ISDE11 11th INTERNATIONAL SYMPOSIUM ON DIGITAL EARTH

Florence (Italy), September 24 – 27, 2019

Digital Earth in a transformed Society

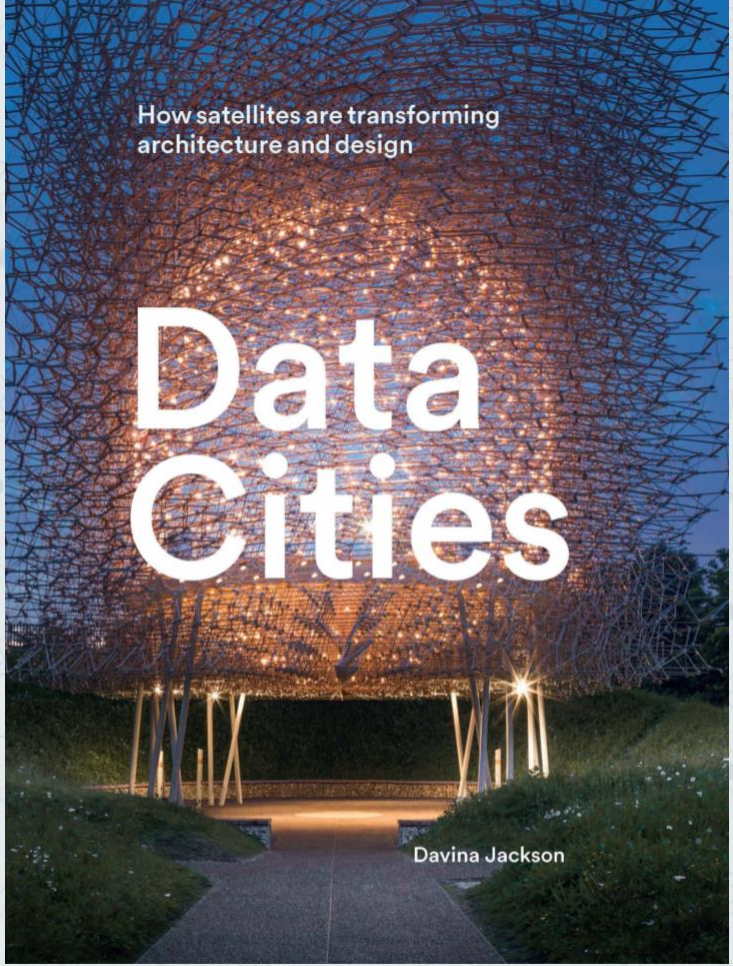
Data Cities and Astrospatial Architecture

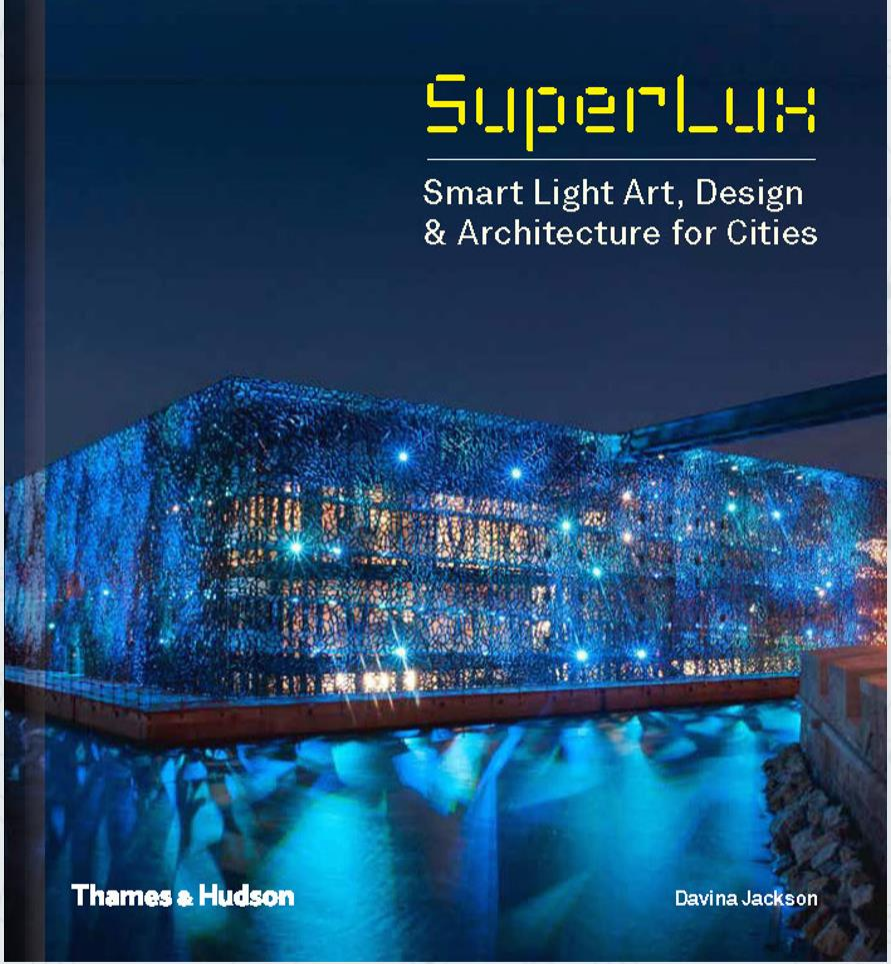
Davina Jackson, PhD M.Arch FRGS LMISDE

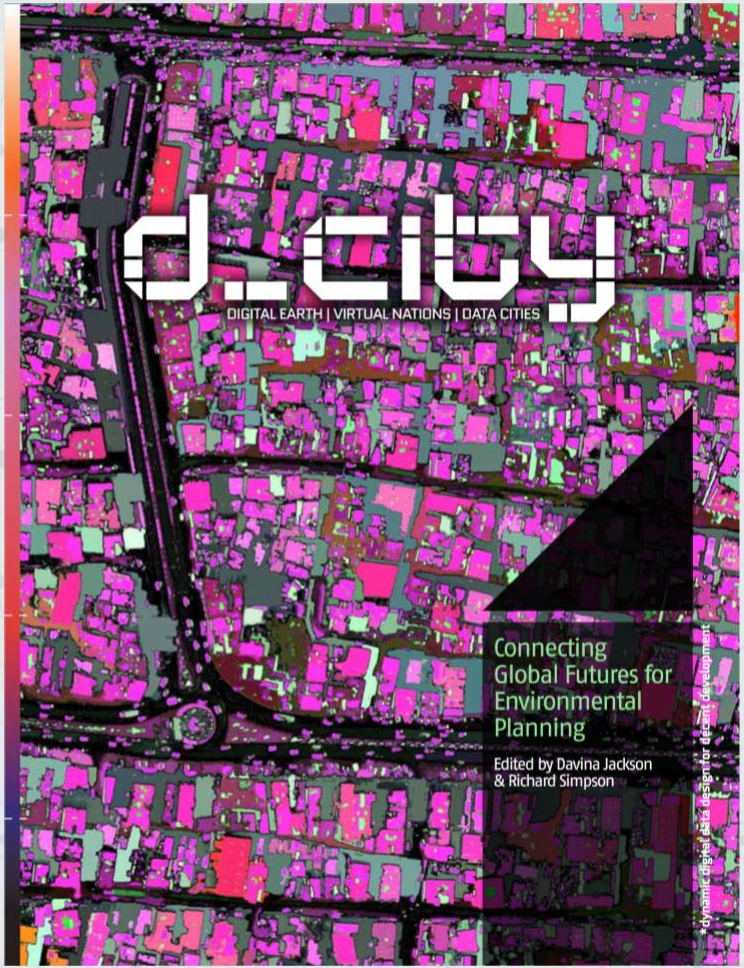

A new urban (sims) ethos from electromagnetic fluxes

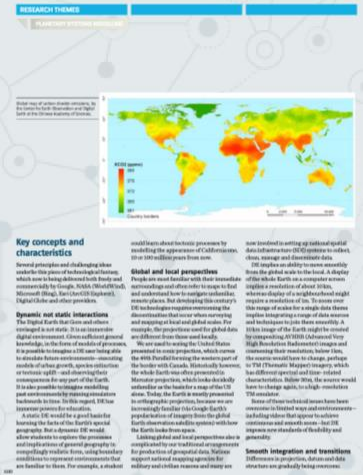

SPACESHIP
EARTH
OBSERVING OUR PLANET FROM SATELLITES
NASA
NOAA
GEO
esa
DigitalGlobe
eoVision
d_city
SIBA
ISDE
CUSTOMS HOUSE
CITY OF SYDNEY
CREATIVE CITY SYDNEY
NSW Land & Property Information
Australian Government
Geoscience Australia


SPACESHIP
EARTH
OBSERVING OUR PLANET FROM SATELLITES


How satellites are transforming architecture and design
Data Cities
Davina Jackson


SuperLux
Smart Light Art, Design & Architecture for Cities
Thames & Hudson
Davina Jackson


d.city
DIGITAL EARTH | VIRTUAL NATIONS | DATA CITIES
Connecting Global Futures for Environmental Planning
Edited by Davina Jackson & Richard Simpson
*dynamic digital data design for decent development


RESEARCH THEMES
Key concepts and characteristics
Dynamic not static interactions
Global and local perspectives
Smooth integration and transitions

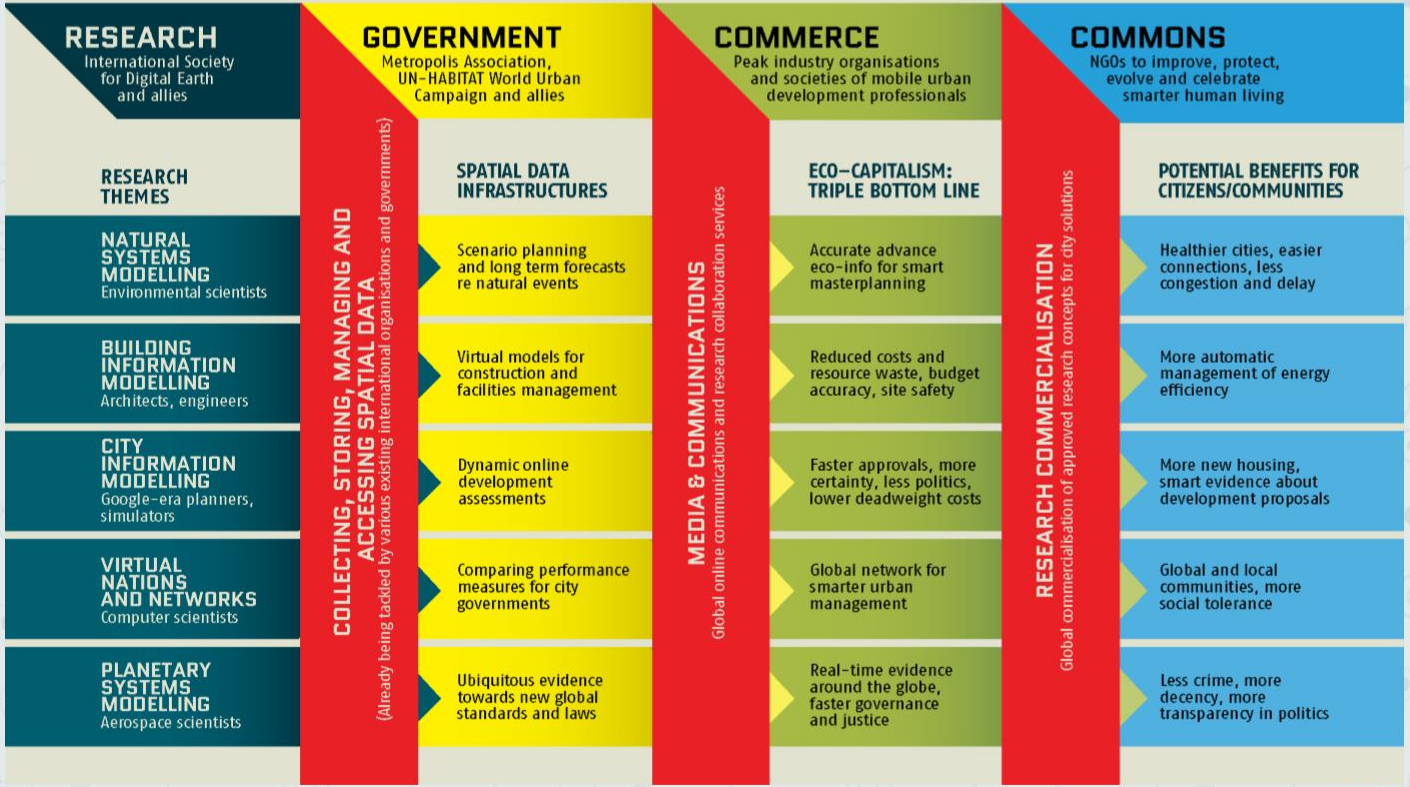

Dr Bob Bishop
Professor Peter Droege
Kevin Kelly
Mary–Anne Kyriakou

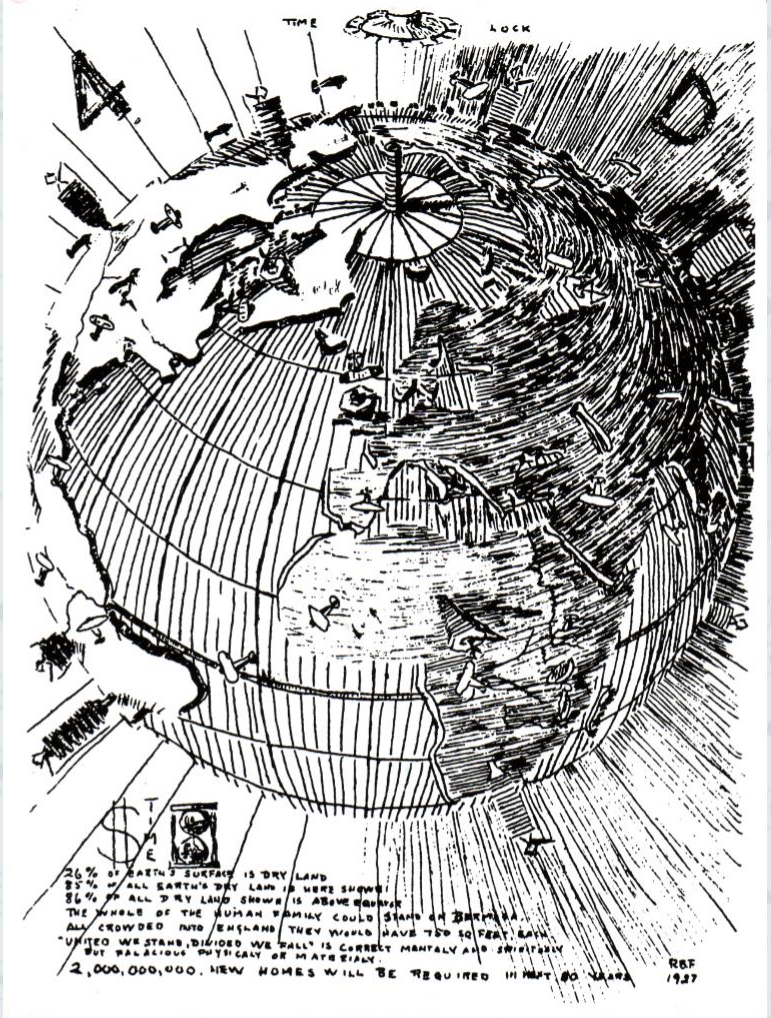

GRASSROOTS MAPPING

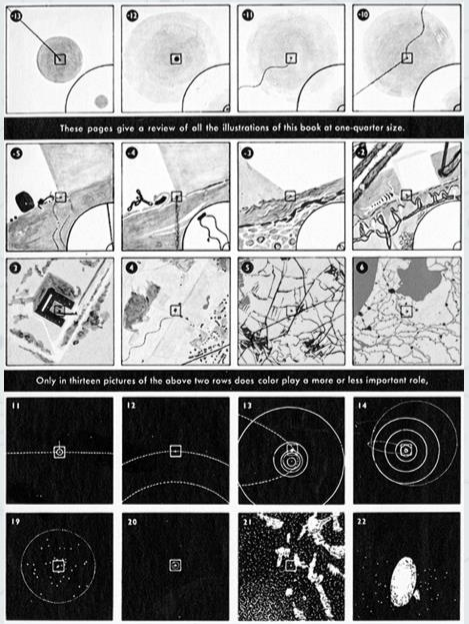

Five key research themes have been identified to underpin next directions towards the goal of a global computer model. Leading experts explain how their fields are contributing to the most crucial technology vision of our time.
Latest advances and debates are summarised in the following five articles:
NATURAL SYSTEMS MODELLING
BUILDING INFO MODELLING
CITY INFO MODELLING
VIRTUAL NATIONS & NETWORKS
PLANETARY SYSTEMS MODELLING
NSM
BIM
CIM
VNN
PSM

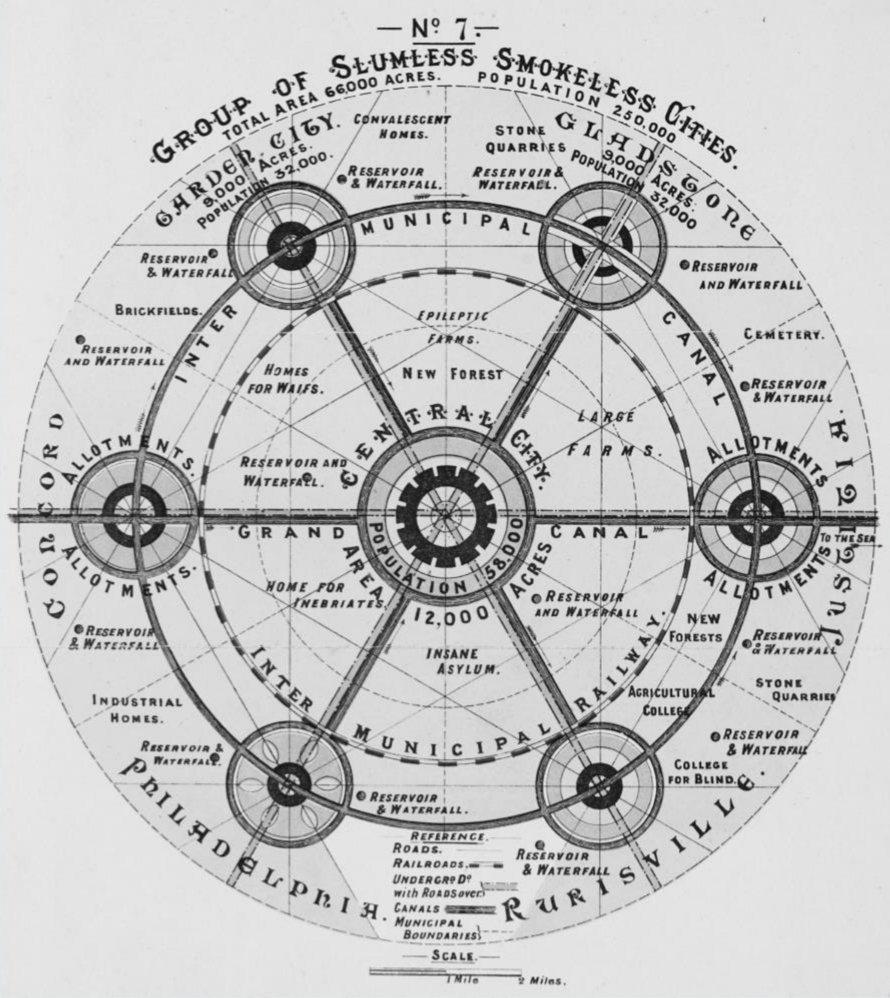
GLOBAL TECHNOLOGY NETWORK

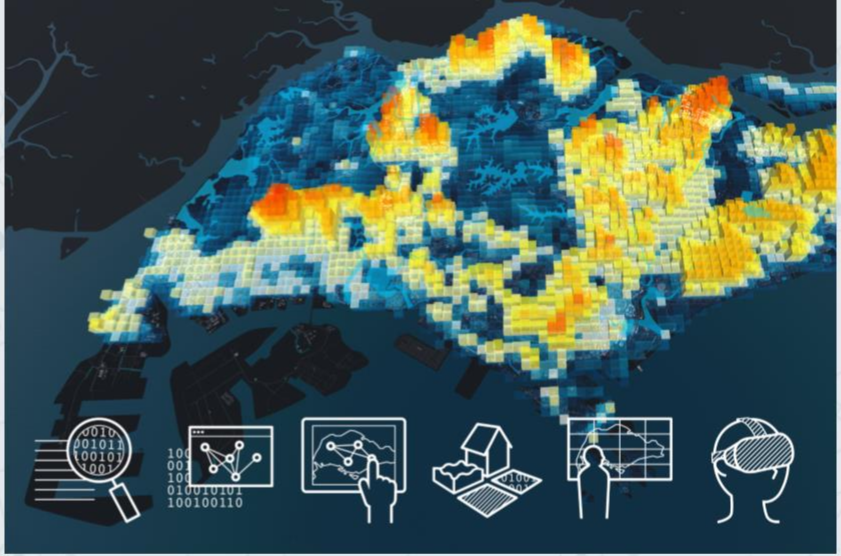
DRAFT ORGANISATIONAL DIAGRAM FOR A GLOBAL TECHNOLOGY NETWORK TO DYNAMICALLY SIMULATE EARTH'S NATURAL AND CONSTRUCTED SYSTEMS, TO HELP ACCELERATE CLIMATE CHANGE SOLUTIONS




TIME
LOCK
A
D
TIME
26% OF EARTH'S SURFACE IS DRY LAND
85% OF ALL EARTH'S DRY LAND IS HERE SHOWN
86% OF ALL DRY LAND SHOWN IS ABOVE EQUATOR
THE WHOLE OF THE HUMAN FAMILY COULD STAND ON BERMUDA
ALL CROWDED INTO ENGLAND THEY WOULD HAVE TEN SQ FEET EACH
"UNITED WE STAND, DIVIDED WE FALL" IS CORRECT MENTALLY AND SPIRITUALLY
BUT PALACIOUS PHYSICALLY OR MATERIALLY
2,000,000,000. NEW HOMES WILL BE REQUIRED IN NEXT 80 YEARS
R.B.F.
1937


These pages give a review of all the illustrations of this book at one-quarter size.
Only in thirteen pictures of the above two rows does color play a more or less important role,

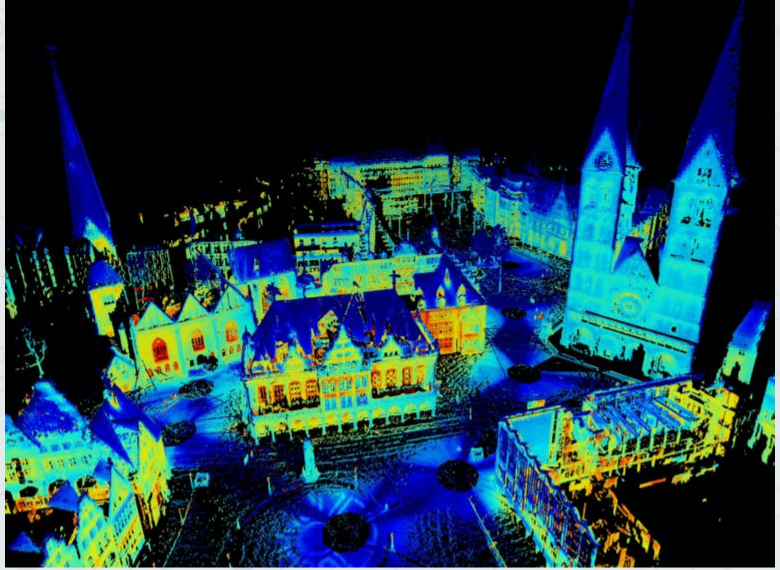

No 7.
Group of Slumless Smokeless Cities.
Total area 66,000 acres. Population 250,000
Garden City. 9,000 Acres. Population 32,000.
Gladstone 9,000 Acres. Population 32,000
Convalescent Homes.
Stone Quarries
Reservoir & Waterfall.
Reservoir & Waterfall
Municipal
Reservoir and Waterfall
Brickfields.
Cemetery.
Inter
Canal
Epileptic Farms.
New Forest
Homes for Waifs.
Large Farms.
Central City.
Allotments.
Reservoir and Waterfall.
Concord
Justitia
Grand
Canal
To the Sea
Area 12,000 Acres
Population 58,000
Home for Inebriates.
New Forests
Insane Asylum.
Inter Municipal Railway
Industrial Homes.
Agricultural College.
Stone Quarries
College for Blind.
Philadelphia.
Rurisville
Reference.
Roads.
Railroads.
Undergrd Do with Roads over.
Canals
Municipal Boundaries.
Scale.
1 Mile 2 Miles.

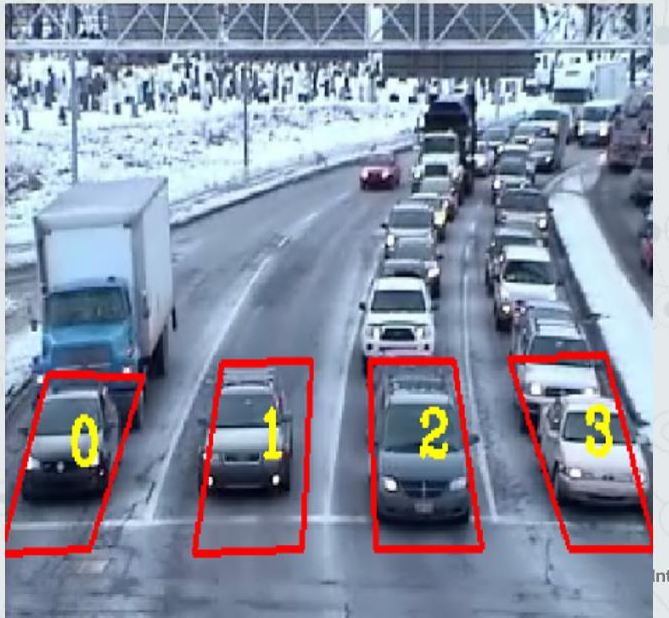


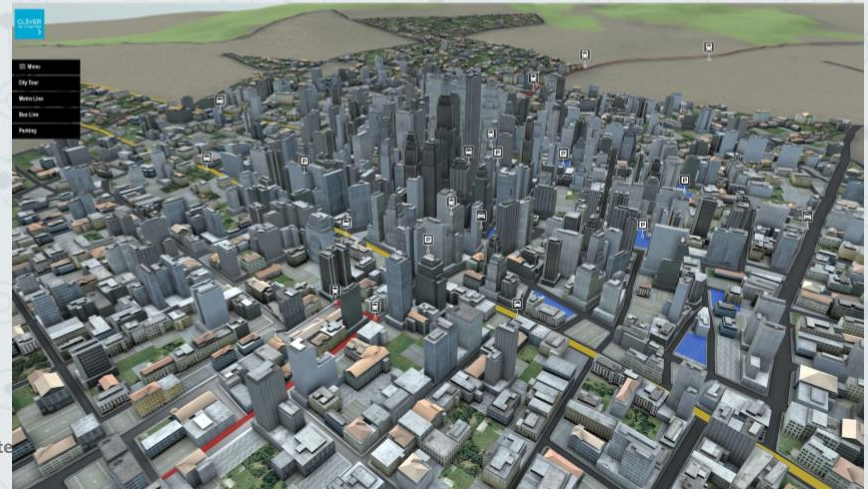

EHANG 184


自动巡航
MODE
100%

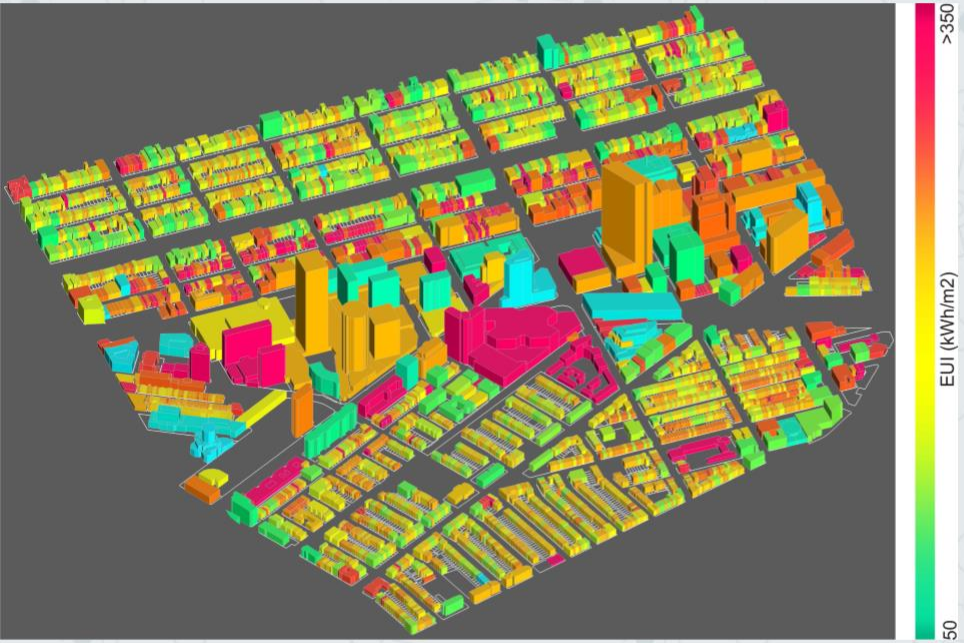

Staff
Marie Williams
Contractor
Pedro Luis de Souza

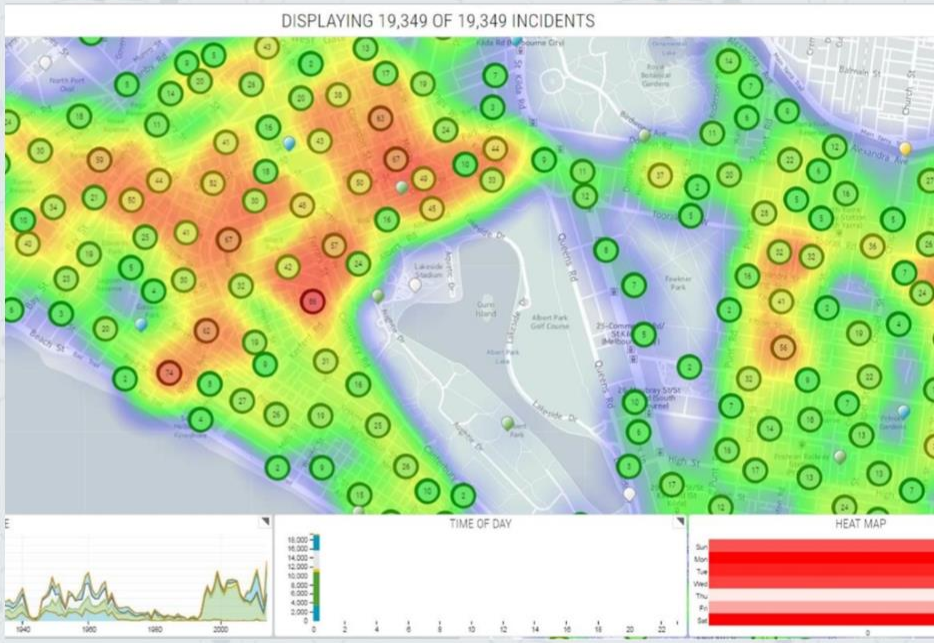


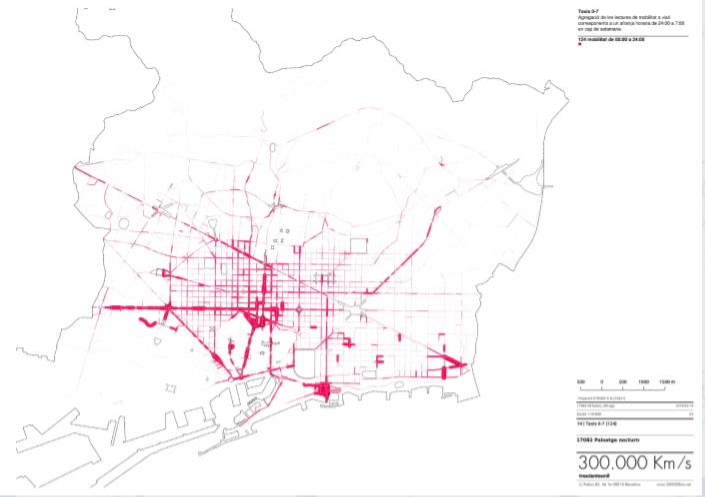

0
1
2
3

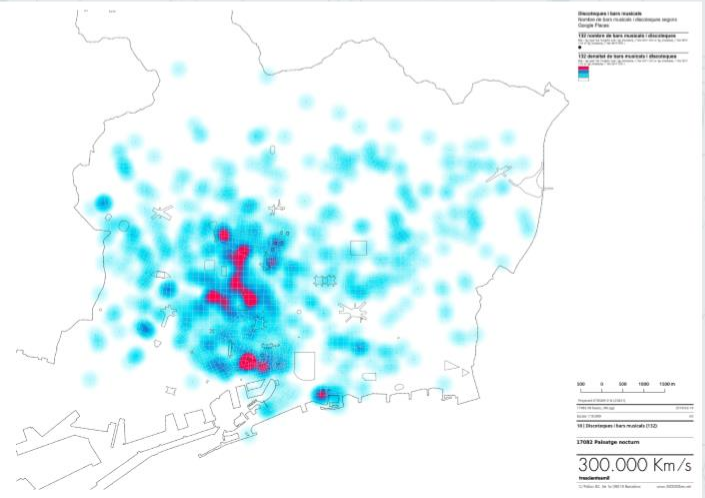


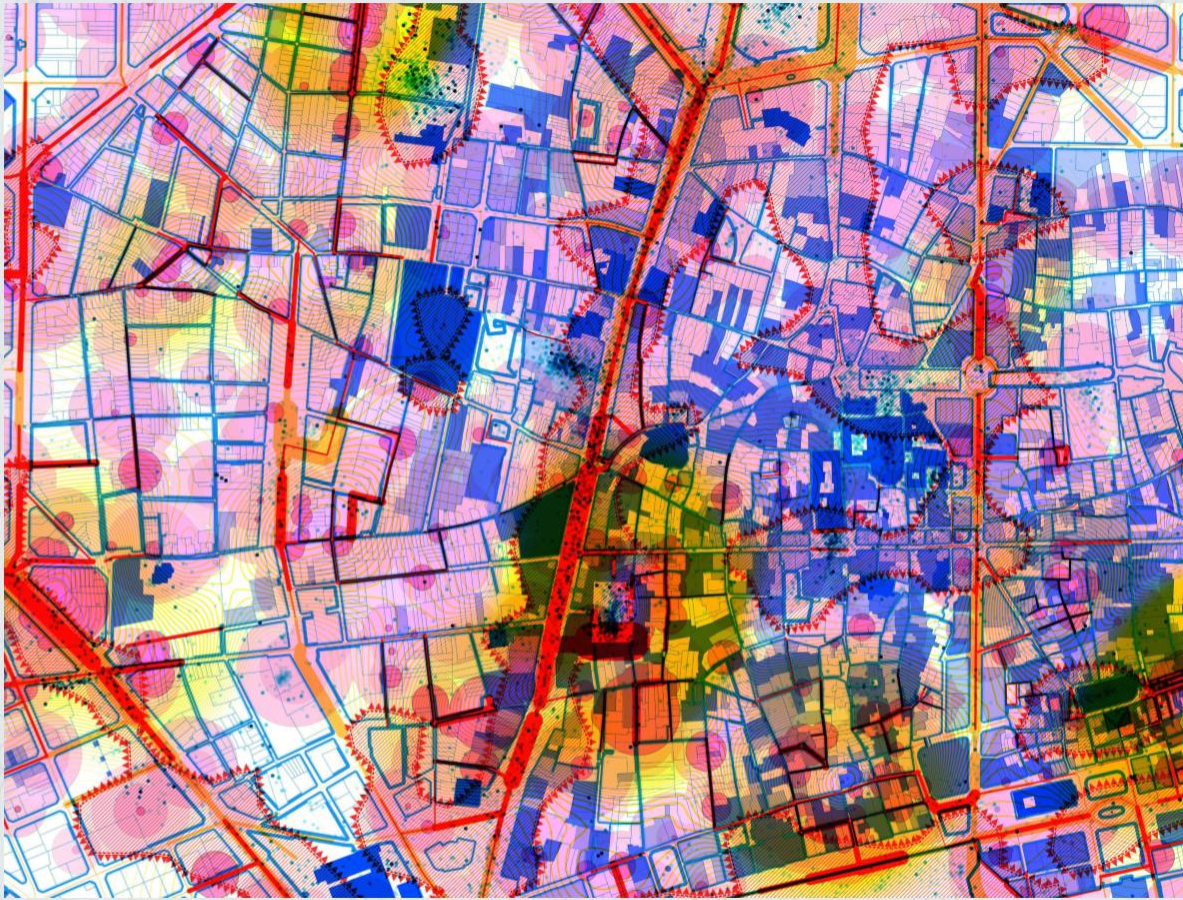

KUKA

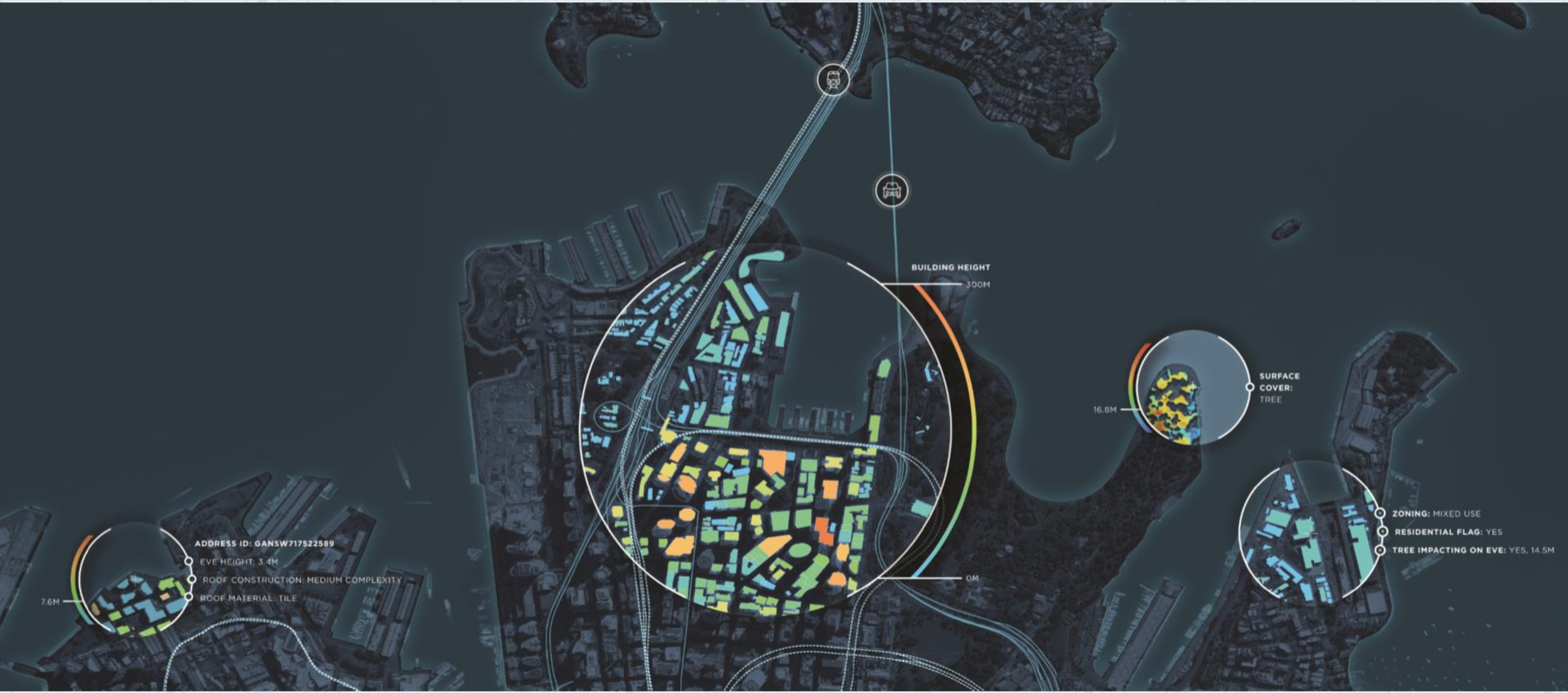

>350
EUI (kWh/m2)
50


DISPLAYING 19,349 OF 19,349 INCIDENTS
TIME OF DAY
HEAT MAP

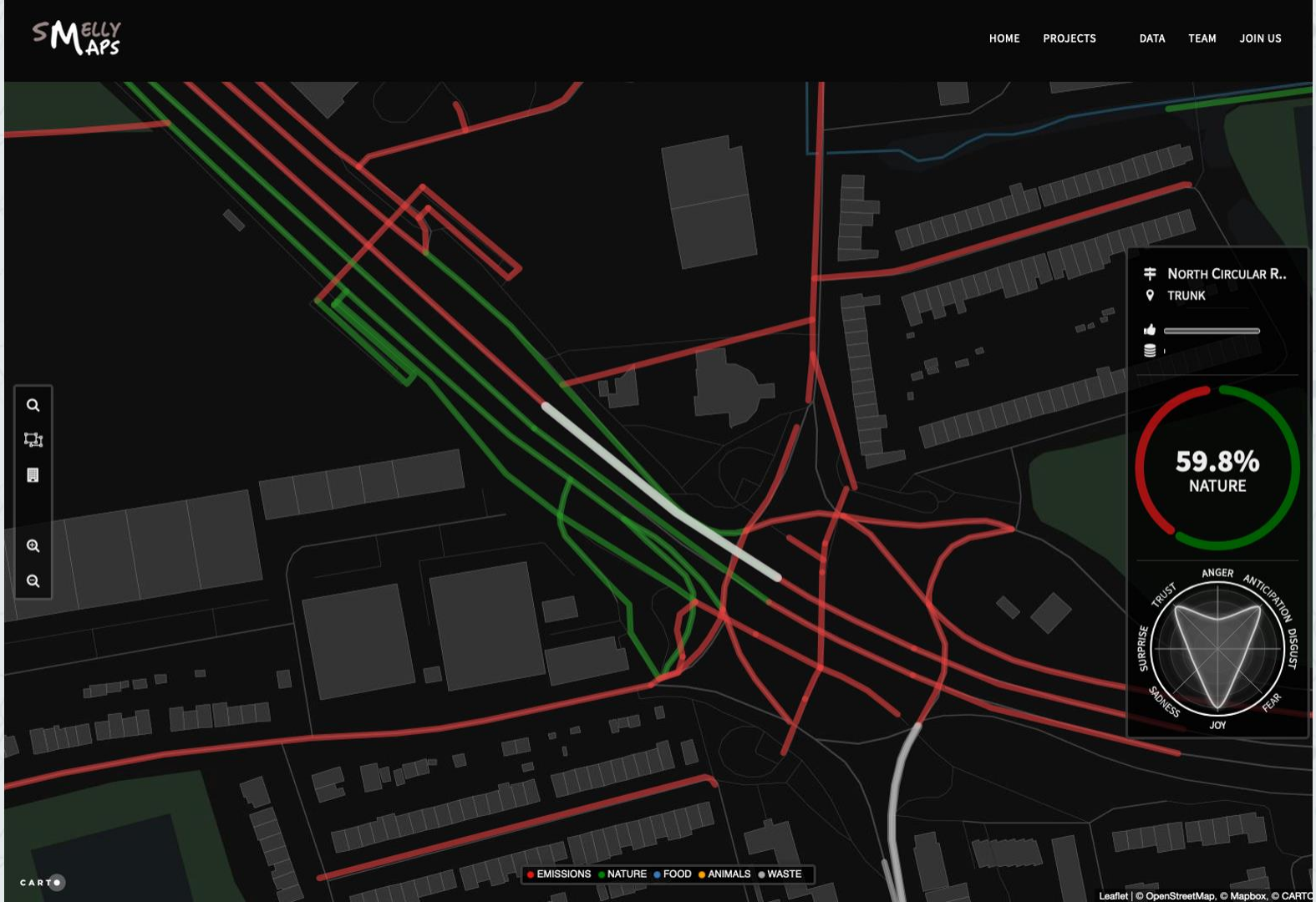

300.000 Km/s

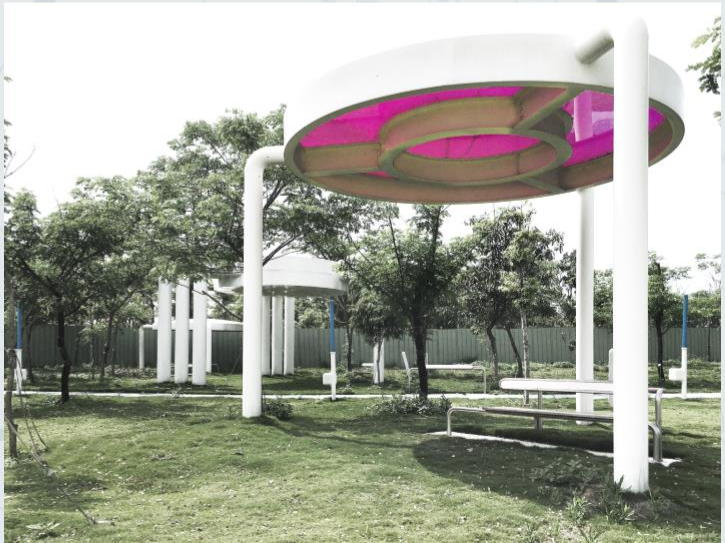

300.000 Km/s

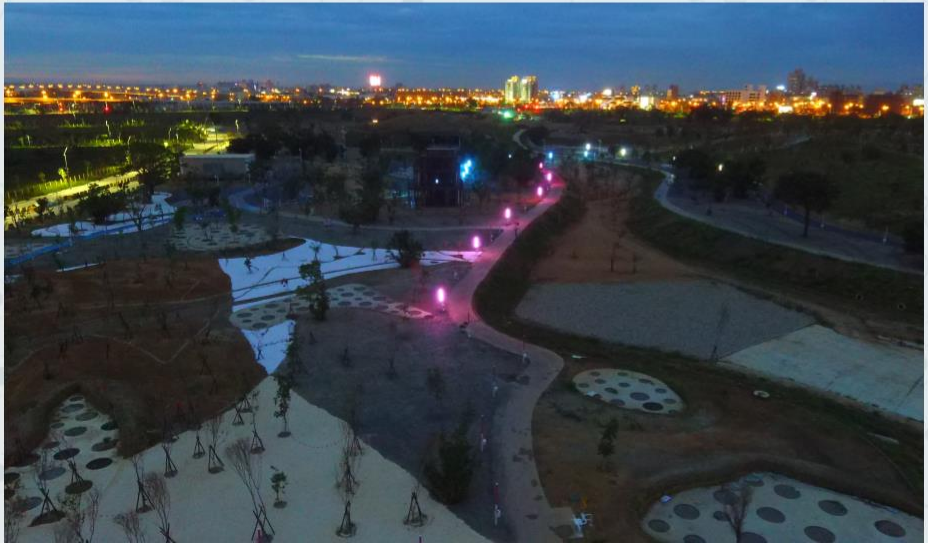



BUILDING HEIGHT
300M
0M
SURFACE COVER: TREE
16.8M
ZONING: MIXED USE
RESIDENTIAL FLAG: YES
TREE IMPACTING ON EVE: YES, 14.5M
ADDRESS ID: GANSW717522589
EVE HEIGHT: 3.4M
ROOF CONSTRUCTION: MEDIUM COMPLEXITY
ROOF MATERIAL: TILE
7.6M


Location
Guest
Sign In
Base Map
Aerial
Create
Swimming Pools
Solar Panels
Building has Solar Panels
No
Yes
Primary Roof Material
Maximum Roof Height
Height (m)
0 to 5
6 to 10
11 to 15
16 to 20
21 to 25
26 to 30
31 to 35
36+
Roof Type
Building Footprints
Tree Height


SMELLY MAPS
HOME
PROJECTS
DATA
TEAM
JOIN US
NORTH CIRCULAR R..
TRUNK
59.8%
NATURE
ANGER
ANTICIPATION
DISGUST
FEAR
JOY
SADNESS
SURPRISE
TRUST
EMISSIONS
NATURE
FOOD
ANIMALS
WASTE
CARTO
Leaflet | © OpenStreetMap, © Mapbox, © CARTO






GLOBAL NORTH
GLOBAL SOUTH
EQUATOR