



Smart Villages Seminar: Introduction and Overview

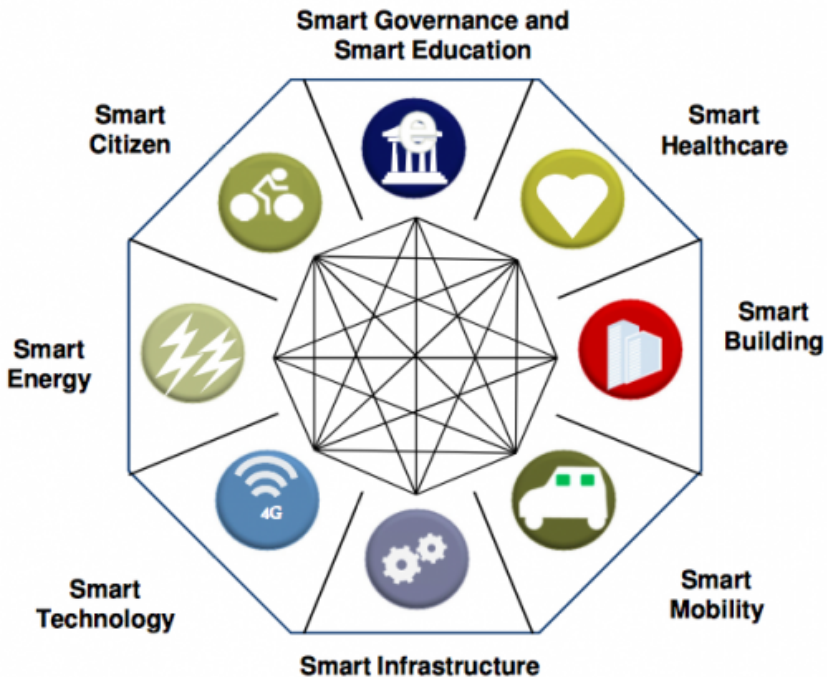
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Smart Cities and Smart Villages



Smart City Concepts



- ▶ Much discussion on smart cities
- ▶ There are plans within the University of Toronto to build a School of Cities
- ▶ In certain contexts, it may be more relevant to speak of smart villages
- ▶ Not just a difference in scale, but in basic approach
- ▶ Focus is not on the building of physical infrastructure, but on opportunities
- ▶ I am a student



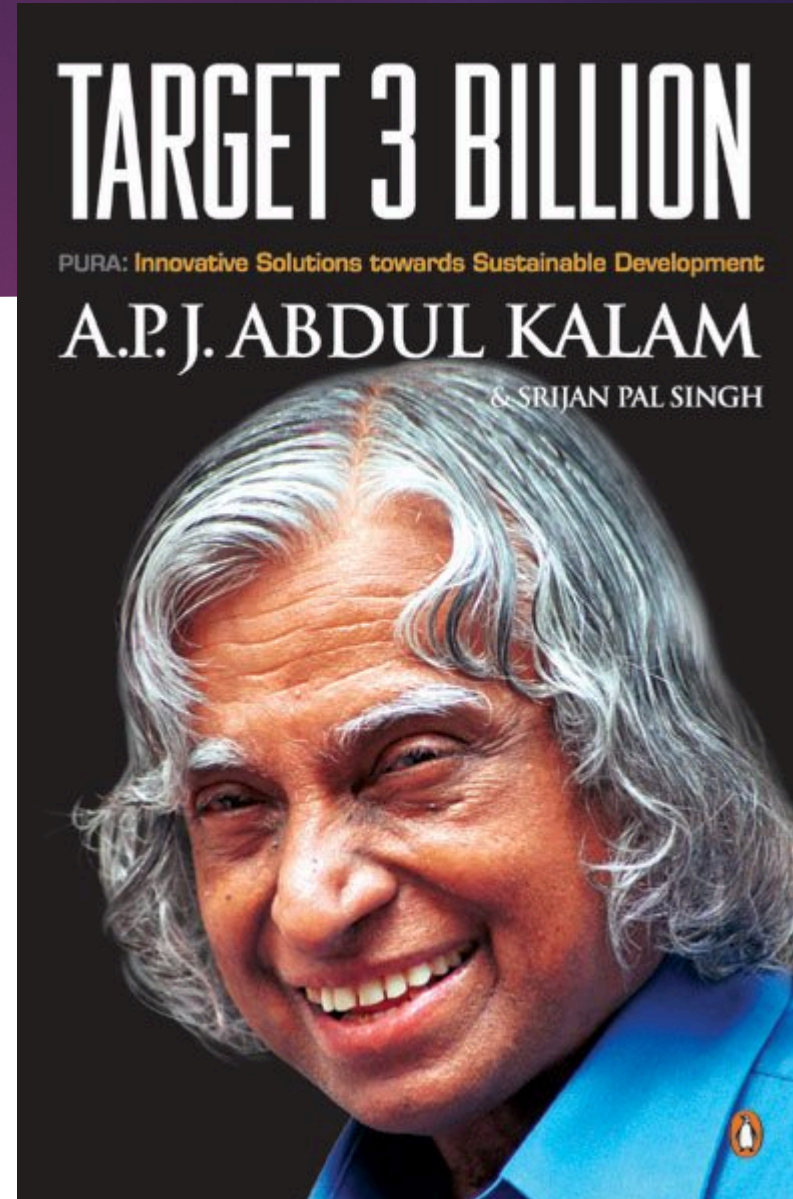
The Rural-Urban divide

- ▶ More than 3 billion live in villages
- ▶ The Rural-Urban divide represents a challenge and an opportunity:
 - ▶ Challenges: incomes, services, cultural identity, environment
 - ▶ Opportunities: source of talent and markets, prosperity, peace



PURA

- ▶ Problem has been analyzed in “Target 3 Billion” by Abdul Kalam and Srijan Pal Singh
- ▶ Providing Urban amenities to Rural Areas
- ▶ Global peace and prosperity is to be built on sustainable development

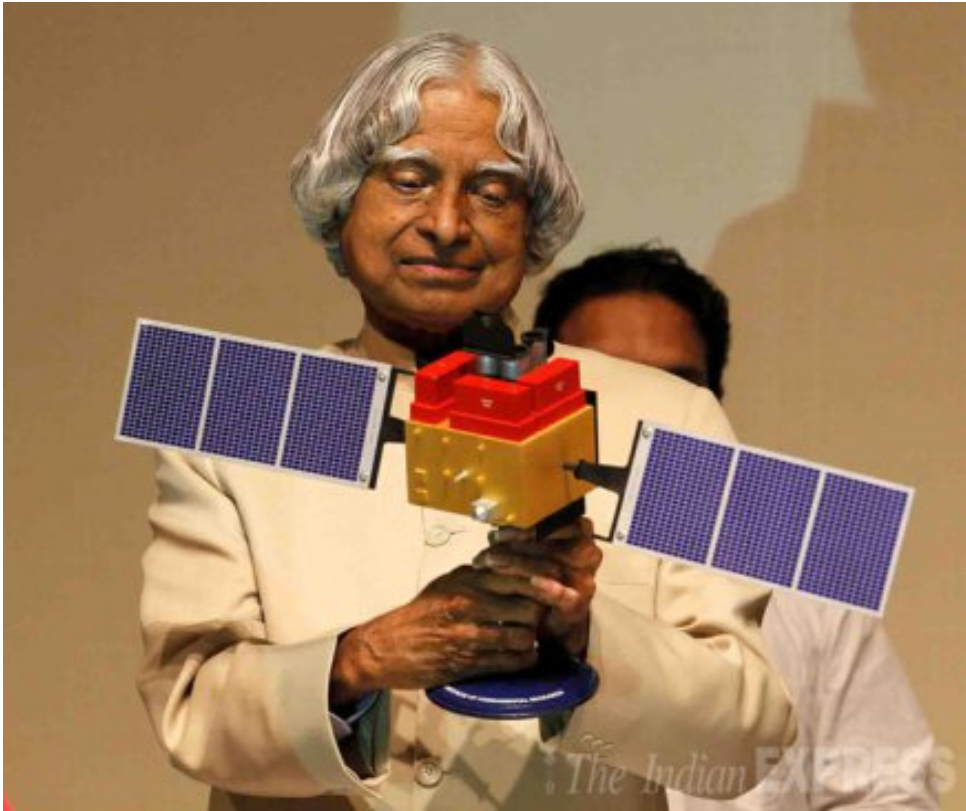


Concepts of Development

- ▶ Constantly evolving:
 - ▶ Agriculture
 - ▶ Manufacturing
 - ▶ Services
 - ▶ ...?
- ▶ Role of Education and Health-care
- ▶ Sustainable development
- ▶ Need a global perspective
- ▶ Beyond global...



Concept for this seminar



- ▶ Started in 2015 when we heard the news of Dr. Kalam's sudden passing away
- ▶ Dr. Lakshmanan and I had the idea of an ongoing seminar to study his thought in theory and practice (including an exchange of faculty and students with institutions in developing environments)
- ▶ Considered the idea of a 'Kalam Centre' for this purpose
- ▶ Decided to begin small with a seminar

Our Speakers

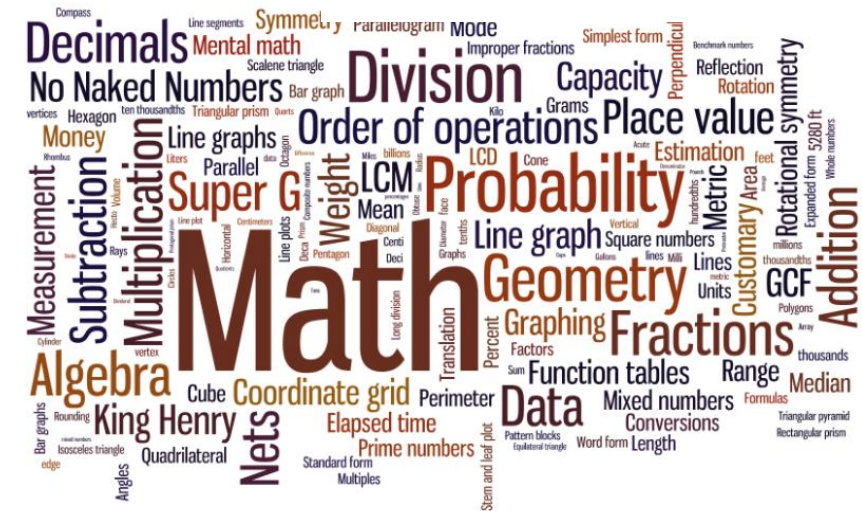
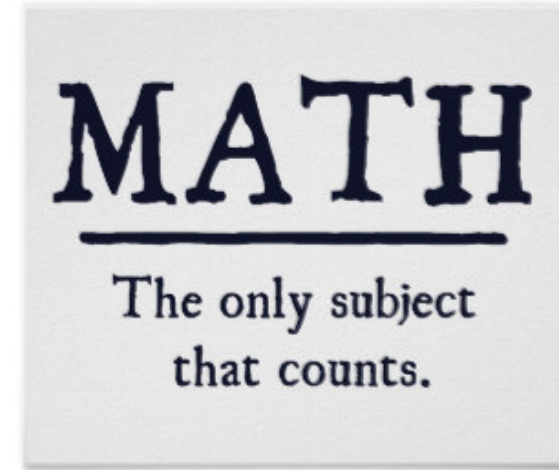
- ▶ Solomon Darwin, UC Berkeley
- ▶ Terry Beaubois, Stanford
- ▶ Y. S. Rajan, co-author of India 2020
- ▶ V. Ponraj, Scientific Advisor to late President Kalam
- ▶ All have experience “in the field” at the village level



- [illegible]

Where's the Math?

- Where there is information, there is math!
- Novel ways to model and analyze information
- Security and privacy
- Are there unique aspects in the context of smart villages?
- Hope to address this in a future seminar.



Opening of a discussion

- ▶ We see today's seminar as the beginning of an ongoing and longer-term discussion
- ▶ Hope is to identify partners with different backgrounds
- ▶ This is the first of a series of seminars
- ▶ Your comments and active participation are requested!
- ▶ Please make sure to leave your contact information

