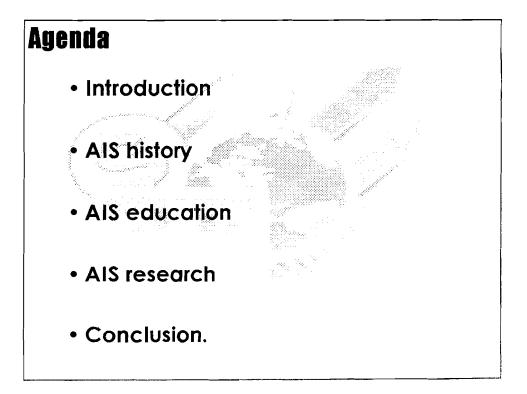
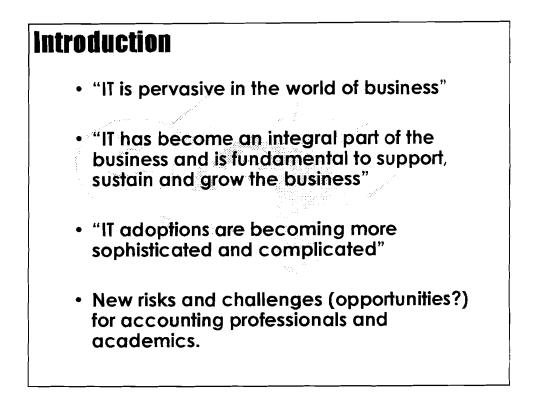
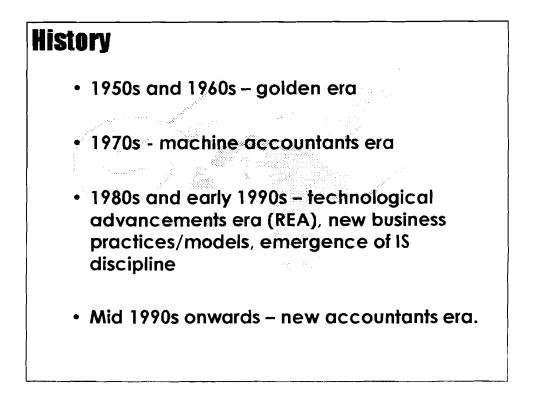
Accounting Information Systems: Teaching and Research Agenda

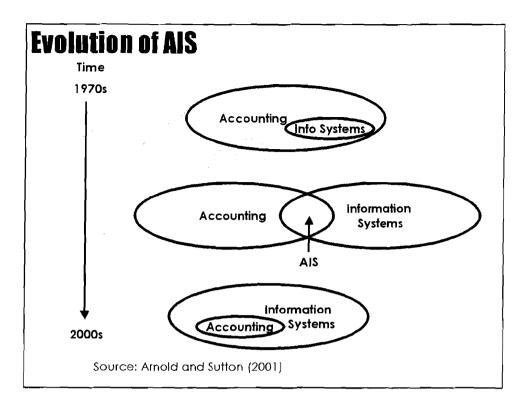
UiTM Dungun, Terengganu June 18th, 2006

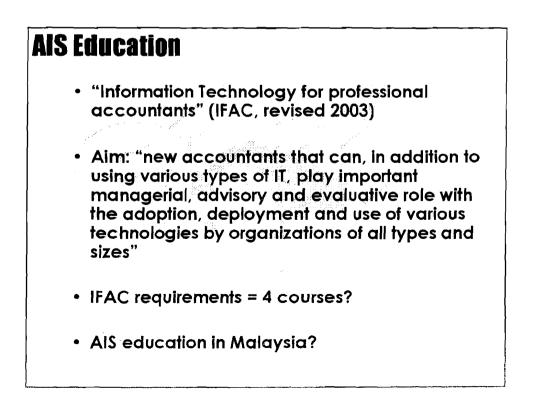
Assoc. Prof. Dr Noor Azizi Ismail Audit and Information Systems Department Faculty of Accountancy, Universiti Utara Malaysia Sintok 06010 UUM, Kedah Email: <u>azizi833@uum.edu.my</u>

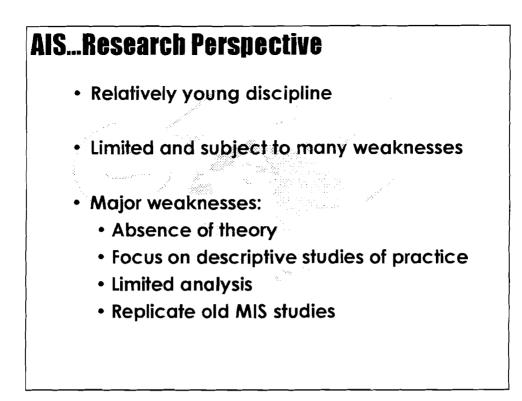


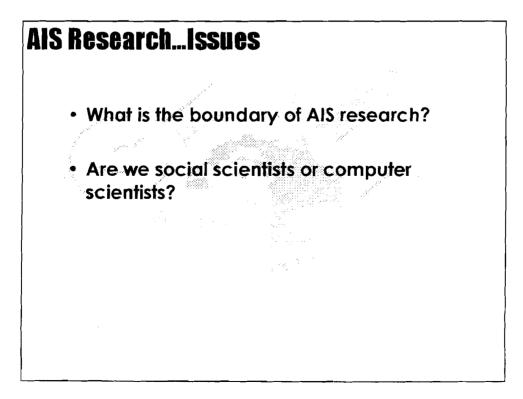












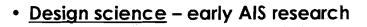
AIS Research...Definition

- Definition either too narrow or too broad
- "the distinguishing feature of AIS is its involvement in transaction processing for accountability purposes in an organization" (McCarthy, 1990)
- "a specialized IS aimed at recognizing, measuring, recording, and reporting economic events affecting business entities" (Hunton, 2002)

AIS Research...cont

- "the logical intersection of the broad fields of accounting and MIS"...but "can also expand beyond the intersection" (Murthy & Wiggins, 1999)
- "while AIS might be usefully perceived as a subset of MIS from a teaching standpoint, identifying an area of IS that is not of import to AIS research is difficult" (Sutton, 1992)
- "accounting scholars need to learn to research accounting as an IS discipline" (Arnold & Sutton, 2002)

AIS Research...Category



- Focus on development of improvements in systems concepts, models, design & development techniques, and systems implementation & validation
- E.g. database accounting systems, expert systems, accounting decision support systems
- Suggested reading: David, J.S., Gerard, G.J., and McCarthy, W.E. Design science: Building the future of AIS,

http://www.msu.edu/~mccarth4/

Design Science Research

- Is it a research or development project?
- Design science research is not just about technology, rather it focuses more on the underlying concepts or theories related to design, development, or application of technology
- "Simply building a system does not advance research" (Arnold & Sutton, 2002)

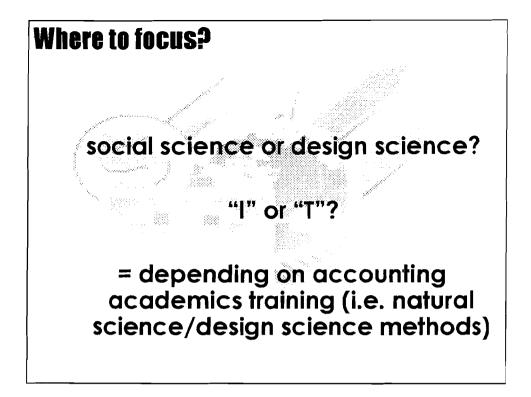
Design Science Research...Examples Relational database model, relational languages and normalization (Codd, 1970) Database accounting (Colantoni et al., 1971) Relational design of traditional accounting constructs (Everest & Weber, 1977) Entity-relationship modeling (McCarthy, 1980) Resource-Event-Agent model (McCarthy, 1982) CASE tool for accounting database design

 CASE tool for accounting database design (Rockwell & McCarthy, 1999)

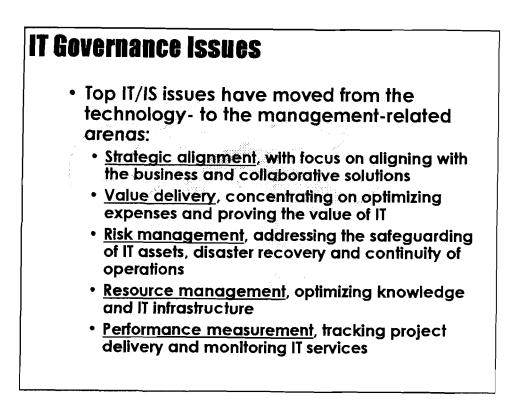
AIS Research...cont

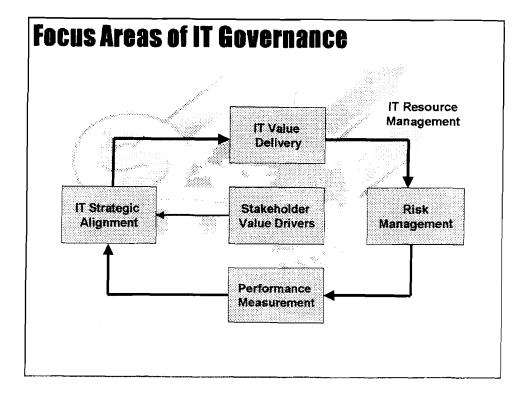
- <u>Social science</u> fast growing
- Appropriate for establishing and testing theories which relate to the impact of IT on individuals, organizations, and society
- Theories: Information processing theory, contingency theory, agency theory, knowledge-based theory, task-technology fit theory, unified theory of acceptance and use of technology, real options theory, transaction cost economics, resourcebased view of the firm, etc.

http://www.istheory.yorku.ca/









AIS-Related Issues

- System security and reliability: physical & cyber security, disaster recovery, trust services, etc.
- Systems audit & internal controls: continuous audit, IT systems audit, e-commerce systems, internal controls, etc.
- Financial accounting: continuous reporting, e.g. Internet reporting/eXtensible Business Reporting Language (XBRL)
- Management accounting systems and controls: ERP/CRM/SCM/E-Business/ABM/BSC
- Taxation: E-commerce
- IT Governance: enterprise risk management, IT resource management, performance management, IT controls, and IT strategic alignment, etc.
- Others: knowledge management/decision support systems

Resources ISWorld (www.isworld.org) Special Interest Group-Accounting Information Systems (SIGASYS) (www.sigasys.org) American Accounting Association – Information Systems Section (http://aaahq.org/infosys/resources/resources 2005 .htm) Rutgers Accounting Research Center (http://raw.rutgers.edu/raw/) AICPA (http://infotech.aicpa.org/Resources/)

Journal and Conference

- International Journal of Accounting Information Systems
- Journal of Emerging Technologies in Accounting
- Journal of Information Systems
- Asia/Pacific Research Symposium on Accounting Information Systems
- European Conference on Accounting Information Systems
- International Conference on Enterprise Systems and Accounting
- International Research Symposium on Accounting Information Systems.

Conclusions

• AIS researchers need to collaborate with researchers in other areas of accounting and other disciplines to produce high-quality research results that can have notable impact on the accounting profession and business practice.

