

## **Digital Governance and Hotspot Geo Informatics for Monitoring, Etiology, Early Warning, and Management**

For the declared scope of the proposal competition, this proposal may look ambitious, but the proposed working group would like to call it opportune. Given the opportunity, we believe that the visionary sponsors would feel happy and proud of their vision and our response. We are at present an international Center – Satellite – Assemblage. With the proposed funded support, we plan to become an international Row-Column-Lattice-Composite-Group, with every purposeful pair, triple, and more, synergistically advancing to launch an International Digital Governance and Hotspot Geo Informatics Forum at the end of the three year period.

The domain of interest of the proposed working group lies in the exciting theme of a successful five year NSF Digital Government Project in its midcourse for Geo Informatics Surveillance. A declared purpose of digital governance is to empower public with information access to enable transparency, accuracy, and efficiency for societal good at large. Spotting what is hot and prioritizing becomes naturally, hotspot Geo Informatics has become a critical need for the 21<sup>st</sup> century.

Our working group efforts will be motivated by vital case studies of societal importance around the world, pertaining to public health, eco health, eco system conditions, watershed management, persistent poverty alleviation, and networked infrastructure security. The international partnership will function with internet communications focused on the coupling of live case studies and prototype methods and tools. The projected five face-to-face meetings will strengthen and sustain the interactive and collaborative components. The meetings will be organized to maximize productivity and output for each case study, for each method, and for each tool. Each meeting will be in nature of a cross-fertilizing five day workshop and short course, equipped with everyone's laptop and projection. Everyone will in turn be a professor, a student, a scientist, decision maker. The working group will initiate a publications program.

The proposed working group will function and sustain itself in 10 headings with 10 co-chairs. The overall working group will have 22 members across six countries inclusive of USA, Italy, India, Indonesia, China, and Japan. The number of US participants will be 8, inclusive of 2 doctoral students. The number of overseas participants will be 14, inclusive of 4 doctoral students and 4 young researchers. Thus, the working group will consist of 11 seasoned researchers, 5 young researchers, and 6 enthusiastic doctoral students.