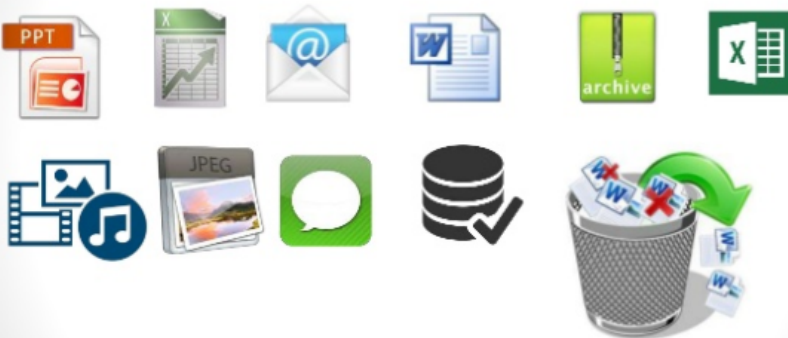


AGENDA



Discovery of
electronic evidence
Identification of data

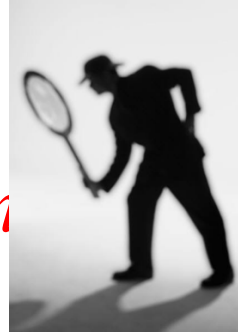
ESI – Electronically Stored Information



Information created, manipulated, communicated, stored, and best utilized in digital form, requiring the use of computer hardware and software.

E discovery

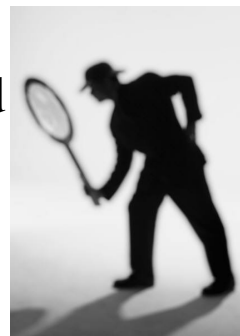
- *Gathering ,
managing,
presenting &
preserving electronic
evidence*



Forensics and E-Discovery

E-Discovery

- Gather, filter, evaluate and produce
- Volumes of data from active and archived sources
- Someone else does analysis to build case



Discovery of Electronic Evidence



The discoverability of the electronic files is referred to as “Discovery of Electronic Evidence or DEE

Types of electronic records typically sought/produced in Discovery



- *Text*
- *Image*
- *Calendars*
- *Databases*
- *Spreadsheets*
- *Animations*
- *Websites*
- *Computer programmes*
- *PDA's*
- *Digital signatures...*

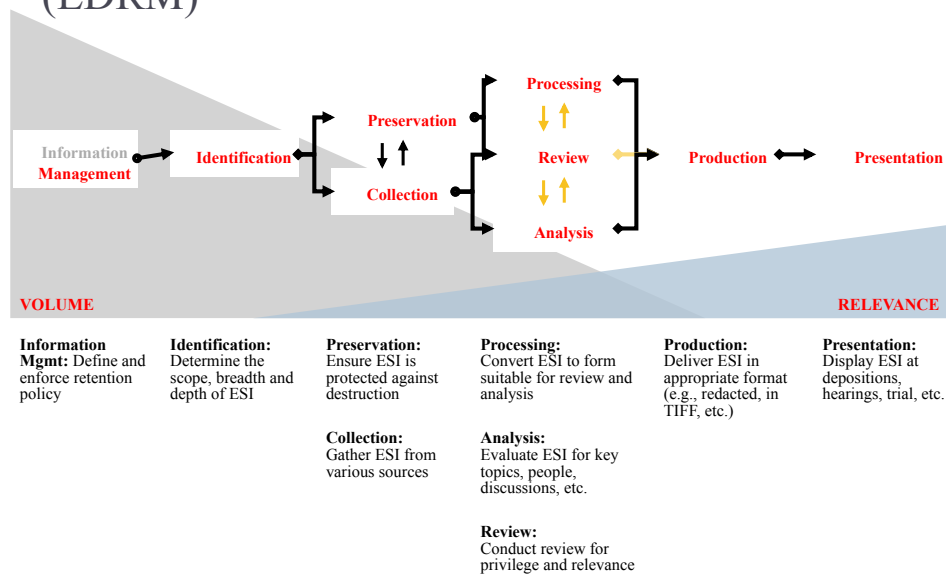
Importance of E- Discovery



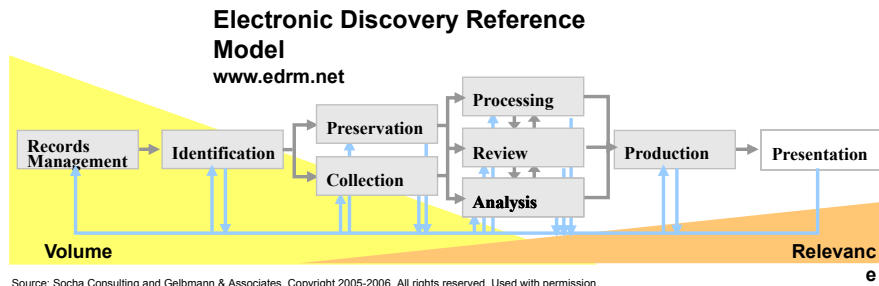
- More than 90 % of records created are in electronic format
- More than 70% of electronic info never printed
- Estimated 247 billion mails send every day

□

The Electronic Discovery Reference Model (EDRM)



What Is EDRM?



- Six-step methodology broken into nine processes
- Developed by a large and diverse group, including vendors, law firms and corporate legal departments
- Common definitions and a working glossary are available in public domain
- Additional work is under way to develop metrics and XML schema

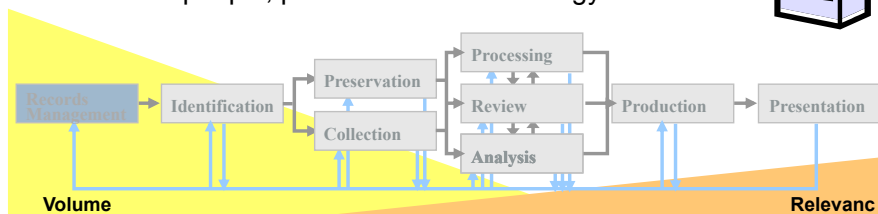
Preparing for E-Discovery Through Records Management

Who: Information Management Steering Committee, Corporate and Divisional Records Directors, House Counsel

What: Develop a process and solution for declaring, classifying and managing an organization's documents

When: Immediately

How: As a discipline, records management is completely independent of technology that must address, in this order: people, processes and technology.



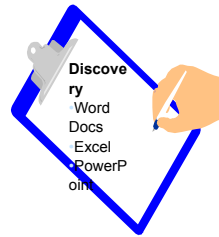
Proactive Identification of IT Assets

Who: Primary responsibility of the IT department

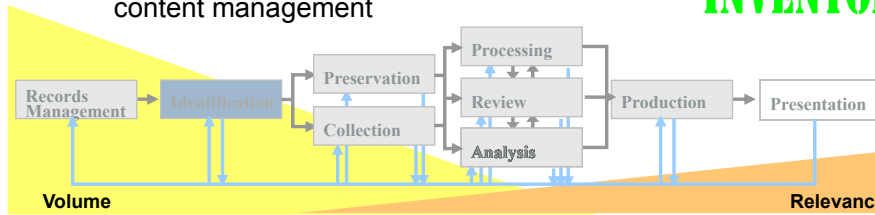
What: All hardware, software and storage, backup and recovery, information retention and deletion policies

When: Within 90 to 120 days of the cause for action

How: IT asset management software, forensics, policy management, records management, content management



INVENTORY



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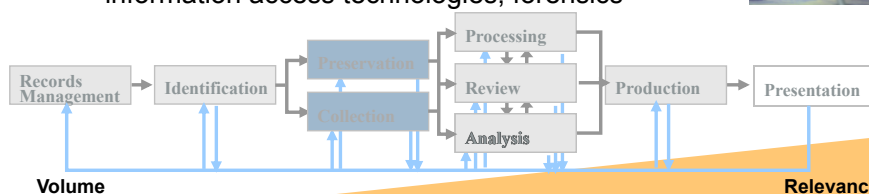
Preservation and Collection of Evidence

Who: IT, acting on the advice of legal counsel or other advisors

What: All data and metadata in all systems by custodian, date range and subject matter

When: If you believe information is going to be requested, or immediately upon request

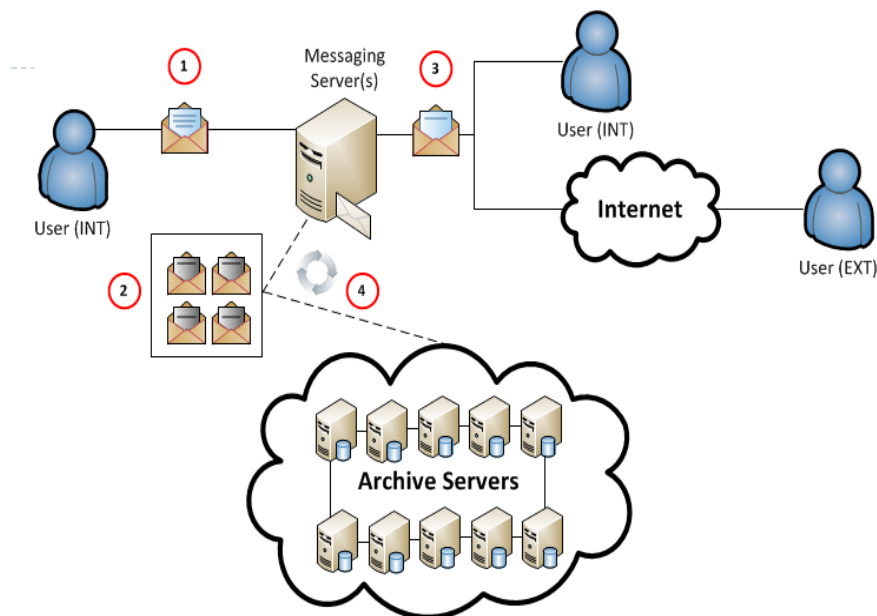
How: Content and records management systems, policy management systems, litigation support databases, information access technologies, forensics



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Archiving architecture

- While each organization will tailor its archiving infrastructure according to its specific business requirements, there are typically two common architectures that are used.
- ***Hosted Messaging Archive Solution***
- An organization may choose to rely on a third-party vendor to host their e-communications in a cloud-based environment



- User sends a message to a number of internal and/or external recipients
- A copy of the message is kept in the ‘messaging store’
- The original message is delivered to the intended recipient(s)
- Ingestion occurs at regular intervals to move the messages from the ‘messaging store’ to the archive servers in the cloud.



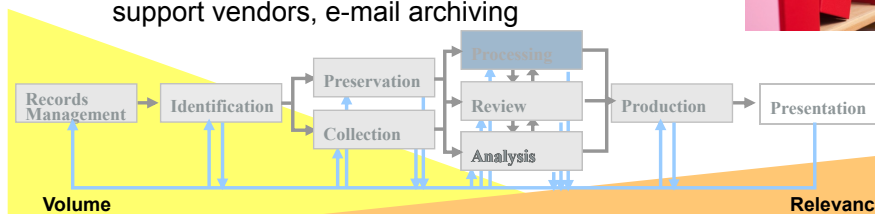
Processing

Who: IT, acting on the advice of legal counsel and using the appropriate tools, third-party provider

What: Reduce the overall set of data you have collected by setting aside files that are duplicates, nonrelevant file types

When: Upon receipt of interrogatory or subpoena

How: Deduplication technology, forensics, litigation support vendors, e-mail archiving



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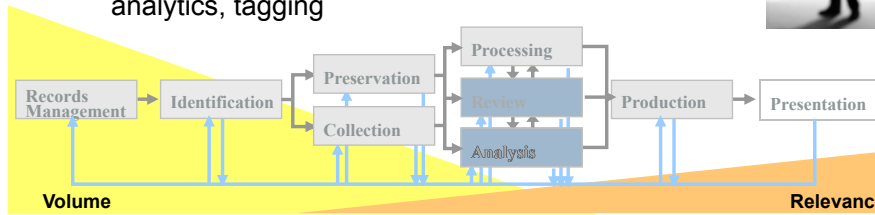
Review and Analysis: Key Technology Differentiators

Who: Legal professionals, document review software, content analytics

What: Review documents for relevancy, privilege and redaction

When: Deadlines agreed to in meet and confer conference and set by the court

How: Search and information access tools, content analytics, tagging



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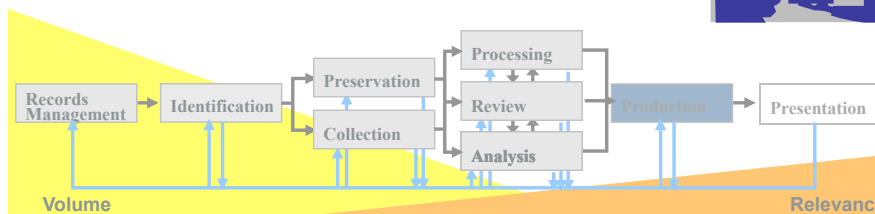
Production and Presentation

Who: Legal professionals, third-party specialists, IT

What: The transmittal of relevant material to opposing counsel and the display of evidence during proceedings

When: As soon as material is analyzed for production

How: Mutually agreed upon format, or in the manner it is used in the normal course of business



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Identification of data



Time Travel

None of the clocks in the system are synchronised unless the computer in question is running with NTP (Network time Protocol)

NTP is build on top of TCP/IP that ensures accurate time keeping with reference to radio, atomic clock...

Keeping accurate time is very crucial in case of digital evidence

Identification of data



Clock Filters

NTP guards against changing the system clock

NTP assumes time moves forward not backward

Small changes are acceptable

Making large changes is very time consuming

Autokey

- Version 4 of NTP has more security improvements.
- A system called the Autokey uses public key algorithms combined with list of one-way hashes
- The client can check the signature send by the server

