

SMART Technologies for Sustainable Development in IORA States

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*In his book "**The Scientific Estate**" published way back in 1965 **Don K Price** stated...*

- ◆ *There is hardly any social problem on which science cannot make some contribution"*
- ◆ *Science is never sufficient to solve a problem completely; it is, however, always necessary.*



The scientific estate

Price, Don K

Note: This is not the actual book cover

Science, Technology and Innovation as an engine for Development

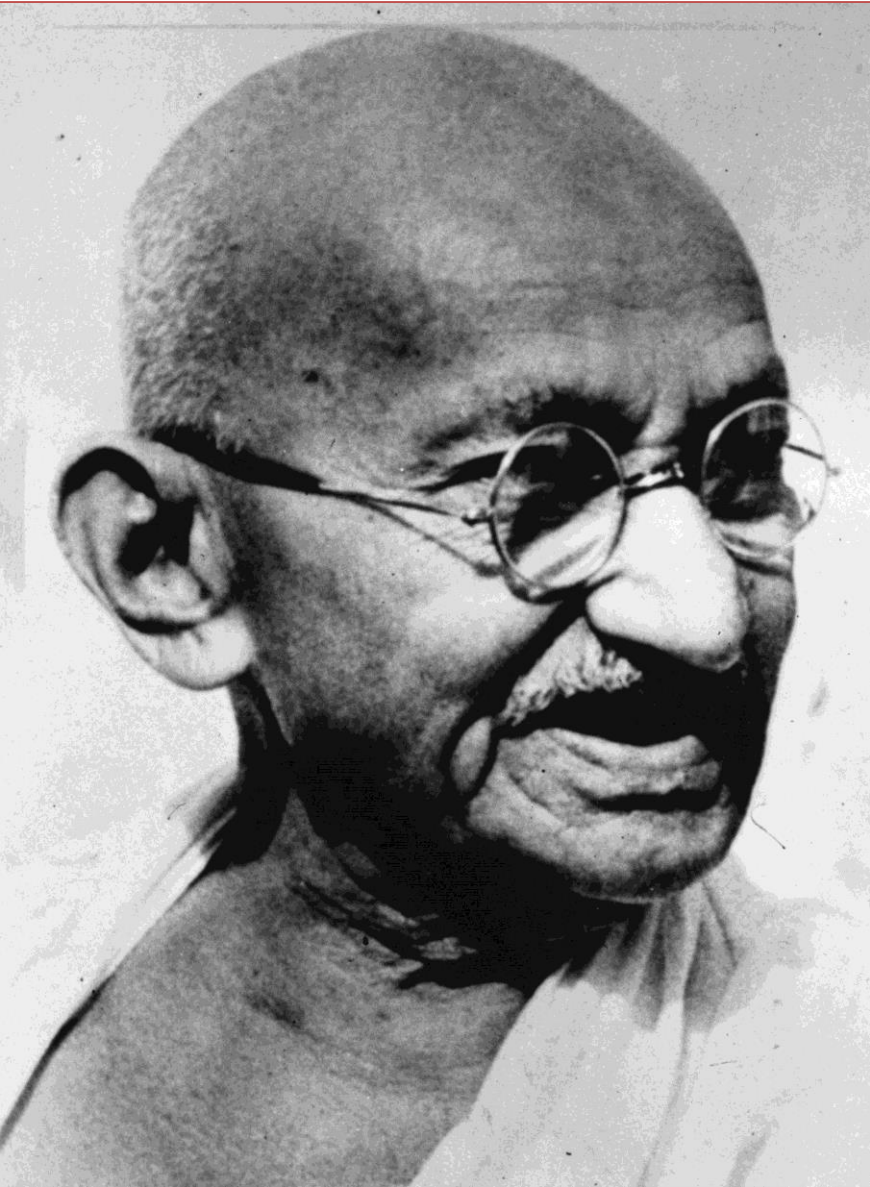
- ◆ Consensus is emerging among policy makers and economists that at least half, if not more, of the economic growth in countries is directly attributable to science and technology.
- ◆ In a globalizing, knowledge driven world with increasing importance of service industries and technological competitiveness, this contribution can only become higher.

Definition of Sustainable Development

- The Brundtland report, 1987, established for the first time a universal definition of Sustainable Development
- *“Development that meets the needs of current generations without compromising the ability of future generations to meet their own needs”*



India's Father of Nation Mahatma Gandhi's Dictum



*The Earth has
enough resources to
meet people's
needs, but will
never have enough
to satisfy people's
Greed"*



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



SUSTAINABLE DEVELOPMENT GOALS

Potential Contribution of STI to SDG Goals

Science, Technology and Innovation sector has great potential to deliver technology products and services to the needs of at least **10 out of 17 SDG Goals**-

- ◆ Agriculture/Food Security (SDG-2)
- ◆ Health care (SDG-3)
- ◆ Education and literacy (SDG-4)
- ◆ Water (SDG-6)
- ◆ Energy (SDG-7)
- ◆ Industry (SDG-9)
- ◆ Habitat (SDG-11)
- ◆ Environment (SDGs 13, 14 and 15)

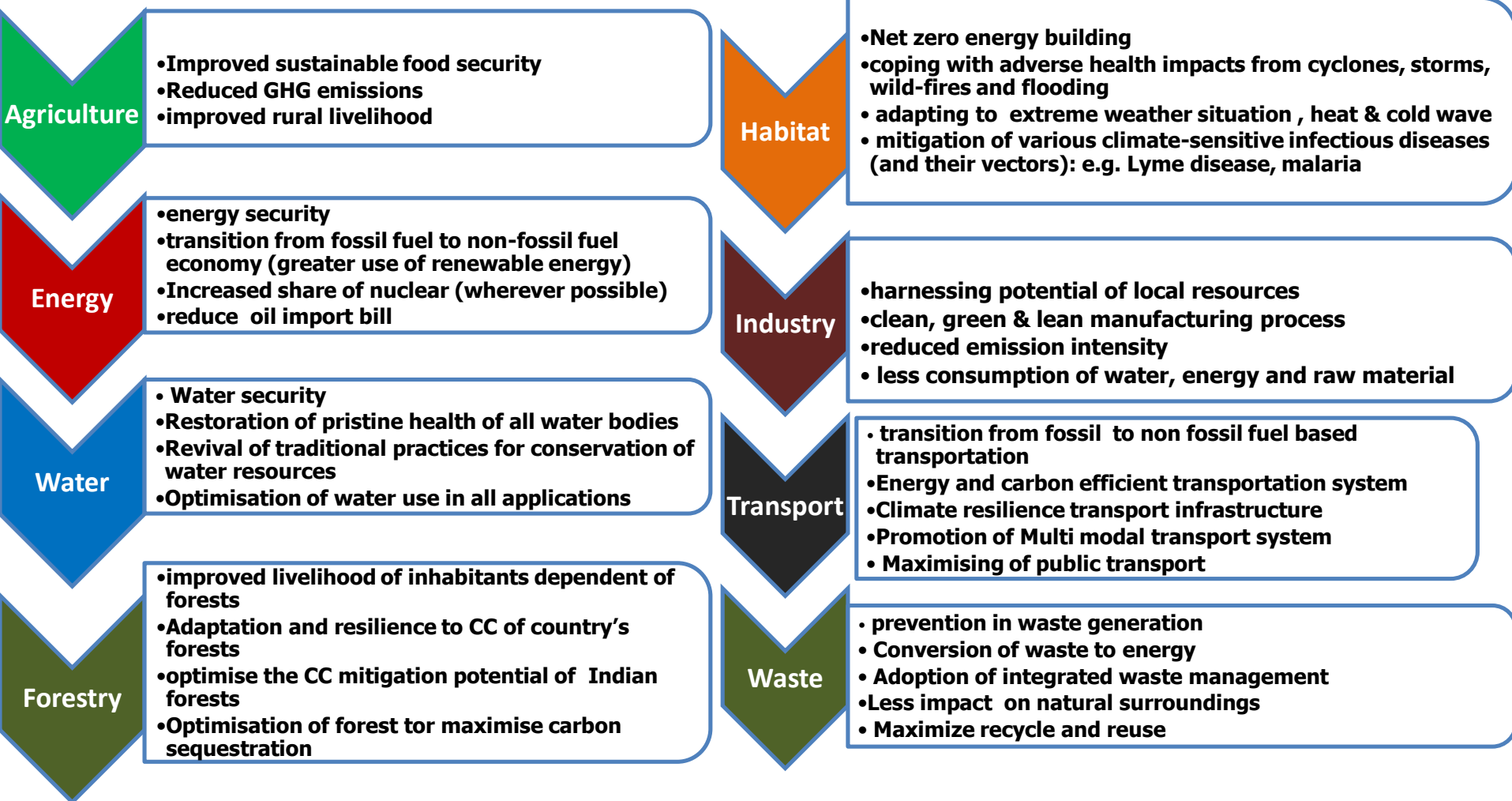
Scope for Application of SMART Technologies in the Context of IORA

- ◆ To **minimise impact of Climate Change** using appropriate adaptation and mitigation technologies
- ◆ To **address Socio-economic development** (poverty reduction, wide range of local job opportunity, etc.)
- ◆ To **achieve Nationally Determined Contribution** (INDC) targets towards commitment to comply with UNFCCC requirement
- ◆ To **meet the Sustainable Development Goals** (SDGs) in medium to long term for judicious use of natural resources
- ◆ To push country natural resources on the path of **low carbon economy**
- ◆ To **harness the potential of local resources** and developing technologies suitable for regional, local and community level

Characteristics of SMART Technologies

- ◆ Contribute to climate change mitigation at National and Regional levels
- ◆ Sustainable in nature and in sync with development agenda of each IORA member country
- ◆ Comprise acceptability by the community, sustainability and poverty reduction
- ◆ Have ability to reduce CO₂
- ◆ Are energy efficient
- ◆ Maximize the use of local resources

Expected Impact of SMART Technologies on Sustainability Sectors in IORA States



Concluding Remarks

- ◆ **Science, Technology and Innovation** is expected to play crucial role in **achieving SDGs goals for 2030**
- ◆ IOD may consider setting up of **Regional Technology Watch Groups** in some key sectors addressing SDGs for **Technology Need Assessment** (e.g., Identification, Selection and Prioritisation) of smart technologies relevant to each country
- ◆ There is need to put in position a **Regional cooperation framework** for **development and transfer of smart technologies** and sharing of knowledge among the IORA States

Thanks !