

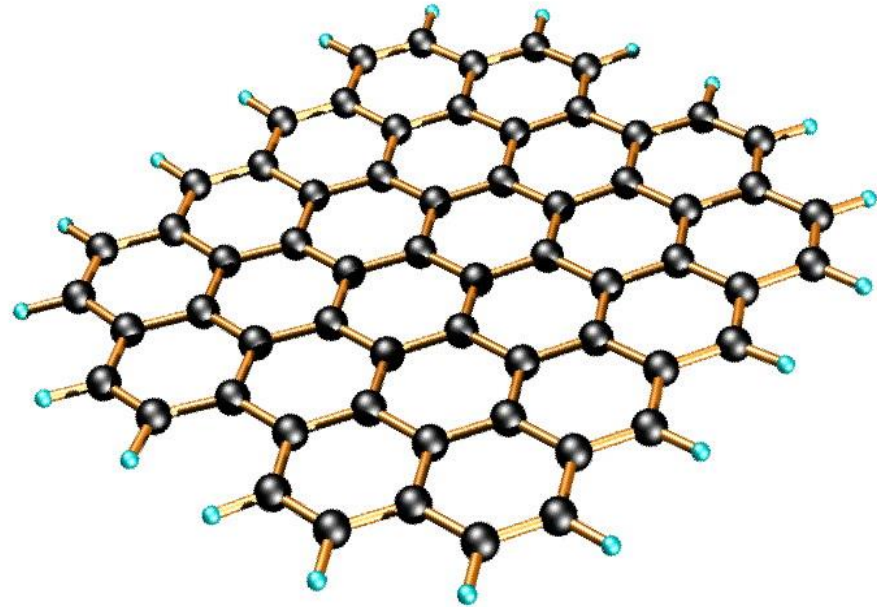
Graphene in Packaging

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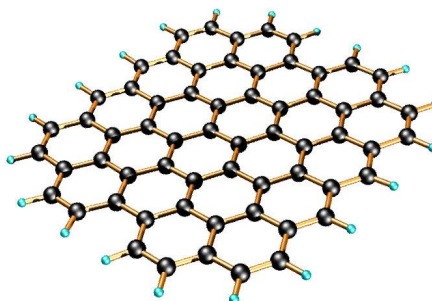
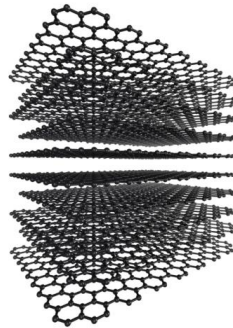
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Graphene

- Strong
- Thin
Large surface area
- Hard
- Conductive
Electrical
Thermal
- Barrier properties
- Bendable
- Anti-
fungi
bacterial
odour



Top-down



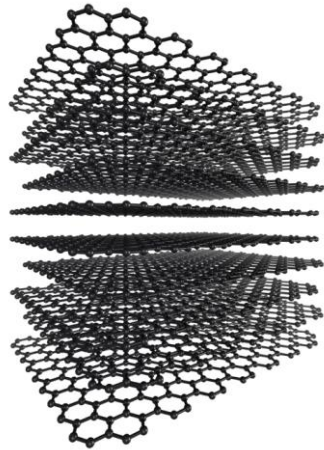
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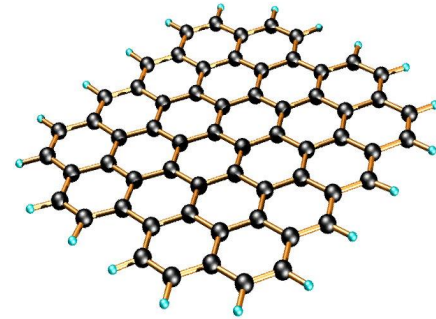
Bottom-up

Core

Graphite



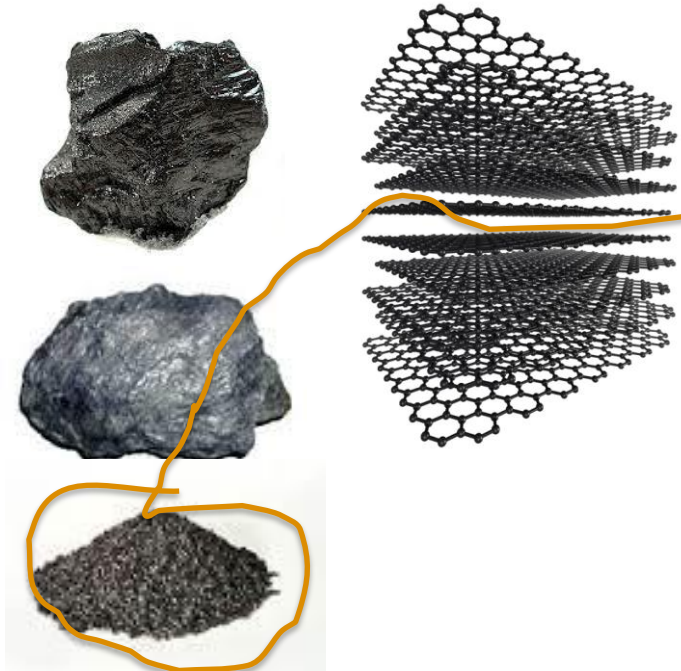
Graphene



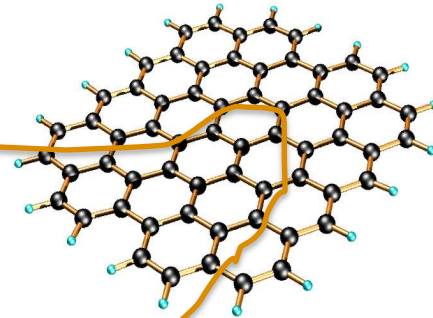
Business idea

?

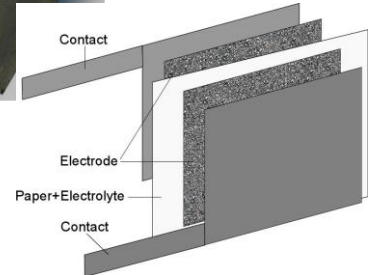
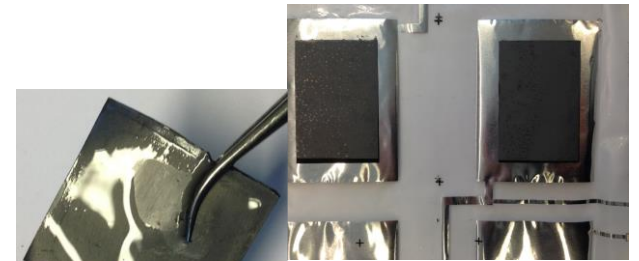
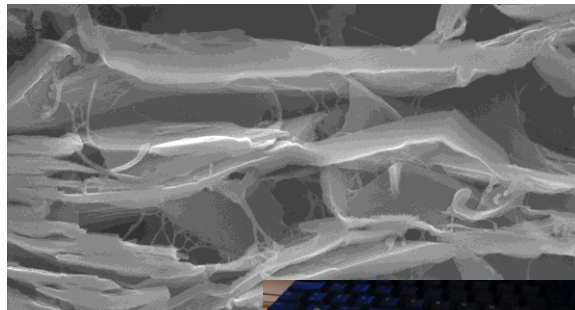
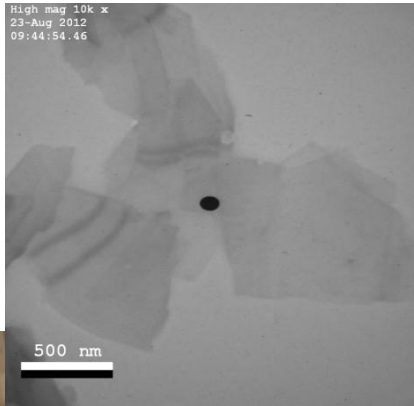
Graphite



Graphene



Examples



Why Graphene in Packaging

- Conductive inks: Flexo, screen....
- Energy storage: Printed supercapacitors
- Barrier properties
- Sensor
- Conductive coatings
- Anti fungal, anti bacterial and anti odour
- Composites: Graphene and nanocellulose

All these need to be put into systems!

Goal

Be part of an innovation!

The term innovation can be defined as something original and more effective and, as a consequence, new, that "breaks into" **the market** or society.

Wikipedia Sept. 2015

Questions?!

The End