Flourishing Cities

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....but first, a little background
Resource Demand Forecast

Projected Municipal Resource Demand Increase, 2014-2030

- Water: 40% increase
- Energy: 40% increase
- Food: 50% increase
Disproportionate consumption of cities

City Emissions and Energy Consumption (as a % of the total world’s consumption)

- **GREENHOUSE GAS EMISSIONS**
  - Cities: 20%
  - Rest of the World: 80%

- **ENERGY CONSUMPTION**
  - Cities: 25%
  - Rest of the World: 75%
Climate Emergency
Buying in London? Here's what you need to earn
Housing Crisis

Press release

Housing Secretary unveils green housing revolution

A new green standard for new build homes will bring an environmental revolution to home building.

Published 1 October 2019
From: Ministry of Housing, Communities & Local Government

New green standard for all new build homes (Future Homes Standard) – cut of 80% carbon emissions for all new homes
Ambitious revamp of planning rules
New national design code for beautiful, well-designed homes
All LAs to produce their own design guides
What would a ‘Flourishing City’ look like?
"A city should be built to give its inhabitants security and happiness"

-An Aristotle

An Intelligent City and Liveable City is:

- An Accessible City
- A Business City
- An Attractive City
- A City for Living
- A Just City
Interdisciplinary and collaborative sustainability approach
**PYDAR STREET**

**SOCIAL VALUE OUTCOMES**

**THRIVING**
- More employment opportunities for local people
- Improved skills for local people
- More support for local SMEs and VCSEs
- Improved employability of young people
- More opportunities for vulnerable members of society
- A vibrant and diverse workforce

**RESILIENT**
- A built environment that is resilient to the effects of future climate change
- Spaces and places that are flexible and adaptable to future societal change and market forces
- Strong communities that can support each other during stress or shock events

**INCLUSIVE**
- Providing the best opportunities for all, including the most vulnerable members of society
- Supporting and promoting independent living for vulnerable people
- Providing opportunities for people of all ages to lead active, healthy lifestyles and engage with the wider community
- Innovative housing typologies that encourage intergenerational and intergenerational living

**HEALTH**
- Better physical health and mental wellbeing outcomes
- A better quality of life for all
- Reduction of crime and safe, secure neighbourhoods
- Decrease in child obesity
- Improved adult levels of activity
- Decrease loneliness and isolation for older people
- Better awareness of healthy eating and lifestyles

**ENVIRONMENT**
- Better indoor and outdoor air quality
- High quality housing and living environments
- Higher levels of energy and water efficiency
- Decreased waste generation
- Increased commitment to the procurement of sustainable and green materials
- Reduced climate impacts
- Improved levels of biodiversity and green space
PYDAR STREET
SOCIAL VALUE ACTION PLAN

STAGE ONE
COMMISSIONING

Create a shared understanding of economic, social and cultural factors that should shape the development of the site.

Identify priority areas that need to be addressed and establish high-level social value themes for the project.

Identify key social value outcomes from the Pydar project.

Support the social value objectives and ensure all stakeholders and design teams are aware and committed.

Action
Social Value Champion

- Stage 1 of the Social Value Champion is completed with assurance that these objectives are not diluted during the design process.
- Design teams are funded to work over a member of the design team upon completion.

Consider the use of BENEFIT Convention for the Pydar Project.

STAGE TWO
REGISTRATION OPTIONS

Map out and reach out to local stakeholders in order to reach consensus on how to deliver the social value outcomes.

Identify what ‘Social Value Champions’ will work alongside the design teams.

Consult with specialist organisations, the council and university to assess local research and trends.

Co-develop social value metrics and KPIs with local community.

Establish a social value champion within the community.

Work with council and masterplanners to ensure the development meets social value opportunities within and around the site.

Develop masterplan options and regeneration options, using a consistent set of co-designed social value metrics and KPIs.

Prepare results of evaluation of stakeholder groups and seek feedback.

STAGE THREE
DEVELOP MASTERPLAN

Carry out regular reviews of the existing design to ensure that the social value objectives are being carefully considered and met.

Social Value Action Plan (SVAP) is a regular SVAP-agenda item, with the Social Value Champion leading the discussion.

Present emerging masterplan to local stakeholders at consultation events and workshops.

Highlight the community's role in shaping the future of the site.

Promote awareness of the design through social media and workshops.

Highlight social value objectives and metrics at the consultation events.

Finalise construction and operational phase Plans and Toolkits, including procedures for monitoring of metrics, to be handed over to the council for implementation and oversight post completion.

STAGE FOUR
FINALISATION

Carry out Social Value Evaluation on the final design to ensure that the social value objectives have been met and included within the masterplan.

Present final masterplan to local stakeholders at consultation events and workshops.

Highlight the community's role in shaping the future of the site.

Promote awareness of the design through social media and workshops.

Highlight social value objectives and metrics at the consultation events.

Finalise construction and operational phase Plans and Toolkits, including procedures for monitoring of metrics, to be handed over to the council for implementation and oversight post completion.

STAGE FIVE
FINALISATION


Include Social Value for the development in the planning applications for promoting social value and transparency for all.

Ensure compliance to social value in the design are included in the planning applications for promoting social value and transparency for all.

Handbook of construction and operational phase Plans and Toolkits.

This handbook includes the council for implementation of the social value action plan during the tender and procurement phases as well as the lifetime of the development.
Portobello Square, North Kensington (Catalyst)

- Most ambitious regeneration scheme in Kensington and Chelsea for decades
- A new urban quarter
- 1,100 new homes
- Mixed-tenure, tenure-blind design
- 50% affordable
- Sustainability features
"It's warm, it's dry, it's clean and it's beautiful. I don't know what to say about it really it's just unbelievable; it's like living in a hotel but you can stay. Beautiful, it really is, we're so grateful."

"The best thing is they all look the same, you don't know who lives in any of them and that's what I like, it's equal, if you like, for everybody."

"This needs to be celebrated throughout London, it has transformed my life, and I think it would be able to transform anybody's life."
What are the barriers to designing and delivering Flourishing cities?
Barriers

- Materialism
- Short termism
- Silo thinking
- Lack of awareness
- Demographics
- Over complexity
Breaking down professional siloes
Viability vs Aspirations
The Flourish Framework
Maslow Hierarchy of Needs

- Physiological: Breathing, food, water, sex, sleep, homeostasis, excretion
- Safety: Security of: body, employment, resources, morality, the family, health, property
- Love/belonging: friendship, family, sexual intimacy
- Esteem: self-esteem, confidence, achievement, respect of others, respect by others
- Self-actualisation: morality, creativity, spontaneity, problem solving, lack of prejudice, acceptance of facts
Needs

• Health and wellbeing
• Sustainability of resource and consequences for energy/water/waste/pollution
• Individual and community values and motivation
• Effective monitoring and data pattern and trends analysis
• Selective enabling technology
• Inclusivity
FLOURISH

QUALITATIVE
- Greenery/Nature
- Views
- Decor/Aesthetics
- Colour
- Character
- Layout/Functionality
- Space

QUANTITATIVE
- Daylight
- Air Quality
- Noise
- Dampness
- Pollution
- Temperature
- Neighbourhood Design

Perceptual
- Perceived Health and Well-being
- Happiness and Satisfaction
- Security
- Empowerment
- Achievement
- Relationships
- Community

Economic
- Decreased Public Health Costs (illness, injuries, therapies)
- Increased Asset Value/Sale Price
- Higher Rental Rates
- Better Occupancy Rates/Tenant Longevity
- Productivity
- Performance
- Prosperity
- Social Capital
Health Impact Assessments (HIA)

01 Screening
Determine whether HIA is appropriate and required

02 Scoping
Set out the parameters of the HIA

03 Identification
Develop a community/population profile and collect information to identify potential impacts

04 Assessment
Synthesise and critically assess the information in order to prioritise health impacts

05 Decision making & recommendations
Make decisions to reach a set of final recommendations for acting on the HIA's findings

06 Evaluation & follow-up
Evaluate the processes involved in the HIA and its impact, and follow up the HIA through monitoring and a health impact management plan

The determinants of health and well-being in our neighbourhoods

The health map. Barton and Grant, 2006, developed from a concept by Trudinger and Whittington.
An excellent new home. Achieving this Mark means that the home is designed and built to have very low running costs, many positive impacts upon your health and wellbeing, all with an extremely low impact upon our environment.

- **MY COST**
  - Very low energy bills
  - Low insurance costs
  - Lower mortgage costs

- **MY WELLBEING**
  - Lots of natural light
  - Good temperature control
  - Good air quality

- **MY FOOTPRINT**
  - Low CO2
  - Friendly materials
  - Great biodiversity
WELL Building Standard

SEVEN CONCEPTS FOR HEALTHIER BUILDINGS

AIR
14 FEATURES
4 preconditions
10 optimizations

WATER
8 FEATURES
3 preconditions
5 optimizations

NOURISHMENT
13 FEATURES
2 preconditions
11 optimizations

LIGHT
8 FEATURES
2 preconditions
6 optimizations

FITNESS
12 FEATURES
2 preconditions
10 optimizations

COMFORT
15 FEATURES
2 preconditions
13 optimizations

MIND
16 FEATURES
3 preconditions
13 optimizations

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WELLNESS MATTERS

Health and wellbeing in offices and what to do about it.
Living Building Challenge

LIVING BUILDING CHALLENGE

PLACE | Restoring a healthy interrelationship with nature

WATER | Creating developments that operate within the water balance of a given place and climate

ENERGY | Relying only on current solar income

LIVING BUILDING CHALLENGE 3.0
Seven Petals to Certification

HEALTH & HAPPINESS | Creating environments that optimize physical and psychological health and well-being

MATERIALS | Endorsing products that are safe for all species throughout time

EQUITY | Supporting a just, equitable world

BEAUTY | Celebrating design that uplifts the human spirit

SITE

ENERGY

WATER

EQUITY

BEAUTY

MATERIALS

HEALTH
Impact

Perceptual
- Health & well-being
- Happiness & satisfaction
- Decreased stress/anxiety
- Empowerment & achievement
- Safety & security
- Personal relationships
- Community/inclusion

Economic
- Decreased public spending
- Increased asset value
- Higher rental rates
- Better occupancy rates
- Productivity & performance
- Absenteeism & presentation
- Prosperity & social capital
Thank you for listening!

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