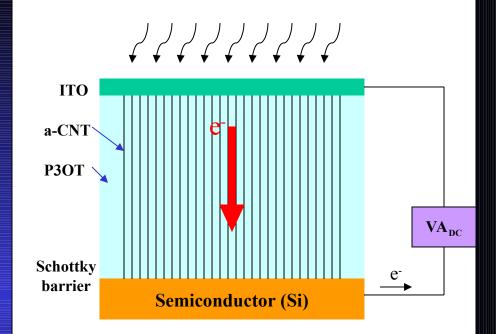
CNT/Polymer Composite Based Photovoltaic Cell

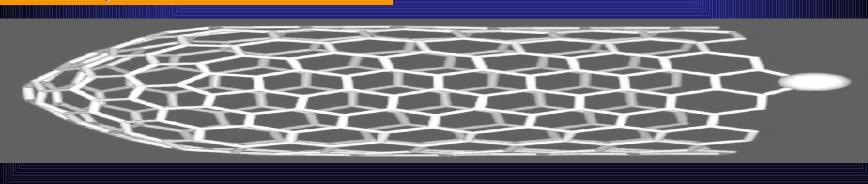
Use poly(3-octylthiophene) (P3OT) as the photo-excited electron donors and nanotubes as the electron acceptors.

Aligned configuration to enhance contact area between polymer and CNT for better charge transfer Operating principle of this device

It provides around 50% Efficiency



Schematic diagram of CNT-based photovoltaic cell





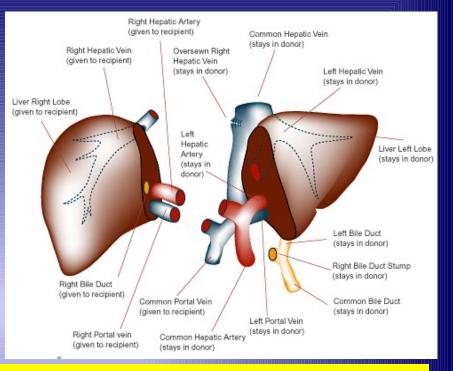
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Liver Transplantation – Case Study

Walking with a British Liver

Early Symptom First Investigation Recurrence in 1999 Alternative Treatment Acute Condition Decision for Liver Transplant Long wait and Treatment in UK



- Address the problem of diagnosing this type of Liver disease in the early stage
- Intensive research to be carried out and find low cost medicines for post operative life long care of liver transplant patients
- India to have a specialized Health centre/Hospital for safe liver transplant

TECHNOLOGY : INTERFACES

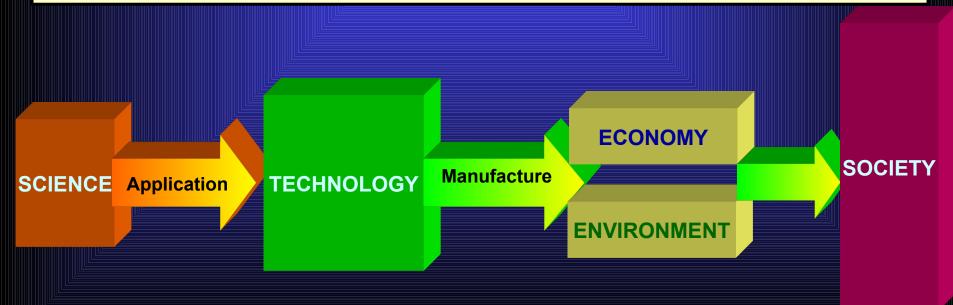
Technology is the most Non-linear tool

Technology can effect the most fundamental changes in the ground rules of economic competitiveness

Science is linked to **Technology** through Applications

Technology is linked to **Economy and Environment** through Manufacture

Economy and Environment link Technology to **Society**





Our National Mission – Challenges

- We are one billion+ people
- 600,000 villages with
 700 millions people
- 260 million are below poverty line
 (36 million are unemployed)
- How to uplift?
 - Habitat
 Infrastructure
 Healthcare
 Education
 Employment
 Market connectivity
 - Quality of Life



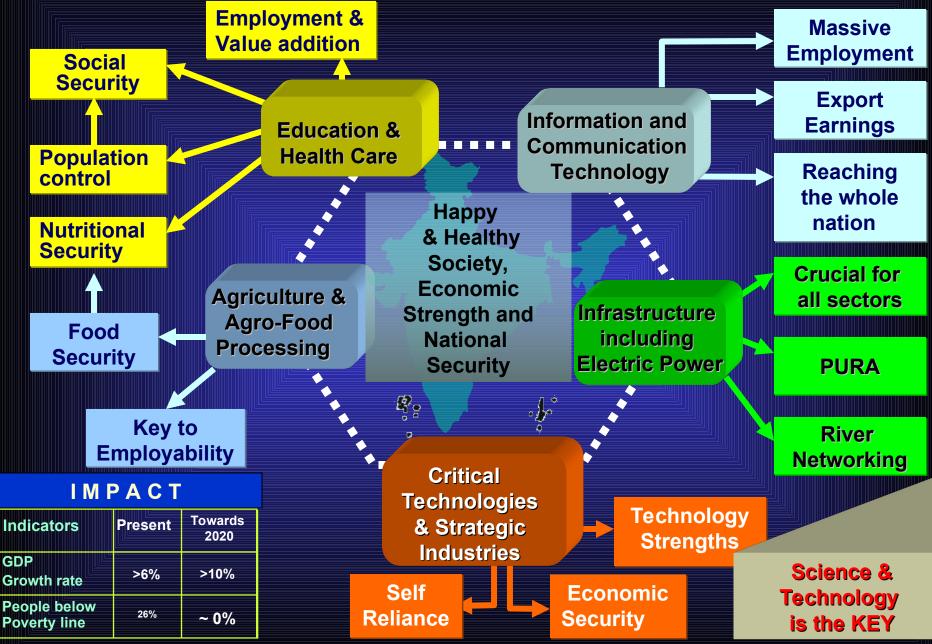


PURA – Providing Urban Amenities in Rural Areas Target : 7000 PURAs

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INTEGRATED ACTIONS FOR DEVELOPED INDIA



ways a second data finally into the

INTEGRATED ACTION FOR DEVELOPMENT

Agricultural & Agro food Processing industries

MISSION OBJECTIVES

Infrastructural facilities (Water &Energy)

"Education

for

All"

Health Care – Nutritional Security Potential for Industrial Growth – Geo Strategic Initiatives

EMPLOYMENT GENERATION

&

RURAL PROSPERITY

CONNECTIVITY IS THE KEY

Population Management (1.1)





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