

Built Environment Challenges







Lack of transparency in cost management

Meeting sustainability goals

Supply chain disruption



Strategic Partnerships



Implemented initiatives under the Growth and Transformation Scheme (GTS) in 2021, including forming strategic partnerships in the built environment to drive:

- Innovation
- Productivity
- Sustainability



Among the developers to lead an alliance with contractors and consultants



Target Outcomes of the Strategic Partnerships

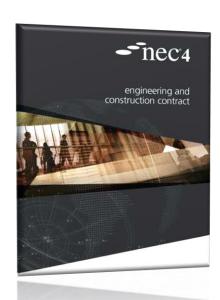
Exceeding minimum required site productivity levels





Initiatives Led by CLD & Partners

CLD Initiatives

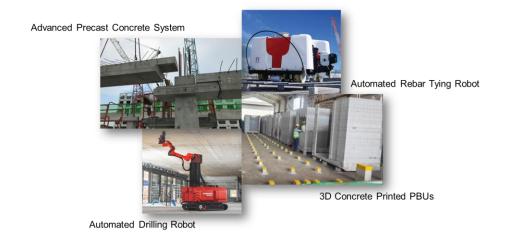


New Engineering Contract 4 (NEC4)



Common Data Environment (CDE)

Other GTS Partnering Initiatives



Automation and Design for Manufacturing and Assembly (DfMA)



Common Data Environment (CDE)





Collaborative Contracting



CapitaLand Development embarks on the New Engineering Contract 4 (NEC4) journey with ADDP, KCL, Alpha, Mott MacDonald, Threesixty and Nakano for Singapore Science Park's first residential development.

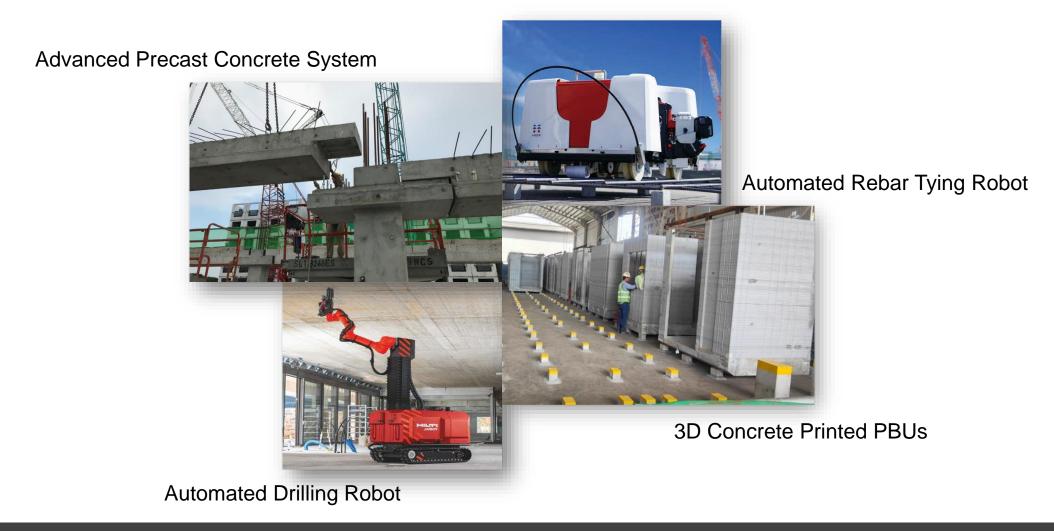
- ✓ Clear and Straightforward Language
- ✓ Offers Flexible Contract Options
- ✓ Promote Collaborative Approach
- ✓ Enhances Transparency in Project Management
- ✓ Proactive Risk Identification
- ✓ Ensures Fair and Equitable Treatment



Source: scl.org.sg



Other GTS Partnering Initiatives





CapitaLand's GTS Projects



Geneo – 1 Science Park Drive

• Drilling Robot



J'den



ParkTown

• *CDE*



Future Projects

Upcoming
Residential Development
at Science Park

• CDE / NEC4

• CDE / 3D Concrete Printed PBU / Rebar Tying Robot



Our Journey So Far

- + Willingness of partners to step out of comfort zone
- + More open sharing of experiences from adopting new initiatives
- Differing competencies across built environment
- Inertia towards new approaches
- Different rate of digital adoption
- Lack of data standardisation
- Maturity of alternative solutions





Shape Change Through Other Partnerships Beyond GTS



- Established in late 2021
- S\$50 million fund designed to foster a culture of innovation within CapitaLand

Conparison of Power Consumption (October)

Comparison of Power Consumption (October)

Alarm Hem Statistics

Comparison of Power Consumption (October)

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>100 pilots to-date



Shape Change Through Other Partnerships Beyond GTS





- Launched in 2020
- A global platform to advance innovation and collaboration in sustainability



A Continuing Journey



Mindset Shift and Analyse Process Gaps



Explore New Technologies



On-board more Value Chain Partners



