgh:** Overall 13, Economic 6, Environmental 22, Social 38

**Seattle:** Overall 43, Economic 33, Environmental 35, Social 61

**Vancouver:** Overall 23, Economic 29, Environmental 18, Social 23

14 of top 15 overall are in Europe

<http://www.nationalgeographic.com/environment/urban-expeditions/green-buildings/sustainable-cities-graphic-urban-expeditions/>

Amazon Spheres, NBBJ  
Seattle



## Green Architecture Taken Seriously

*Architects' Journal* reports, "Sustainability expert and architect Simon Sturgis has been drafted in to advise the RIBA Stirling Prize jury on the green credentials of this year's (2017) six finalists.

The move was instigated by newly arrived RIBA president Ben Derbyshire, who has made tackling climate change one of the top priorities on his presidential agenda."

2015 Stirling Prize  
Winner  
Burntwood School  
AHMM Architects



Garden Bridge, London  
Proposal accepted by  
Mayor Boris Johnson  
for construction in 2016,  
but scrapped in 2018





## The Freiburg Charter for Sustainable Urbanism

The Twelve	Guiding	Principles
<b>Spatial</b>	<b>Content</b>	<b>Process</b>
Diversity, Safety, & Tolerance	Education, Science, & Culture	Long-Term Vision
City of Neighborhoods	Industry & Jobs	Communication & Participation
City of Short Distances	Nature & Environment	Reliability, Obligation, & Fairness
Public Transport & Density	Design Quality	Co-operation & Partnership

# Beatley Paragraph Headings

- Sustainable Mobility
- Walking Cities
- Biophilic Cities
- Climate Change & Renewable Energy
- Sustainable Urban Metabolism
- Green Governance
- Models for the Future

Source: Green Cities of Europe

	Green	City	Scorecard	
Individual Isolated Reactive				Collaborative Integrated Networked
		<b>Mobility</b>		
Pvt. Car Only	o	o	o	Bikes/Transit Networks
		<b>Walkability</b>		
<u>Ped. Barriers</u>	o	o	o	<u>Ped. Friendly</u>
		<b>Biophilia</b>		
Brownfield	Barren Hardscape	Private Lawns and Gardens	Some Public Parks	Park Network
		<b>Carbon/Energy</b>		
Wastefulness	o	o	Incentives	Pro-Planet
		<b>Metabolism</b>		
Throughput (Goods in Waste Out)	o	o	o	Closed Loop (Waste as Input)
		<b>Governance</b>		
Selfishness Anarchy	Top-Down	o	o	Cooperation Collaboration
		<b>Planning</b>		
No Plan	o	Future Goals	o	Plan Fulfillment
		<b>Culture</b>		
Fear of Others	o	o	o	Celebrated Diversity Valued

# Rubric for Energy Production



5 bins from worst to best

<b>mobility</b>	Private Car Only				Bikes and Transit Networks
<b>walkability</b>	Pedestrian Barriers				Pedestrian Friendly
<b>biophilia</b>	Brownfield	Barren Hardscape	Private Lawns	Some Public Parks	Park Network
<b>energy</b>	Wastefulness			Incentives	Pro-Planet
<b>metabolism</b>	Throughput (goods in waste out)				Closed Loop (waste as input)
<b>governance</b>	Selfishness/Anarchy	Top-Down			Cooperation
<b>planning</b>	No Plan		Future Goals		Plan Fulfillment
<b>culture</b>	Fear of Others				Celebrated Diversity Valued

# The Green City Scorecard

# Copenhagen

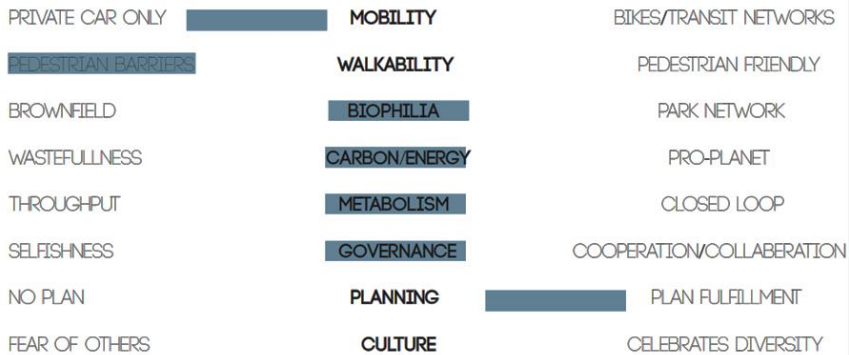


# The Green City Scorecard

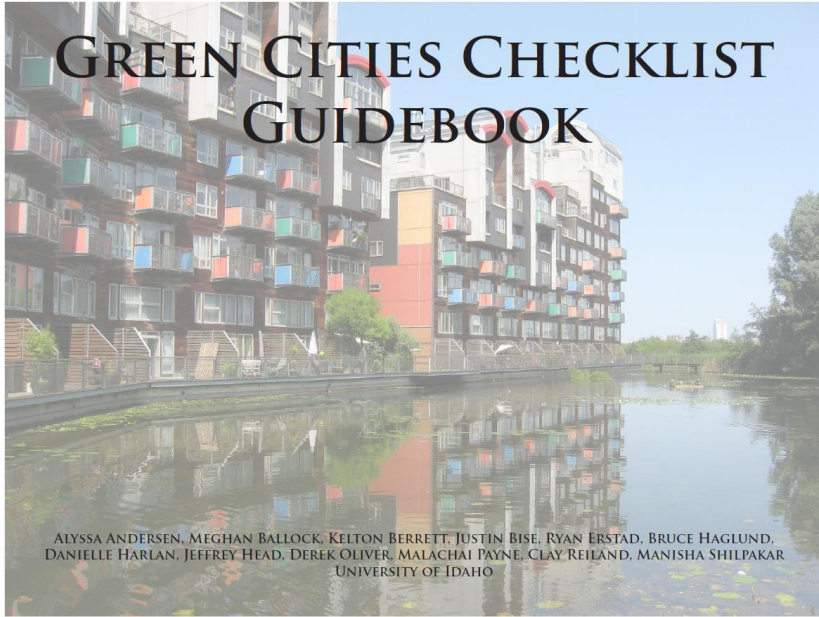
# Venice

## SCORECARD ANALYSIS

### GREEN CITY SCORECARD



# GREEN CITIES CHECKLIST GUIDEBOOK



ALYSSA ANDERSEN, MEGHAN BALLOCK, KELTON BERRETT, JUSTIN BISE, RYAN ERSTAD, BRUCE HAGLUND,  
DANIELLE HARLAN, JEFFREY HEAD, DEREK OLIVER, MALACHAI PAYNE, CLAY REILAND, MANISHA SHILPAKAR  
UNIVERSITY OF IDAHO

	INDIVIDUAL (ISOLATED, REACTIVE)			GREEN HOUSEHOLD			CITIES NEIGHBORHOOD COMMUNITY			CHECKLIST CITY, TOWN			REGION (INTEGRATED, NETWORKED)		
	P	IP	C	P	IP	C	P	IP	C	P	IP	C	P	IP	C
WHAT															



		GREEN			CITIES			CHECKLIST								
		INDIVIDUAL (ISOLATED, REACTIVE)			HOUSEHOLD			NEIGHBORHOOD COMMUNITY			CITY, TOWN			REGION (INTEGRATED, NETWORKED)		
WHAT		P	IP	C	P	IP	C	P	IP	C	P	IP	C	P	IP	C
PRIVATE AUTOS		ACCESS TO STREETS, HIGHWAYS, FREEWAYS														
CAR SHARES TAXIS		CAN CHOOSE TAXIS, CAR SHARES			USE CAR SHARES AND TAXIS			NEIGHBORHOOD CAR SHARES ELECTRIC CAR PLUG-INS								
BIKES CAR POOLS					MAY CAR POOL ACCESS TO BIKE PATHS AND LANES			NEIGHBORHOOD CAR POOLS, BIKE PATHS/LANES			CIVIC BIKE-SHARE AND BIKEWAY SYSTEM			FULLY INTEGRATED INTERMODAL TRANSPORT SYSTEM (BIKES+PLANES)		
PUBLIC TRANSIT								NEIGHBORHOOD BUS/TRAM LINES			CITY-WIDE TRANSIT SYSTEM					
PLANES TRAINS																



**ARCH 552**  
**BRITISH GREEN ARCHITECTURE STUDIO**  
**SUMMER 2019**

The 2017 seminar developed the Green Cities Scorecards based on the Green Cities Checklist.

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**UK Assignment**

**Journal.** While studying abroad, students are required to keep a **critical** journal of their experiences focusing on both sustainable architecture and green urbanism—in their three dimensions environmental, cultural, and economic. The journal can be handcrafted or computer-generated ... or any combination of the two modes of representation. Evaluation of the city's components vis-à-vis the appropriate [Green City Scorecards](#) would be appropriate and useful. Your journal should include:

- **Calendar.** A one-page summary of your itinerary, sites visited, and events attended.
- **London Discovery Experience.** Documentation and analysis of four [discovery experiences](#).
- **Green Buildings.** Critical analysis of buildings visited with commentary, sketches, diagrams, and photographs.
- **Office Visits.** Review of the office and body of work presented with comments, sketches, photographs.
- **Design Charette.** Critical presentation of the process and results of the charette.
- **Cultural Sites.** Reviews and analyses of museums, parks, theatres, and educational facilities. Note both green features (e.g., daylighting) and cultural significance. Illuminate with sketches, diagrams, and photographs.
- **Transportation.** Experience and analyze multiple modes of transportation. Comment on green aspects and cultural significance. Illustrate with sketches, diagrams, and photographs.
- **Conferences, lectures, and debates.** Critically review each presentation and illustrate as appropriate.

Use Adobe InDesign to it's fullest, create a comprehensive journal and export it as a reduced size PDF. InDesign offers auto pagination, paragraph style tagging, easily updated links to illustrations that you adjust in Photoshop or Illustrator, and seamless integration of text and illustration.

