



Top Tech Trends to Watch out for in 2022

Technology, which continues to reinvent and restructure how we work, live, and interact, helped us survive the pandemic. But what does the future year hold in store for us? We've compiled a list of the most important technological trends to watch in 2022 and beyond.

| ADVANCED CONSTRUCTION



Connecting Real-world Movement with the Metaverse via Robots and 'Metamobility'
By Hyundai & Boston Dynamics

At CES 2022, Hyundai Motor shares their vision for a new metamobility concept called 'Expanding Human Reach' through Robotics and Metaverse.

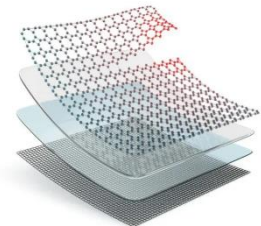
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CES 2022 Showcases the World's First Intelligent Unmanned Building Construction Machinery
By Minnews

During CES 2022, the Hyundai Construction Equipment and Hyundai Doosan Infracore promoted the Concept-X project, which enables companies to achieve safe and efficient future construction site construction based on unmanned and automated technology, and the first product "XiteCloud" to partially commercialize Concept-X technology.

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Living Construction Materials
By University of Minnesota

According to the researcher, this novel engineered living materials would revolutionize construction and maintenance, with wide-reaching economic and environmental implications and potential for biomedical applications.

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| GREEN BUILDING TECHNOLOGY



Using User-Centric Technology Innovation to Harness Sustainability By Blue & Green Tomorrow

The author discusses how software optimization is important in green computing since it allows for optimal energy use and waste reduction.

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Technology Breakthroughs 2022: The Dangers of Centralized Science By GIS

The author identifies some significant roadblocks to the green transition.

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The Road to Net Zero for Intensive Energy Users By Eco-Business

According to Black & Veatch, the most significant and productive first step any organization can do is to design a decarbonisation roadmap.

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| DIGITALISATION



What Is the Metaverse and How Will It Affect the Construction Industry? by The Wild

The author will explain how the Architecture, Engineering and Construction industries can benefit from the metaverse and avoid being left behind.

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AI is Driving Innovation in 'Smart' Tech by Venture Beat

A summary of AI strategies presented at the Future of Work Summit on 12 Jan 2022.

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10 Issues that could Affect Construction Supply Chains in 2022 by New Civil Engineer

CHAS, which provides customers and contractors with risk mitigation, compliance, and supply chain management services, has identified ten reasons that it believes would slow productivity in 2022.

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| YouTube Videos / Podcast



Hyundai's Big Robot Plans

Hyundai recently acquired Boston Dynamics, the maker of the creepily realistic Atlas and Spot robots, and their CES 2022 speech focused on robotics and automation.

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The World Ahead 2022

The Economist is back with its annual look at the top stories of the year ahead.

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Network Trends for the 6G Era

Ericsson's Chief Technology Officer, Erik Ekudden, will be sharing on network trends that are shaping the future and heralding the start of the 6G era.

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| WEBINARS, WORKSHOPS

18 Jan 2022
1pm to 3pm

Robot for Construction 4.0 Webinar - Organised by NTU and SimTech, Catalysed by National Robotics Programme & BCA

Register Here

Topics:

1. Towards Digital Industry: Information Tracking and Intelligent Scheduling
2. BIM-Based Smart Tower Crane with Auto levelling Lifting Frame
3. PPVC Connectors – importance of remote and real-time structural health monitoring
4. Mobileman – a construction agile goods delivery robot
5. Automated wall polishing/grinding: is it worth it?
6. Robot-assisted progress monitoring of construction process



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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

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