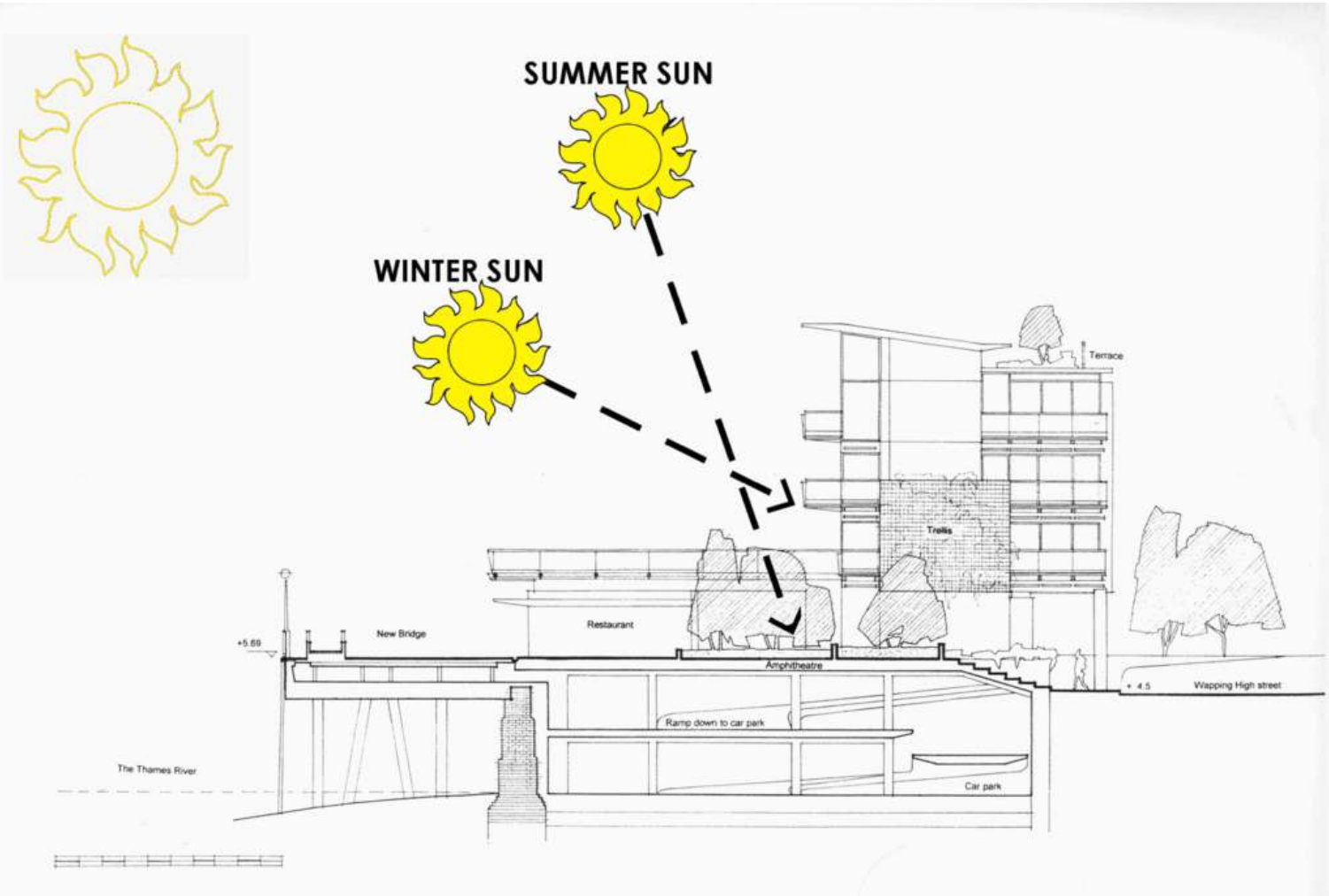
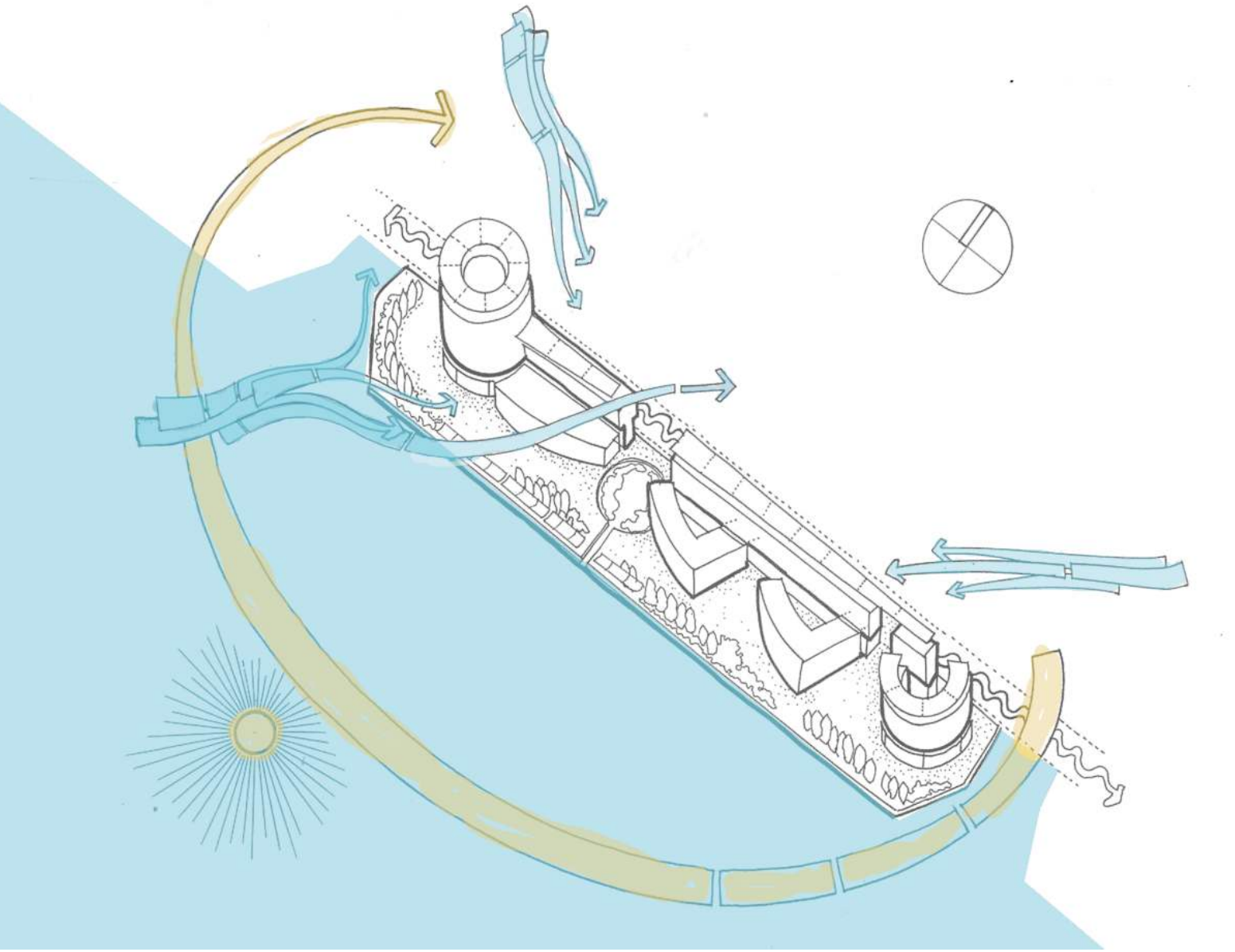


Landscaping for Light, Shade & Comfort
How passive design shapes beautiful, usable spaces.
→ Following: some key environmental drivers that make it possible

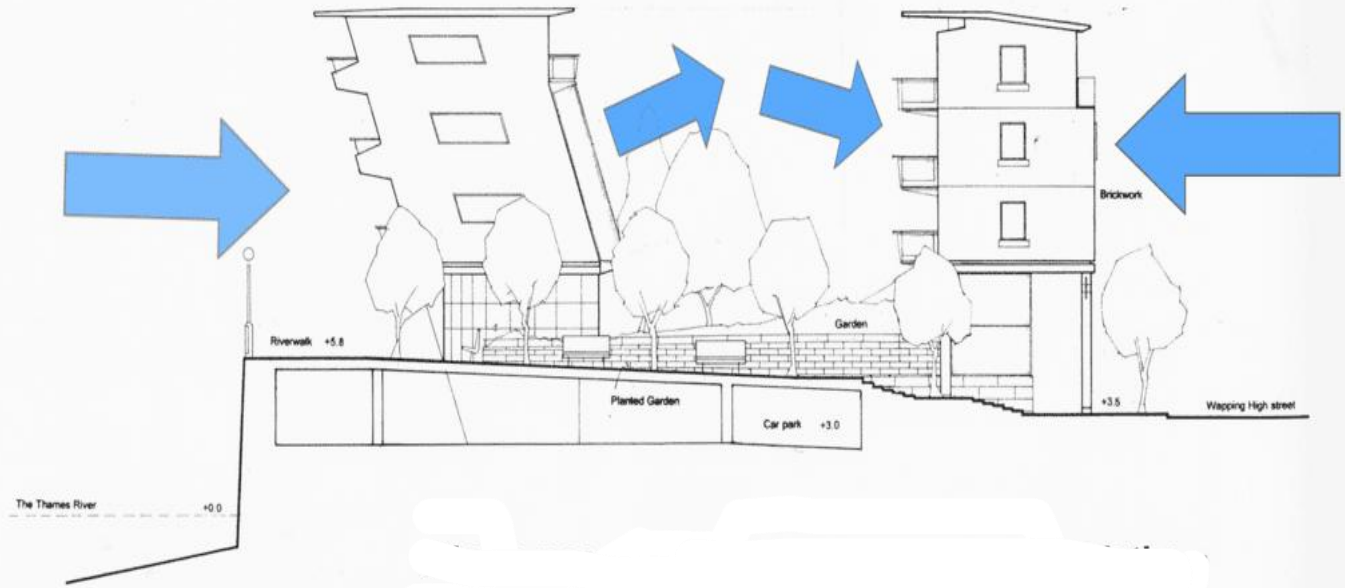


Eaves & shading protect windows from summer sun and admit winter light

Environmental Drivers



2 Masterplanning for wind, sun and amenities



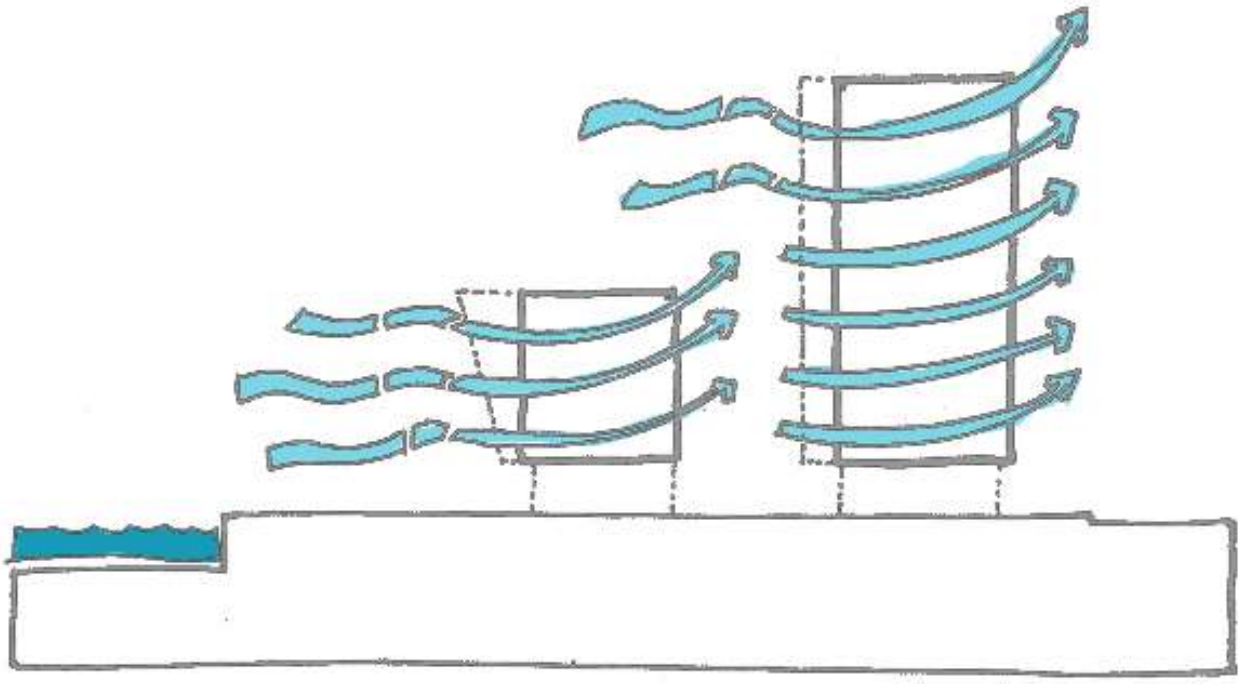
Wind cross ventilation from the river through courtyard buildings



Extensive landscaping reduces heat and adds comfort

4

Cross-ventilation flows through courtyard buildings



Summer Breeze

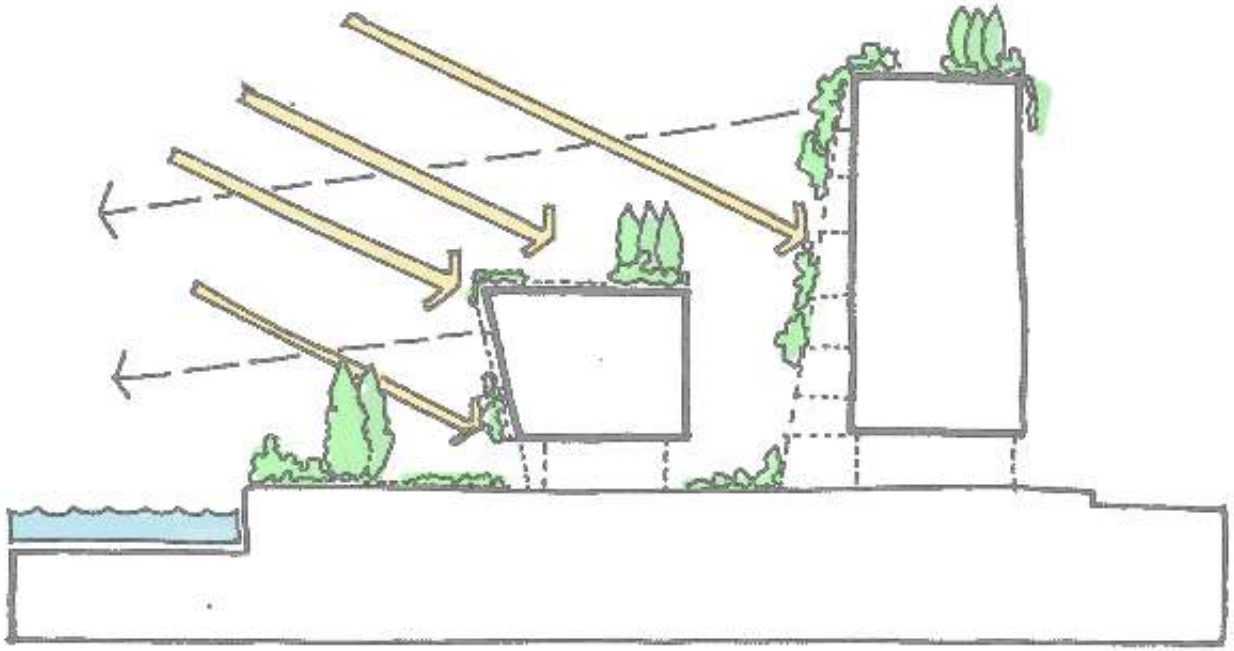
During summer, take advantage of cool SW winds over the river



Model testing of passive principles: orientation, massing, and courtyard flows

6

South-facing walls double as solar buffers and green facades

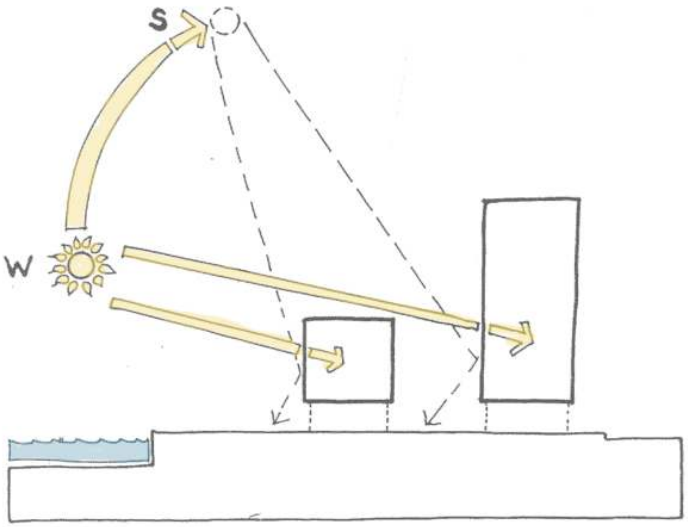


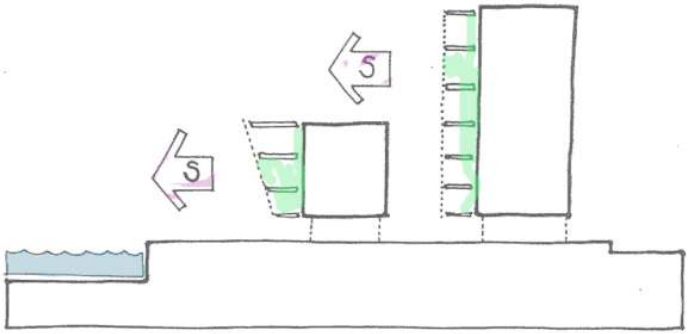
Landscaping – an organic solution

Vertical planting softens the hard edge of the building to the south and provides solar shading.

Roof terraces can take advantage of the views over the river.

Roofs shaped for for outdoor use year around





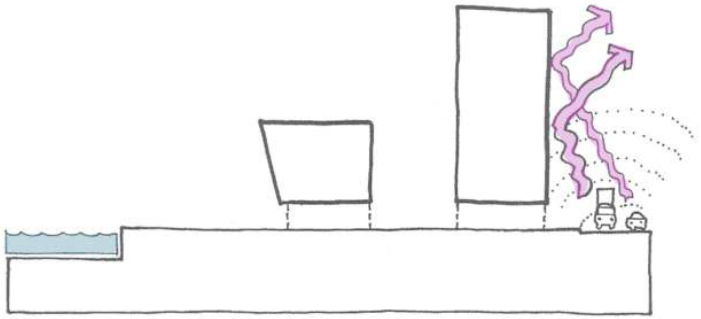
Sun Path changes seasonally

By careful design of the facades, solar gain can be maximized in the winter and minimized in the summer

Seasonal spaces

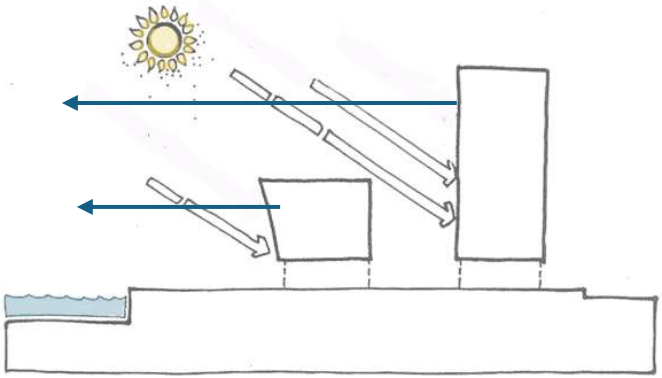
South-facing balconies can be closed of with glass in the winter to create solariums or winter gardens

Comfort: Noise buffers and sun traps



Noise Buffer

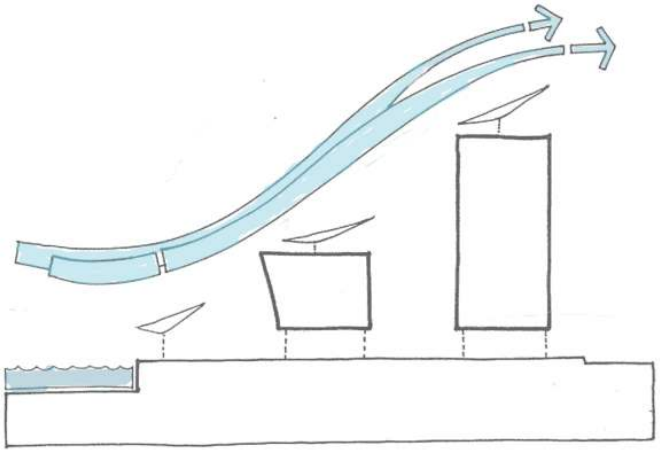
Inner quiet sanctum protected from a fairly busy noisy road

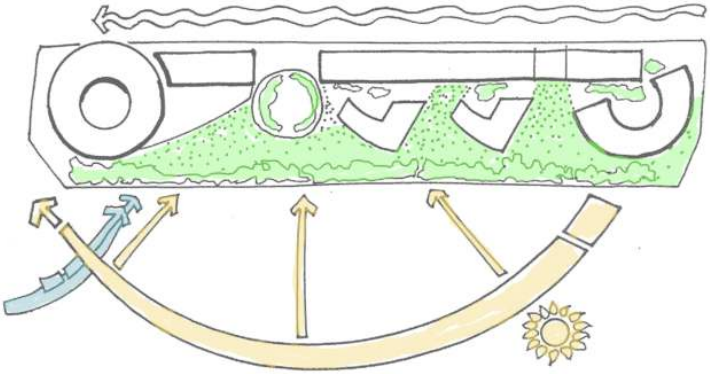


Orientation & Views

Building oriented to the south to take maximum advantage of views and sunlight.

Usable outdoor spaces





Sheltered areas

Building roofs shaped to reduce turbulence- street furniture and wind protection walls provide shelter at ground level.

Micro Climates

Building Massing and Orientation provides a variety of outdoor spaces. + Sunny wind sheltered piazzas in winter, shady, cool walkways and courtyards in summer.
The use of planting and landscaping with water enhances the natural feel of the space and encourages external use



11 Passive-first. Built to perform