

Introduction

(1)

This ^{experimental} ^{Social} ^{Contribution} ^{Proposition}

= Greeting

= Very special day 12/12/12

= Doing something special

= Very very special thing - close to

my heart, Congratulations my field

= Google hats ~ 1.3 billion

= UNESCO declaration on Science and the use of Scientific knowledge
World Conference on Science
01/07/1999 46 points

= Science for Knowledge: Knowledge for progress

= Science for Peace

= Science for development

= Science in Society and

Science for Society

= European Commission Report

= Royal Society Report

Science, Engineering, Technology
Interplay

Science as Index

(2)

- Developed Vs. Developing
- Utilization of Science to the Society - Quality of life.
- For example Communication
Cell phone
- = Example for farm products
- Progress of Science → To be shared
- Helped Mankind
- Creates wealth
- Dependence of each and every Country → Prosperity of poorer Countries

Basic Science and Society

(3)

- Why research in basic sciences
- Intellectual property
- CERN, LHC: example of doing modern science: CERN Lab.
- = Gift, man power, Collaborative mode
- = Success Story - Collective wisdom
- = Countries, races, sex, social/cultural background, languages
- = Yuri Milner - Fundamental Physics Prize Foundation \$3M prize to LHC/CMS/ATLAS
- = Stephen Hawking / Asotek Sen

NO experiment

Spin offs

- SC magnets
- WWW, GRID
- Collaborative work
- Medical imaging
- H/L Security
- Industries
- Computing
- Technologies

Science and Agriculture

(4)

- Satellite, Remote Sensing
- Crop management
- Irradiation of yield
- Hybrid Seeds
- Increase production
- LHC revolution
- Green revolution
- Irrigation management (Drip)
- Dams and water projects

Sub-Themes

- Industry
- Natural Resources and Conservation
- Transport and Communities
- Information & Education Tech.
- Community health & Environment
- Mathematical Modelling

(5)

Main' thrust areas

- Medicine
- Medical diagnostics
- Low radiation techniques
- Treatment
- Treatment for major illnesses
 - Cancer, AIDS, diabetes, Cholesterol
- Infant mortality

Driving force
in Health and
Social Care
Health

(6)

Power

- Major need of the Society
- Index of Prosperity
- Alternate sources, techniques
- Cost, efficiency
- Atomic, tidal, wind, Solar
- Indian Scenario.
- Using heat fuel Thorium

Responsible Use of Science (7)

- Development and environment
- Environmental protection
- Kyoto Protocol / Hydr Protocol
- Misutilization of science
- Double edged sword

- Development and safety

- Nucl. plants, radiation hazards
- Accidents
- Spent fuel storage
- Aviation safety

- Science = Progress = Disparity

- Internet (Good and bad)
- Cell phone radiation