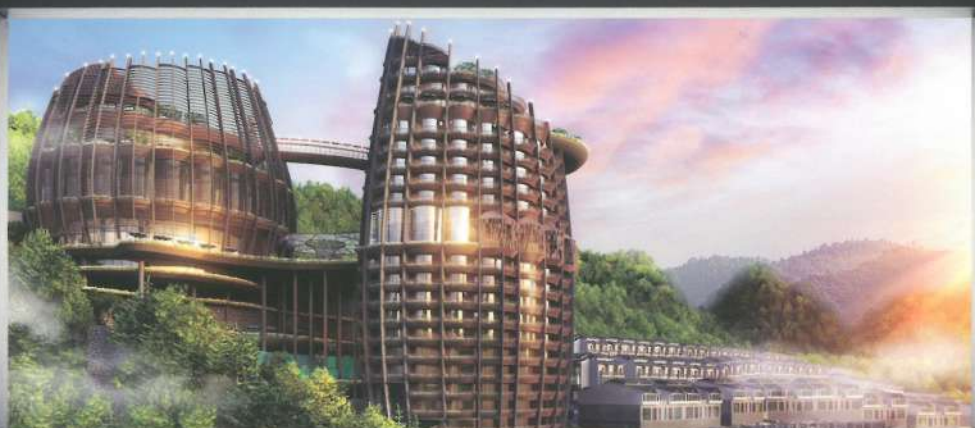


architecture @ 20



The next generation of architecture in Asia +
New building technologies

GALLIUM VALLEY SCIENCE PARK



Project Name Gallium Valley Science Park
Location Hangzhou, China
Client Hangzhou Gallium Valley Technology Co. Ltd.
Architecture Firm LWK + PARTNERS
Principal Architect Ferdinand Cheung
Site Area 63,300 square metres
Gross Floor Area 158,250 square metres
Building Height 50 metres
No. of Storeys 11
Construction Start January 2020
Scheduled Completion Date December 2021



Open spaces and leisure amenities

Designed by LWK + PARTNERS, Gallium Valley Science Park is an important part of the Cloud Valley, where it is at the heart of China's technology cluster. The complex is expected to accommodate 6,000 professionals, housing laboratories; co-working and meeting spaces; sports facilities; exhibition venues; food and beverage outlets; as well as retail outlets for its future users. The project is also designed to cater to people's diverse needs of work, play and social elements to promote work-life balance. Recreational facilities include a gym, a swimming pool, an elevated jogging track, a basketball court and open spaces for events.

The project design proposes a new office-park typology by emphasising shared spaces on multiple levels. A communal 'sky-loop' platform on the third level will connect office spaces with amenities like restaurants and roof gardens. For the higher blocks, major recesses will be introduced to the building envelopes facing the central courtyard, creating communal terraces on every floor to allow fresh air and sunlight into core spaces like lift lobbies and pantries. Open areas will also be created by shifting, cutting out and breaking down the orthogonal architecture. While trees and green spaces will be found throughout the project, a permeable paving will help in maintaining subterranean cover, completing the park environment. Various entry points will facilitate access while linked bridges in the park provide connections.

The interior design will feature clean, connected lines, where a simple palette of wood and bronze elements will give spatial accents. Gallium Valley Science Park will be equipped with smart lighting, automated HVAC (heating, ventilation and air conditioning), smart lifts, etc.



Concept sketch

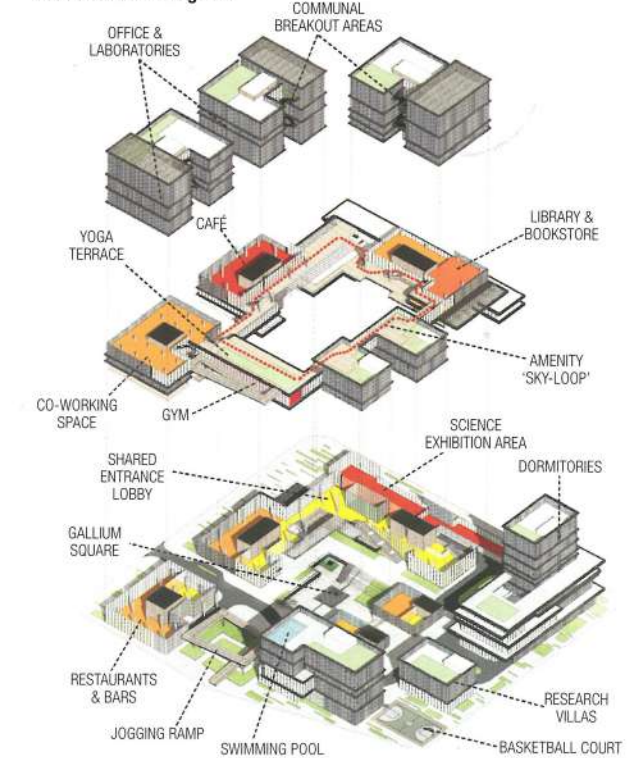


Open areas will be created by shifting, cutting out and breaking down the orthogonal architecture



A new office-park typology

Axonometric diagram



OLYMPIC VANKE CENTRE



Project Name Olympic Vanke Centre
Location Hangzhou, China
Client China Vanke Co Ltd.
Architecture Firm LWK + PARTNERS
Principal Architect Ferdinand Cheung
Mechanical & Electrical Engineer China United Engineering Corporation Limited
Civil & Structural Engineer China United Engineering Corporation Limited
Site Area 13,969 square metres
Gross Floor Area 95,521 square metres
No. of Storeys 23 (Tower A); 21 (Tower B)
Construction Start January 2020
Scheduled Completion Date March 2021

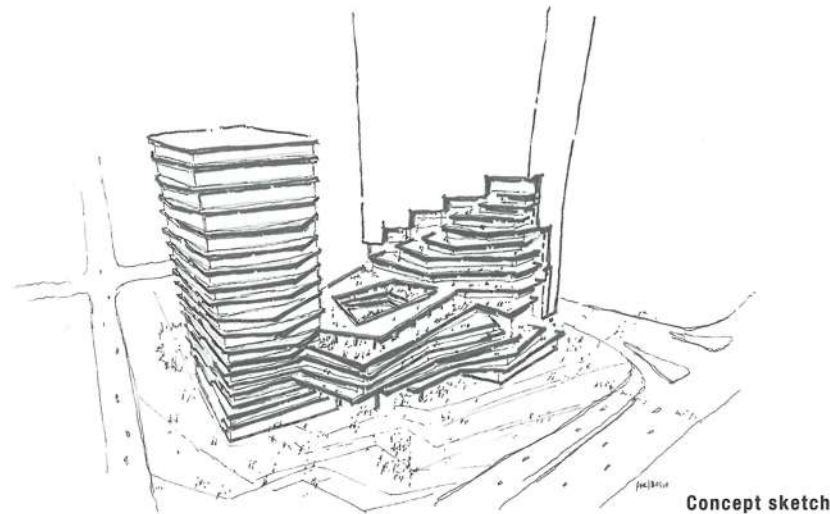


Located at the entrance of the 2022 Asian Games Village, Olympic Vanke Centre will include two office towers, a shared podium and three underground levels for parking. This innovative working hub by LWK + PARTNERS is envisioned to reinterpret the podium-tower typology as well as promote interactions and passive designs.

Pivoted around a landscaped void at the heart of the site, the lifted podium will open up to outdoor terraces. The convergence of the two towers at the lifted podium will be highlighted by the continuous deep-set spandrel fins, which will portray sharp shadows by the changing angles of the sun relative to the spiralling building form. The external supergrid of the curtain wall enclosing the higher tower will regulate the noise pollution from traffic, whereas the horizontally sliced timber planes of the window wall enclosing the lower tower will offer privacy.

The façade of the two towers will employ passive sun-shading systems to limit direct insolation and reduce interior heat gain. Moreover, each unit will be equipped with dedicated air-conditioning systems, where individual temperature control will allow tenants to optimise their own indoor environment, adding incentives for energy-saving practices.

The taller tower of the project is expected to house corporate tenants, while the lower tower will feature cubicle work stations with a generous common area intended as a breeding ground for start-ups and entrepreneurs. The podium will include two levels of food and beverages and other shared amenities, such as a gymnasium, cafeteria and entertainment spaces. This programmatic stacking blurs the work-life distinction. A semi-public podium roof garden will serve as a bridging leisure space between the two office towers.



Concept sketch



WEST HUASHAN UNIPARK



Project Name West Huashan Unipark
Location Jinan, China
Client China Overseas
Architecture Firm LWK + PARTNERS
Principal Architect Ferdinand Cheung
Structural Engineer Ove Arup & Partners Ltd
MEP Engineer Meinhardt Group
Façade Engineer Inhabit Group
LDI Huayi Design
Site Area 44,222 square metres
Gross Floor Area 100,800 square metres
Building Height 40 metres
Construction Start January 2020
Scheduled Completion Date June 2023



Street view

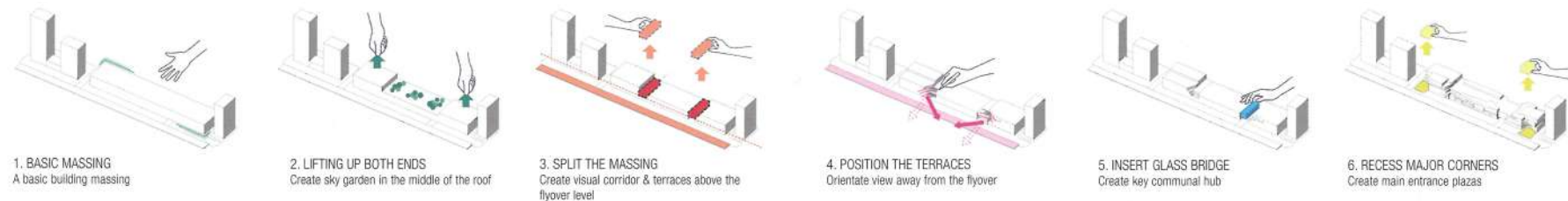
Designed by LWK + PARTNERS, West Huashan Unipark is a shopping mall in Jinan that is surrounded by the rich natural landscape near the Yellow River. Inspired by the silhouette of mountain ranges, the architects adapted it to the modern site by redefining the massing and roofline with distinctive bronze concave-shaped elements, integrating this contemporary architecture with its surrounding.

By strategically inserting a three-storey atrium and cascading outdoor decks to the linear massing, the 360-metre-long mall will have a number of multilevel attractions and destinations with natural lighting. An experiential programme will be offered with careful planning of inter-level circulation.

The mall has four main attractions inspired by natural landforms. With abundant daylight entering through the skylight, Forest is a triple-volume indoor atrium that will serve as a central platform for large-scale displays, events, performances and gatherings. Blossom will feature a series of outdoor decks lined with colourful seasonal plants where people can roam freely, which invites outdoor dining. These terraces will also increase visibility within the mall and encourage interactions between the indoor and outdoor spaces. Spring is a sunken fountain inspired by the history of Jinan being a city of hot springs, providing a public space for the community. Cloud is a sky garden acting as an outdoor playscape for sports and recreational activities. Overall, the shopping mall intends to offer diverse visual elements to provide a leisure retail-social environment.

The project takes advantage of the elongated site to create a street-level façade to maximise transparency and visual impact, bringing views of outdoor greenery indoors. An outdoor promenade spanning about the length of the façade will serve as a shopping street within the site.

Massing strategies



An outdoor promenade



Cascading outdoor decks offer multilevel attractions with natural lighting