## APPLICATION OF NANO MATERIALS IN CARBON NANO TUBES, ETC.

## WHAT AND WHY? • Nanomaterials : objects which have at least one of their external dimensions in nanometer range • It opens new avenues in material properties which macroscopic materials do not share • Dividing matter into smaller pieces increases the ratio of exposed surface area to volume which has dramatic impacts in their usage as catalysts. For ex- cheaper nano-substitutes to platinum and palladium with the same efficiency. • Nanotechnology is helping to considerably improve, even revolutionize, many technology and industry sectors: information technology, energy, environmental science, medicine, homeland security, food safety, and transportation, among many others.

## What are we going to discuss today?

- Application of Carbon Nanotubes in Automobiles
- Biological applications of Nanomaterials
- Pros of nanotechnology in the cement industry
- Advantages and disadvantages of nanoparticles







