The Construction Productivity Awards (CPA) recognise outstanding industry firms for going the extra mile to achieve construction productivity improvements and promote higher productivity in the industry.

**There are two award categories:**
- CPA – Projects
- CPA – Advocates

**CPA – Projects**
The CPA – Projects is awarded to project teams that have demonstrated productivity in their projects from the design to the end of construction. The award aims to:
- Encourage designers to come up with labour-efficient designs;
- Encourage the adoption of labour-efficient construction methods; and
- Recognise project teams for their excellent project planning and coordination in enhancing productivity.
CPA – Advocates
The CPA – Advocates recognises outstanding developers, consultants, builders and subcontractors for their achievements in improving productivity at the firm level. Developers, consultants and builders are recognised for the adoption of designs, construction methods, processes and/or technologies that have significant productivity impact on their projects.

CPA – Advocates has four sub-categories:
i) Developer
ii) Consultant
iii) Builder (Open)
iv) Builder (Prime)

Assessment Criteria
1. Buildable design score
2. Constructability score
3. Productivity performance (physical and value-added productivity)
4. Productivity initiatives
P&T Consultants Pte Ltd is a leading multi-disciplinary consultancy firm in Singapore. Over the past decade, the firm has been constantly evolving and innovating to ensure its relevance to the contemporary market and the industry’s demands. P&T Consultants strongly believes in maintaining a high standard of work through efficient work processes like utilising technology to drive new creative processes and continued upgrading of their employees.

Key Productivity Initiatives:

- P&T Consultants Pte Ltd is the architect for the first high rise building project, the Residential Halls at North Hill for Nanyang Technological University that used Prefabricated Pre-finished Volumetric Construction (PPVC). The adoption of PPVC could achieve manpower savings of an estimated 25% to 40% for the project. The firm is also the architect for the HDB project, West Terra, at Bukit Batok, which used Prefabricated Volumetric Construction (PVC) and Prefabricated Bathroom Units (PBU). For the same project, the firm also made use of Cross Laminated Timber (CLT) technology to construct the Residents’ Committee Centre.
P&T Consultants Pte Ltd has been utilising BIM technology for their projects as early as 2009. The usage of BIM has helped the firm to reap benefits like better visualisation which made design production more effective and improved coordination across multiple disciplines and companies working together on complex projects.

Key Productivity Initiatives:

- P&T Consultants Pte Ltd used BIM in the Bukit Batok West Terra project which improved the coordination between the consultants and the builder.
P&T Consultants Pte Ltd is a leading multi-disciplinary consultancy firm in Singapore. The firm is committed to the pursuit of excellence in the field of Structural & Civil Engineering and great emphasis is placed on developing engineering solutions in buildings sympathetic to architecture, end user and clients’ requirements while enhancing construction productivity.

Key Productivity Initiatives:

- P&T Consultants is the Civil & Structural Engineer for the HDB project, West Terra, at Bukit Batok, which used Prefabricated Volumetric Construction (PVC) and Prefabricated Bathroom Units (PBU).

- P&T Consultants Pte Ltd utilised the Alveodeck System in their project at The Crest at Prince Charles Crescent. The system reduced the amount of concrete needed in the slabs and resulted in a shorter construction time during the structural construction stage.
Key Productivity Initiatives:

- In one of the firm’s residential projects, Saint Ritz Condominium, the show flat was constructed using portable prefabricated modules. These portable modules could be transported easily and it facilitated re-location of the show flat, whenever necessary.
Davis Langdon KPK, an AECOM company, is a leading global construction consultancy, providing cost and program management solutions as well as a range of specialist consultancy services for clients investing in infrastructure, property and construction.

Key Productivity Initiatives:

- Davis Langdon KPK utilised a global cost and project database known as Global Unite. The database enabled them to give clients more timely and accurate advice and better cost benchmarking by comparing projects globally.

- The firm also used CostX, a software that automatically extracts and generates quantities from BIM models. CostX has enhanced the efficiency of cost planning and reduced the time taken to prepare cost estimates by 50% when compared to taking off quantities from 2D drawings.
Davis Langdon KPK place great emphasis on the skills development of their staff and BIM courses are part of their staff learning.

Key Productivity Initiatives:

- Davis Langdon KPK also places high priority on skills development through professional learning and training camps on BIM and CostX as well as thought leadership excellence on productivity-centric issues.
Unison Construction Pte Ltd was incorporated in Singapore in 2009 and the firm’s key personnel has more than 20 years of experience in the construction industry. The firm places great emphasis on good management skills and innovative solutions. Unison Construction strives for productivity improvement in their projects through key areas like workforce development and skill upgrading, technology adoption and capability development.

**Key Productivity Initiatives:**

- Unison Construction has pioneered the process of Research, Development & Demonstration (RD & D) for their construction projects. One example is the development of 6 types of Prefabricated Bathroom Units (PBU) using different wall materials like light weight aerated concrete panels and hollow core concrete panels.
Unison Construction Pte Ltd

Key Productivity Initiatives:

• The firm has advocated the use of innovative technologies to help improve the productivity of their projects. An example is the use of integrated formwork systems like aluminum table form and jump form system formwork which achieved about 60% manpower savings compared to conventional timber formwork. Another example is the adoption of the flexible water pipes that achieved about 30% manpower savings compared to copper pipes.

• Unison Construction also emphasised on staff training and has participated in many learning journeys organised by BCA for the industry.
Established in 1976, Soil-Build (Pte) Ltd is a wholly-owned subsidiary of Soilbuild Construction Group Ltd. The firm has delivered a wide range of projects for both private and public sectors encompassing building types of residential, institutional, industrial and commercial categories.

Key Productivity Initiatives:

- Soil-Build emphasised on developing their capability in Building Information Modelling (BIM) and has utilised BIM in areas like detecting and resolving clashes.
Soil-Build (Pte) Ltd

Key Productivity Initiatives:

- The firm advocated the wide use of mechanization to improve productivity on the construction site. The equipment and machinery used on their project sites included concrete placing boom, concrete distributor, telescopic forklift, storey crane, scissors lift and boom lift.
## Construction Productivity Awards - Advocates

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<th>Firm</th>
<th>Category</th>
<th>Award</th>
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<tr>
<td>P&amp;T Consultants Pte Ltd</td>
<td>Consultant (Architectural)</td>
<td>Gold</td>
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<tr>
<td>P&amp;T Consultants Pte Ltd</td>
<td>Consultant (Civil &amp; Structural)</td>
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<tr>
<td>Davis Langdon KPK (Singapore) Pte Ltd</td>
<td>Consultant (Quantity Surveying)</td>
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<td>Unison Construction Pte Ltd</td>
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