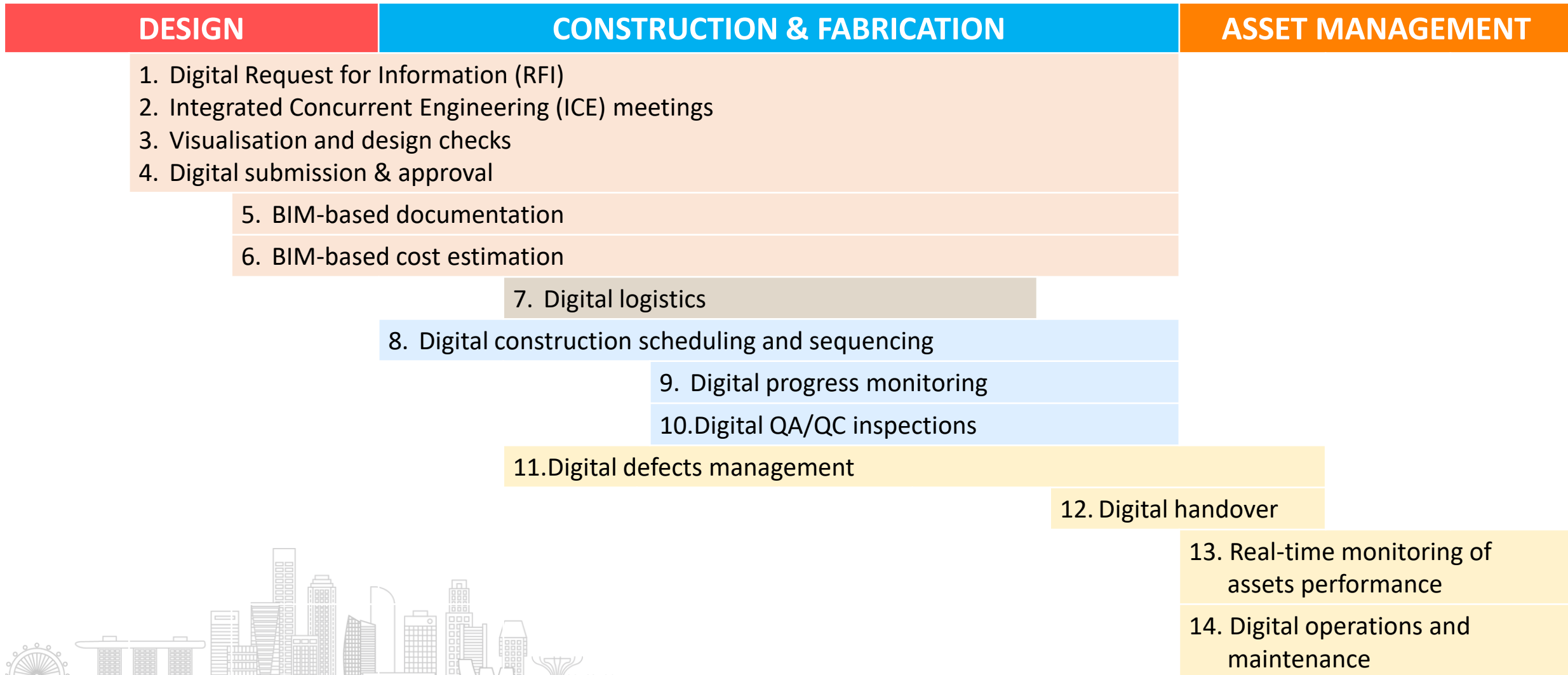


# IDD Essential Use Cases

<For Info >

- Commonly adopted use cases focus on Design, Construction, Fabrication and FM stages



# IDD Essential Use Cases

<For Info >

DIGITAL USE CASE	DEFINITION	DIGITAL DELIVERABLES
1. Digital Request for Information (RFI)	Use digital technology to request information or facilitate communication, in relation to any issue arising from the building works	<ul style="list-style-type: none"><li>• Issues and resolution dashboards</li><li>• Digital notes of discussion</li><li>• Updated BIM models</li></ul>
2. Integrated Concurrent Engineering (ICE) meetings	Conduct an ICE meeting using digital technology and BIM	<ul style="list-style-type: none"><li>• Digital records of decisions, actions to be taken and party responsible</li></ul>
3. Visualisation and design checks	Utilise a BIM model, a digital 3 dimensional model or immersive technology to visualise, seek feedback about and validate the design of the building	<ul style="list-style-type: none"><li>• BIM or other digital 3D models</li><li>• Rendered models</li></ul>
4. Digital submission & approval	Use digital technology to submit and obtain approval relating to the design of the building or any component involved in the building works	<ul style="list-style-type: none"><li>• Tracking of design issues, comments, submission, and revisions through digital means</li><li>• Decision records</li></ul>
5. BIM-based documentation	Prepare documents based on information primarily generated from a BIM model	<ul style="list-style-type: none"><li>• BIM models</li><li>• Drawings</li><li>• Tender specifications</li></ul>



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DIGITAL USE CASE	DEFINITION	DIGITAL DELIVERABLES
6. BIM-based cost estimation	Estimate costs at various stages of the building works based on information generated from a BIM model	<ul style="list-style-type: none"> <li>• Costing models</li> <li>• Costing and quantity-take-off documentation</li> </ul>
7. Digital logistics	Use digital technology to plan the prefabrication production schedule of the building works, and digitally track and monitor the production, delivery and installation of prefabricated components	<ul style="list-style-type: none"> <li>• Production schedule</li> <li>• Digital logistic delivery records</li> </ul>
8. Digital construction scheduling and sequencing	Use digital scheduling to plan and monitor the construction activities of the building works	<ul style="list-style-type: none"> <li>• Construction schedules, and sequencing models</li> </ul>
9. Digital progress monitoring	Use digital solutions or digital scanning to track and monitor the progress of the building works	<ul style="list-style-type: none"> <li>• Records of site progress photos, or scanned models</li> <li>• Progress reports (actual vs planned);</li> </ul>
10. Digital QA/QC inspections	Use digital solutions to record the observations from site inspections of the building works and track the necessary follow-up actions taken	<ul style="list-style-type: none"> <li>• Records of QA/QC site inspections;</li> <li>• Audit trails of resolution/approvals</li> </ul>
11. Digital defects management	Use digital checklists or digital dashboards to manage and track the defects of the building works and the rectification of those defects	<ul style="list-style-type: none"> <li>• Master defects list</li> <li>• Defects rectification reports</li> </ul>



# IDD Essential Use Cases

<For Info >

DIGITAL USE CASE	DEFINITION	DIGITAL DELIVERABLES
12. Digital handover	Use digital technology to generate and digitally handover	<ul style="list-style-type: none"><li>• Digital asset models</li><li>• Any other documents relating to the physical asset, including but not limited to the following:<ul style="list-style-type: none"><li>• the as-built records;</li><li>• The manufacturer's specifications and warranties;</li><li>• the operation and maintenance manuals.</li></ul></li></ul>
13. Real-time monitoring of assets performance	Set up a digital platform to monitor the real-time performance and track the key operating parameters of a physical asset that is built as part of the building works	<ul style="list-style-type: none"><li>• Digital platform for building performance tracking</li></ul>
14. Digital operations and maintenance	Set up a digital platform to integrate other technologies to perform the operations or maintenance of a physical asset that is built as part of the building works	<ul style="list-style-type: none"><li>• Digital platform for operations and maintenance</li></ul>

