

Bridge Construction Market registering a CAGR of 5.0% and is projected to reach \$1,416.9 billion by 2030

increasing demand for new bridges, particularly in emerging economies, coupled with continued government investments in infrastructure

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Through precision, innovation, and resilience, the construction and manufacturing industries build the frameworks and tools that shape our modern world”

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[Allied Market Research](#) has experienced substantial growth, driven primarily by increasing urbanization and rapid industrialization, particularly in emerging economies. These factors have led to a significant rise in infrastructure investments worldwide. The Asia-Pacific region dominated the market in 2020 due to accelerated development in key countries such as China and India.

According to a recent report published by Allied Market Research, titled "Bridge Construction Market by Type, Material, and Application: Global Opportunity Analysis and

Industry Forecast, 2021–2030," the global bridge construction market was valued at \$857.7 billion in 2020. It is projected to reach \$1,416.9 billion by 2030, registering a compound annual growth rate (CAGR) of 5.0% from 2021 to 2030.

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AMR is a leading market research firm providing comprehensive market analysis and strategic insights.

In 2020, Asia-Pacific generated the highest revenue and is expected to maintain its growth momentum with a high CAGR throughout the forecast period. This trend is closely followed by LAMEA (Latin America, Middle East, and Africa) and North America. The surge in road and highway construction in developing nations such as India, China, and Brazil has significantly contributed to the increasing demand for new bridges. However, economic volatility in Latin America could pose a challenge to the market's growth. Nevertheless, this impact is expected to lessen in the coming years due to rising competition and continuous bridge development initiatives by industry players.

Market Segmentation by Type

The bridge construction market is segmented by type, including beam, truss, arch, suspension, cable-stayed, and other bridges. The "others" category includes specialized structures such as stressed ribbon, pile, covered, and cantilever bridges. Among these, beam bridges held the largest market share in 2020, primarily due to their extensive demand in the transport infrastructure sector.

Market Segmentation by Material

By material, concrete emerged as the dominant segment in 2020, accounting for the largest market share. Additionally, steel bridges play a crucial role in railway networks, facilitating inter-state and international connectivity, which in turn supports economic activities such as trade. Governments worldwide are investing heavily in railway infrastructure to enhance economic productivity, which has subsequently led to a rise in the demand for steel bridges. As a result, railway infrastructure developments are a significant driver of the bridge construction market.

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Market Segmentation by Application

Rapid urbanization, particularly in developing regions, has fueled the need for new bridges to support expanding transportation networks. This trend has created lucrative opportunities for the bridge construction industry, encouraging both public and private sector investments in large-scale infrastructure projects.

Market Segmentation by Application

On the basis of application, the road and highway segment accounted for the highest market share in 2020 and is expected to retain its leading position throughout the forecast period. This growth is attributed to factors such as rising urbanization, increased industrial activities, population growth, and continuous government initiatives to expand and upgrade transport infrastructure.

New bridge construction projects, especially in developing countries such as India, Brazil, Vietnam, and China, were adversely affected by lockdowns and economic slowdowns. The pandemic led to project delays and supply chain disruptions, hindering the completion of [bridge construction activities](#) worldwide. However, with the gradual resumption of construction projects and government stimulus packages, the market is expected to recover in the coming years.

Market Segmentation by Application

To sustain the intense competition in the bridge construction industry, leading companies have adopted strategies such as product development, acquisitions, and business expansion. For instance, in August 2017, Samsung C&T, a South Korea-based construction firm, successfully completed the Mersey Gateway Bridge. This 2.13 km long, six-lane cable-stayed bridge was constructed at an estimated cost of approximately \$450 million. Such strategic initiatives play a vital role in enhancing companies' market presence and boosting overall [industry growth](#).

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The beam bridge segment was the highest revenue contributor in 2020.

The concrete segment dominated the market in 2020.

The road and highway segment led the market in 2020.

Asia-Pacific generated the highest revenue in 2020.

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The key players operating in the bridge construction market include:

ACS Group

AECOM

Balfour Beatty

China Communications Construction Company Limited

China Railway Group Ltd

Fluor Corporation

HOCHTIEF AG

Kiewit Corporation

Samsung C&T

VINCI

These companies have focused on product innovation, business expansion, and strategic partnerships to strengthen their market position. By leveraging new technologies and sustainable construction practices, they aim to enhance efficiency, reduce costs, and improve the durability of bridge structures.

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The bridge construction market is poised for steady growth, driven by rising infrastructure investments, increasing urbanization, and advancements in construction technologies. Governments worldwide continue to prioritize the development of transport networks to support economic growth and improve connectivity. Additionally, initiatives focused on sustainable construction methods and smart infrastructure are expected to shape the future of the bridge construction industry.

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