

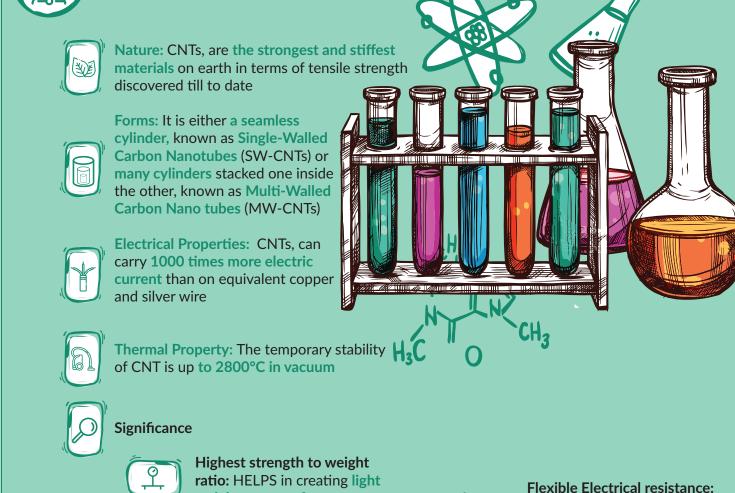
Bottom-Up Approach: (SMALL making BIG) Larger structures are built by linking atom by atom e.g. Nano-Factories. Based on Self Assembly

HELPS in developing sensors

that can detect chemical

vapours

倒

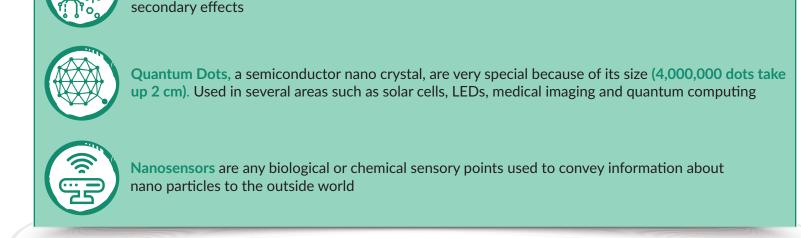


weight spacecrafts

cancer treatment

Easily penetrate membranes

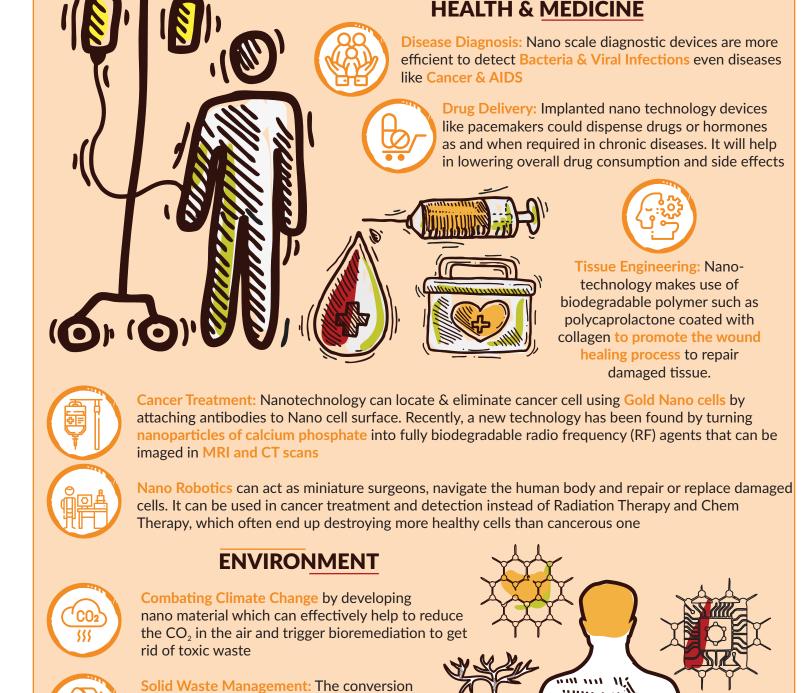
such as cell walls: HELPS in



Nanoparticle is a small object that behaves as a whole unit in terms of its transport and properties,

specifically used in delivering disease-fighting drugs to afflicted body areas, thus minimizing





of organic waste into bio gas and fertilizers can also be quickened through the use of Nano particles

Controlling Pollution: Metal oxide nano catalysts are being developed for the prevention of pollution

WATER TREATMENT AND REMEDIATION

Anti-bacterial Silver Nano-Particles

Construction: Nanomolecular structures to

make asphalt and concrete more robust to

water seepage

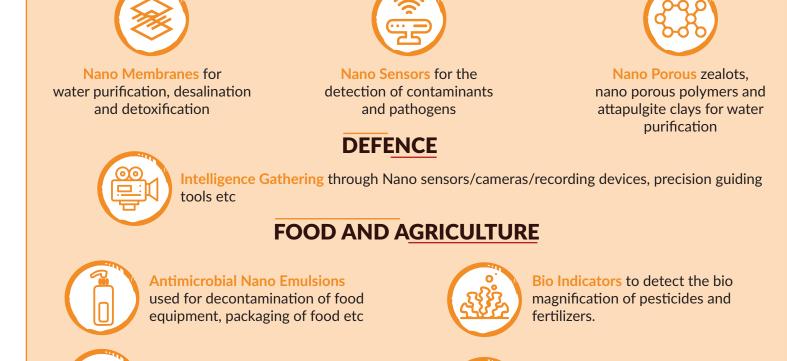
used for increasing the shelf life of

agricultural products

ENERGY

like Iron oxide particles

due to industrial emissions





Bio-conjugated Nano Particles

nutrients and water to enhance

agricultural productivity.

(encapsulation) for slow release of

Household: Bio active Coatings making Self-Cleaning Surfaces,

windows, toilets etc

enzymes & other proteins

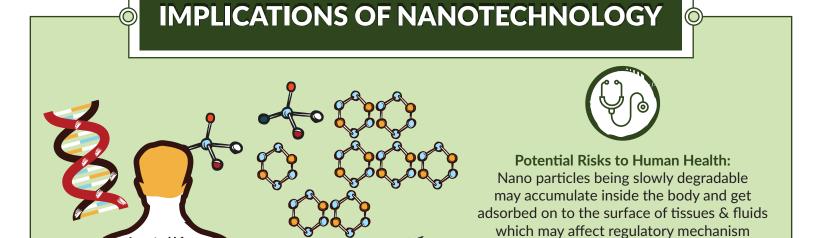
Environmental Issues: Untraceable Destructive Weapons of mass destruction,

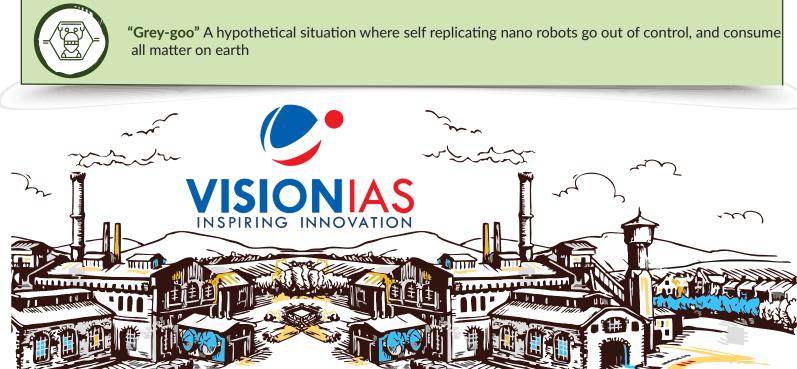
Increase in Global Warming in the long run,

Nano Pollution created by toxic wastes from

nano material manufacturing







Nano Ethics: NT can worsen the division of rich

international relations through Nano Arms Race

& poor by creating Nano divide and affect the

