



Wildlife Disease Information Node



Introduction to Wildlife Disease Informatics

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NBII Wildlife Disease Information Node

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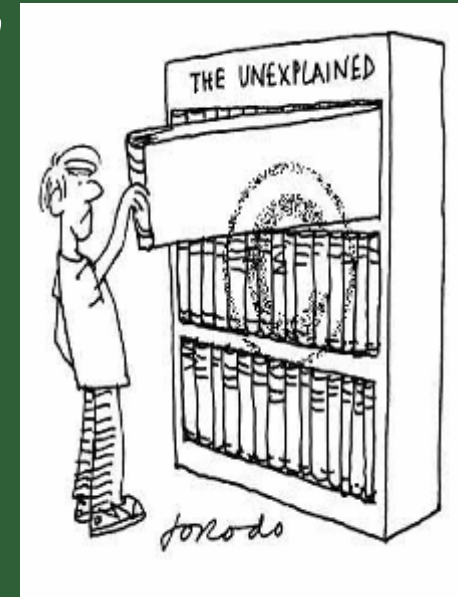


What is Informatics?

- Management and processing of data, information and knowledge
- Incorporation of informatic concepts and theories to enrich a discipline
- The discipline of science which investigates the structure and properties (*not specific content*) of scientific information, as well as the regularities of scientific information activity, its theory, history, methodology and organization

Components of Informatics

- Information Management (IM):
 - *Knowing what information to gather, knowing what to do with information when you get it, knowing what information to pass on, and knowing how to value the result*
 - Library and Information Science:
 - *the collection, organization, preservation and dissemination of information resources*



Components of Informatics

- Information Technology (IT):
 - *the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer hardware*

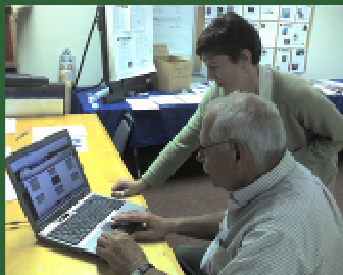


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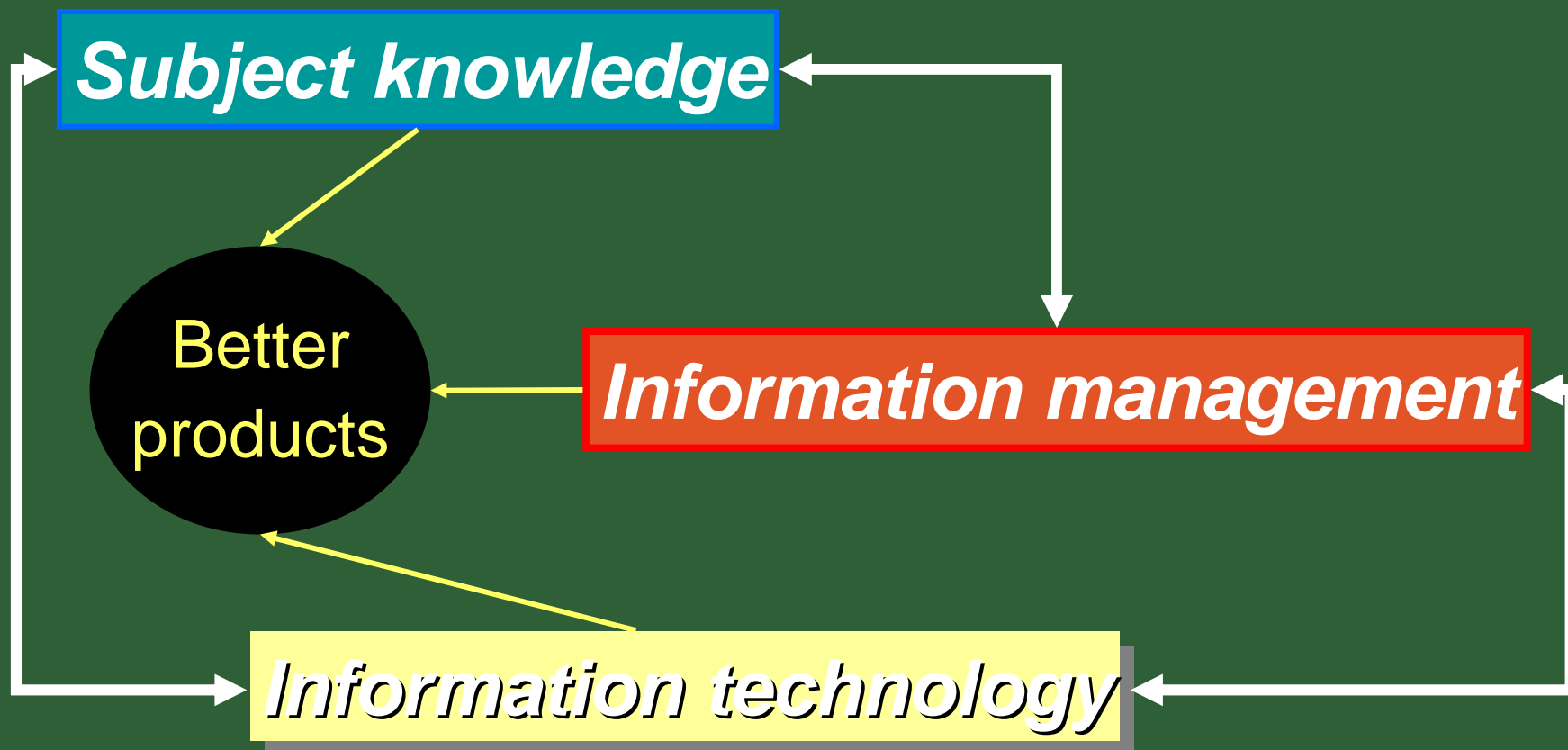


Components of Informatics

- Subject (Discipline) Knowledge
 - *Relevancy and importance of information*
 - *Connections within and across disciplines*
 - *User needs and applications*

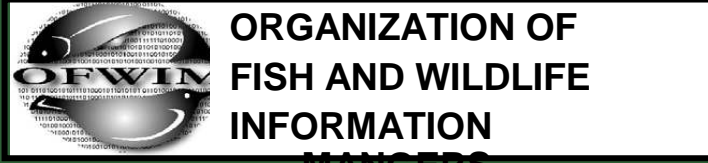


Informatics Approach



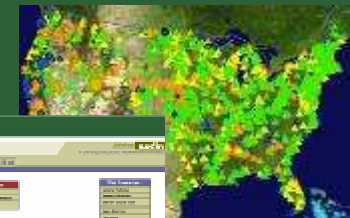
Variations on a Theme

- Biological Informatics
- Biodiversity Informatics
- Bioinformatics (Computational Biology)
- Biomedical Informatics



Wildlife disease informatics focus areas

- Data standards
- Disease surveillance systems
- Taxonomic names
- Digital imaging
- Data visualization
- Geospatial applications
- Knowledge management



Why is this important?

- Facilitates collection, storage and analysis
- Enhance delivery of information to user groups
- Data sharing
 - Broader view of wildlife disease distribution
 - Larger datasets for analysis
 - Combined resource and tool development
 - Funding agency mandates
- *“Acquiring data is no longer the major hurdle — managing, validating and understanding the data are the new challenges.”* -- US National Science Board, 2000



NBII Wildlife Disease Informatics Workshop

Friday, 12 - 3 pm

- Disease surveillance systems
 - Overviews and challenges
 - Marc Artois, Jim Case, Paul Duff, Damien Joly, Jane Parmley,
- Information sharing
 - Data standards (Jim Case)
 - Data sharing (Damien Joly)
- Information products (Cris Marsh)

