CSIC Infrastructure Futureproofing

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Welcome to Leggo-land. In the forefront of the picture is the "before" and in the background the clean geometrical lines of the "after."
Today
“A man who, beyond the age of 26, finds himself on a bus can count himself as a failure.”

(1986)www.parliament.the-stationery-office.co.uk/pa/cm200203/cmhansrd/vo030702/debtext/30702-10.htm
Today

Garage

Use Do Not Park

No Parking

And That Means You!
Today
Today
Today
Today

Photo taken from:
2025

Local community – healthy, safe and vibrant

Economic growth – jobs, skills and opportunity

Energy and efficiency – smart design and technology

Energy sources – low carbon heat and electricity

Wellbeing – healthier living in the heart of London

Healthy innovation – low carbon materials

New parkland – landscaping and species diversity

Shared infrastructure – leading edge services

Social – diverse range of activities

Transport – promotion of sustainable transport

Waste – minimise and recycle

Water – reduce water consumption by 30% vs typical UK standards

Wellbeing – healthier living in the heart of London
Public Realm and Open Space
Water Sensitive Urban Design

Landscape Strategies

Water Management (SUDS)

1. Rain water falls onto roof (attenuation) and irrigation of green roofs.
2. Biodiverse Roof
3. Green Roof (wildflower swale)
4. Private Roof Garden/Terraces.
5. Opportunity for water butts connected to downpipes for private gardens.
6. Hopper to express water from downpipes.
7. Water attenuation beneath podium filter (reservoir)
8. Water runoff drains through paving to top up reservoir
9. Water made available to planting in courtyard (taken up by wicking)
10. Manual pump/hose points in courtyard to irrigate planting in times of drought. Mechanism to top up reservoir in courtyard via a non potable water source (Thames water).
11. Excess water spills off podium edge into rain pool (water feature at heart of public realm).
12. Rain Garden (excess water feeds into rain garden along Paragon River supporting wet/marginal planting. Water fills channel and slowly infiltrates into the ground.)
Key sustainability elements – Just some of what we’re thinking:

Green travel plans and cycle facilities will encourage cycling as an important transport mode.

Car club and provision for electric vehicles further reducing car demand/impact.
Key sustainability elements – Just some of what we’re thinking:

Super efficient building fabric reduces the size of plant & energy needs

Solar energy utilised to power public realm

Combined heat and power through a district heating network