



# **InterPARES 3 Project**

**International Research on Permanent Authentic Records in Electronic Systems**

## **A New Business Model through Certified e-Document Authority**

**Barcelona, Spain, October 5, 2011**

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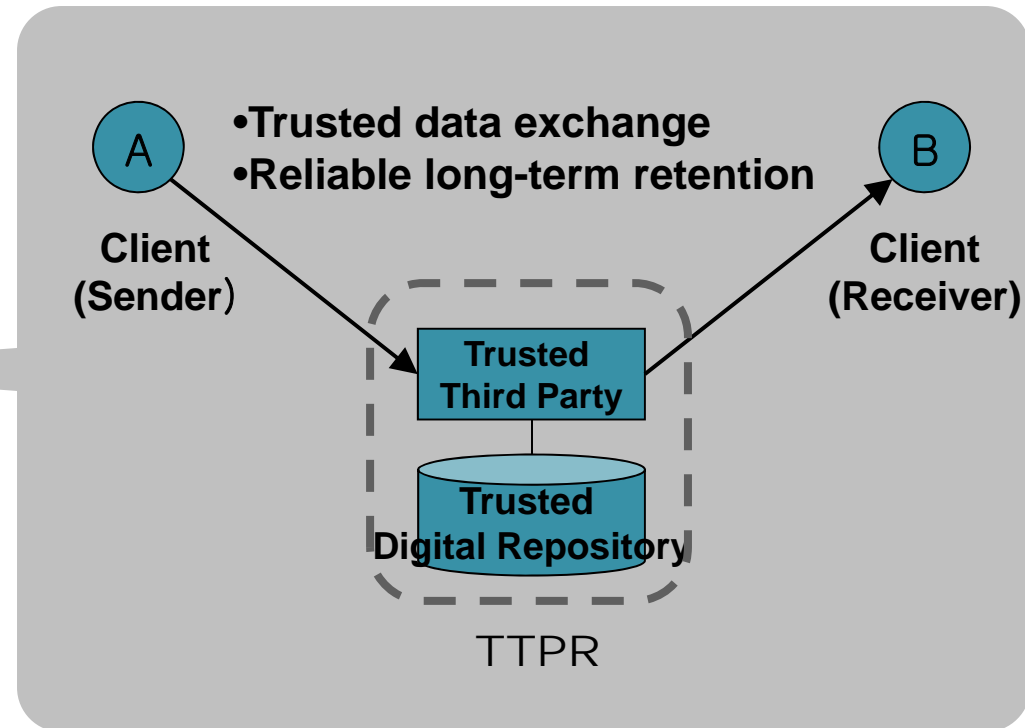
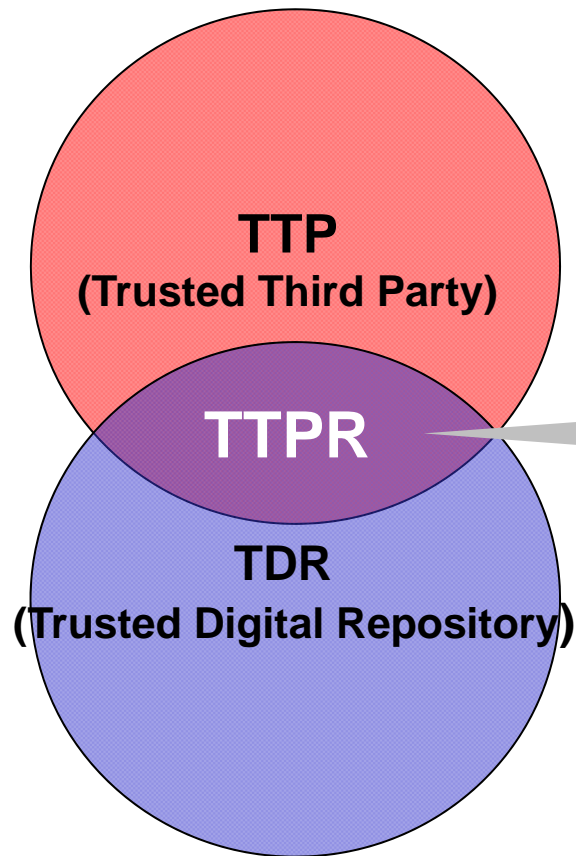
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# Agenda

- InterPARES 3 Project Team Korea Case Study
- Concept of trusted 3rd party digital repositories
- Data collection and analysis
- Roles of CeDA
- A new business model of trusted 3rd party digital repositories
- Contributions

# Concept of TTPR

- ◆ 'Trusted Third Party Digital Repository' (TTPR)?



# Why TTPR?

- Ensuring the authenticity, reliability and integrity of electronic records and documents is important in the digital age.
- Building trust between electronic record and document exchange parties is necessary across all sectors and industries.
- Installing TTPR is possible with supporting security and preservation technologies.
- Korean TTPR is called as Certified e-Document Authority (CeDA) sites.

# Data collection: Interview

1. Interviews with 3 groups of professionals:
  - Records creators
  - Records managers
  - Records users – employees
- Interview questionnaire:
  - Records questions
  - System questions
  - Policy questions

# Data collection: Supporting Documents

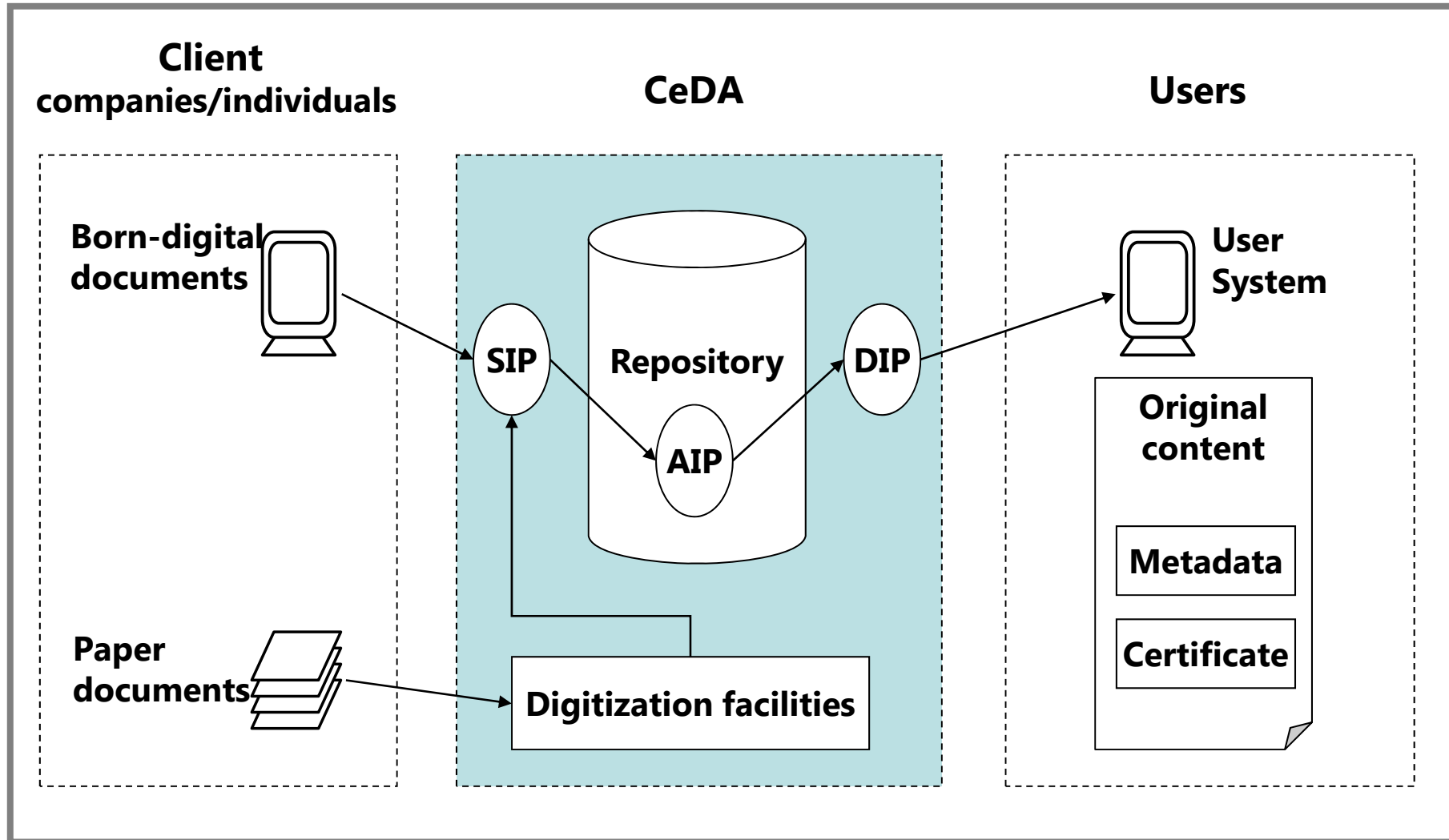
## 2. Relevant Documents

- Institution's mission statement and annual reports;
- Publicly available documents related to the system;
  - System manuals;
  - User guides.
- Other written materials generated by the institution;
- Additional comments made by the interviewee

# Features of CeDA

- Governed by Korea Government as Official repository.
  - Established relevant regulations;
  - Evaluating potential candidates for the CeDA;
  - Approving CeDA sites; and
  - Setting up technical standards and guidelines.
- Operated by private sectors
  - 8 commercial service provides

# Workflow of CeDA



# Legal Support

1. Digitized copy: digitizing from paper documents to electronic documents;
2. Endowing digitized documents with legal authority;
3. Electronic documents have the same legal enforceability and effectiveness as paper documents.

# Roles of CeDA

## 1. Archiving born-digital and digitized documents

- Digitizing paper documents into digitized documents
  - Adding time stamping
  - Adding metadata to original information into a package
- Ensuring legal authority of all retained documents for electronic transaction and exchange;

# Roles of CeDA

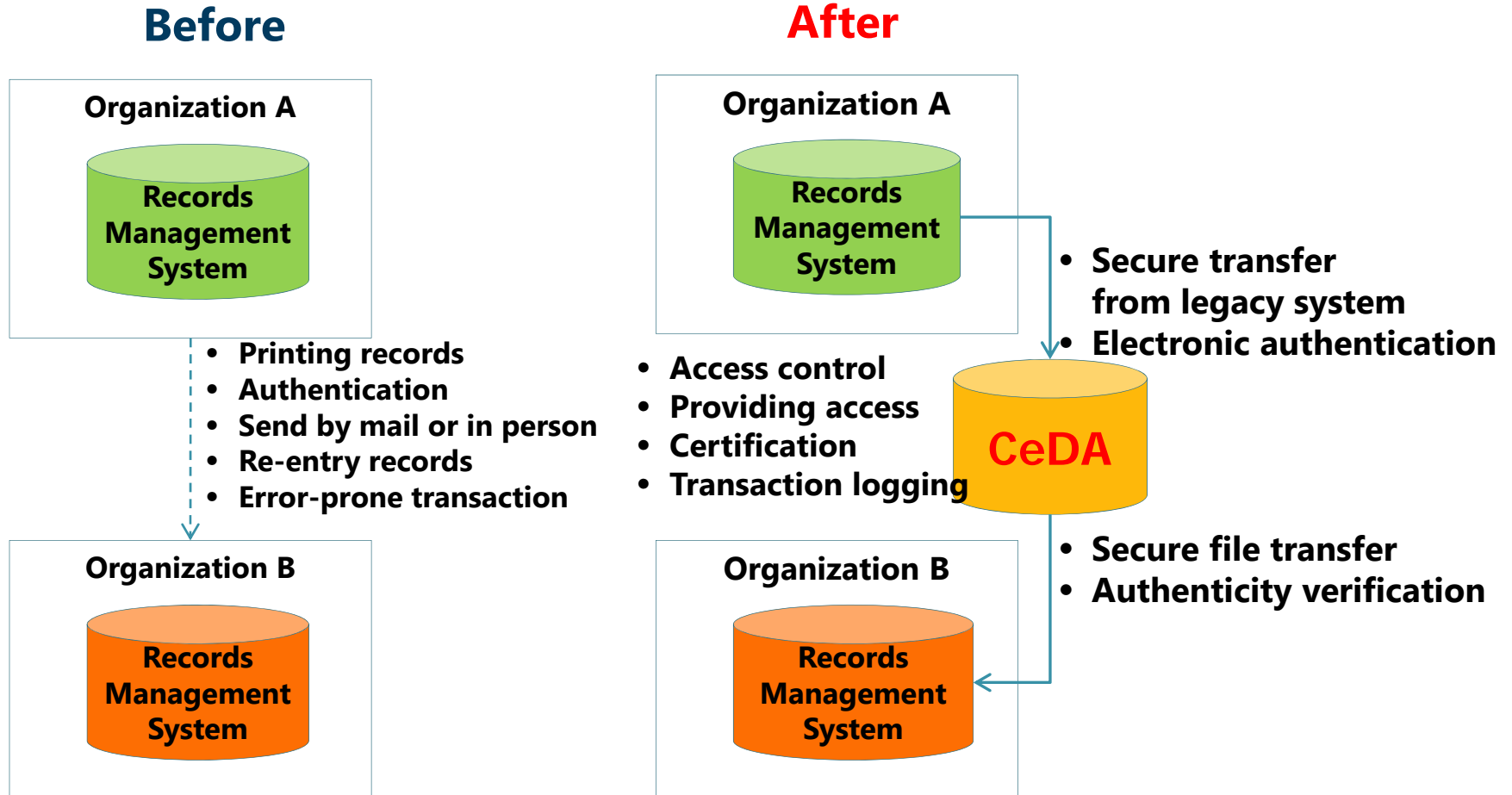
## 2. Certifying the retained electronic documents

- Validating that CeDA retains authentic documents
- Certificate of digital documents, including:
  - Creator information
  - Registration information
  - Authenticity information
  - Access history
- Validating the issued certificates

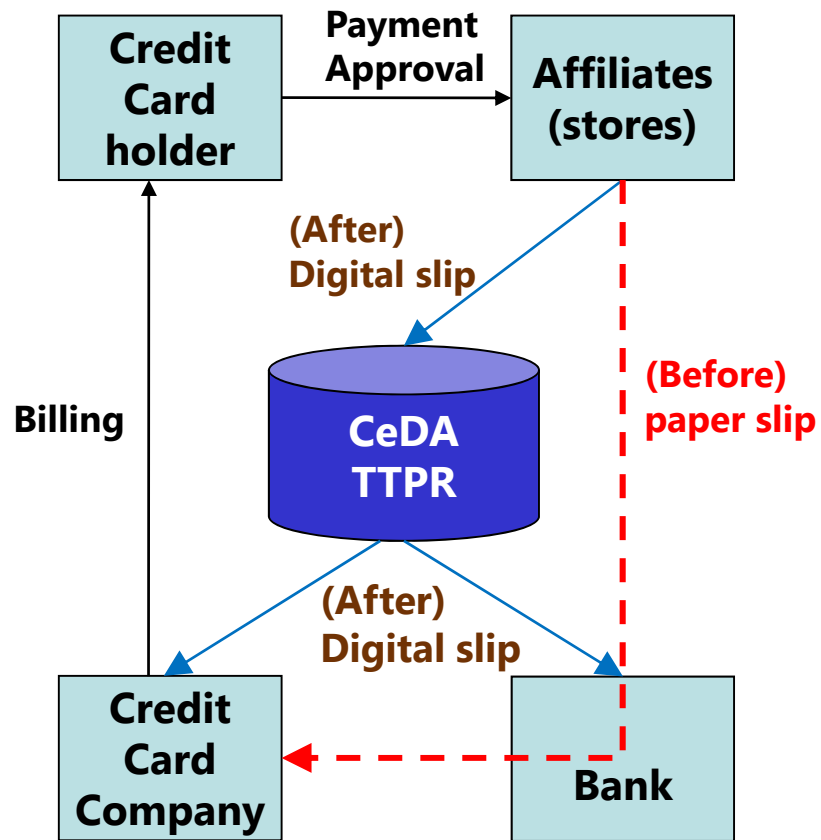
# Roles of CeDA

3. Working as a secure channel of electronic document exchange between clients (senders) and the designated partners (receivers)
- When CeDA can be integrated with records management systems of the organizations for secure transfer,
    - it collects outbound documents from the organizations.
    - Documents are stored and accessed in CeDA.'s repository.

# Inter-organizational Documents Exchange



## Paperless Credit Card records



Example in  
Credit Card  
Transaction

# Contributions

- In order to ensure the authenticity, reliability and integrity of electronic documents and records by establishing:
  - Legal requirements – acts and regulations
  - Technical specifications – facility and equipment requirements; and
  - Operational procedures – procedural guidelines.

# Contributions

- CeDA provides access control to the retained documents, certification on the documents. It logs all the transaction history for auditing.
- CeDA enables to ensure secure transfer and exchange without risks.
- CeDA can provide an opportunity to promote electronic commerce and improving business efficiency and speed.
- CeDA can build national infrastructure for electronic exchange and transaction based on trusted relationship between participants.