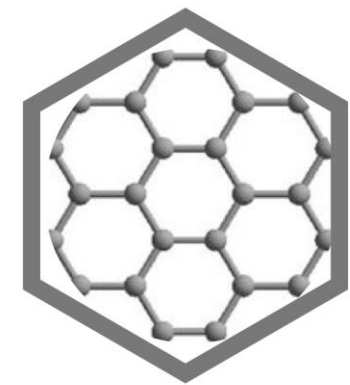


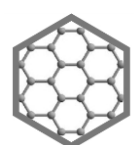
Advanced Materials Value Chain

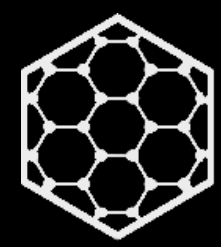


**The
Graphene
Council**



*Terrance Barkan CAE
Executive Director
The Graphene Council*



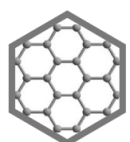


About The Graphene Council

- ❖ Founded in 2013 as a global Trade and Professional body.
- ❖ The largest community in the world for graphene researchers, developers, producers and other stakeholders.
- ❖ Formal members of the ISO/ANSI/IEC Graphene Standards development working groups.
- ❖ Deliver news on graphene research, commercial developments and patent filings world-wide, and craft original industry reports and intelligence.
- ❖ We connect more than 30k materials scientists in academia and industry globally and reach hundreds of thousands of engineers and industry specialists through strategic partnerships.

www.TheGrapheneCouncil.org

The screenshot shows the homepage of The Graphene Council website. At the top is the logo and navigation menu with links: About, Join, Services, News, Events, Directory, Standards, and Resources. The main banner features a large 'Join Today!' text over a background image of a person in a lab coat and mask. Below the banner are three columns: 'About' (describing the council as a leading source for graphene research), 'Resources' (highlighting 'The Graphene Report' and listing topics like Production Methods, Characterization, etc.), and 'Latest News' (listing recent articles with dates like 3/9/2020 and 3/7/2020). On the right side, there is a 'Sign In' section with fields for Username and Password, and a 'Calendar' section showing upcoming events like 'World Advanced Materials Summit & Expo'.

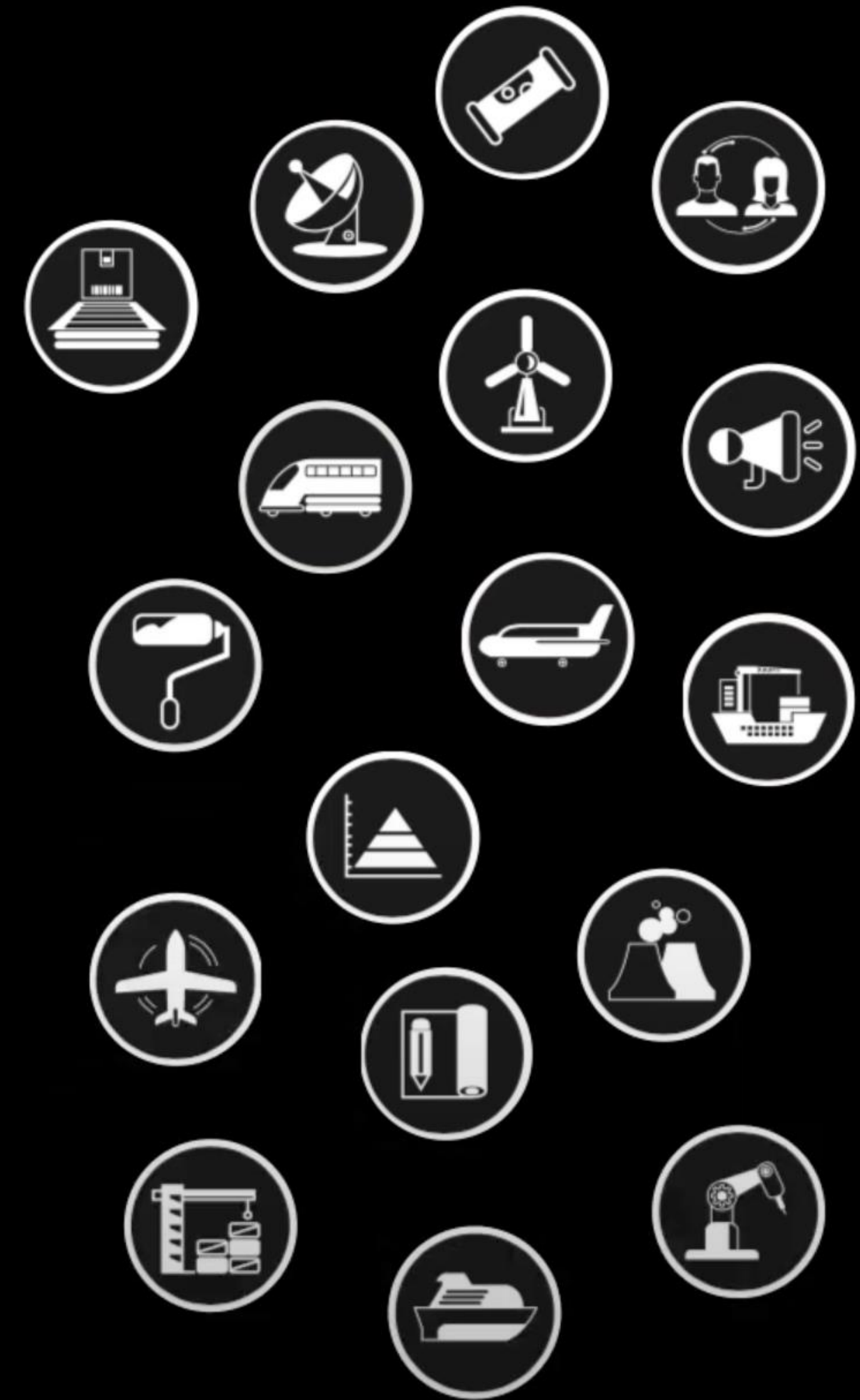


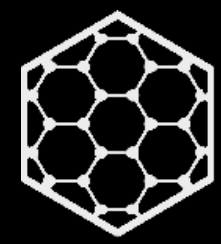


Graphene Commercial Applications

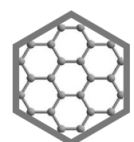
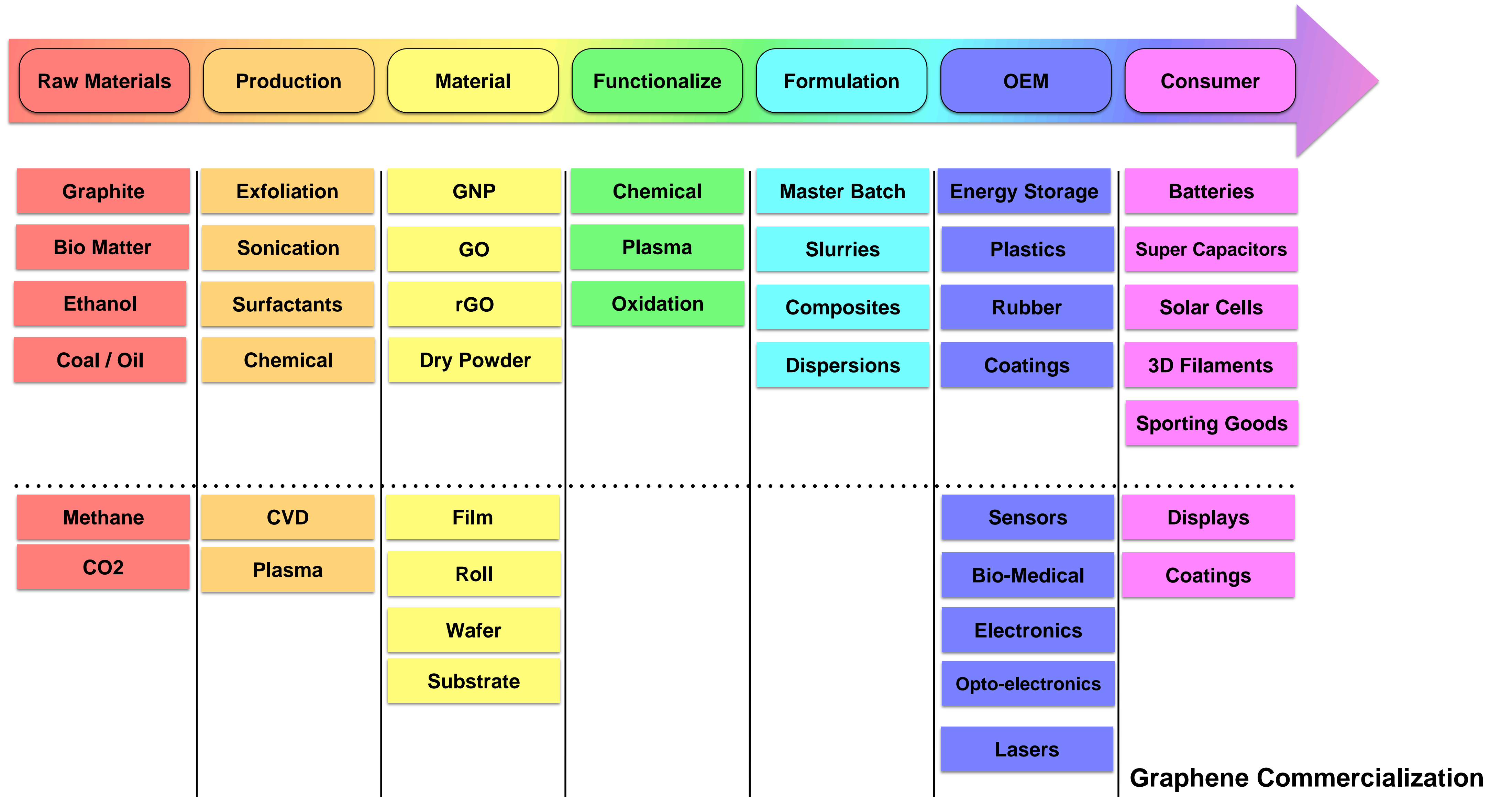
Graphene can be applied to more than 45 industrial sectors and applications.

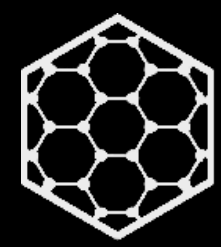
- Additive Manufacture
- Aerospace
- Automotive
- Barrier Properties
- Coatings
- Composites
- Concrete & Cement
- Conductive Ink
- Corrosion
- Electrochemical
- Electronics
- Energy Generation
- Energy Storage
- Hall Effect Sensors
- Lubricants
- Magnets
- Medical Applications
- NEMS
- Optical Modulators
- Optoelectronics
- Photodetectors
- Piezoelectric Devices
- Plasmonics
- Plastics
- Polymers
- Pressure Sensors
- Quantum Dots
- Rubber
- Synthetics
- Semiconductors
- Sensors
- Sound Transducers
- Spintronics
- Structural Materials
- Thermal Management
- Touch Screens
- Transistors
- Transparent Electrodes
- Water Filtration
- Waterproof Coatings





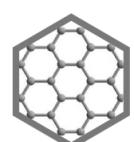
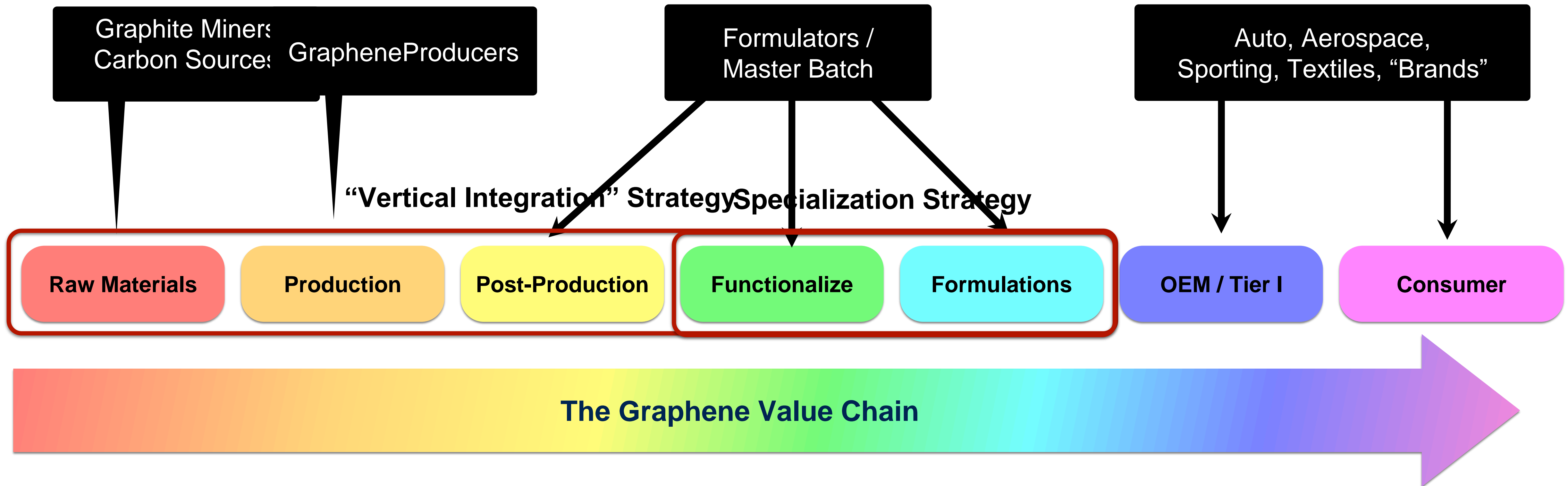
Graphene Vale Chain

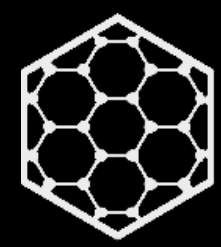




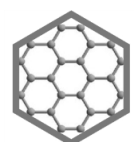
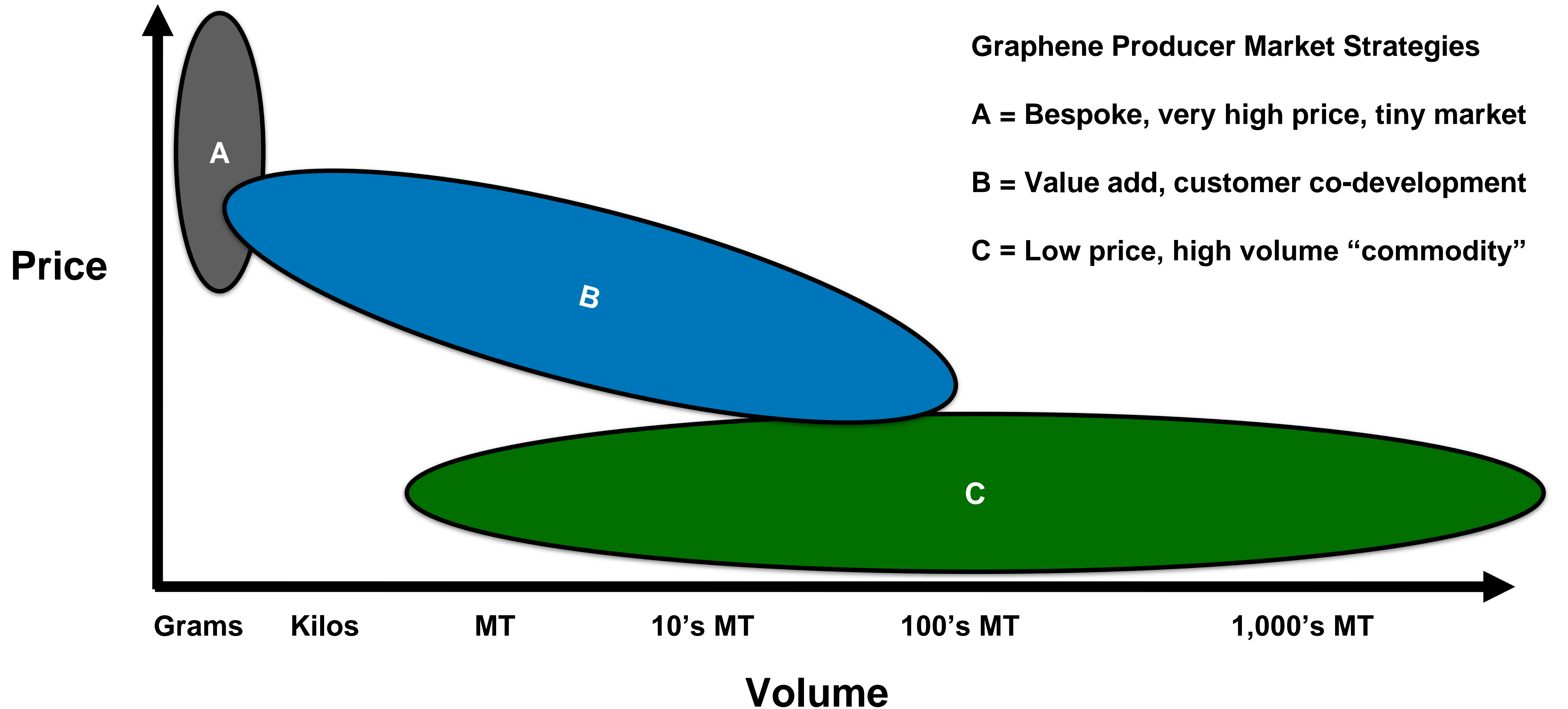
Graphene Vale Chain

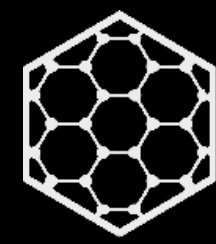
- **Value Chain and Market Segmentation** - Each company in the graphene sector occupies one or more of the value chain segments. Some employ a vertical integration strategy which includes several segments of the value chain designed to capture more of the available value or profit.



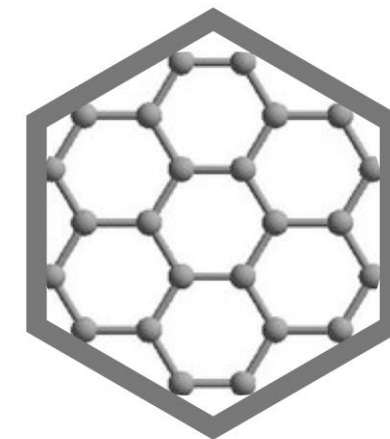


Graphene Commercialization Trends





The Graphene Council



**The
Graphene
Council**

Terrance Barkan

+1 202 294 5564

tbarkan@thegraphenecouncil.org

