

# The Graphene and 2D Materials Global Opportunity Report

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## Abstracts

The Graphene and 2D Materials Global Opportunity Report is a comprehensive analysis of the market and commercial opportunities for these remarkable materials. A growing number of products are integrating graphene and 2-D materials across a range of markets. Two-dimensional (2D) materials are currently one of the most active areas of advanced materials research, and offer a huge opportunity for both fundamental studies and practical applications, including superfast, low-power, flexible and wearable electronics, sensors, photonics and electrochemical energy storage devices that will have an immense impact on our society.

Graphene is a ground-breaking 2D material that possesses extraordinary electrical and mechanical properties that promise a new generation of innovative devices. New methods of scalable synthesis of high-quality graphene, clean delamination transfer and device integration have resulted in the commercialization of state-of-the-art electronics devices such as graphene touchscreens in smartphones and flexible RF devices on plastics. The market for graphene continues to expand, with new product launches, multi-million dollar funding for companies and start-ups and new government initiatives worldwide.

Beyond graphene, emerging elementary 2D materials such as transition metal dichalcogenides, group V systems including phosphorene, and related isoelectronic structures will potentially allow for flexible electronics and field-effect transistors that exhibit ambipolar transport behaviour with either a direct band-gap or greater gate modulation.

Report contents include:

Global production capacities

Current products.

Stage of commercialization for graphene applications by company.

Market drivers, trends and challenges, by target markets.

In-depth market assessment of opportunities for graphene including potential revenues, growth rates, pricing, most likely applications and market challenges.

In-depth company profiles, include products, capacities, and commercial activities.

Predictions for key growth areas and opportunities.

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