

# Information Sharing for E-Government

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July 2010



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# Objectives

- **Information sharing (IS)** is a key capability required for one-stop and networked government.
- it is not common in traditional public administration and management, thus IS initiatives must overcome a range of technical, organizational, cultural and other barriers, which are generally difficult to overcome by individual agencies.
- in this course, we introduce the problem of information sharing in government, its benefits, barriers and technical approaches.
- we analyze current models and strategies, and review supporting frameworks and architectures.



# Course Syllabus

- five classes of three hours
- grading based on final project



## Lecture Plan

- ① Introduction. Concepts of Information Sharing. e-Government issues. (3 hours)
  - ① Information systems: organizational aspects, classification, resources, components. Ethical and security constraints.
  - ② e-Government: models, resources, challenges.
- ② Data integration. Semantic Web. Ontologies (4 hours)
  - ① Information Sharing: objectives, data modeling, metadata.
  - ② Semantic Web. Syntactic integration. XML
  - ③ Ontologies. RDF
  - ④ Ontology languages for the Semantic Web. OWL
  - ⑤ Ontology-based information sharing

## Lecture Plan

- ③ Models of Information Sharing in government (3 hours)
  - ① Model of Dawes
  - ② Model of Landsbergen and Wolken
  - ③ GISF model
- ④ Countries' experiences (5 hours)
  - ① Frameworks vs Architectures
  - ② Frameworks
    - ① United Kingdom
    - ② Australia
    - ③ United States
    - ④ New Zealand
    - ⑤ Estonia
  - ③ Case Studies

## Resources

- web page

<http://www.cs.uns.edu.ar/~prf/teaching/ISEgov/>