

Construction: Top Five Trends for 2019 and Beyond

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Abstracts

Construction: Top Five Trends for 2019 and Beyond

SUMMARY

The construction industry is experiencing change. Prefabrication, new technology, robotics, green buildings and consolidation are trends leading companies must stay ahead of in the near future to be prosperous.

Having been accused of being reticent to change, construction is now ripe for development. Leading companies will increasingly use technology to improve the efficiency of operations, enabling them to create more with the same resources.

Construction firms will also have to adapt to changing government policies which are geared towards sustainability. Trends are changing the shape of the industry and companies must adapt to keep up.

KEY HIGHLIGHTS

The advantages of modular construction have been known about for a long time. Now the business case for widespread use of the building method is nearing the point at which prefabricated buildings have a bright future.

Printing concrete on building sites is not a new idea, but it is one that is now moving towards becoming a commercial reality, potentially transforming modern day construction sites.

Margins for construction firms are experiencing financial trouble because of price escalation for essential materials, exerting pressure on construction

companies to find better means of controlling costs and making savings where possible

SCOPE

Examines changes in modular construction

Assesses the future of 3D printing

Looks at the impact of rising costs

Looks at the future of Building Information Modelling

Assesses environmental challenges in the industry

REASONS TO BUY

Will modular housing be a commercial success?

Can 3D printing be a viable construction technique?

What is the impact of rising costs?

What will the effect of BIM be on construction?

How will the industry react to environmental challenges?

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Catalyst

Summary

Modular construction is benefiting from need for cost-effective buildings

Business case for expanding use of modular construction is driving interest

Japan shows how to make prefabricated housing work - leading players must take note

On-site factory construction could be next step in modular building efficiency

3D printing is entering new development stage, changing construction forever

3D printing concrete represents glimpse into rapidly approaching future of construction

Capacity to print windows signals movement of manufacturing on-site

NASA competition will help push forward innovation in 3D printing

Developments in 3D printing enable limits on scale to be lifted, opening opportunities in architecture

Rising cost of construction is squeezing margins across industry

Squeezed margins are increasingly becoming a feature of construction companies

Tariffs will make construction more expensive, potentially creating a long-term trend for price hikes

Short-term material shortages are compounded by continuing skills gap

Building Information Modelling is changing how buildings are planned

Government regulations make BIM essential practice for construction companies

Importance of BIM is growing across construction industry, but some areas are slow in adopting

Despite possessing a fast growing construction industry, India is failing to adopt BIM

Construction is adapting to environmental challenges

New material technology is drawing closer to commercial relevancy

Next generation materials will transform concrete production by introducing cutting-edge technology

Affordable green homes for large populations are becoming a reality, creating demand for old-fashioned materials

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Construction industry is entering a challenging period of significant change

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