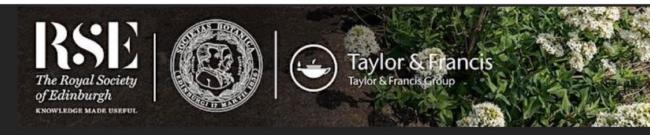
URBAN FLORAS: a contribution to biodiversity



Is Green Consciousness a pre-condition for Urbanity?

Prof Brian M Evans

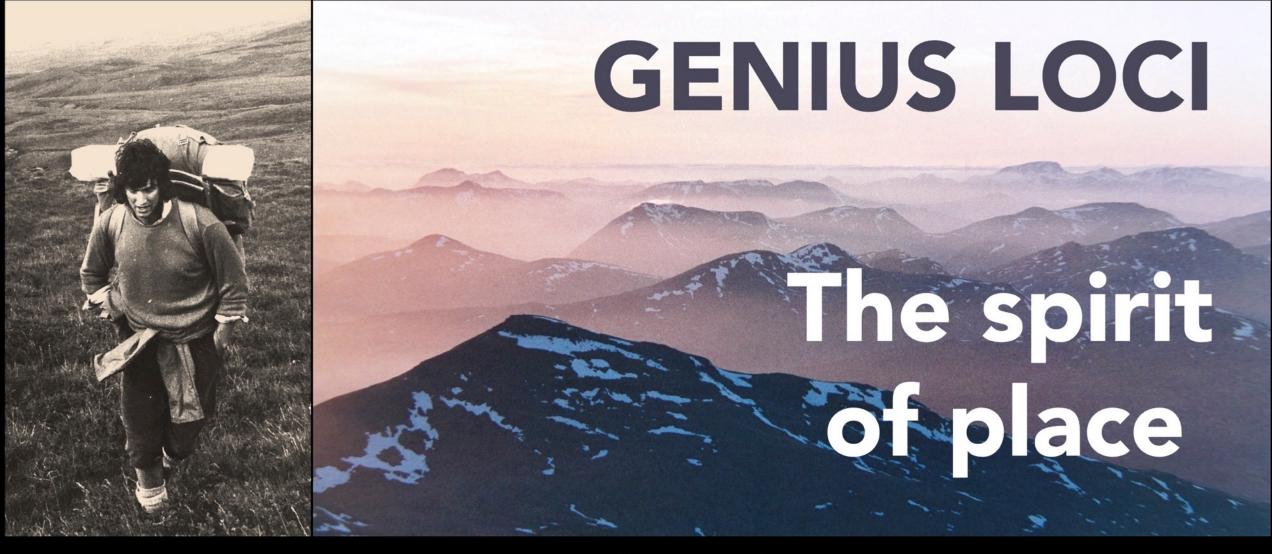
GL'ASGOW URBAN L'AB THE GL'ASGOW SCHOOL: PARL





THETRANS-ALASKA PIPELINE



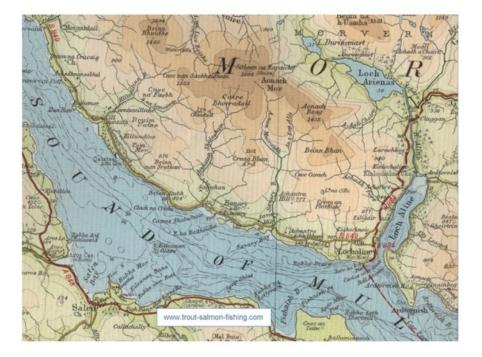


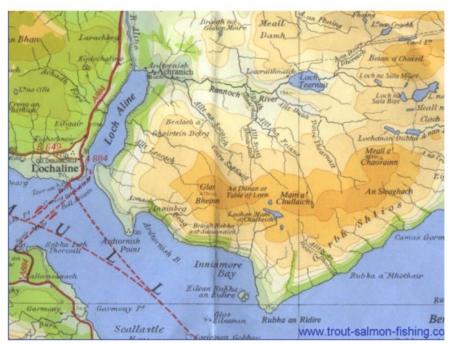
Breathes there the man with soul so dead, Who never to himself has said/This is mine own, my native land, Oh Caledonia, stern & proud, milk nurse to a poetic child.





Ardtornish Point







Occasional paper No 1

The Highlands and the Roots of Green Consciousness, 1750 - 1990

Chris Smout

A resource for LIVING

crofting, farming, fishing, forestry

A resource for SPORT

huntin', shootin', fishin'

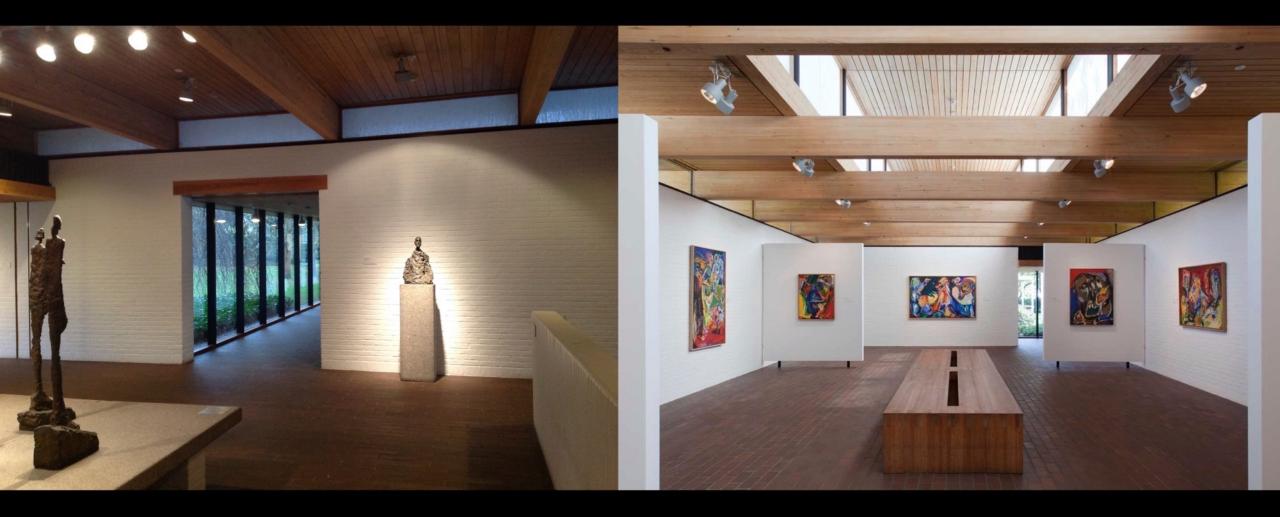
A resource for INDUSTRY

power, mining, minerals, power generation

A resource for NATURE

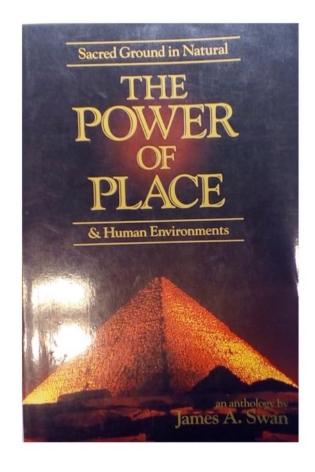
post-modern refuge for people and planet

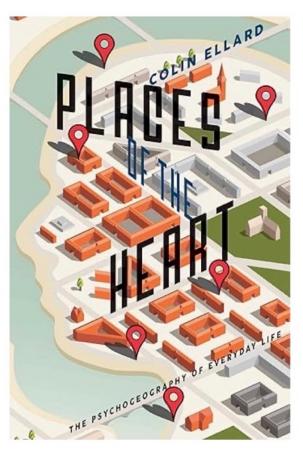












The Ubiquity of Place

Place is everywhere, places are all around us. Everywhere is some place. Place is a general construct, a concept that gives everywhere some qualities, some specificity whether cultural, social, environmental or economic. And these in turn connote other qualities – ceremonial, beautiful, tranquil, vibrant, community, busy, unloved places.

"Place is one of the most multilayered and multi-purpose words in our language."

Alessandro dell'Orto

Intervention by Design? Some Principles

Composition

Proportion

Form

Line

Light

Materiality

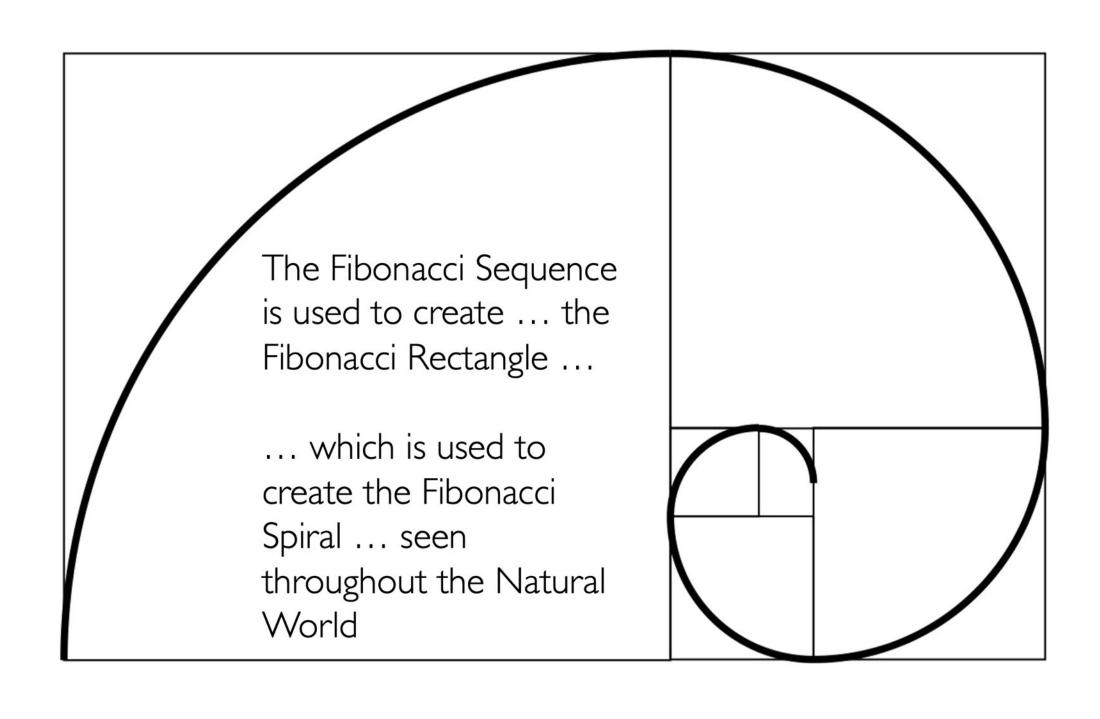


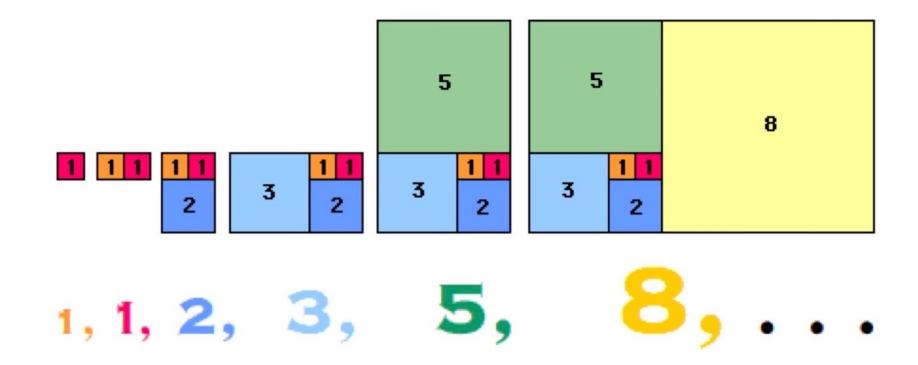
Outcomes

Beautiful?

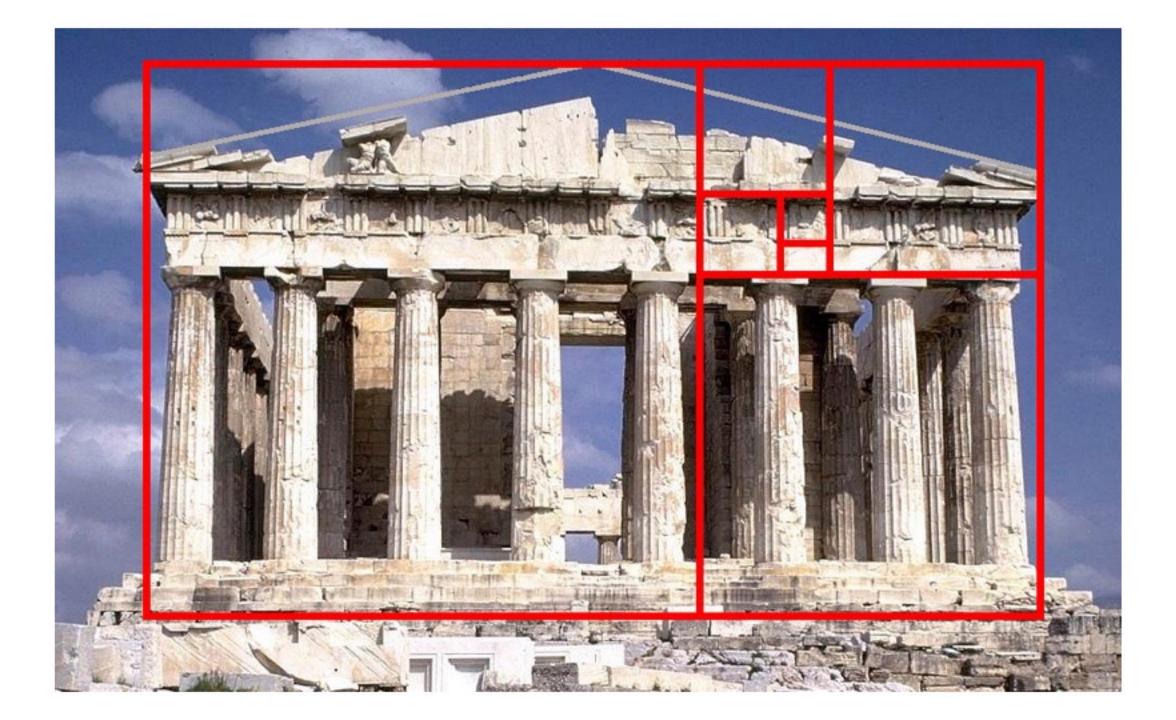
Ugly?

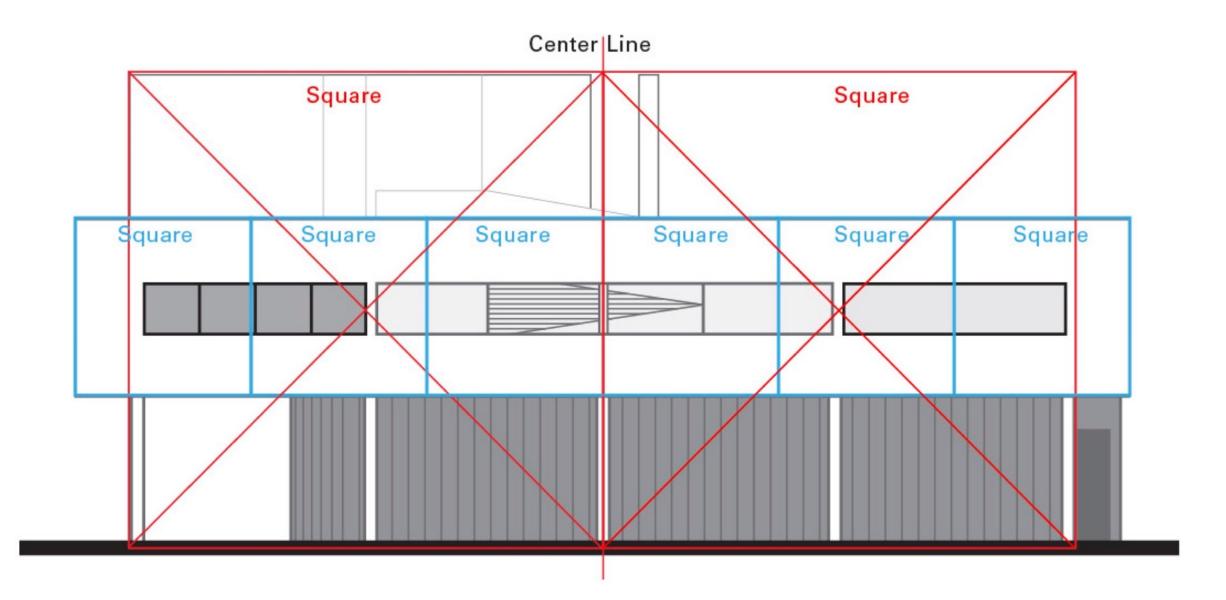
A Place?



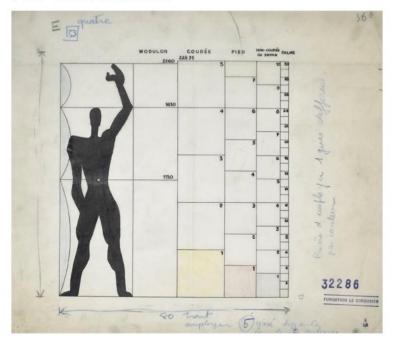


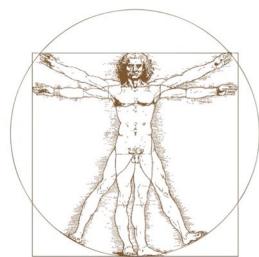
THE GOLDEN RATIO - 1 to 1.618



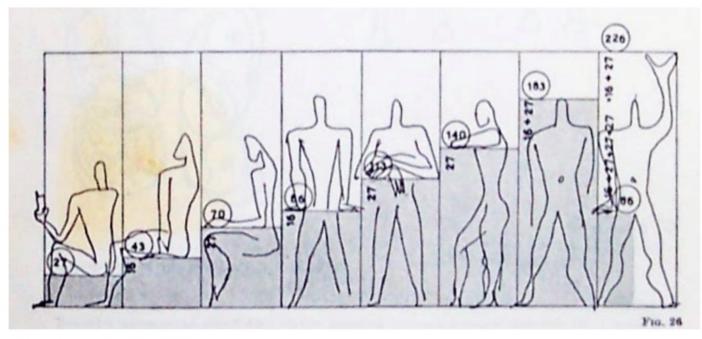


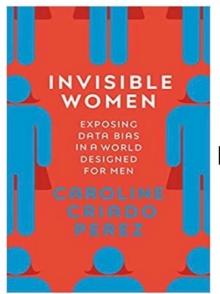
Le Corbusier





"Modular Man ..."

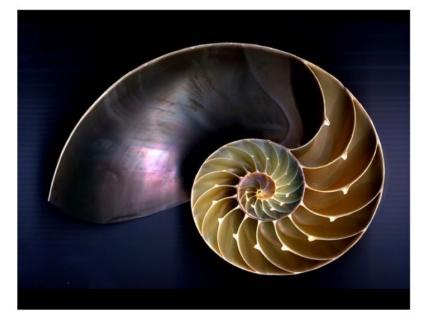




... and "Invisible Woman"

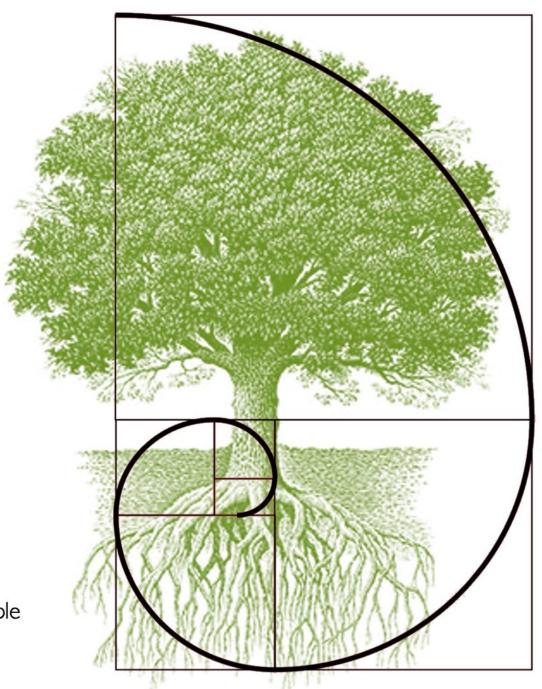
Exposes data bias in a world designed for men ... the gender politics of knowledge & ignorance.

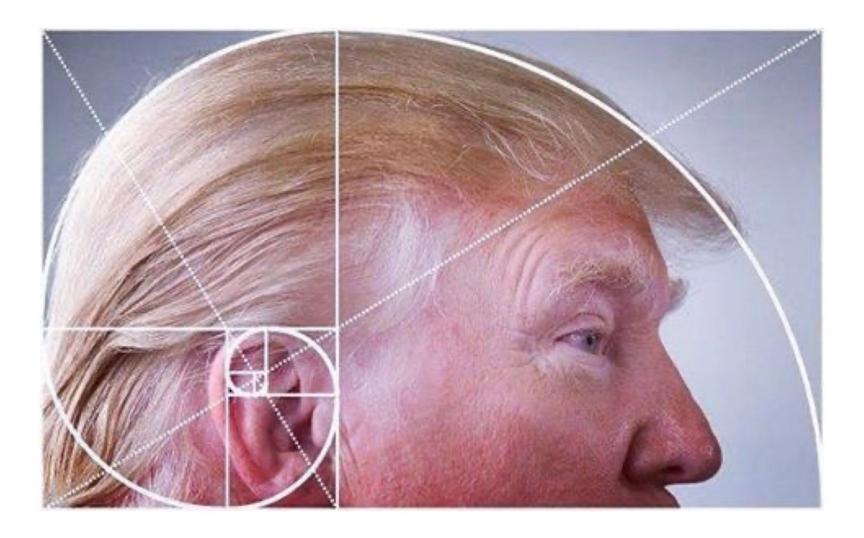
Caroline Criado Perez





The Fibonacci sequence and the golden ratio are invaluable **tools** to help us **understand and imagine** form and proportion... Evans, February 2021

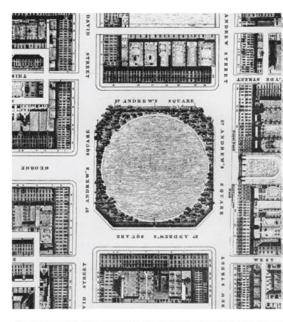


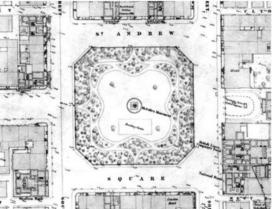


Mathematicians since Euclid have studied the properties of the golden section, to analyze the proportions of natural objects as well as man-made systems ... but we should always recognise the risk involved in "reductio ad absurdum" ...

Brian Evans, February 2021

ST ANDREW SQUARE EDINBURGH





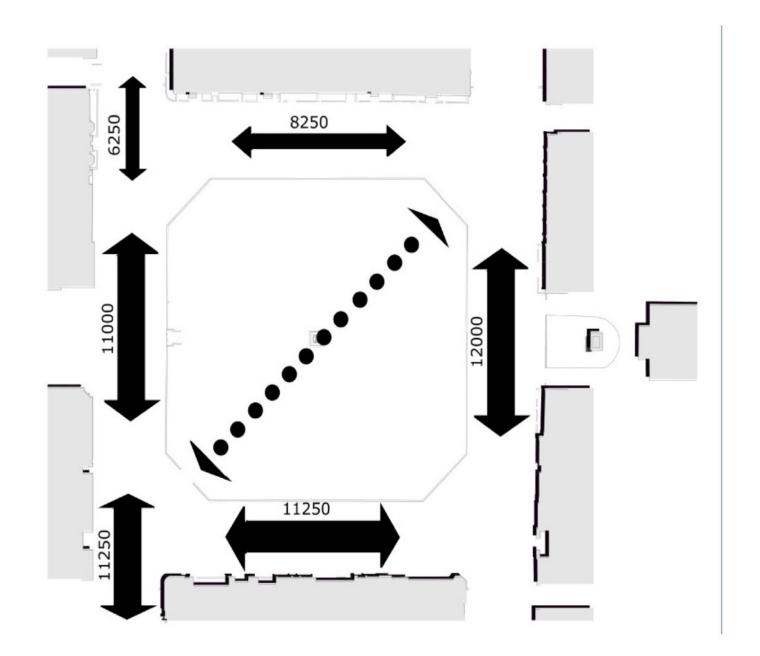
- I.To recovery of the original qualities of the Georgian Square;
- 2.To provide permanent opening to the public throughout the seasons and throughout the week;
- 3. To become a focal point for use during the Edinburgh International Festival;
- 4. To ensure that design and access was appropriate to 21st century standards; and
- 5. To fit the Square within the principal desire lines of the present new town to ensure activity in use.

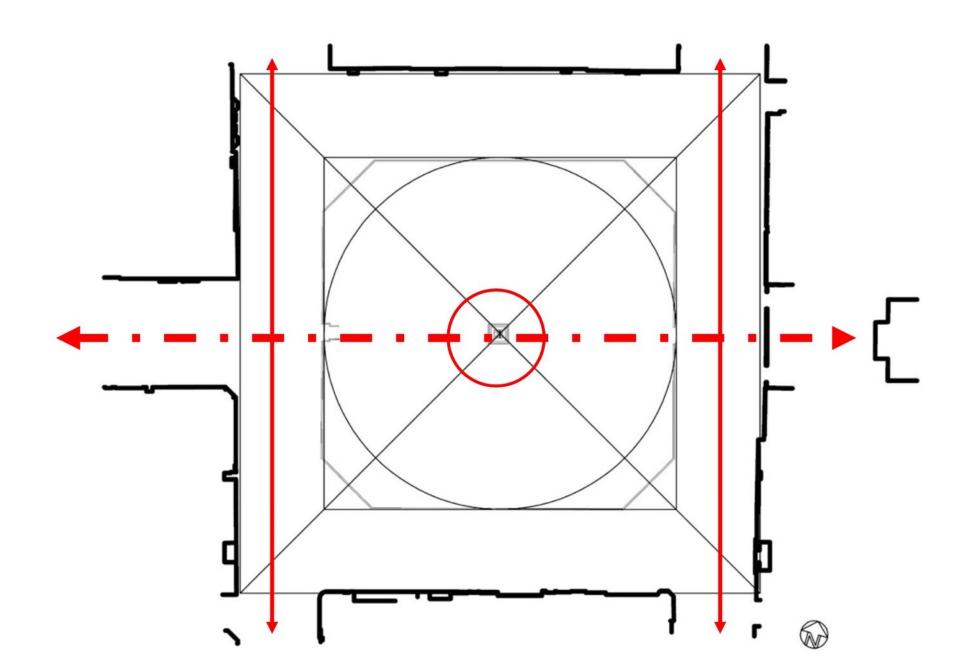
DESIGN DEVELOPMENT RECONCILIATION OF CONTRASTS

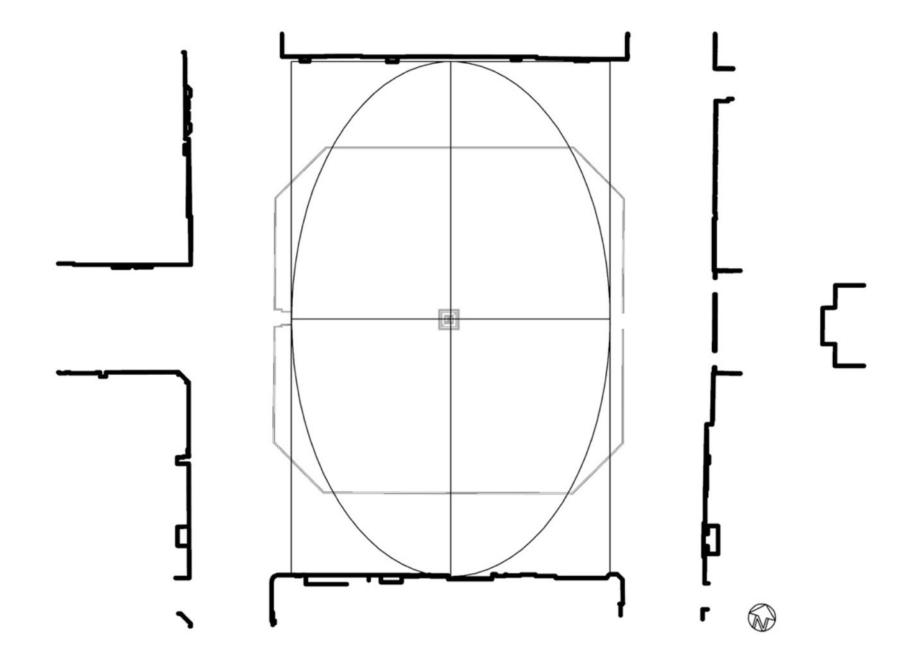
- Architecture
- Hard
- Formal
- Public
- Classical
- Active Day
- Lively Movement
- Sun Dry
- Exposed

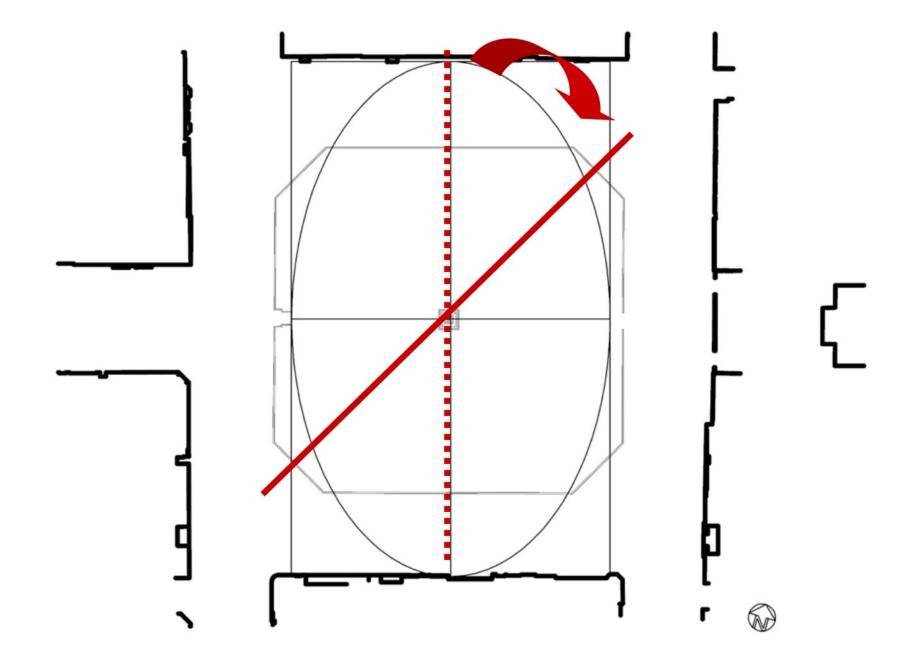
- Landscape
- Soft
- Informal
- Private
- Contemporary
- Passive Night
- Tranquil Rest
- Shade Wet
- Enclosed

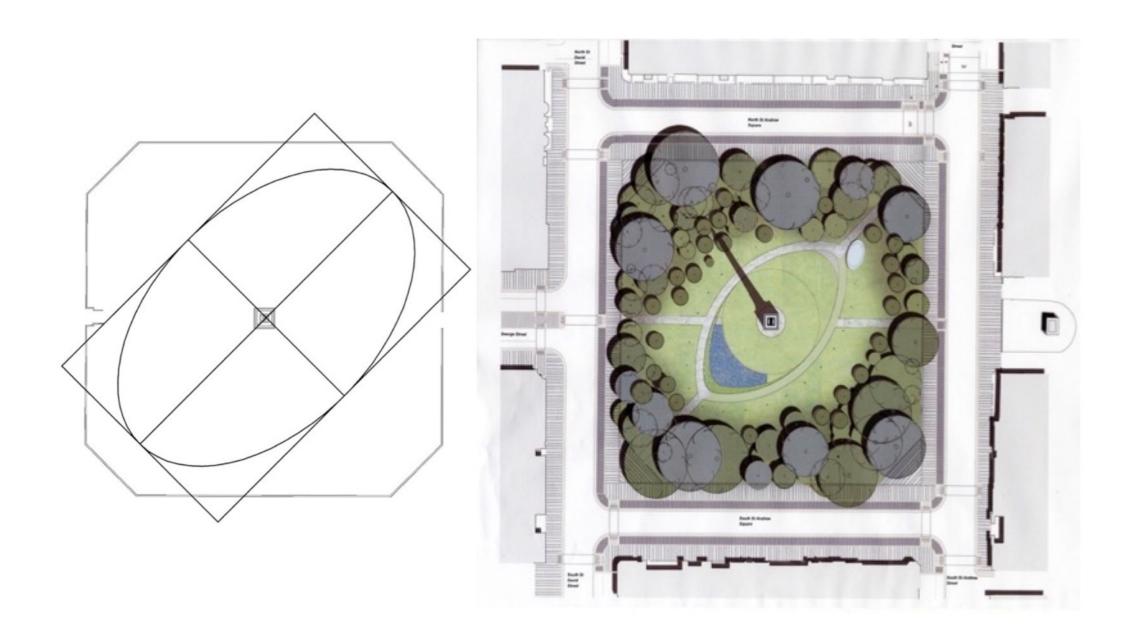


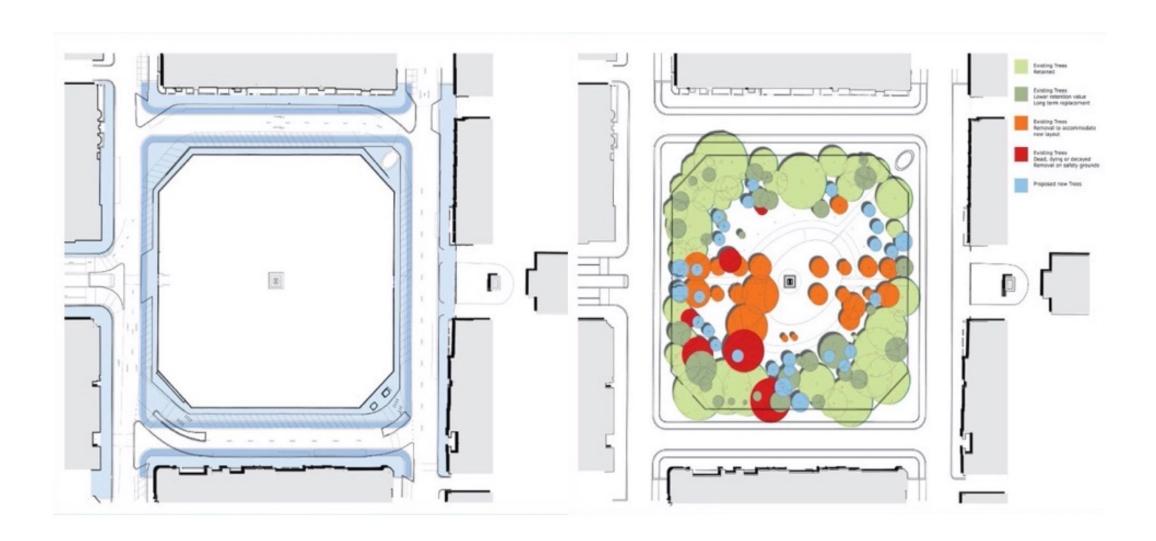
























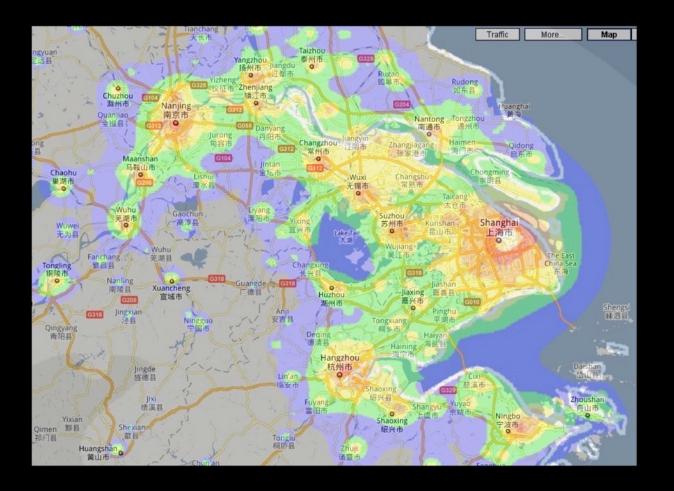


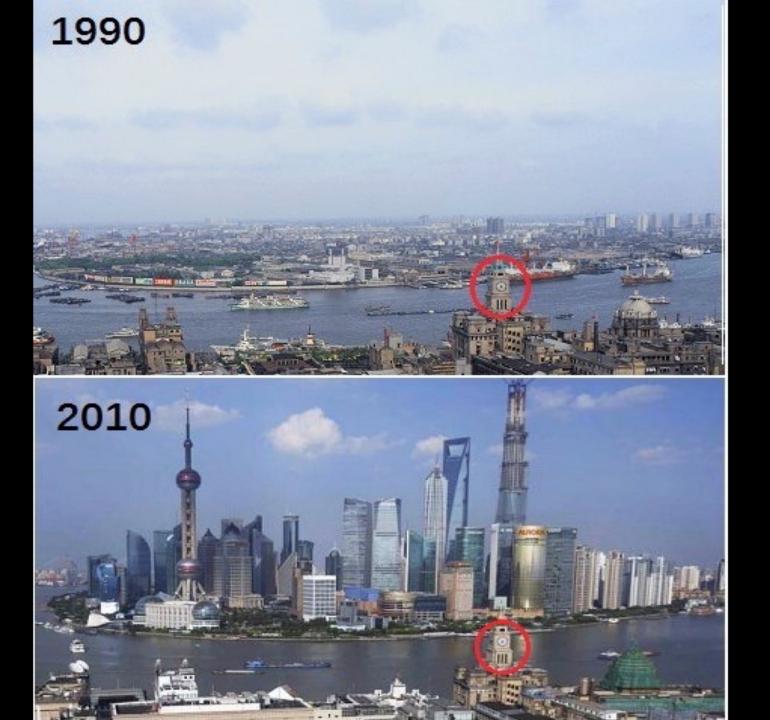
Edinburgh New Town 2012 – showing completed St Andrew Square Garden as a contribution to the landscape of the UNESCO World Heritage Site



























streets within the new community.

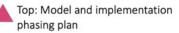


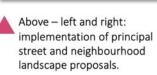














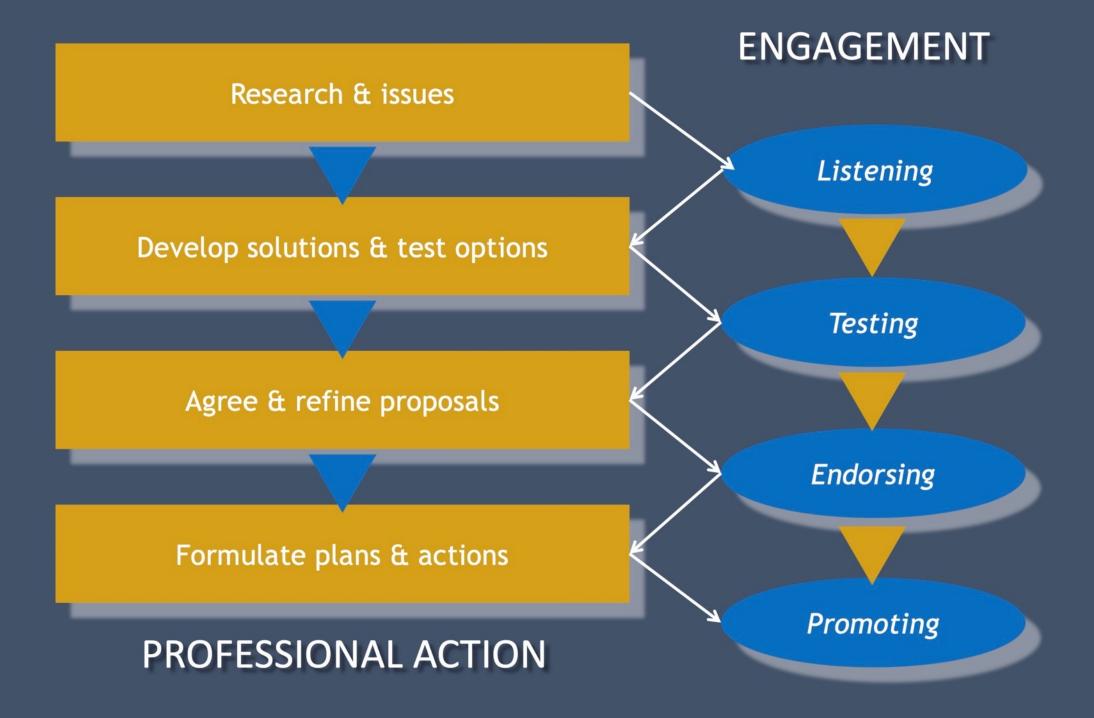








COMMUNITY ENGAGEMENT



 environmental concern begets environmental action

- sensitive intervention requires design skill
 - intervene by design, not by regulation

of people, by people, for people

THELAND THE PEOPLE

GENIUS LOCI Spirit of the Place ZEIGEIST Spirit of the Times

Source: Frank Arneil Walker 1999

SUPPLY Spirit of the Place DEMAND Spirit of the Times

Source: Frank Arneil Walker 1999



https://sustainabledevelopment.un.org/





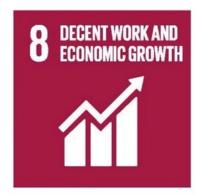
































Transforming Our World - Agenda 2020: The Global Goals



Article 2:

comprehensive, far-reaching and **people-centred** universal and transformative goals and targets

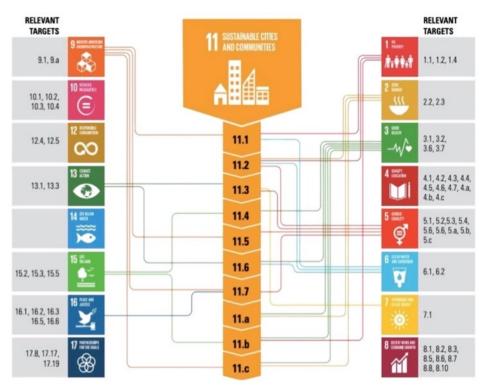
Article 5:

integrated and indivisible to balance the three dimensions of sustainable development — economic, social and environmental

Systems Design

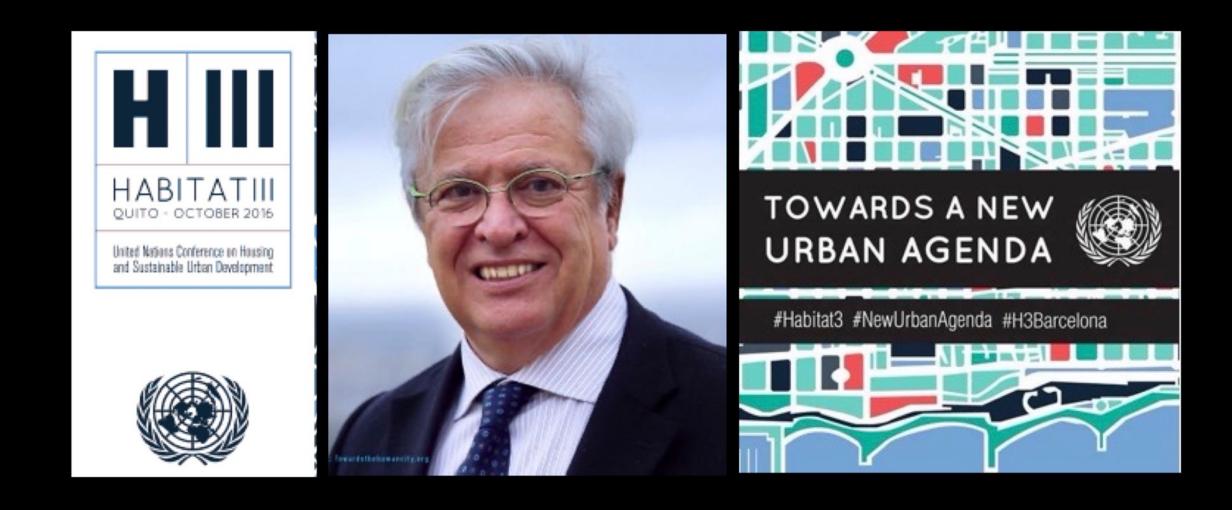
Transforming Our World - Agenda 2020: The Global Goals



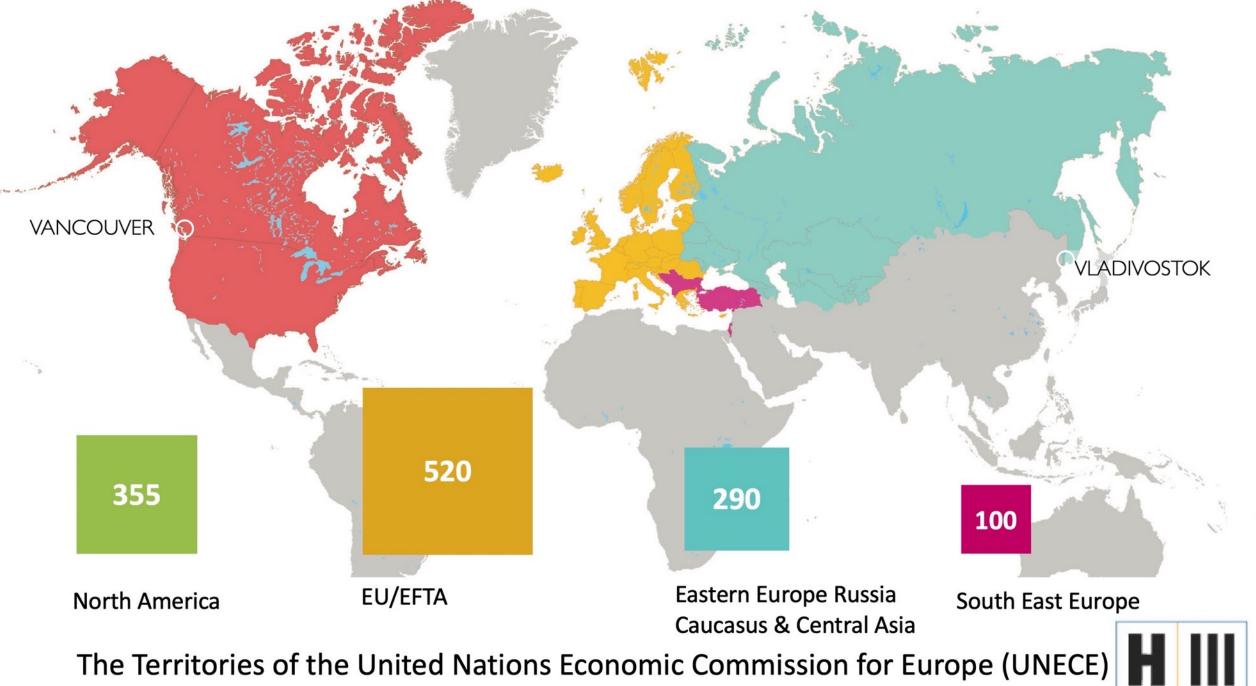


Systems Design

GL'ASGOW URBAN L'AB THE GL'ASGOW SCHOOL : ARL



Joan Clos: a paradigm shift from issue to action HABITAT III – Focus on the CITY – 'A NEW URBAN AGENDA'



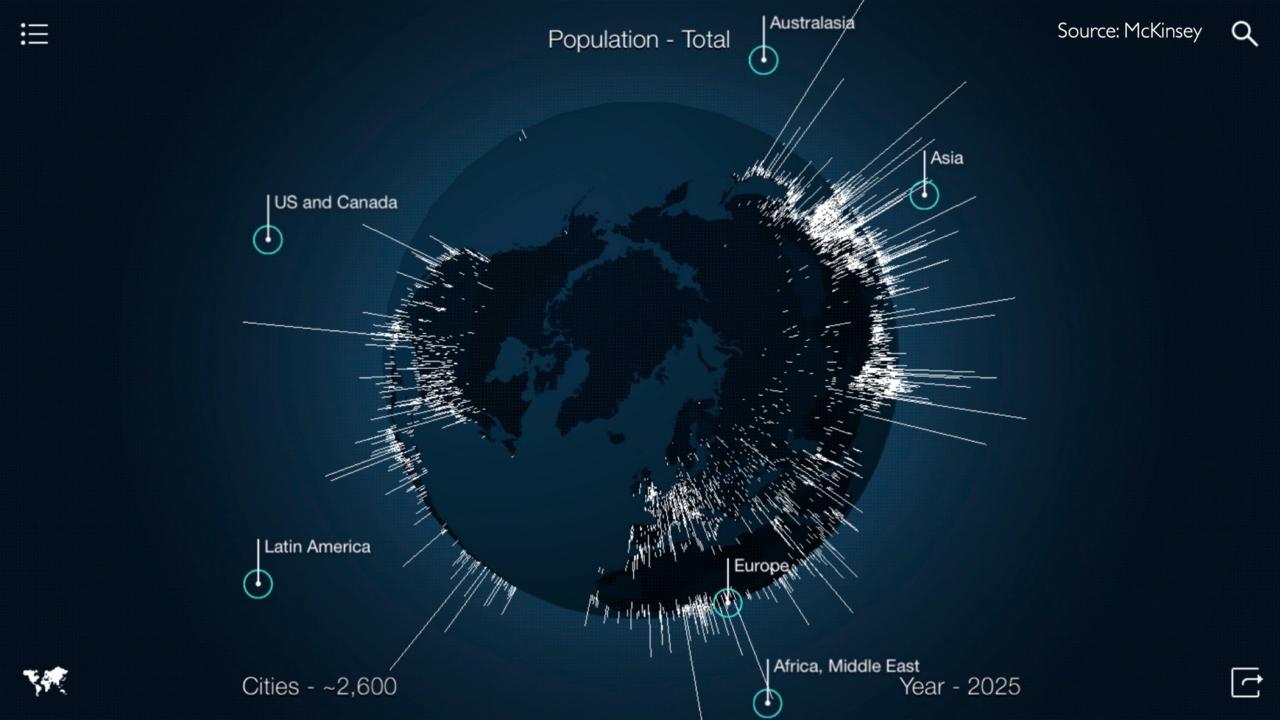
UNECE Region

- 56 Member States 4 sub-regions
 - North America
 - Western & Central Europe (EU & EFTA & 3 MS),
 - Eastern Europe (Belarus, Moldova, Ukraine), Russia & The Caucasus (Armenia, Azerbaijan, Georgia) and Central Asia (Kazakhstan, Kyrgyzstan, Tadzhikistan Turkmenistan, Uzbekistan)
 - South-East Europe & Turkey & Israel
- Home to 1.3 billion people (17% of global population)
- Approx. 45% of global GDP and 66% of world's fresh water
- 'The Global North'
- 263 cities of 500,000 or more

THE ARCTIC OCEAN LIES ENTIRELY WITHIN THE UNECE REGION

All the signatories of the Arctic Treaties are within UNECE



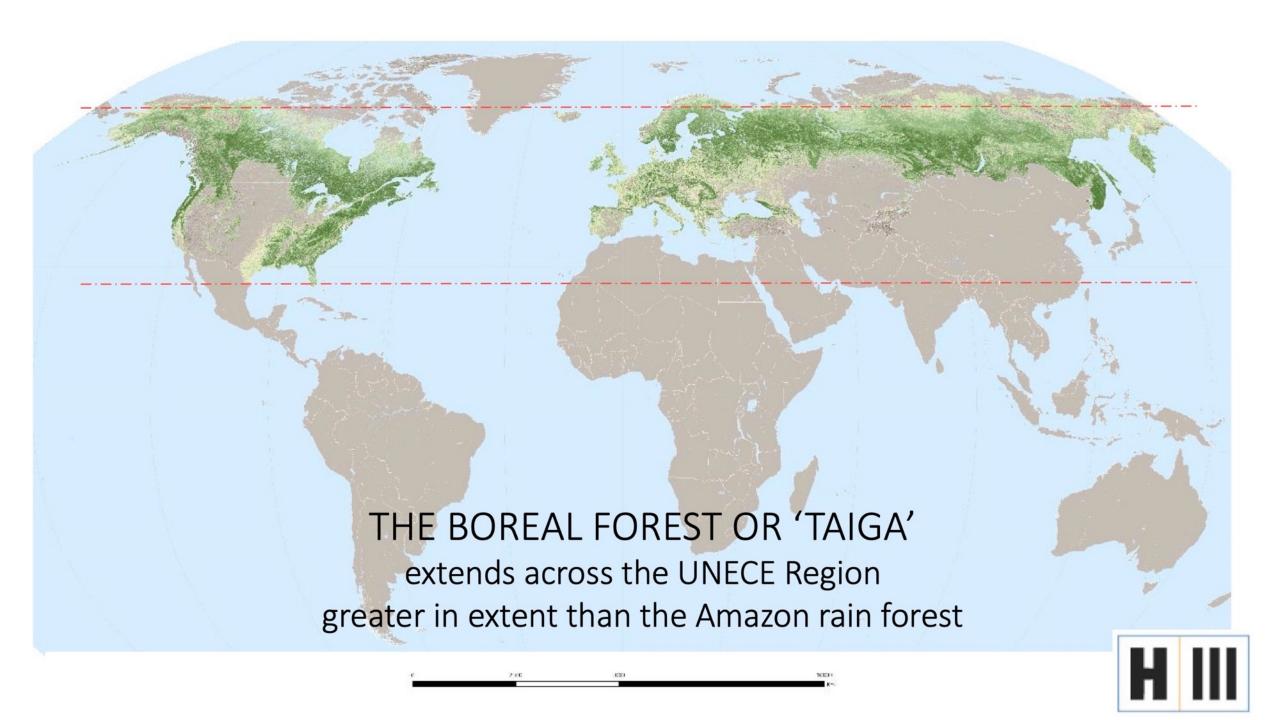


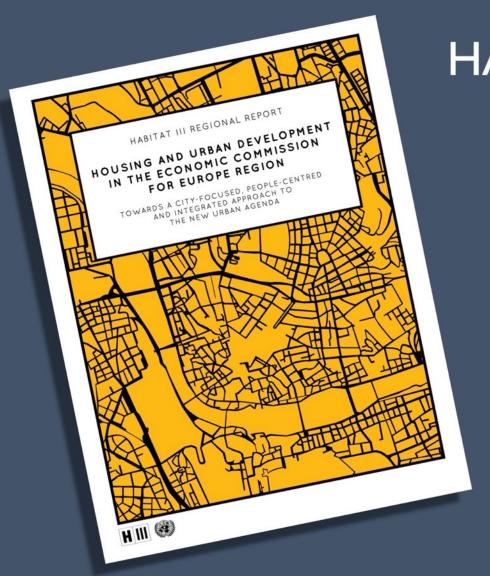












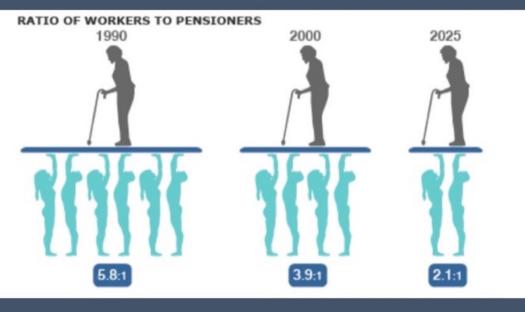
HABITAT III Regional Report For the UNECE territory

Towards a city-focused, people-centred and integrated approach to the New Urban Agenda

Demographics:

Longer Lives – Lower Fertility







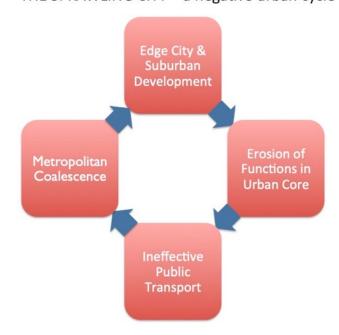
Increasing life expectancy

Reducing birth rates

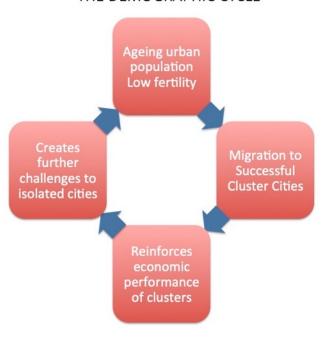
THE CYCLE OF URBAN CONCENTRATION: 'SUPER-CITIES'

Urban Shrinking in Cities outside the Clusters Increasing Urbanisation & Concentration Agglomeration Knowledge Economies

THE SPRAWLING CITY – a negative urban cycle



THE DEMOGRAPHIC CYCLE



THE SHRINKING CITY – a negative urban cycle



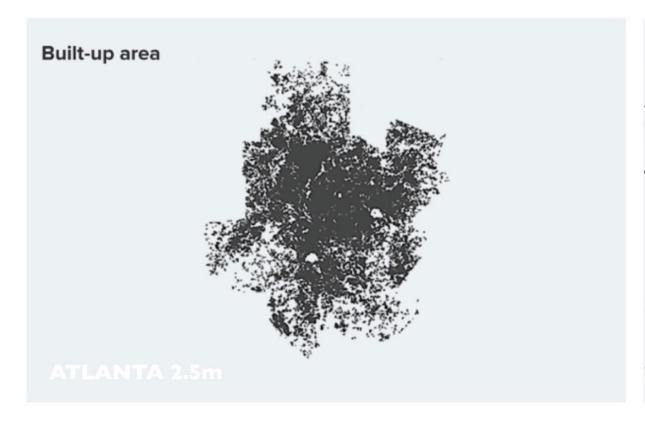
Atlanta and Barcelona have similar populations but very different carbon productivity

Atlanta Barcelona



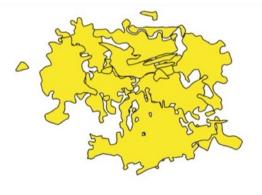


Population	Urban area	Transport carbon emissions	Population	Urban area	Transport carbon emissions
2.5 million	4,280 km ²	7.5 tonnes CO ₂ /person (public + private transport)	2.8 million	162 km²	tonnes CO ₂ /person (public + private transport)

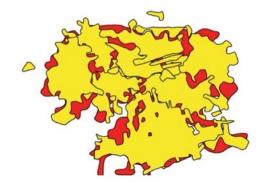


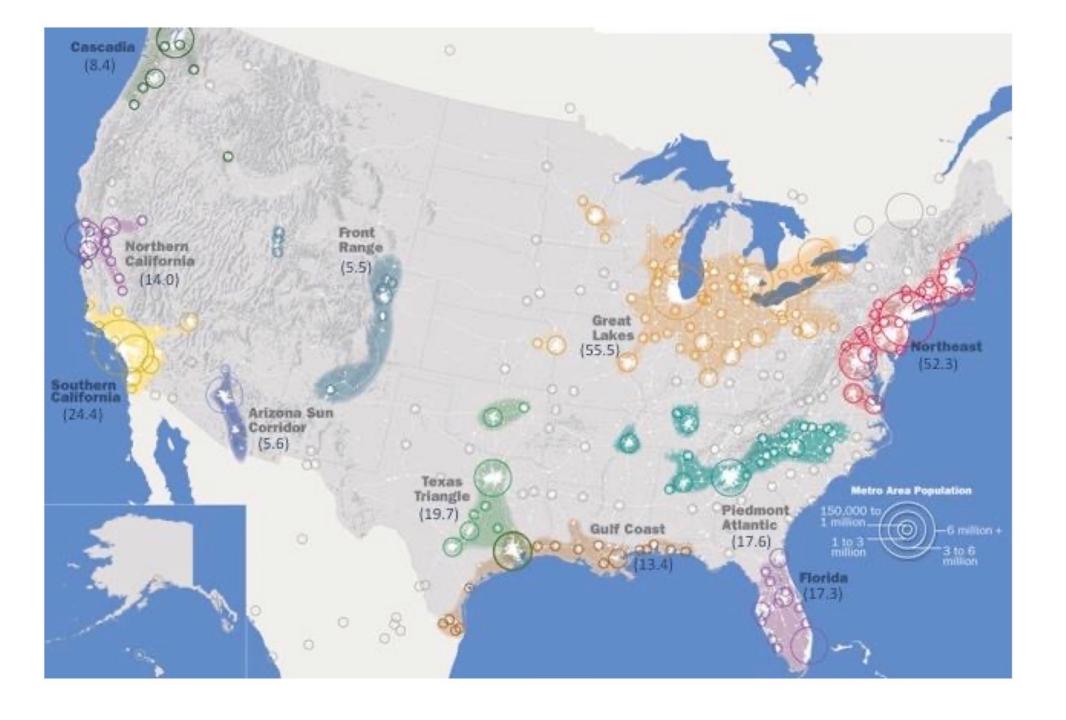
Karachi 23.5 m Chengdu 7.7 m
Jakarta 20 m Chongqing 7 m
Cairo 17.3 m Xi'an 6.5 m
Dhaka 14.4 m Jinan 4.3 m

Total 100.7 m



8 world cities with a combined population of 100 million fit into the size of Atlanta

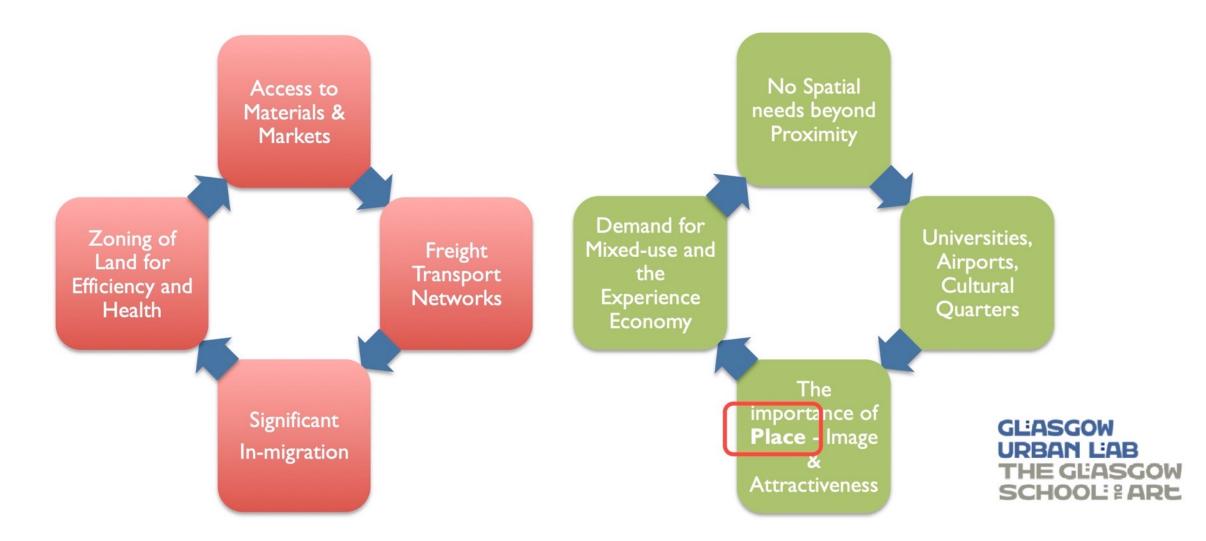


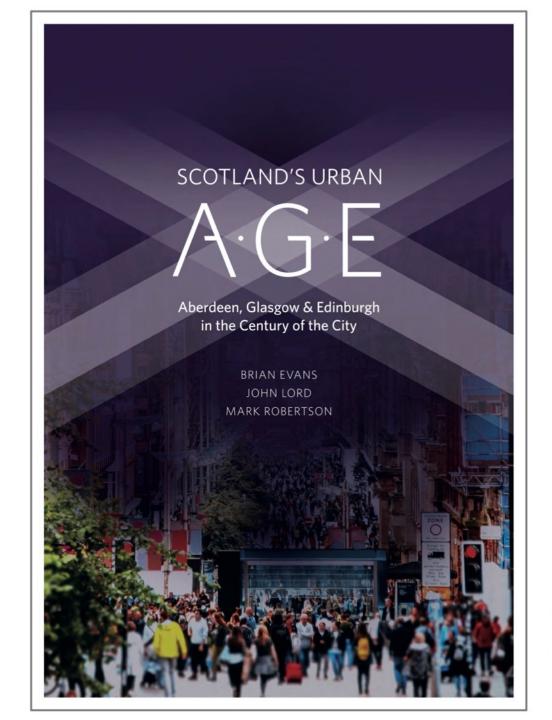


THE INDUSTRIAL CITY



THE KNOWLEDGE CITY







Aberdeen

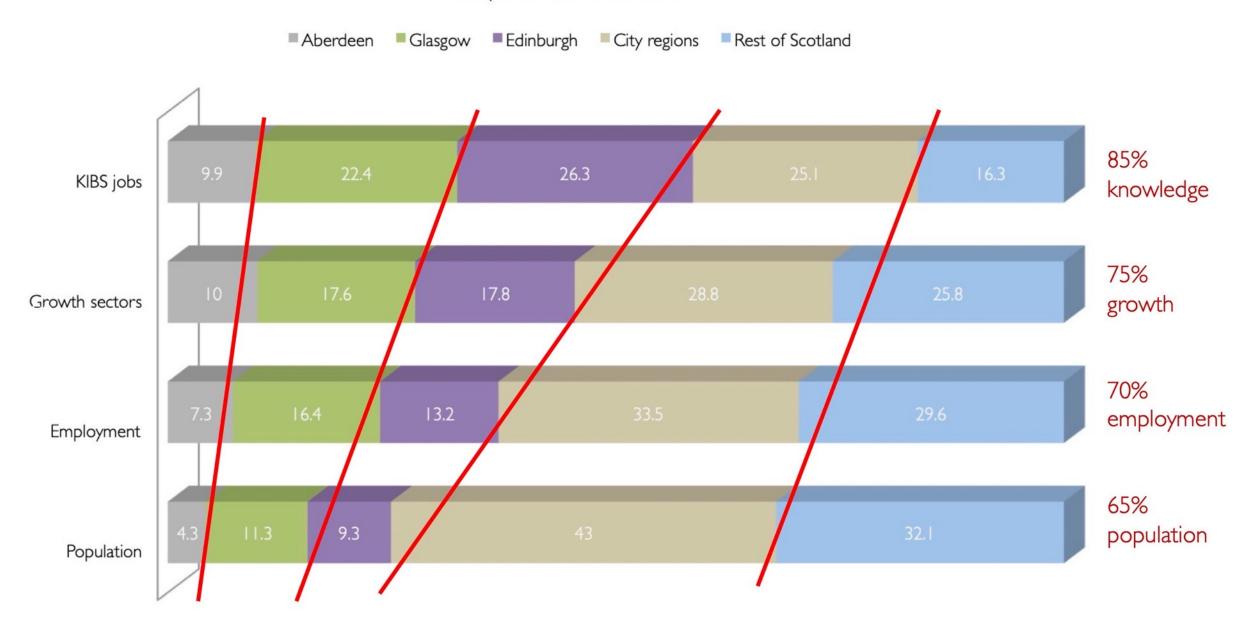


Glasgow



Edinburgh

The power of the AGE cities



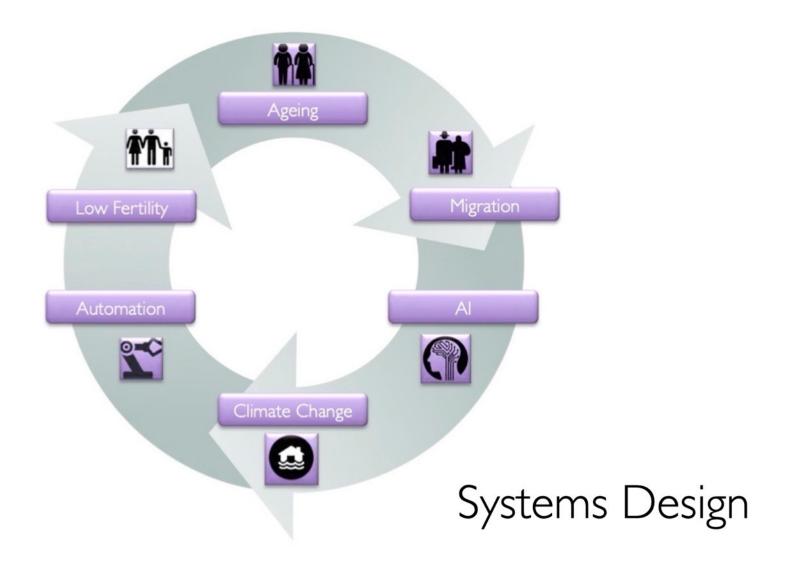


Aberdeen Edinburgh Dublin Liverpool Manchester Paris

Is the UK one 'Super-city'?

Brussels

Randstad



2018 Source: Glasgow Urban Lab





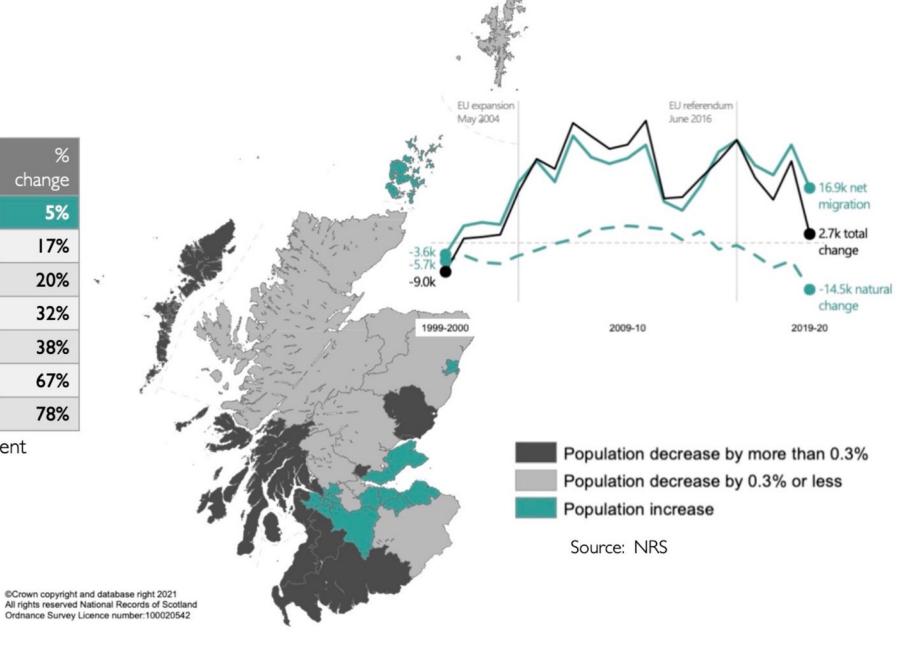
What has changed?
What has stayed the same?
What is new?
What is unknown?

COVID-19 Climate Emergency Brexit & GFC – shadows

COUNTRY	Pop M 1971	Pop M 2020	% change
Scotland	5.3	5.5	5%
Denmark	4.9	5.8	17%
Finland	4.6	5.5	20%
Netherlands	13.2	17.4	32%
Norway	3.9	5.4	38%
Ireland	3.0	5.0	67%
NZ	2.9	5.1	78%

Source: World Bank, Irish government



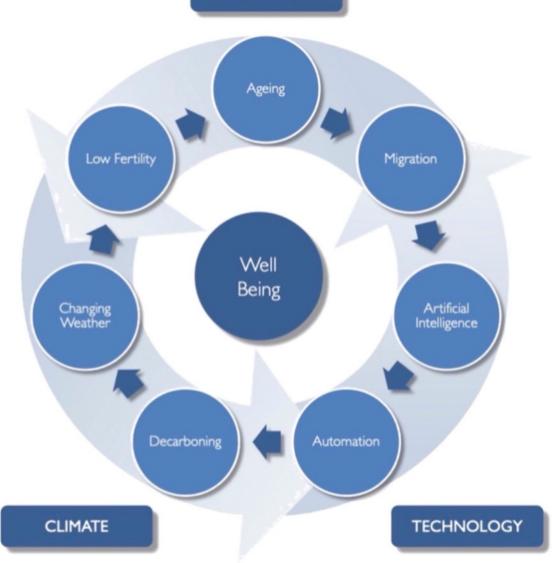


DEMOGRAPHICS

DEMOGRAPHIC
CLIMATE &
TECHNOLOGICAL
CHANGE

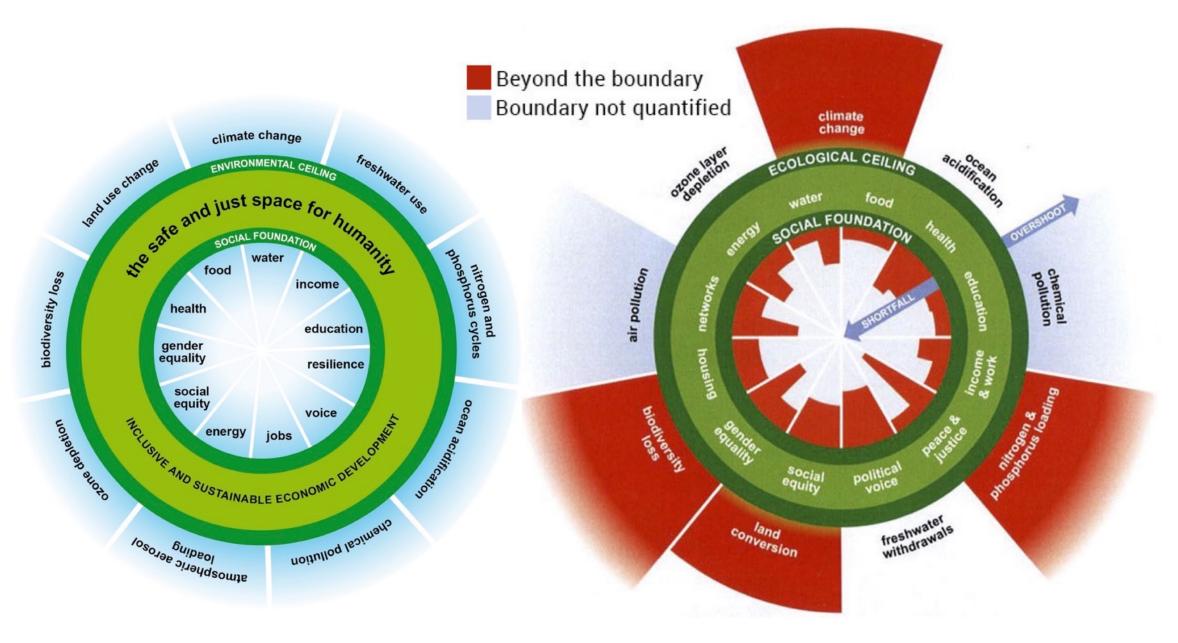
A benign or toxic cycle?

Systems Design?

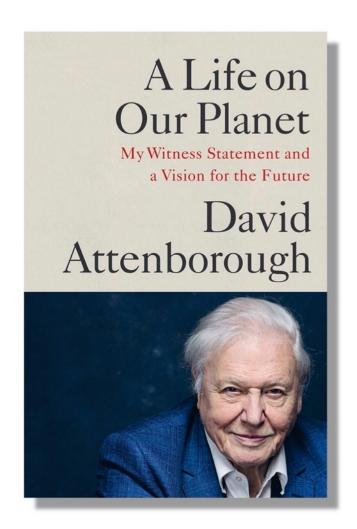


Vision, leadership and pragmatic management are needed to respond to these global trends.

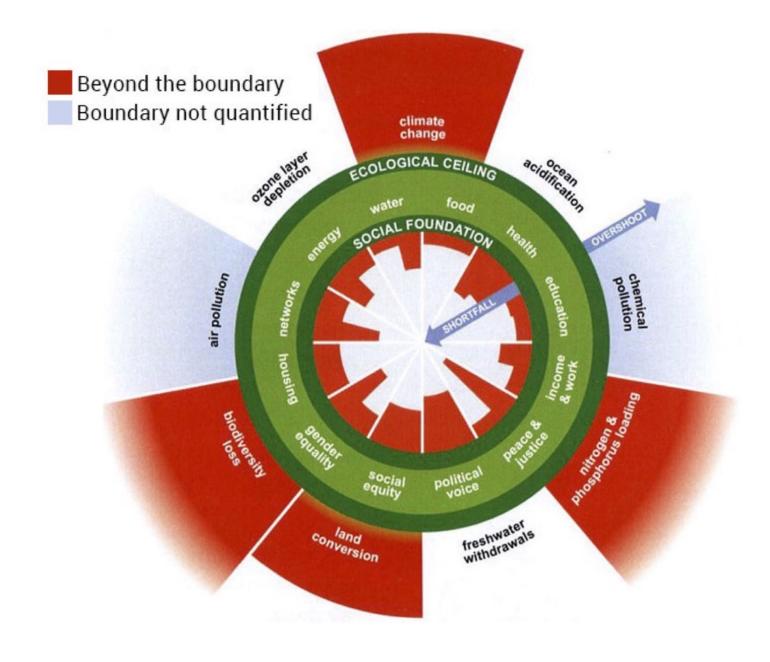
This is the 21st century challenge for government, business and education at national, regional and city level.



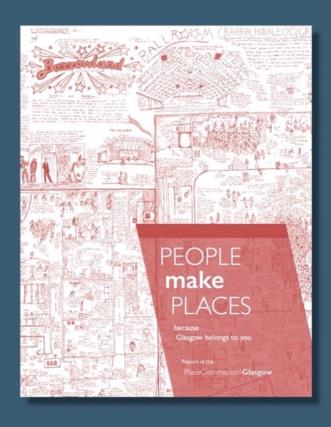
Kate Raworth: Doughnut Economics



The safe and just space for humanity – inclusive and sustainable economic development



"Bringing it all back home..."



PEOPLE make PLACES

Report of the Place Commission\Glasgow

What we mean when we talk about place



Place is one of the most multi-layered and multi-purpose words in our language."

ALESSANDRO DELL'ORTO

The Ubiquity of Place

Place is everywhere, places are all around us. Everywhere is some place. Place is a general construct, a concept that gives everywhere some qualities, some specificity whether cultural, social, environmental or economic. And these in turn connote other qualities — ceremonial, beautiful, tranquil, vibrant, community, busy, unloved places.

PLACE – What do we mean?

PLACE The virtuous loop of place quality and value **QUALITY DEFINES DELIVERS** PLACE **VALUE** Outcomes: 'big ticket' policy arenas **OUTCOMES** Health Social Economic Environmental Source: Carmona (2019)

Health outcomes

Better physical health Better mental health Better general fitness Greater daily comfort Enhanced quality of life

Social outcomes

Fewer accidents

More social integration

Lower rates of crime

Better educational outcomes

Street-level viability and sociability

Civic pride

Inclusiveness

Enabling environments for older age

Enabling places for people with disabilities

Economic outcomes

Residential property uplift

Retail property uplift and reduced vacancy

More viable investments

Increased local tax base

Reduced public expenditure

Lower costs of living

Higher productivity

Source: Carmona (2019)

Environmental outcomes

Reduced energy consumption

Reduced carbon emissions

Adaptive reuse of buildings and spaces

Reduced pollution

Greater resilience

Ecological diversity

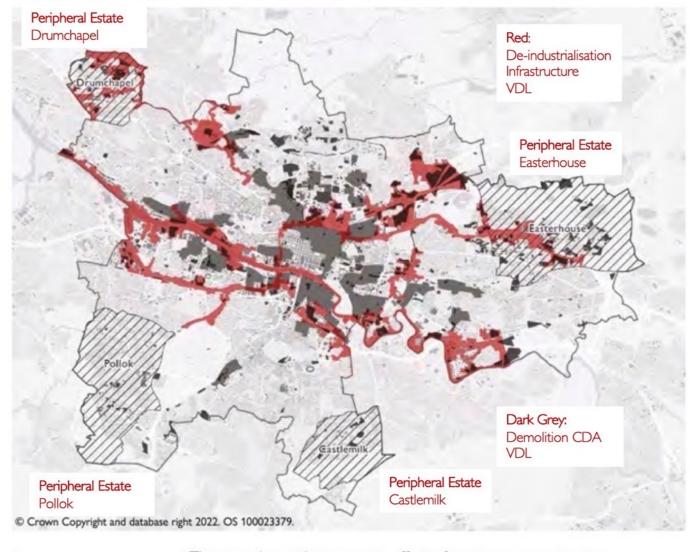
Place Commission\Glasgow City Urbanist\Glasgow

The four eras of modern Glasgow

44

The city of Glasgow fascinates and intrigues – its rise, fall and reinvention, its history and modernity, its reputation as 'Red Clydeside' and its powerful architecture all give the city a myth and a legend."

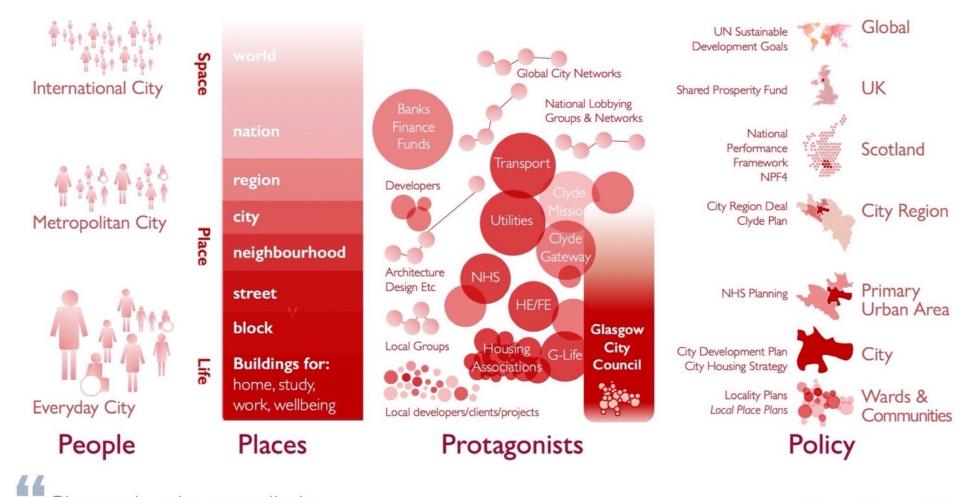
KEITH KINTREA & REBECCA MADGIN (2020)



Source: Glasgow City Council The map shows the aggregate effect of motorway construction, demolition from comprehensive development areas and the vacant and derelict land from deindustrialisation.



Investigations in place\ Enquiry & Reflection – a Place Ecosystem?



Glasgow is at its most alluring, when it dreams of being a better version of itself." RORY OLCAYTO

Place Commission**Glasgow**City Urbanist**Glasgow**

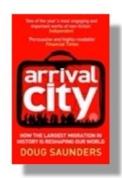
The Cities of Glasgow – looking through different lenses

Place Commission**Glasgow**City Urbanist**Glasgow**

International

A reputation based on:

- ✓ Culture
- ✓ Sport
- ✓ Creativity
- ✓ Diversity
- ✓ Living



Scotland without
Glasgow ...would have
no worldly dimension."

Metropolitan

Glasgow Primary Urban Area

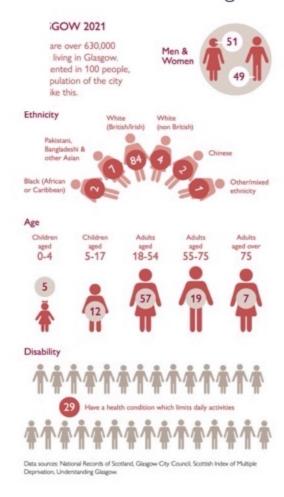
The Bigness of Glasgow



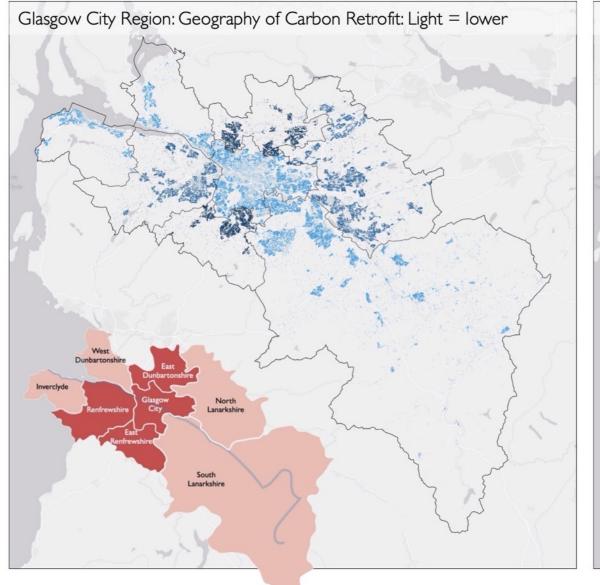
Its very important for cities all around the world to reinvent themselves., and Glasgow is a good example of that' ZAHA HADID

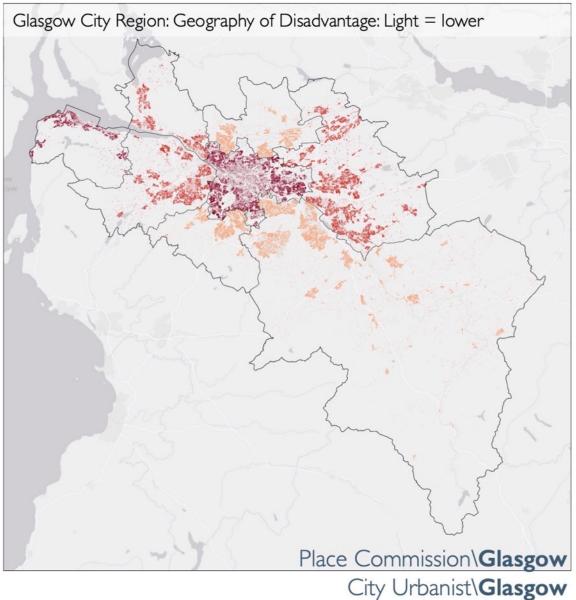
Everyday

The Sum of Small Things



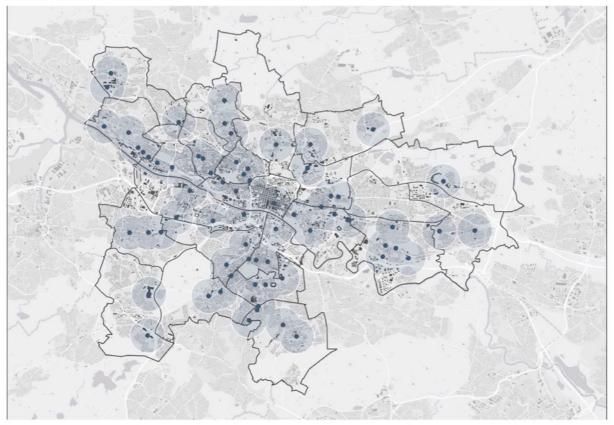
The Cities of Glasgow – Issues of Metropolitanity



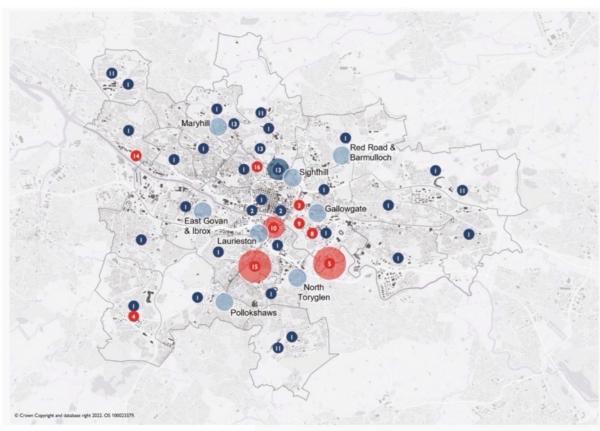




The Places of Glasgow\ of people, for people, by people



Glasgow City: Geography of Neighbourhoods



Glasgow City: Typology of Place

The PLACES of Glasgow



1 \AiR\

Artists in Residence is a city-wide project to bring engagement with the arts close to communities across each of the 23 wards in Glasgow.

Place Credentials: Community Engagement, Community Empowerment, Public Enterprise, Inspirational Intent, Education



2 \After the Pandemic\

After the Pandemic uses creativity and community to rethink our environments, reimagine our cities, and redesign our communities to be greener, more vibrant, and more resilient.

Place Credentials: Community Engagement, Community Activation, Climate Action, Partnership, Inspirational Intent



3 \Bell Street Stables\

Bell Street Stables is a positive example of how a historic industrial building can be restored for modern use.

Place Credentials: Excellent Design, Public Enterprise, Climate Action, Procurement



4 \CCI\

The Centre for Civic Innovation (CCI) is a citizencentred design team within Glasgow City Council responsible for establishing a design-led approach to the understanding of societal shifts and civic experience within the city.

Place Credentials: Community Engagement, Community Empowerment, Public Enterprise, Excellent Design, co-creation, Education



\Clyde Gateway\

Clyde Gateway is an urban regeneration Company established to deliver significant social, economic, and physical change across East Glasgow and South Lanarkshire.

Place Credentials: Community Engagement, Excellent Design, Public Enterprise, Governance, Partnership, Procurement, Delivery, Longevity



6 \Clyde in the Classroom\

Clyde in the Classroom is a hands-on project which uses the life history of a native Scottish species, the brown trout, to promote awareness of river ecology among young people across the River Clyde catchment.

Place Credentials: Community Activation, Climate Action, Education, Delivery



\Clyde Climate Forest\

The Clyde Climate Forest is a project that aims to plant 18 million trees across Glasgow City Region and has the potential to benefit quality of life, quality of place, and wildlife habitats.

Place Credentials: Community Activation, Climate Action, Education, Delivery



(8) \Glasgow Women's Library\

The Glasgow Women's Library is a leading charity and social enterprise that supports thousands of women across Scotland every year by coordinating and hosting a range of public events, services, cultural programmes, and learning opportunities.

Place Credentials: Community Empowerment, Public Support, Explicit Values, Inspirational Intent, Education

Place Commission\Glasgow

The PLACES of Glasgow



Monteith Row

Monteith Row is a housing project in the inner eastend of Glasgow that has restored a neglected city block and revitalised the listed Monteith Hotel.

Place Credentials: Excellent Design, Public Enterprise, Climate Action, Procurement



10 \New Gorbals\

New Gorbals is regarded as an exemplar of masterplan-led area regeneration. New Gorbals Housing Association, established by residents in 1989, has played a pivotal role in the transformative change.

Place Credentials: Community Empowerment, Community Activation, Governance, Partnership, Procurement, Longevity



(B) \Scottish Canals\

Scottish Canals is a public body that has proactively improved the environmental and socio-economic conditions on and around the banks of the Forth & Clyde Canal by combining functional requirement with quality of place.

Place Credentials: Community Activation, Excellent Design, Public Enterprise, Climate Action, Partnership, Procurement, Delivery



(1) \Scotstoun Community Garden\

Scotstoun Community Garden is a community-driven project that has seen a former industrial site be transformed into a tranquil and beautiful green space by volunteers who sourced their own funds, tools, and materials.

Place Credentials: Community Activation, Excellent Design, Climate Action



① \On the Edge\

On the Edge is a visual arts project by Bash Khan that raises awareness of the people and places in Glasgow left on the edge by the political, planning and development process. It asks 'how can communities reclaim and give themselves 'permission' to use their public spaces?'

Place Credentials: Community Empowerment, Community Activation, Inspirational Intent



12 \Refuweegee\

Refuweegee is a community-led charity which helps to ensure that forcibly displaced people arriving in Glasgow are greeted by kindness and generosity.

Place Credentials: Community Empowerment, Community Activation, Inspirational Intent, Values



(I) \South Seeds\

South Seeds is a community-led organisation based in Govanhill with the mission to enable Southsiders to lead more sustainable lives.

Place Credentials: Community Empowerment, Community Activation, Social Enterprise, Climate Action, Values, Education

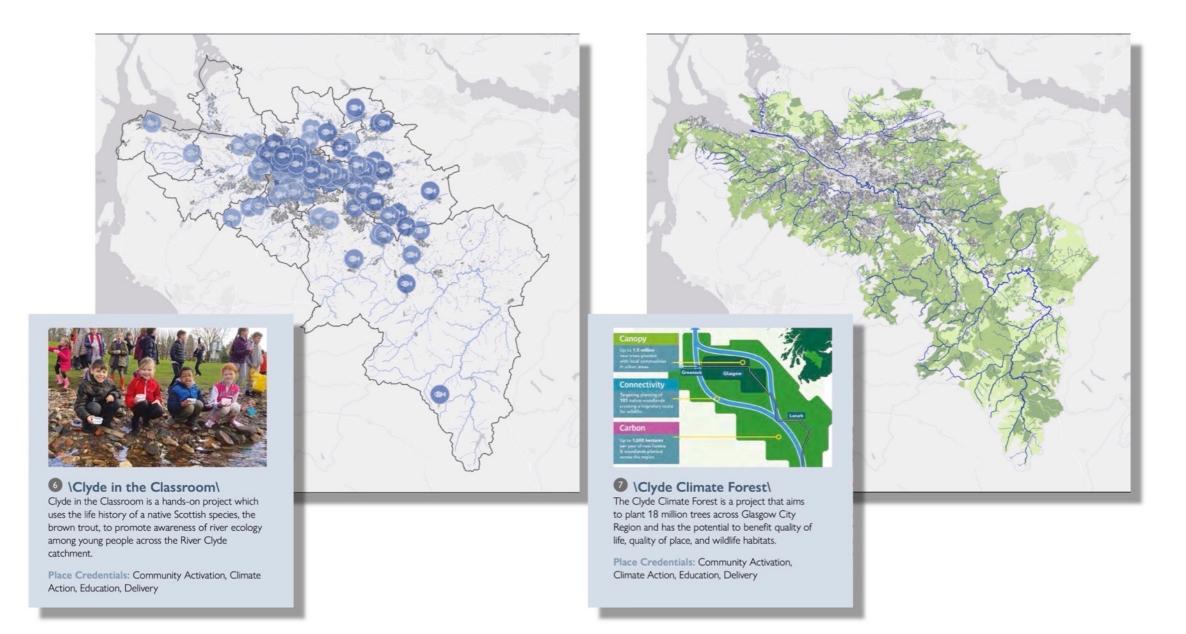


(6) \Woodside Towers\

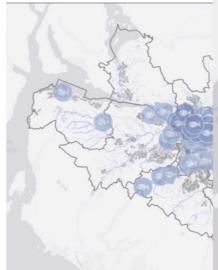
The regeneration of the Woodside Multi-Storey Flats in North Glasgow is an exemplar for retrofitting high-rise housing and has helped to reduce energy demand and tackle fuel poverty for residents.

Place Credentials: Excellent Design, Climate Action, Community Engagement, Procurement

The Places of Glasgow\ place synergies\



The Places of

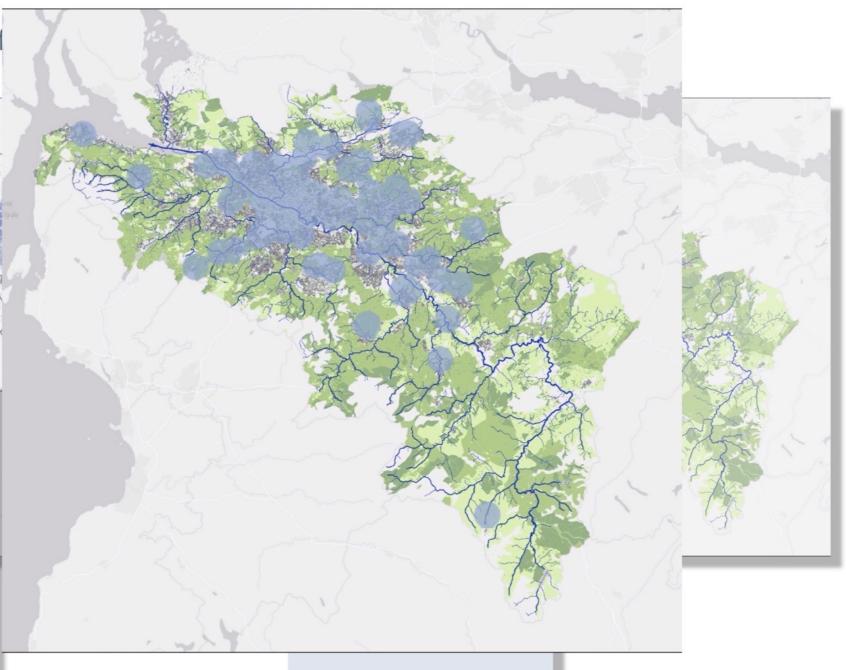




6 \Clyde in the Classroom\ Clyde in the Classroom is a hands-on project which

Clyde in the Classroom is a hands-on project which uses the life history of a native Scottish species, the brown trout, to promote awareness of river ecology among young people across the River Clyde catchment.

Place Credentials: Community Activation, Climate Action, Education, Delivery



The Places of Glasgow\ place synergies\



5 \Clyde Gateway\

Clyde Gateway is an urban regeneration Company established to deliver significant social, economic, and physical change across East Glasgow and South Lanarkshire.

Place Credentials: Community Engagement, Excellent Design, Public Enterprise, Governance, Partnership, Procurement, Delivery, Longevity

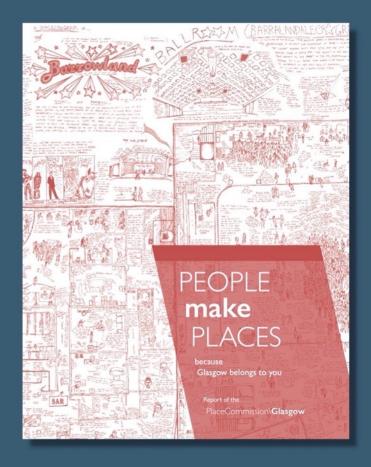


10 \New Gorbals\

New Gorbals is regarded as an exemplar of masterplan-led area regeneration. New Gorbals Housing Association, established by residents in 1989, has played a pivotal role in the transformative change.

Place Credentials: Community Empowerment, Community Activation, Governance, Partnership, Procurement, Longevity







You won't often find us talking about climate change ...

... we think the best way to tackle climate change is by cutting energy use, reducing waste and using local spaces to grow food — bringing practical benefits to local people.

So, we talk about these things most of the time."

Lucy Gillie, South Seeds

Place Commission**Glasgow**City Urbanist**Glasgow**

URBANISM

- A collective system of values
- A certain level of economic & political development
- The sophisticated pursuit of pleasure (happiness)
- A high level of intellectual & artistic

excellence

the pursuit of URBANITY

Robert Armstrong: In Search of Civilization

CityUrbanist**Glasgow**

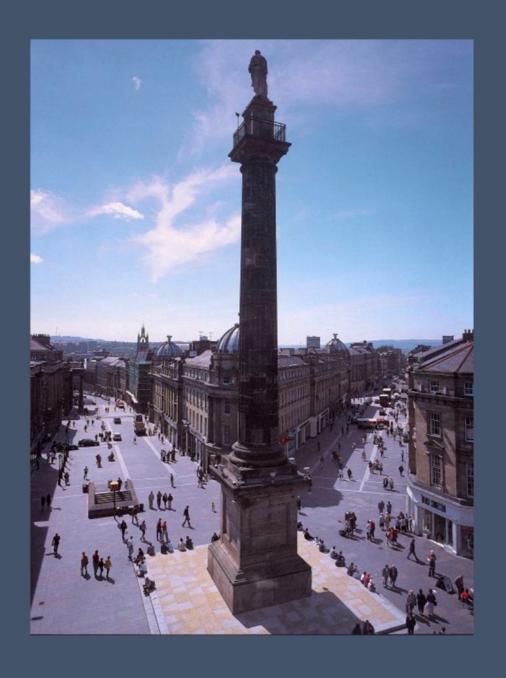
URBANITY

4 principles for dealing with **4** technological revolutions: agricultural, industrial, transportation, digital;

Urbanism is positive (intentional) and addresses ...

Entropy (lack of positive energy) causing a gradual decline into disorder

(natural processes – drought, flood and disease – or manmade processes – war, greed and the careless, senseless exploitation of resources and people)



The issue of good urbanism is not only an abstract ideal....

...it is about creating the right conditions to make places work for people

Kelvin Campbell



Cities have the capability of providing something for everybody, only because, and only when, they are created by everybody.

— Jane Jacobs —

Everyday\City

CityUrbanist**Glasgow**



The Higgs paradox.

"If we are to build the city of the future, we must first imagine it ...

... but what happens to our collective consciousness and mental health if the only futures we can imagine are apocalyptic and dystopian".

We need hope...

URBAN FLORAS: a contribution to biodiversity



So ... is Green Consciousness

a pre-condition for Urbanity?

Prof Brian M Evans

GLASGOW URBAN LAB THE GLASGOW SCHOOL: ARL





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