



Strategic Growth Opportunities in Global Carbon Fiber Market

PRESENTED BY

Lucintel

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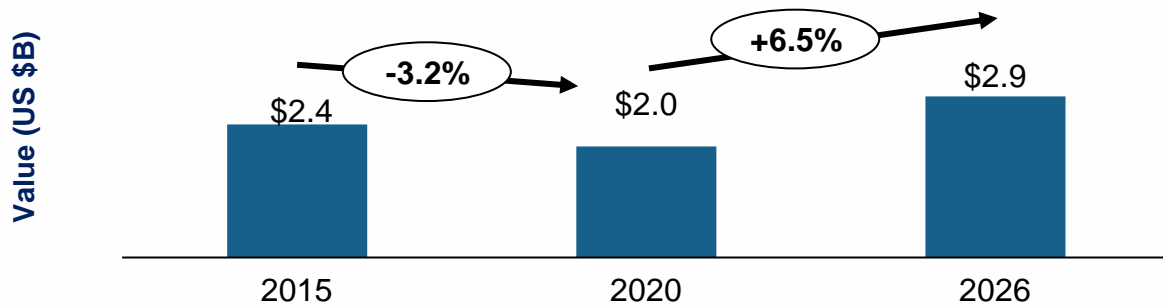
May, 2021

Market Intelligence + Growth Consulting + Opportunity Screening + M&A Due Diligence + Benchmarking = **Your Company's Growth.**

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Global Carbon Fiber Market is Expected to reach \$2.9 Billion by 2026 with CAGR of 6.5%

Trends and Forecast for the Global Carbon Fiber Market (US \$B) (2015-2026)



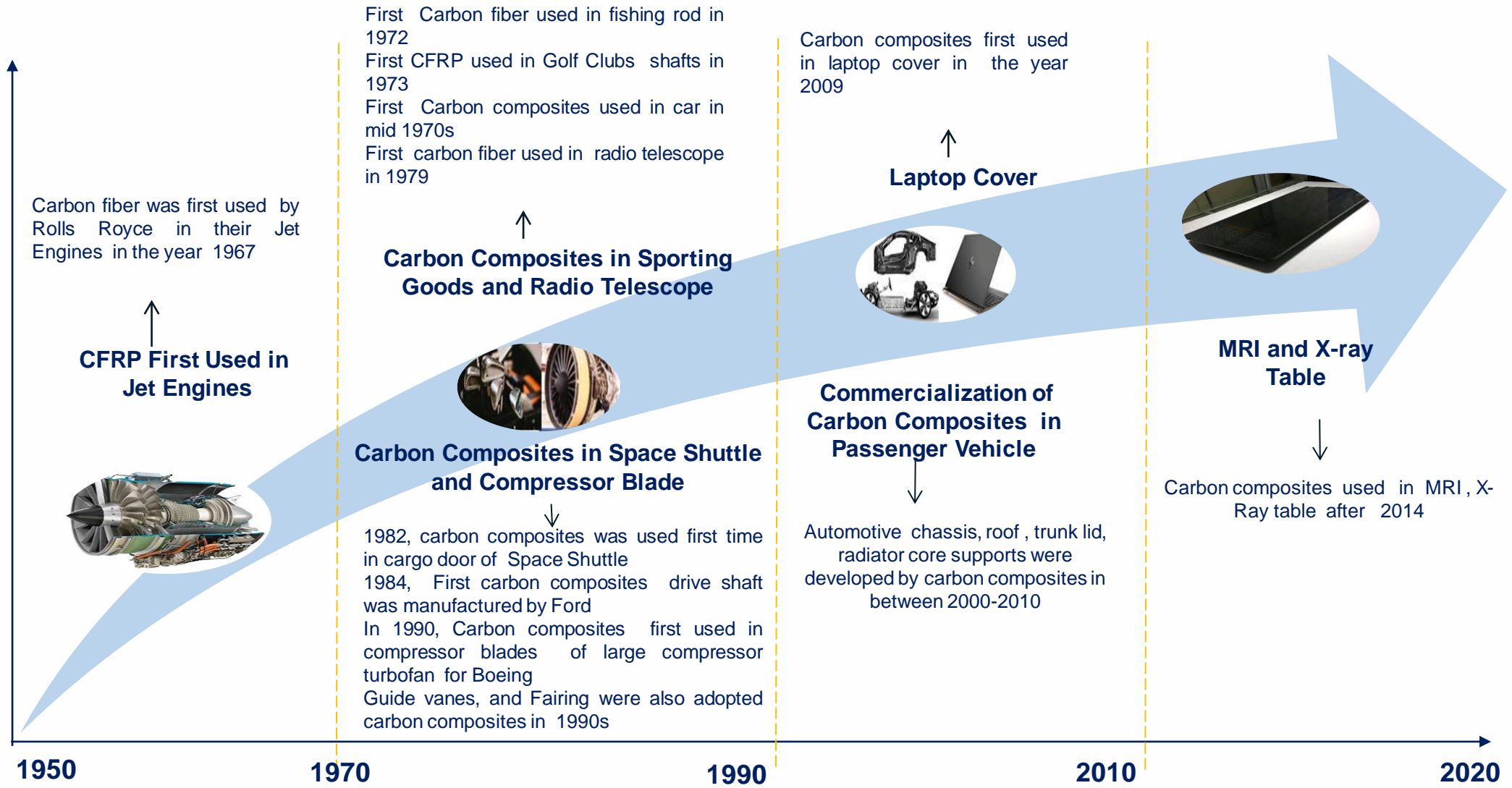
Source: Lucintel

Top Companies
Toray Industries
Teijin Limited
Mitsubishi Rayon
Hexcel Corporation
SGL Carbon Group

Opportunities for Global Carbon Fiber by Various End Use Industries, Precursor Type, Tow Size and Modulus

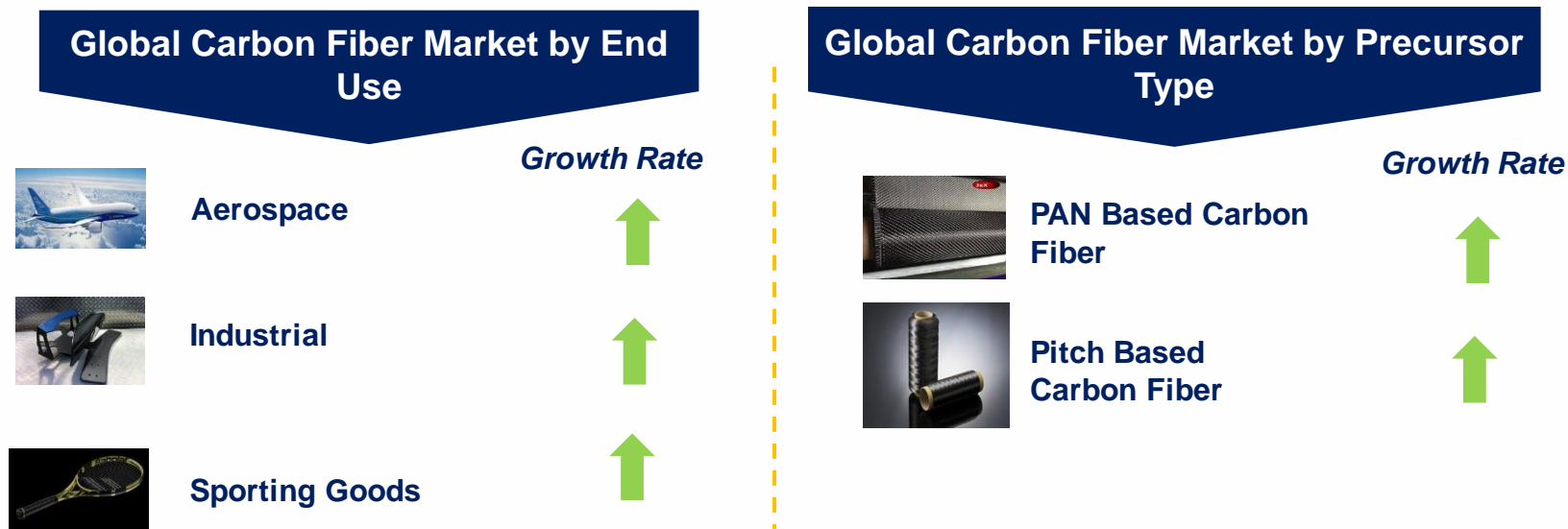
End Use Industry	Precursor Type	Tow Size	Modulus
<ul style="list-style-type: none"> Aerospace Industrial Sporting Goods 	<ul style="list-style-type: none"> PAN Based Carbon Fiber Pitch Based Carbon Fiber 	<ul style="list-style-type: none"> Small Tow ($\leq 24k$) Large Tow ($\leq 24k$) 	<ul style="list-style-type: none"> Standard Modulus Intermediate Modulus High Modulus

Global Carbon Fiber Opportunities are Evolving From Aerospace Applications to Medical Applications



Source: Lucintel

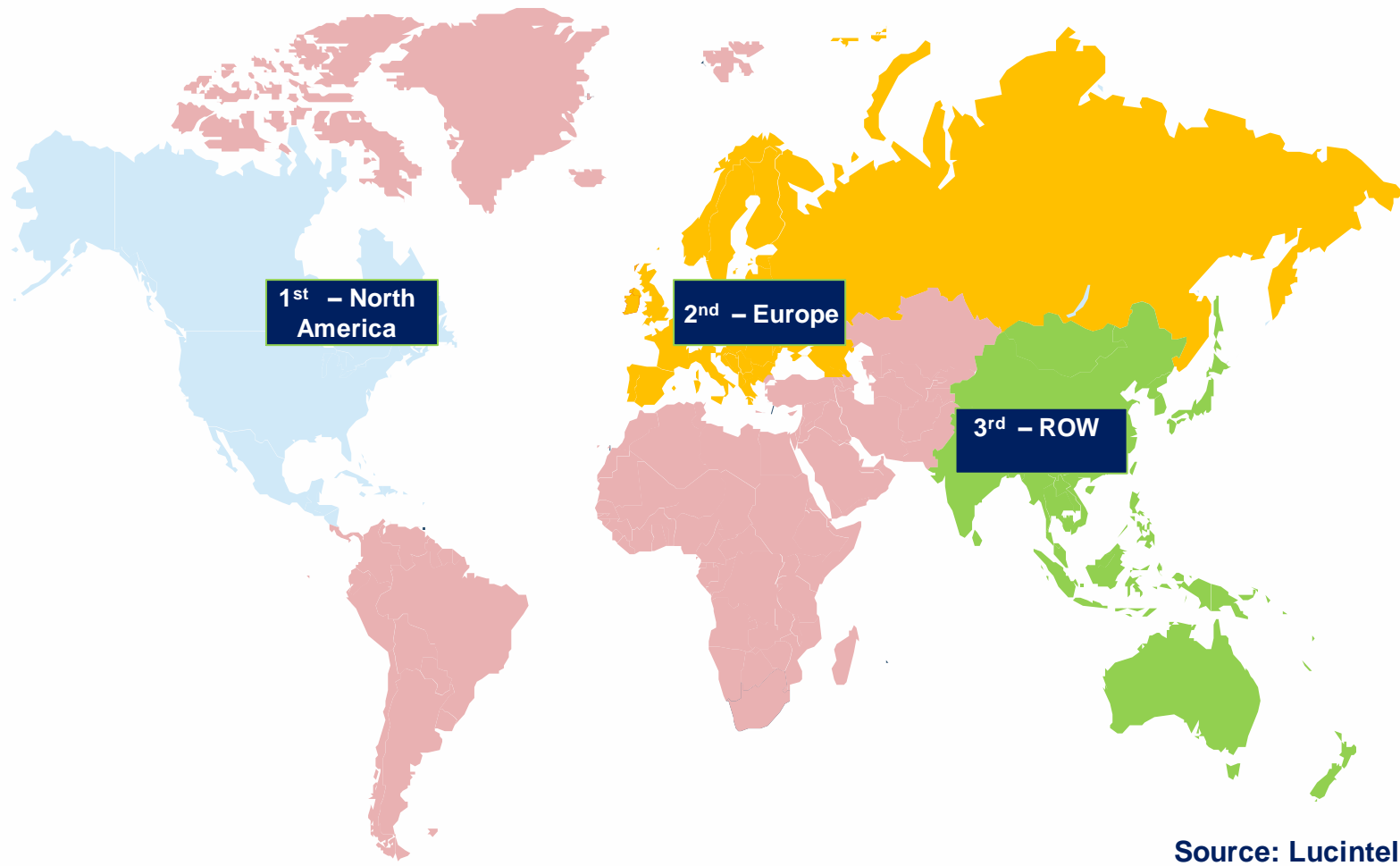
In This Market, Aerospace is the Largest End Use Industry of Global Carbon Fiber, whereas PAN Based Carbon Fiber is largest in Precursor Type



CAGR (2020-26) **Negative** ↓ <0% **Flat** → 0%-3% **Growing** ↑ >3%

Source: Lucintel

In Terms of Regions, North America Provides the Largest Opportunity for Global Carbon Fiber Followed by Europe and ROW



Source: Lucintel

Most of the Carbon Fiber Manufacturers are Backward Integrated in the Carbon Fiber Ecosystem

Precursors Manufacturer



Carbon fiber and Intermediate Material Suppliers (Textile, Prepreg, and Compound)



Part Manufacturers



End Use/ OEMs



Source: Lucintel

Growing demand for lightweight Material and Growth of End Use Industry are Major Drivers of Global Carbon Fiber Market

Key Drivers

Growing demand of lightweight material: Carbon fibers offers lightweight solution with better stiffness and high tensile for which the demand for this is growing

Growth of end use industries and emergence of new application: Growing automotive production and development of advanced aircraft models with higher composite content as well as emergence of new applications are likely to drive the demand for carbon fiber.

Better Mechanical Properties than other materials: Carbon Fiber provides better mechanical properties like low weight, high specific stiffness, thermal stability, corrosion resistance which are better than other competing material

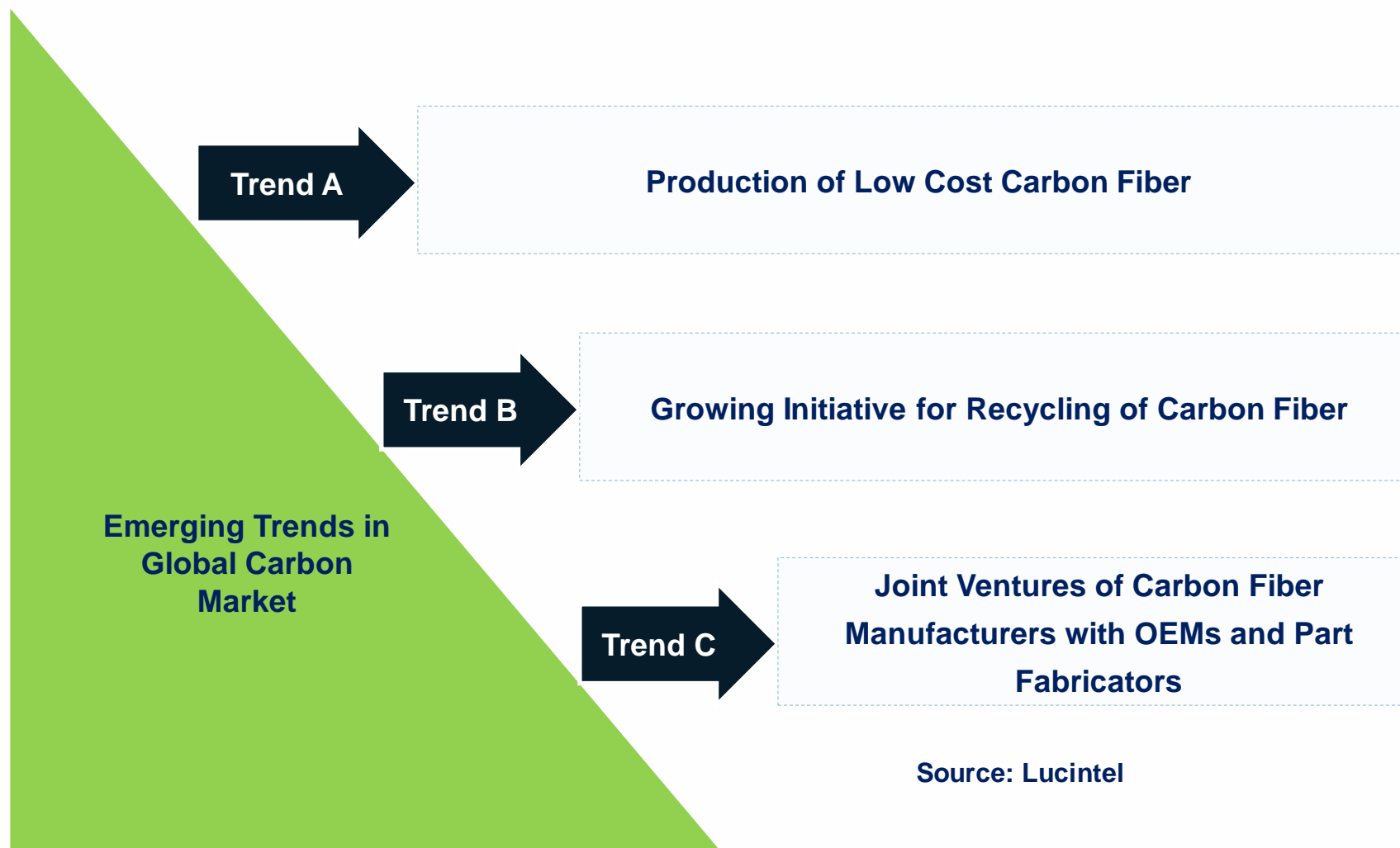
Key Challenges

High Cost: High cost of carbon fiber as compared to substitute materials, such as steel and aluminum, is a big challenge

COVID-19 Impact: Coronavirus (COVID-19) is having a significant impact on businesses and the economy. Industry growth will witness negative impact in the Year 2020 due to manufacturing lockdown, and labour shortage. It is expected that market will recover from the year 2021.

Source: Lucintel

Production of Low Cost and Growing Initiative for Recycling of Carbon Fiber are some of Emerging Trends in the Global Carbon Fiber Market



Developing Capabilities in Recycling Carbon Fiber and Low Cost carbon Fiber manufacturing Provide Strategic Growth Paths

Strategic Considerations in Global Composites Market

Develop Capabilities

- Players of global carbon fiber market can focus to develop an effective process and technology to avoid high degradation of carbon mechanical properties during reclamation
- Research and development activities to develop low cost carbon fiber without losing property.

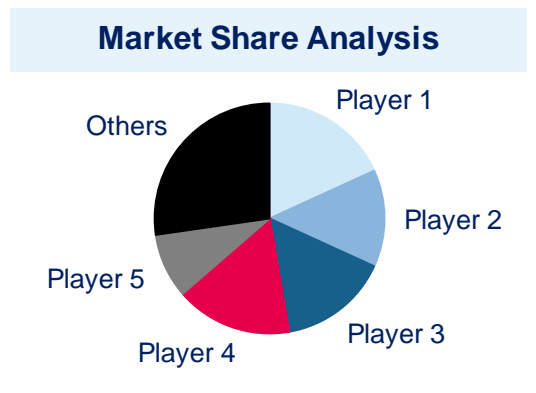
Alliances / In-organic Expansions

- Strategic collaborations / acquisitions to increase geographical presence in growing countries like India, China and Indonesia
- Develop alliances to penetrate in new applications

Source: Lucintel

These Insights are Based on Below Market Report from Lucintel. It can help you Identify New Opportunities by Various Segments and Regions

[Click for detail: https://www.lucintel.com/carbon-fiber-market.aspx](https://www.lucintel.com/carbon-fiber-market.aspx)



- ### Other Coverage in Report
- *New Product Development*
 - *Company Expansion*
 - *Merger Acquisitions & JV*
 - *Company Profiling*

Note: These insights are based on recently launched Lucintel's Report in the Global Carbon Fiber Market, which has 350+ Page and over 150+ charts and tables. Lucintel also offers 10% free customization on above report based on your needs.

Lucintel has an Extensive Toolkit to Address Strategic Questions



Key Questions

- Is market space / opportunity of current product offerings sufficiently robust?
- Market is focus for many: how can my company profitably differentiate?
- Based on our core skills, where should we focus?
- Should we build or buy? Is build even an option?
- What game changer actions exist and/or is a more incremental approach best?
- What is the order sequence of market entry segments / products?

Lucintel - At a Glance

- Premier management consulting and market research firm. Founded in 1998.
- Deep global insights into major industries. Team of over 120 analysts / consultants across globe
- Management comprised of PhDs, MBAs, and subject matter experts. Head quarter in Dallas, USA.

Conducted 500+ consulting projects across industries for 3M, Audi, Dupont, Carlyle, GE, etc.

Consulting Services



Why Lucintel

Trusted insights: Reliable insights. Widely cited in Wall Street Journal, Financial Times, Forbes, etc.

Clients we serve: Over 1000 clients from 70 countries – Fortune 500 companies

Strategic advice: Over 20 years of proven global strategic management consulting experience

Industries Served



Contact Us



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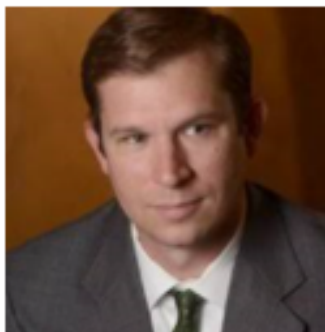
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