

IAIMS Planning Aid: Features & Functions	Mean rating, all institutions	Inst. A	Inst. B	Inst. C	Inst. D	Inst. E	Inst. F	Inst. G	Inst. H	Inst. I	Inst. J	Inst. K	Inst. L	Part IAIMS	Full IAIMS	Non IAIMS
		Information Culture of the Institution														
• There are institutional strategic initiatives that depend on information infrastructure	3.3	3	4	3	3	4	4	3	4	2	4	4	2	2.8	3.5	4.0
• There is an organizational structure for information that is recognized & accepted	3.3	4	4	3	3	4	4	2	4	2	3	4	2	2.6	3.5	4.0
• Access to library, research & clinical information systems is time, place and platform independent	3.2	3	3	3	3	3	4	2	4	3	3	4	3	2.8	3.3	3.7
• There is leadership appreciation of the importance of information technology to the goals of the enterprise	3.2	4	4	3	2	4	3	3	4	1	4	3	3	3.0	3.0	3.7
• The IAIMS* effort is supported by stable institutional funds	3.1	4	4	4	1	n/a	3	2	4	2	3	4	n/a	2.8	3.3	3.5
• There is a zero-tolerance policy re violations of security/confidentiality of personal information	3.1	4	3	3	3	4	3	3	4	2	4	3	1	2.8	3.0	3.7
• The information infrastructure is recognized as a fundamental tool for meeting business [mission] goals	3.0	3	3	3	2	4	3	2	4	1	4	4	3	2.6	3.0	3.7
• There is designation of IAIMS leadership with proper background & status	2.9	4	4	4	2	4	1	3	2	2	4	4	1	2.8	3.5	2.3
• There are training & policy awareness programs for all users of information systems	2.8	3	3	4	3	4	2	2	3	2	3	4	1	2.2	3.5	3.0
• Information policies reflect input from all affected parties	2.7	4	3	3	3	4	1	2	3	1	2	4	2	2.2	3.3	2.7
• IAIMS issues are a regular feature of senior management & board discussions	2.6	3	3	4	1	4	1	3	4	2	2	3	1	2.2	2.8	3.0
• Education, research & clinical resources are accessible from a single desktop display	2.5	4	2	2	3	3	3	2	3	1	2	4	1	2.0	2.8	3.0
• There is evidence of institutional unity/commitment to the IAIMS program	2.5	4	3	3	1	4	3	2	2	1	2	4	1	2.0	2.8	3.0
• All major organizational components are involved in IAIMS planning and operations management	2.5	3	4	3	2	4	2	2	2	1	2	4	1	1.8	3.3	2.7
• There is an institutional strategy for Internet-based commerce	2.4	3	3	2	2	4	4	1	3	2	2	2	1	1.8	2.3	3.7
• Faculty, students & staff can view information about themselves stored in the institution's information system	2.1	1	2	2	2	2	2	2	3	2	2	3	2	1.8	2.3	2.3
Mean for Information Culture, all statements	2.8	3.4	3.3	3.1	2.3	3.7	2.7	2.3	3.3	1.7	2.9	3.6	1.7	2.4	3.0	3.2

IAIMS: TNG Previsit Survey
Current State

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		the Information Management Plan														
• There is an IAIMS plan and a process for keeping it updated	2.6	4	3	4	1	4	1	2	2	2	3	4	1	2.4	3.0	2.3
• There are IAIMS activities that support national information goals (outreach, NGI, training, underserved)	2.6	4	4	3	2	3	3	2	1	1	2	4	2	2.2	3.3	2.3
• There are milestones for reaching key elements of the IAIMS plan	2.5	3	4	3	1	4	1	2	2	1	4	4	1	2.2	3.0	2.3
• Administrative computing for health care, education and research is represented in the IAIMS plan	2.5	4	3	3	1	4	3	1	2	2	3	?	1	2.2	2.3	3.0
• There is a component of the IAIMS plan that promotes and rewards innovation	2.2	3	3	3	1	3	2	1	2	1	2	4	1	1.6	2.8	2.3
• There are evaluation methods in place to assess progress toward/achievement of IAIMS goals	2.2	1	3	3	1	4	1	2	2	1	4	3	1	1.8	2.5	2.3
• There is a strategic architecture document - (see Hripcsak Article in JAMIA)	1.9	n/a	3	?	1	n/a	1	2	2	1	2	4	1	1.5	2.7	1.5
Mean for Information Management Plan, all statements	2.3	3.2	3.3	3.2	1.1	3.7	1.7	1.7	1.9	1.3	2.9	3.8	1.1	2.0	2.8	2.3

Coding: 1- Very little progress, 2- partially present, 3- mostly present, 4- fully implemented
n/a = no answer given by institution, ? Entered by the institution

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		Information Management & Administration														
• There are confidentiality & security protections for computer based information about individuals	3.4	4	3	4	4	4	4	2	4	2	4	4	2	2.8	3.8	4.0
• Every individual has a unique identifier or logon-ID	3.4	4	4	4	4	4	4	3	4	2	n/a	3	1	2.5	3.8	4.0
• There is a program for assessing security vulnerabilities (e.g., run 'hacker scripts)	3.3	4	3	4	3	3	3	3	4	2	4	4	3	3.2	3.5	3.3
• There is designated leadership with appropriate background and status	3.3	4	4	4	4	4	1	3	4	2	4	4	2	3.0	4.0	3.0
• Virus checking programs are installed on all servers	3.3	4	4	3	3	4	4	3	4	2	4	3	2	3.0	3.3	4.0
• There is secure authentication for remote & mobile users	3.3	4	3	4	2	4	4	4	4	2	3	4	2	3.0	3.3	4.0
• There is a firewall that bars access by outsiders to all but systems critical to them	3.3	4	4	4	2	3	4	4	4	2	n/a	4	1	2.8	3.5	3.7
• There is an emergency access plan for the EMR	3.3	n/a	3	?	n/a	4	4	4	4	2	n/a	4	1	2.3	3.5	4.0
• There are sanctions for violation of confidentiality/security that are enforced	3.2	3	3	4	4	4	2	4	4	2	4	3	1	2.8	3.5	3.3
• There are limits to unauthorized physical access to computer systems	3.2	2	3	3	4	3	4	3	4	2	4	4	2	2.6	3.5	3.7
• The institution has adopted standards for hardware, network design	3.2	4	4	3	3	3	3	3	4	2	3	4	2	2.8	3.5	3.3
• The use & efficiency of systems & services is measured	3.1	4	3	4	2	3	4	2	4	2	4	3	2	2.8	3.0	3.7
• The institution has adopted standards for software & integration	3.0	4	4	3	3	3	4	2	4	2	2	4	1	2.2	3.5	3.7
• There is a current inventory of technological status & capabilities	2.9	4	2	3	3	4	4	2	4	2	2	3	2	2.4	2.8	4.0
• There is substantial involvement of the library in overall management of information	2.9	4	1	3	3	2	4	2	3	2	4	4	3	3.0	2.8	3.0
• There are role-based access controls to confidential information	2.9	4	4	3	3	4	3	1	4	2	n/a	3	1	2.0	3.3	3.7
• There is a process for evaluating success/failure/lessons learned	2.8	3	3	3	3	4	2	2	4	2	3	4	1	2.2	3.3	3.3
• There is desktop access to full text materials & digital images stored on institutional servers	2.8	4	2	2	3	3	4	2	4	2	2	4	2	2.4	2.8	3.7
• The inventory of users, devices & usage is used for ongoing management of the information environment	2.8	4	3	3	2	4	3	2	4	2	2	3	1	2.2	2.8	3.7
• Input is gathered from system users, including patients and students, about the costs & benefits of IT applications	2.5	3	3	2	2	?	4	2	3	2	2	n/a	2	2.2	2.3	3.5
• There are data marts or data warehouses for administrative & research needs	2.5	2	2	3	2	4	2	2	4	2	2	n/a	2	2.0	2.3	3.3
Mean for Information Management & Admin, all statements	2.9	3.5	2.9	3.0	2.8	3.5	3.4	2.4	3.9	2.0	2.8	3.6	1.6	2.6	3.2	3.6

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		Education Mission														
• Computers & the Internet are fundamental to the success of education programs	3.2	3	3	4	3	4	4	1	4	2	4	4	2	2.4	3.5	4.0
• There are academic faculty involved in IT development for education	3.1	3	3	2	3	4	3	4	2	2	4	4	3	3.2	3.0	3.0
• The medical education research portfolio includes informatics-related topics	2.9	n/a	3	2	2	4	4	1	4	2	4	4	2	2.3	2.8	4.0
• Health professions instruction includes information/informatics specialists	2.8	2	2	2	3	4	4	3	2	2	4	4	2	2.6	2.8	3.3
• Health professions education programs have informatics competency requirements	2.6	1	2	2	3	3	4	3	3	2	4	3	1	2.2	2.5	3.3
• There is a curriculum management system for use by educational administrators & instructors	2.2	1	n/a	1	3	2	3	1	2	2	3	3	3	2.0	2.3	2.3
• All required curriculum materials are available in electronic form	2.2	2	n/a	1	2	2	2	2	2	2	4	3	2	2.4	2.0	2.0
• The effects of IT applications on teaching & learning are measured	2.1	n/a	2	1	2	4	3	1	2	1	2	3	2	1.5	2.0	3.0
• There is an integrated electronic student record	2.0	2	n/a	2	2	n/a	1	1	2	2	4	2	2	2.2	2.0	1.5
• IAIMS costs relating to education are budgeted and monitored	1.9	4	1	2	1	n/a	3	1	2	1	3	n/a	1	2.0	1.3	2.5
• There are academic rewards for IT-related innovation	1.8	n/a	1	1	2	n/a	2	2	2	2	2	3	1	1.8	1.8	2.0
Mean for Education Mission, all statements	2.4	2.3	2.1	1.8	2.4	3.4	3.0	1.8	2.5	1.8	3.5	3.3	1.9	2.2	2.4	2.8

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Clinical Mission																	
• There are 'time-out' programs that log out registered users after idle periods	3.4	n/a	4	4	3	4	4	3	4	1	4	4	2	2.5	3.8	4.0	
• Patient-identifiable information is encrypted before it is sent over public networks	3.2	n/a	3	?	n/a	4	4	4	4	1	4	4	1	2.5	3.5	4.0	
• Affiliates in remote clinics have comparable access to the institution's clinical information systems	3.2	n/a	3	4	3	3	4	3	3	1	4	4	3	2.8	3.5	3.3	
• New information about patients is stored in electronic form	3.1	n/a	3	3	n/a	4	4	3	4	1	3	4	2	2.3	3.3	4.0	
• An audit log is maintained of accesses to patient-related information	3.1	n/a	2	4	3	3	4	4	3	1	4	4	2	2.8	3.3	3.3	
• All data applicable to one patient can be obtained through the same interface	3.0	n/a	3	3	n/a	3	4	3	4	1	3	4	2	2.3	3.3	3.7	
• There are linkages between clinical and academic informatics groups	2.9	n/a	4	3	2	4	4	2	4	1	2	4	2	1.8	3.3	4.0	
• IAIMS costs relating to clinical care are budgeted and monitored	2.8	n/a	4	3	1	4	4	3	3	1	4	n/a	1	2.3	2.7	3.7	
• There are established telemedicine activities	2.6	n/a	2	4	3	2	3	2	3	2	2	4	2	2.0	3.3	2.7	
• Patients have the right to request and view audits of access to their medical records	2.6	n/a	1	1	n/a	3	4	?	4	1	4	4	1	2.0	2.0	3.7	
• There are procedures for moving patient information from print to electronic form	2.6	n/a	3	4	n/a	2	n/a	3	2	1	2	4	2	2.0	3.7	2.0	
• The effects of IT applications on the clinical process of care are measured	2.4	n/a	3	2	1	4	4	2	3	1	1	3	2	1.5	2.3	3.7	
• The effects of IT applications on health outcomes are measured	2.3	n/a	3	2	1	4	4	1	3	1	1	3	2	1.3	2.3	3.7	
• The clinical information system has decision support (e.g. alerts, literature links, etc.)	2.2	n/a	2	1	n/a	4	4	1	2	1	2	3	2	1.5	2.0	3.3	
• The effects of IT applications on the timeliness of care are measured	2.2	n/a	2	2	1	4	4	1	3	1	1	3	2	1.3	2.0	3.7	
• The authorization form for patients improves their understanding of options and has a limited life span	1.8	n/a	2	?	n/a	2	n/a	1	1	1	2	4	1	1.3	3.0	1.5	
Mean for Clinical Mission, all statements		2.7	2.8	2.9	2.0	3.4	3.9	2.4	3.1	1.1	2.7	3.7	1.8	2.0	2.9	3.4	

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Research Mission																	
• There are academic faculty with primary roles in informatics research	3.1	n/a	4	4	1	4	3	2	4	2	3	4	3	2.5	3.3	3.7	
• There are mechanisms for protecting security and integrity of research data stored in electronic form	3.0	n/a	4	?	3	4	4	2	4	2	3	3	1	2.0	3.3	4.0	
• There is a process for providing basic researchers with access to clinical information in institutional systems	2.9	n/a	4	3	n/a	3	4	2	4	1	2	4	2	1.8	3.7	3.7	
• The number of externally funded informatics projects has increased	2.8	n/a	4	2	1	4	4	3	4	1	2	4	2	2.0	2.8	4.0	
• There is a mechanism for addressing researcher needs for bandwidth, computing power, specialized software, data resources	2.8	n/a	n/a	2	3	n/a	4	2	4	2	2	3	3	2.3	2.7	4.0	
• The basic research portfolio includes informatics topics	2.7	n/a	3	2	1	4	3	2	4	1	3	4	3	2.3	2.5	3.7	
• Basic researchers have access to clinical information stored in institutional systems	2.7	n/a	3	2	n/a	4	4	1	3	1	2	4	3	1.8	3.0	3.7	
• Informatics support (e.g., database design, terminology, decision support logic) is available to researchers	2.5	n/a	4	2	1	3	4	1	4	1	2	3	2	1.5	2.5	3.7	
• IAIMS costs relating to research are budgeted and monitored	2.3	n/a	4	2	1	4	3	1	3	1	3	n/a	1	1.5	2.3	3.3	
• There is a system for electronic grants management, including approvals & submissions	2.3	n/a	2	3	1	2	1	3	4	2	3	3	1	2.3	2.3	2.3	
• There are academic rewards for informatics-related innovation	2.2	n/a	1	1	1	4	3	2	4	1	3	3	1	1.8	1.5	3.7	
Mean for Research Mission, all statements		2.66	3.30	2.30	1.44	3.60	3.36	1.91	3.82	1.36	2.55	3.50	2.00	2.0	2.6	3.6	
Mean for all ratings, by institution		2.6	3.3	3.0	2.8	2.2	3.5	3.1	2.2	3.2	1.6	2.9	3.6	1.7	2.2	2.8	3.2

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Future Directions																
• Incorporation of practice guidelines into the clinical systems	2.5	n/a	n/a	2	n/a	4	4	2	3	1	n/a	2	2	1.7	2.0	3.7
• Deployment of distance education programs	3.0	n/a	n/a	3	3	4	3	3	4	2	2	4	2	2.3	3.3	3.7
• Mechanism to link all information about a single patient	3.0	n/a	n/a	3	n/a	3	4	3	4	1	3	4	2	2.3	3.5	3.7
• Remote access to clinical systems for non-affiliates	2.9	n/a	n/a	4	n/a	4	4	3	3	1	1	4	2	1.8	4.0	3.7
• Development of multimedia products	2.8	n/a	n/a	2	3	4	3	2	4	2	2	4	2	2.0	3.0	3.7
• Informatics research & development agenda	2.8	n/a	n/a	3	1	4	4	2	4	1	n/a	4	2	1.7	2.7	4.0
• Deployment of telemedicine programs	2.7	n/a	n/a	3	3	3	3	2	3	2	2	4	2	2.0	3.3	3.0
• Informatics training agenda	2.7	n/a	n/a	2	1	4	4	3	3	2	3	4	1	2.3	2.3	3.7
• Mechanism for reduction of preventable clinical errors	2.6	n/a	n/a	2	3	4	4	3	3	1	2	2	2	2.0	2.3	3.7
• Population based medicine	2.6	n/a	n/a	n/a	2	4	4	1	4	2	2	2	2	1.8	2.0	4.0
• Clinical repository for health services research & quality studies	2.4	n/a	n/a	1	n/a	3	4	1	4	1	2	4	2	1.5	2.5	3.7
• Administrative repository for health services research & quality studies	2.3	n/a	n/a	1	n/a	3	3	1	4	1	2	4	2	1.5	2.5	3.3
• Management of cohorts of people with a chronic disease	2.2	n/a	n/a	2	2	2	4	1	4	1	2	2	2	1.5	2.0	3.3
• Integration of genomics information into clinical systems and processes	1.6	n/a	n/a	1	n/a	2	3	2	2	1	1	1	1	1.3	1.0	2.3

*IAIMS: a managed, networked information environment whose dimensions are dictated by the organization's long range strategic plan. The IAIMS environment integrates diverse resources and services to deliver convenient and comprehensive access to information.