**INTELLIGENT INFORMATION NETWORK METHODOLOGY DEVELOPMENT WITH SECURITY, FOR GOVERNMENT TRANSACTIONS  (IINGT)**

## A.  EXECUTIVE SUMMARY

This proposal entitled  "Intelligent Information Network Methodology Development with Security, for Government Transactions (IINGT)" is in response to the NSF 02-156 "Digital Government Program" directives.   The project will be referred as the IINGT project throughout this document.

The future is in the formation of a **Digital Government** [1][2], whereby the American public can access information, participate in political process and decision making, and transact their business with the Government anywhere and any time over secure networks, all with the help of the Internet, World Wide Web, and the high speed Tele-Communications [3].  In **phase 1,** addressing these issues, the IINGT team will establish multi-disciplinary and multi-sector research partnerships with other government agencies, and proposes to develop a scalable "Intelligent Information Network Methodology", and model it with security and robustness [4][5].  The team will partner with the Intelligent Transportation Systems (ITS) division of the Florida Department of Transportation  (FLDOT) in the development of applications of Information Technology for their operations, and emergency management, while maintaining the confidentiality, privacy, and trust of the individuals involved [6][9].  This research will directly address the issues of the **Class 1** type of activity of the Digital Government directive.

The IINGT team will also partner with the "Government Documents" division, at the University library facilities, for the development of interactive multi media capability for the IINGT system model. These Government documents provide information to the public and other government agencies, and touch on a multitude of subjects such as, but not limited to, health, crime, economics, census, agriculture, transportation, and the environment.  This activity will establish the IT enabled intra government collaborations, and promote the disintermediation in the direct citizen to government relations.  This  type of research will directly address the issues of the **Class 2** type of activity.

The IINGT system model will be developed and deployed in such a way, that it will emulate the Government transactions. ***Public and other agencies that would access this IINGT model will get the impression that they are actually interfacing with the respective  government organizations.*** This model will be extensively tested with the public and participating Government agencies, to obtain feedback and suggestions. In **phase 2**, based upon the results of the phase 1, the model will be properly modified and adjusted, to manifest as ***Virtual Government Information Agency (VGIA),*** and as a showcase for the NSF.  Recommendations will be submitted to the NSF, to scale up the model and the infrastructure, to suit the needs of other government agencies.

The IINGT team is formulating yet another collaboration with the local area hospitals and bio medical researchers, in addressing the social and behavioral research linked to the medical, health care, social security, and welfare.  The proposed intelligent multi media network methodology for medical applications, as part of the IINGT project, will provide avenues for the alternative, preventive, and cost effective medicine.   It is also an efficient way of linking the doctors, patients, emergency management crew, hospitals, and pharmacies.  This will provide the much-needed **Cross-Agency Domain Activity**, which can be immediately applied to the sectors of public health, crisis and emergency management, crime, and terrorism [7][8].

.    The budget request from NSF for 3-year period (May 01, 2003 to April 30, 2006) is $753,534.00.  There is a voluntary match of $143,300 from the College and the University.  Florida International University (FIU) is a **Minority Institution,** serving the **Hispanic, African American, and other minorities**.  FIU has also obtained the Research 1 University status,  and is a lead institution in granting degrees (BS, MS, and Ph.D) for minorities.   Minority and women students will participate in this research project, thus developing an intellectual capital among the minority communities.