



# InterPARES Trust

Luciana Duranti  
Project Director  
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# InterPARES Trust (2013-2019)

The **goal of InterPARES Trust** is to generate the theoretical and methodological **frameworks** that will support the development of integrated and consistent local, national and international **networks of policies, procedures, regulations, standards and legislation concerning digital records entrusted to the Internet.**

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# Issues linked to the Internet environment

- Authenticity, reliability, accuracy: trustworthiness
- Use, reuse, remix, repurposing
- Ownership, authorship, creatorship
- Preservation of context(s)
- Retention and disposition
- Privacy, confidentiality, secrecy
- Transparency
  - Compliance, Audit, Chain of Evidence, Accountability
- Jurisdiction
- Ethics



# ITrust Research Questions

- How can an organization maintain **governance** upon the records entrusted to the Internet?
- How can an organization's **records accuracy, reliability, and authenticity** be guaranteed and verifiable?
- How can **forensic readiness** of an organization be maintained, compliance ensured, and e-discovery requests fully met?
- How can **confidentiality** of organizational records and data privacy be protected?
- How can an organization's records and information **security** be enforced?
- How can **open government** and **open data** be guaranteed?
- How can records be **preserved over the long term**?



# ITrust Theoretical Framework

- **archival and diplomatics theory**, in particular the ideas that are foundational to trusting records
- **resource-based theory**, in particular the technical, managerial, and relational capabilities for leveraging resources to maximize competitive advantage
- **risk management theory**, in particular the relationship between risk and trust, and risk management and trust management
- **design theory**, in particular the process whereby an image of the problem and of the solution emerges gradually in conversations among the parties, as a product of critical argument
- **human computer interaction**, in particular its knowledge of human cognition, technological capabilities, networking, and human computer engagement
- **digital records forensics theory**



# ITrust Research Methods

Research data result from

- a close **analysis** of the **services** offered on the Internet and of the **technology** that supports such services
- a study of **relevant law** and **case law, regulations** and **standards**,
- a combination of **surveys** and **interviews** of Providers and existing Users of Internet services; and
- **case studies** and **general studies**.

These data are analysed through

- **Activity and entity modeling**, which enables understanding of the situational realities and work processes before and after modifications have been introduced to address problems.
  - To prepare a reference baseline, we are working with the Object Management Group (OMG) to develop a UML international model of Preservation As a Service for Trust (PAST) detailing all the functional requirements that providers must respect.



# ITrust Research Methods (cont.)

**Archival and diplomatic analysis**

**Digital records forensic analysis**

**Textual analysis**

**Visual analytics.**

**Comparative analysis of results** of the various teams to generate a theory of trust in cloud environments that transcends national and jurisdictional boundaries

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# ITrust Research Alliance

- The International Alliance comprises 7 Teams:
  - North America
  - Latin America
  - Europe
  - Asia
  - Australasia
  - Africa
  - Transnational Organizations
- Supporting Partners
- Pro-bono Consultants

**Total : 300+ researchers in 35 countries  
...and growing**

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# ITrust Research Focuses

The focus is determined by the primary research question of the study

## Domains

- Infrastructure
- Security
- Access
- Control
- Legal Issues

## Cross-Domains

- Terminology
- Resources
- Policy
- Social/Societal Issues
- Education



# Research Working Groups (RWG): Infrastructure

## Infrastructure

- Sensors in the Cloud (NA07)
- Contract Terms for Cloud-Based Record Keeping Services (NA10)
- International Reporting Program Creative Commons Content Archives (NA19)
- Ensuring Trust in Storage in Infrastructure-as-a-Service (IaaS) (EU08)
- Trusted Certification Based on Long-Term Preservation of Digital Archival Resources (AS03)
- Managing records in networked environments using EDRMS applications: Rand Water (AF02)



# RWG Control

- Research of Retention and Disposition Processes in an Internet Website of the Government of Israel: The Ministry of Foreign Affairs as a Case Study (EU01)
- Models for Monitoring and Auditing of Compliance in the Flow from Registration to Archives in e-Register (EU05)
- Evaluating Metadata Description Schemas of the Cultural Heritage Organizations in Electronic Environments for Interoperability (EU07)
- Comparative Analysis of Implemented Governmental e-Services (EU09)
- ITrust and Benefits Realization Management (EU14)
- Analysis of the Interoperability Possibilities of Implemented Governmental e-Services (EU15)
- Model for Trustworthy Records Management of the Statement of Offence: The Case of the Belgian FPS of Employment (EU16)



# RWG Control (cont.)

- Retention and Disposition in a Cloud Environment (NA06)
- Preservation as a Service for Trust (PaaST) (NA12)
- Metadata, Mutatis Mutandis – Design Requirements for Authenticity in the Cloud and Across Contexts (NA16)
- Model for a trusting hybrid records management of the statement of offence at the City of Quebec and City of Montreal (NA21)
- Archival Arrangement and Description in the Cloud (NA22)



# RWG Control (cont.)

- Preserving and managing records' life-cycle in a multi-provenance government digital environment (LA01)
- Policies for government records produced and maintained by IFAI (LA02)
- Regulations for Federal Public Administration (FPA) Cloud Data Storage (LA03)
- Open Data and Open Government in Latin America (LA05)



# RWG Control (cont.)

- Responsibility Chain of Records Management and Preservation in Cloud for Local Governments in China (AS04)
- Enterprise business records management in the cloud (AS05)
- Digital Certificates in e-Government in China (AS09)
- IFRCjobs Case Study - A SaaS Recruiting Tool (TR02)
- User Perspectives of Trust (AA02)



# RGW Security and Access

## Security

- Standard of Practice for Trust in Protection of Authoritative Records in Government Archives (NA03)—testing phase
- Assessment of Privacy-Preserving and Security Techniques for Records Management in Cloud Computing (NA18)
- The Use of Cloud Services for Records Management in International Organizations (TR01)

## Access

- The Implications of Open Government, Open Data, and Big Data on the Management of Digital Records in an Online Environment (NA08)
- Patents and Trust – From Traditional to Online Environments (NA13)



# RWG Access (cont.)

- The role of the Records Manager in an Open Government Environment in the UK (EU03)
- The Role of the Archivist and Records Manager in an Open Government Environment in Sweden (EU11)
- The role of the records manager / records management in an open government environment in the UK: the National Health Service (EU19)
- Ensuring Trustworthiness of the Agent of Public Trust in China (AS02)



# RWG Legal Issues

- Developing Model Cloud Computing Contracts (NA14)--progressing
- Identifying Privacy Concerns and Attendant Issues in Cloud Computing (NA15)—progressing
- Policies, legislation, regulations, and standards for RM in the cloud (AS06)



# RWG Cross-domains

## **Terminology**

Core Terminology for InterPARES Trust (NA01/All Teams)

## **Resources**

Open Government Data Literature Review (EU02)  
Economic Models for Cloud Storage - A Critical Review of the Literature (EU18)

## **Education**

Curriculum Alignments at Institutions of Higher Learning in Africa: Preparing Professionals to Manage Records Created in Networked Environments (AF01)

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# RWG Policy

- Digital Preservation in the Cloud (AA01)
- Establishing Retention and Disposition Specifications and Schedules in a Digital Environment (NA09)
- Plurality and Policy: Designing for Trust in the Digital Age (NA17)
- Policies for Recordkeeping and Digital Preservation: Recommendations for Analysis and Assessment Services (EU04)
- Girona City Council in the Cloud: Do we really work in the Cloud? (EU06)



# RWG Social Issues

- Putting the 'Fun' back in 'Functional' (NA04)
- Social Media Use in Government (NA05)
- Historical Study of Cloud-Based Services (NA11)
- Role of Cyber Tools and Social Media in the Development of the Ukraine Crisis (NA20)
- Records in the Cloud survey in Mexico and beyond (LA04)
- Social and Ethical Foundations of Preservation of Digital Historical-Cultural Heritage (EU12)
- The Materiality of Records and Attributes of Trust (EU13)
- Security Awareness of Record Managers in Korea (AS01)
- Exploration of electronic records' authenticity: social awareness (AS08)
- Disclosure of Chinese Government Information (AS10)



# Expected Outcomes

- **new knowledge** on digital records maintained online and accessed from all sorts of fix and mobile devices
- **shared methods** for identifying and protecting the balance between privacy and access, secrecy and transparency, the right to know and the right to be forgotten
- **legislative recommendations** related to e-evidence, cybercrime, identity, security, e-commerce, intellectual property, e-discovery and privacy
- **a model policy and a model international statute** specific to the Internet and recommendations for each government's continued development of its current fleet of uniform statutes.



[www.interparestrust.org](http://www.interparestrust.org)

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