



This 7th Monthly Tech Insights highlights the upcoming future of construction technologies articles worldwide. We also featured construction technologies webinars and conferences. Through our Tech Insights, you can explore technologies and best practices that are currently shaping the built world.

**| ADVANCED CONSTRUCTION**



**How automation and Robotics will impact construction**  
By Vercator

The advantages of robotics in construction are well known, but so are the limitations. Here, we are going to explore the evolving space of robotics in construction and make some predictions on the impact that our autonomous friends will have on the industry.

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**3D-printing is speeding up the automation of construction**  
By Metropolis

3D home construction is still in the early stage of development. Most startups in this field are developing new technologies and not building homes yet. Two of the highest profile and best-financed companies – Mighty Buildings and ICON – have delivered fewer than 100 houses between them.

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**Why and how to use drones in construction and infrastructure**  
By Wingtra

The author uses practical examples to illustrate the benefits and applications of drones in construction and infrastructure.

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**| GREEN BUILDING TECHNOLOGY**



**Honeywell and SAP partner to improve building performance with integrated, Cloud-Based business and operational technology data**  
By Honeywell

As businesses look to automate and simplify day-to-day operations, digital transformation becomes a means to that end. Honeywell is taking a leading role in applying digital transformation to next-generation building management.

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**Is Green Concrete Truly Environmentally Friendly?**  
By Energy Industry Review

The author shares the benefits and impact of the two ranges of 'low carbon' concrete: CEM II/C-M and the legal implications in the European Commission.

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**Shifting design and digitalisation to focus on the path to net zero**  
By New Civil Engineer

The author highlights three key strategies to achieve the path to net zero construction.

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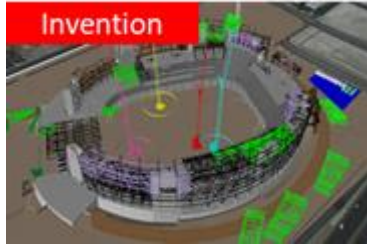
| **DIGITALISATION**



**Top 10 Digital Transformation Trends**  
by Forbes

There were rapid technology growth and digital transformation accelerated at scale in the past, including areas like AI and data analytics. Daniel Newman from Forbes will give us his top ten digital transformation predictions.

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**Accelerating Digital Transformation Through BIM**  
by Dodge Construction Network

The Build Environment sector is adopting various solutions for outcomes improvements, e.g. productivity gains, risk management and effective stakeholders engagements. Dodge Construction Network is partnering with Autodesk and their research partners to provide us a market report with key topic on accelerating digital transformation through BIM.

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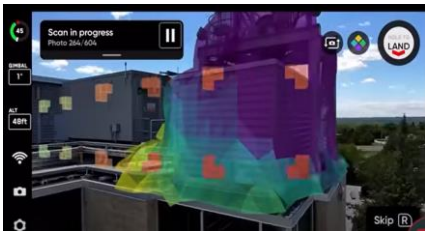
**The next normal in construction**  
by McKinsey

It is crucial for executives to understand the changes COVID-19 has brought towards the business models and industry dynamics here. Let's find out more from the report of McKinsey & Company on how the technology progress and disruptive new entrants will trigger industry overhaul.

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| **YouTube Videos**



**IEEE International Conference on Robotics and Automation**

China's Largest Robot Exhibition is China's only national, international and professional robotic intelligent exhibition. It is the largest and most authoritative robot event in the Asia-Pacific region.

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**The Future of Construction is... Manufacturing?**

The list comprises of the trending technologies and the ones that are booming currently. These Future Technologies are exciting and come with a broad range of usage that will make our lives easier.

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**5G application of construction machinery remote control**

The trial aims to verify the improved workability and quality of remote construction by applying the large-capacity, low-latency communication featured in 5G to construction machinery.

View Here



| **PAST WEBINARS, WORKSHOPS**

<p><b>2017, 2018, 2019, 2020 and 2021</b></p>	<p><b>Past Computational BIM Workshops</b></p> <ul style="list-style-type: none"> <li>• Human-Machine Cognition with Computational BIM by Mr Chandrashekhar Hampiholi (Surbana Jurong)</li> <li>• Python for Architects and Engineers by Mr Vignesh Kaushik, (Gensler)</li> <li>• BIM Modelling Strategy for Facility/Asset Management by Reema (GraphiSoft SGMV)</li> <li>• And many more ...</li> </ul>	<p><b>Visit Here</b></p> 
<p><b>2021</b></p>	<p><b>Past Webinars on Urban Sustainability R&amp;D e-symposia</b></p> <ul style="list-style-type: none"> <li>• Opening Webinar by Minister Desmond</li> <li>• Smart Estates: Adapting to a Disrupted World</li> <li>• Dealing with the Deep Uncertainty of Sea Level Rise</li> <li>• BE the Future Webinar: Cutting-edge Technologies for Built Environment Sector</li> <li>• And many more ...</li> </ul>	<p><b>Visit Here</b></p> 

## Want to contribute for Tech Insights?

We welcome written contributions from all who share a keen interest in advanced construction, green building technology, and digital innovation. Email us at [Stanley.Tan@bca.gov.sg](mailto:Stanley.Tan@bca.gov.sg)



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