GEOBIM MARKET IN AEC INDUSTRY

Technology Trends, Value Propositions, Market Size, Readiness Index and Maturity Model

GEOBIM MARKET IN AEC INDUSTRY

The cumulative global AEC industry is valued at US$ 11.16 trillion in 2019 and is projected to reach US$ XX.XX by 2023. During this period, the global geospatial market is projected to reach approximately US$ XX. XX by 2023. The growth in the global geospatial market is expected to be highest in the Asia-Pacific region owing to new construction and the increasing awareness and adoption of the new and upcoming technologies like artificial intelligence (AI), automation, Internet of Things (IoT), enabled by strategic technology policies and infrastructure stimulus packages announced by various government bodies. The regional geospatial market size across the six regions – North America, Europe, Asia-Pacific, Latin America, Middle East and Africa and for the sub-sectors Transport, Buildings, and Industrial sector shows that the global geospatial market is highest in buildings in 2019 with US$ 23.49 billion followed by the geospatial market-size of transport and the industrial sub-sectors.
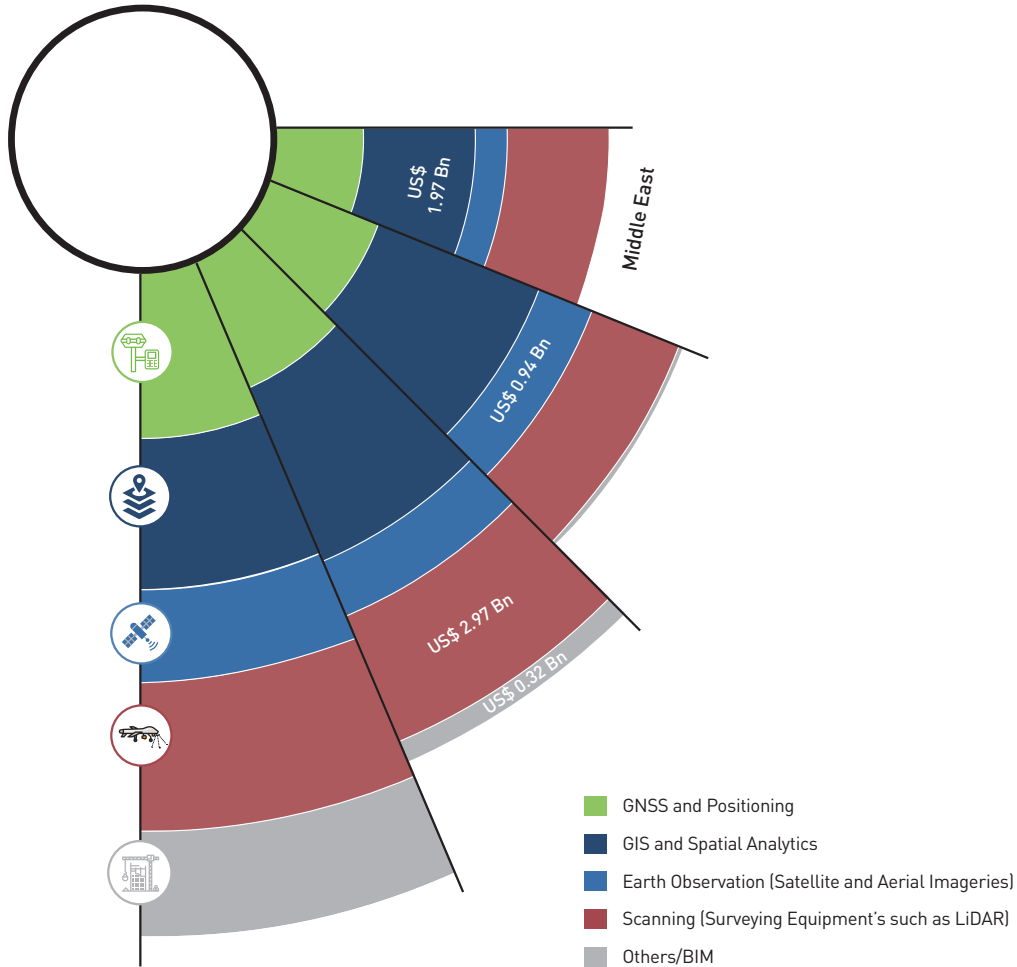
Geospatial Market Size in AEC Industry, by region and by sub-sectors, 2019 (US$ Billion)

Regional MS (in $ bn)

6.12

XX   XX1   XX2   XX3

■ Transport   ■ Buildings   ■ Industrial   ■ Regional
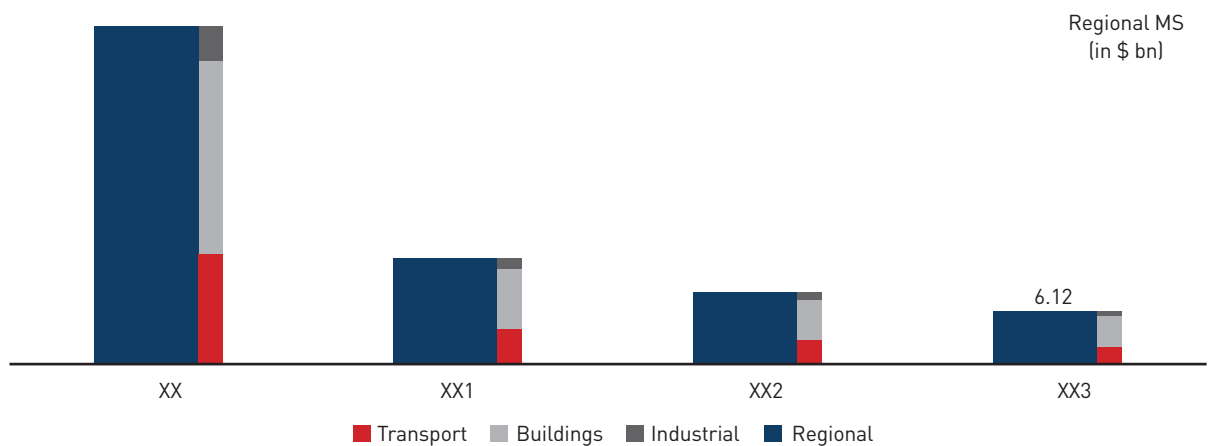
Key Findings:
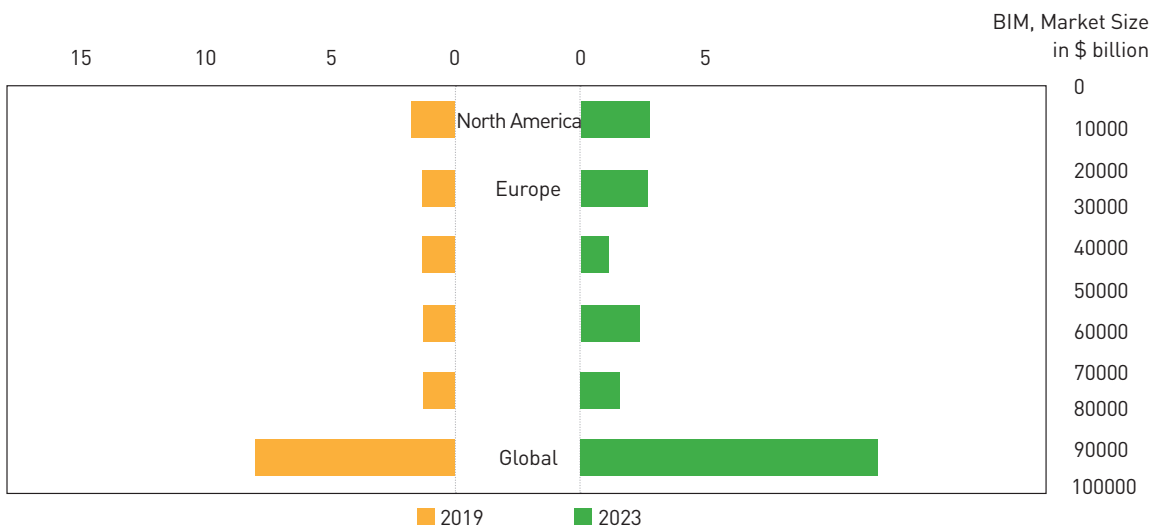
→ The cumulative geospatial industry's value in 2019 is estimated to be US$ 71.28 billion, i.e. approximately, 18.4% of the total global geospatial market valued at US$ 385.3 billion is engaged in the AEC industry.

→ The cumulative market share for geospatial technologies in the industrial sector in 2019 for North America is estimated to be US$ 4.84 billion – the highest in the sector.

→ In 2019, the GNSS and Positioning Systems is estimated to be US$ 17.47 billion with Asia-Pacific having the largest market share.

→ The global market size of Artificial Intelligence (AI) in construction activity is estimated to be US$ 24.05 billion in 2019.

→ The GEOBIM Maturity Curve transcends from being conventional to convergence and finally to a Connected Environment.

→ If 2018 was the year of mergers and acquistions; 2019 was the year of consolidation!

→ Venture Capitalists funding in the ConTech segment shot by 1600 per cent between 2016 and 2018 – with at least US$ 5.6 billion invested upto 2019 Q3 in the sector.

Geospatial Market in AEC Industry, by technology segment, 2019 (US$ Billion)

US$ 1.97 Bn

Middle East

US$ 0.94 Bn

US$ 2.97 Bn

US$ 0.32 Bn

GNSS and Positioning

GIS and Spatial Analytics

Earth Observation (Satellite and Aerial Imageries)

Scanning (Surveying Equipment's such as LiDAR)

Others/BIM

The BIM and Digital Twins market size is estimated to grow at a CAGR of 11.06% during the forecast period. North America leads the regional share of the market with approximately 30% of the global BIM and Digital Twins market – closely followed by Europe with a market share of 25.11%. The increasing market share of the BIM and Digital Twins across these two regions is due to the increasing adoption of BIM across the construction lifecycle project and the policy strategies and initiatives which mandate the use of BIM in public-sector construction projects.

BIM and Digital Twins Market Size in AEC Industry, by region , 2019 & 2023 (US$ Billion)

BIM, Market Size in $ billion

15	10	5	0	0	5			

North America

Europe

Global

0
10000
20000
30000
40000
50000
60000
70000
80000
90000
100000

2019   2023

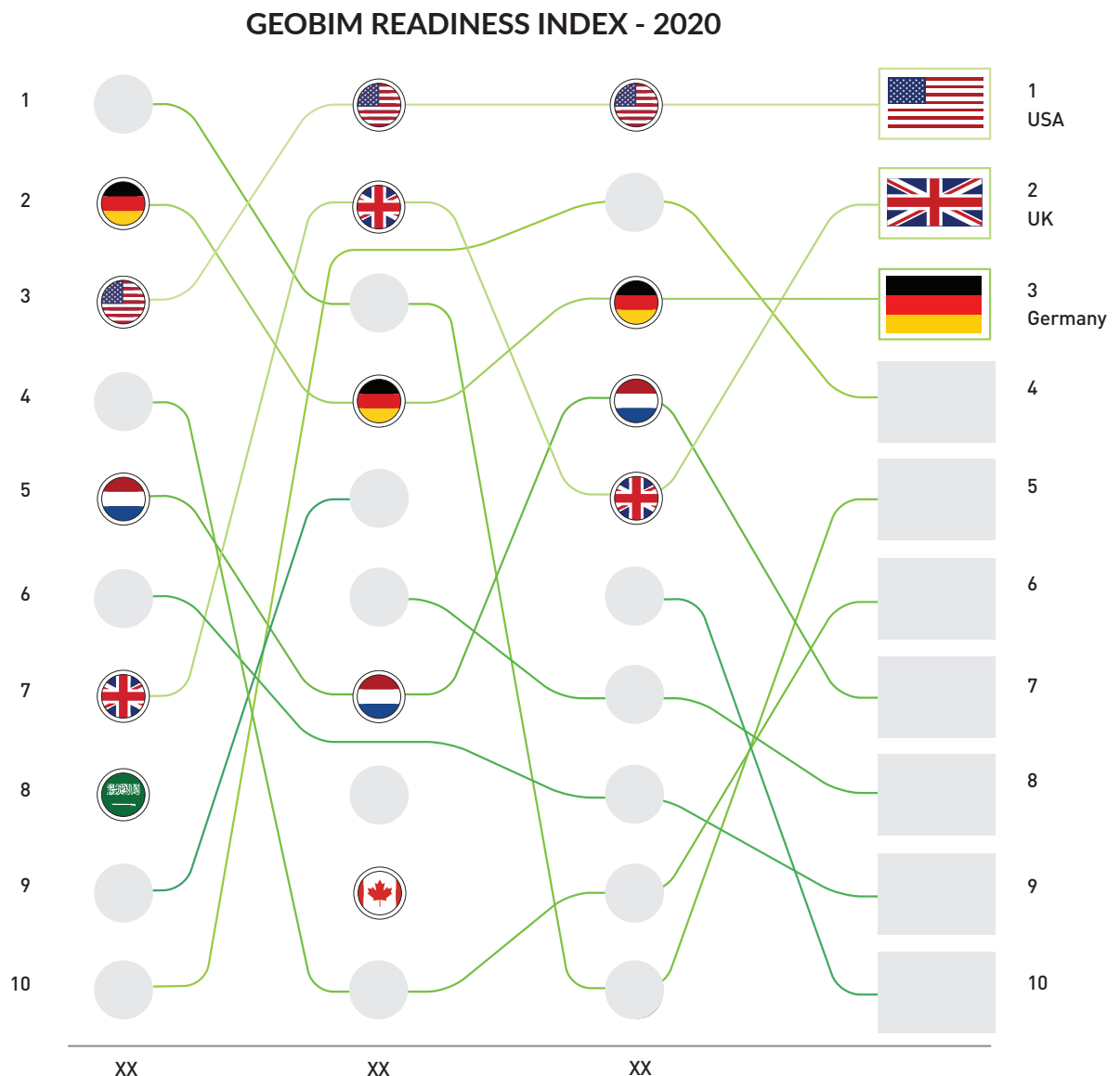## The GEOBIM Readiness Index

The GEOBIM Readiness Index-2020 of 25 countries, is a blue-print for stakeholders (AEC industry, policymakers, and industry) to use and develop efficient integrated geospatial and BIM capabilities to maintain a global competitive advantage for infrastructure development and to build resilient and sustainable cities and communities – contributing to robust national growth and development.

The GEOBIM Readiness Index-2020 is based on the following selected parameters:

→ Policy Strategies and Initiatives
→ User Adoption Level
→ Industry Offering`

The 25 countries evaluated in the GEOBIM Readiness Index-2020 are: Australia, Canada, China, Chile, Egypt, France, Germany, India, Indonesia, Malaysia, Mexico, New Zealand, Norway, Oman, Poland, Qatar, Saudi Arabia, Singapore, South Africa, Spain, Sweden, The Netherlands, UAE, UK, and USA

United States of America, United Kingdom and Germany are the top three countries in the GEOBIM Readiness Index on the three parameters. Do you want to know where does your country stand?

GEOBIM READINESS INDEX - 2020

Scope of the Report:

Report Metric	Details
Market size Calculations	AEC Industry Geospatial Industry and Technologies Emerging Technologies BIM and Digital Twins
Base Year Considered	2019
Forecast Period	2020-2023
Forecast Units	Value (US$)
Segments Covered	Technology, Company Service Offerings, Regions
Geographies Covered	North America, Asia-Pacific, Europe, Middle East, Latin America, and Africa
Sample of the companies covered	Topcon Positioning Systems Inc. (Japan), Trimble (USA), Hexagon (Sweden), Esri (USA), FARO Technologies (Germany), Autodesk (USA), Bentley Systems (UK), AECOM (USA), Pix4D (Switzerland), Dassault Systemes (USA), Fugro (The Netherlands), Riegl (Austria), Jacobs Engineering Group (USA), Cyient (India), Archibus (USA), Nemetschek Group (Europe), Ecodomus (USA), Oracle – Construction and Engineering (USA), among many others.

AEC industry, by sub-sectors, has been segmented as follows:

- Building Infrastructure
- Industrial Infrastructure
- Transport Infrastructure

The geospatial industry market, by technology, has been segmented as follows:

- GIS and Spatial Analytics
- GNSS and Positioning
- Scanning
- Earth Observation

The geospatial industry market, by service offerings, has been segmented as follows:

- Hardware
- Software
- System Integration and Solutions
- Services

Key questions addressed in the report:

→ How has the AEC industry market evolved since 2015-2016 and what is the AEC industry market going to be in 2023?

→ What is the impact of COVID-19 on the AEC industry and what are the economic stimulus by major economies of the world?

→ What is the cumulative global geospatial industry market in 2019 and what is it estimated to be in 2023?

→ Which regions have the maximum geospatial share in the AEC industry and what is their market share in 2023?

→ What is the market for Building Information Modelling (BIM) and Digital Twins in 2019 and what is the market share projected to be in 2023)?

→ How is Artificial Intelligence (AI) shaping the AEC industry and what is the current level of AI adoption in the AEC industry? (based on 300+ interviews)

→ What is the Return on Investment (RoI) being generated by construction companies all over the world by using GEOBIM technologies in their construction process?

→ How has the GEOBIM Industry evolved in a year and how have geospatial companies expanded their BIM and Frontier Tech capabilities via Mergers and Acquistions (M&A) and Partnerships?

→ Where does your country rank in the GEOBIM Readiness Index-2020 and how do 25 countries fare in the three pillars of GEOBIM Readiness?

For more details on the report; and the analysis, please write to

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