Big Data, Big Records

US. Department of the Interior
Office of the Chief Information Officer

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Department of the Interior

- Cabinet level agency
- 14 Bureau Offices
- Employ’s ~70,000 / 280,000 volunteers
- Manages $16.8B operating budget
- Manages 500 million acres of surface land
- Manages 479 dams and 348 reservoirs
- Supplies 30% of the nation's energy production
- Produce 55,000 different maps each year
- Protects ~500 million recreational and cultural visitors

http://www.doi.gov/facts.html
IT Transformation

• Unified Messaging (BisonConnect)
  – Google apps for Government

• Enterprise Information (eERDMS)
  – Enterprise eArchive System
  – Enterprise Content System
  – Enterprise Forms System
  – Enterprise Dashboard System
OMB Directive M-12-18

Requires to the fullest extent possible - eliminate paper and use electronic recordkeeping.

Expected benefits:

➢ improved performance and promotion of openness and accountability

➢ further identification and transfer to the National Archives and Records Administration (NARA) of the permanently valuable historical records

➢ minimizing costs and operating more efficiently
M-12-18 Objectives

• By 2016, Federal agencies will manage both permanent and temporary email records in an accessible electronic format
• By 2019, Federal agencies will manage all permanent electronic records in an electronic format
• Ensure that permanent records are identified for transfer and reported to NARA
• Agencies must establish records management to be open and transparent
Big Data, Big Business

• 600+ million emails a year
• 5,500+ FOIA cases a year
• 200+ ongoing litigation cases
• 100+ million printed pages a year
• 4,100+ mobile devices
Big Data

- 1.2B emails received
- 22B data points generated
- 15.5M records produced a day
- 100K sq. feet of paper
- Exabyte / Zettabyte of electric content
Information Management Consolidation

- Data collection
- Collaboration
- Data mining
- Records management
- Cross-pollination
- NexGen technologies
Best Practices

• Change management is essential
• Stakeholder buy-in
• Working groups and task forces
• Policy developed in cooperation with stakeholders and leadership
• Plan long term, short term is in effective
• Build from worst case scenario
Questions?

http://www.worldometers.info/

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