

Las Vegas 2009

Fifth International Forum on  
E-notarization and E-security



## THE PAPERLESS AGE

NEXT THING WE NEED: LONG  
TERM ARCHIVING SYSTEMS

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Every year Italian Civil Law Notaries  
produce millions of digital documents,  
that are sent to Public Registers  
(Real Estate, Companies Register)

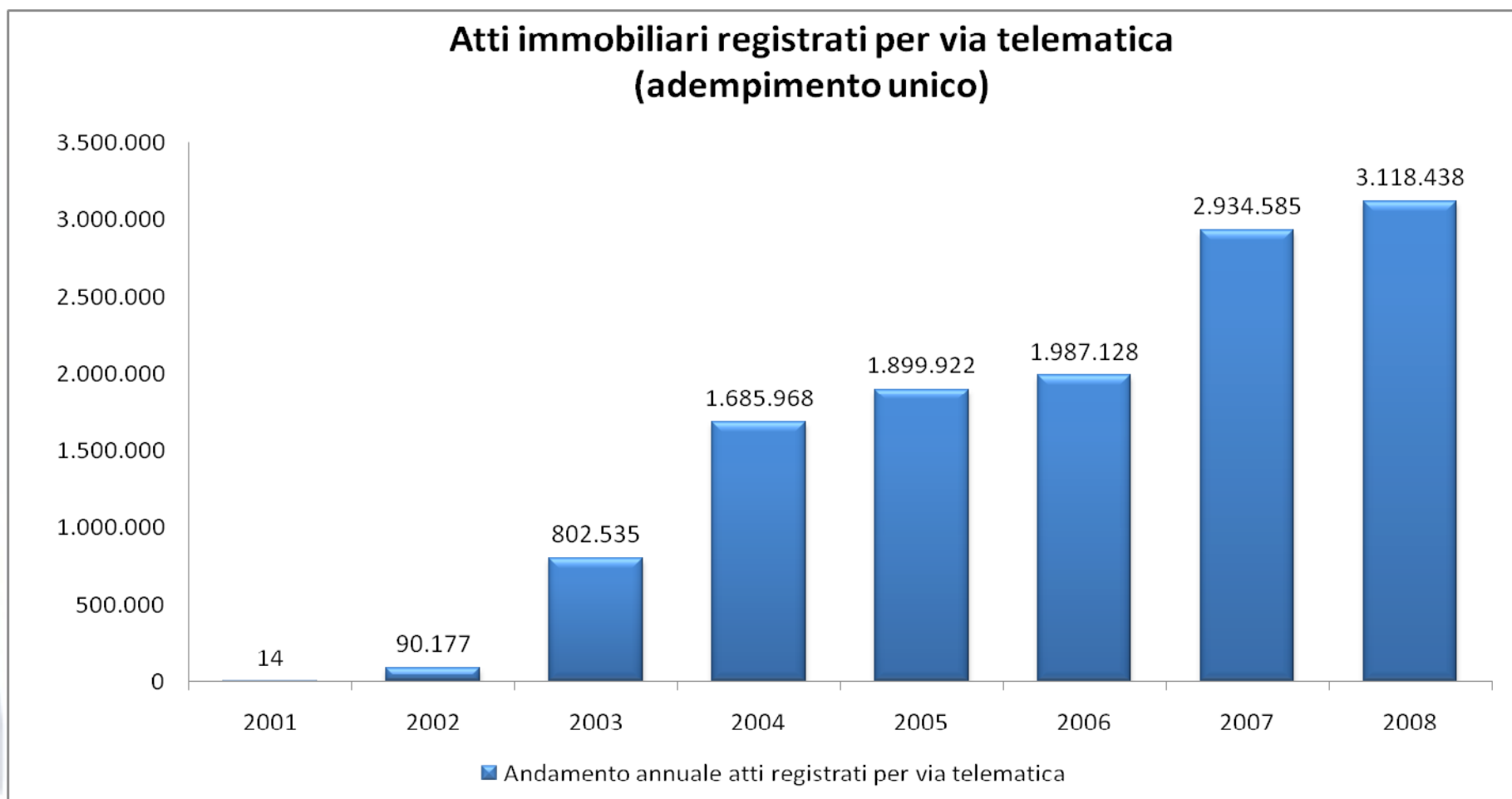
Let's see some figures

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## Real Estate Register

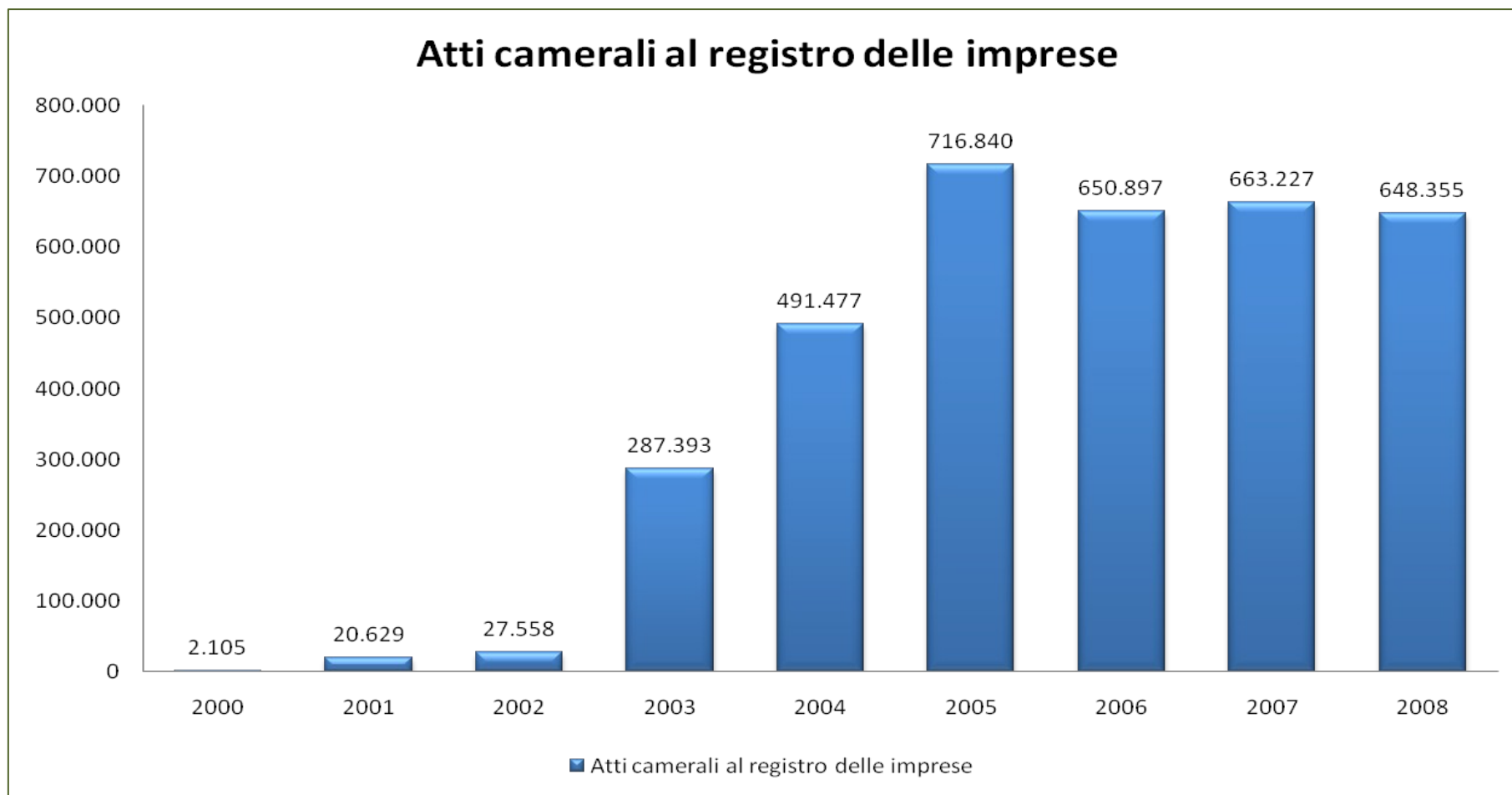


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## Companies Register



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To date, Italian notaries keep their own paper deeds in their offices until they quit. The local Notarial Archives then keep them for a further 100 years.

After this period, they are moved to the National State Archive

But archiving digital documents is not as simple as paper documents

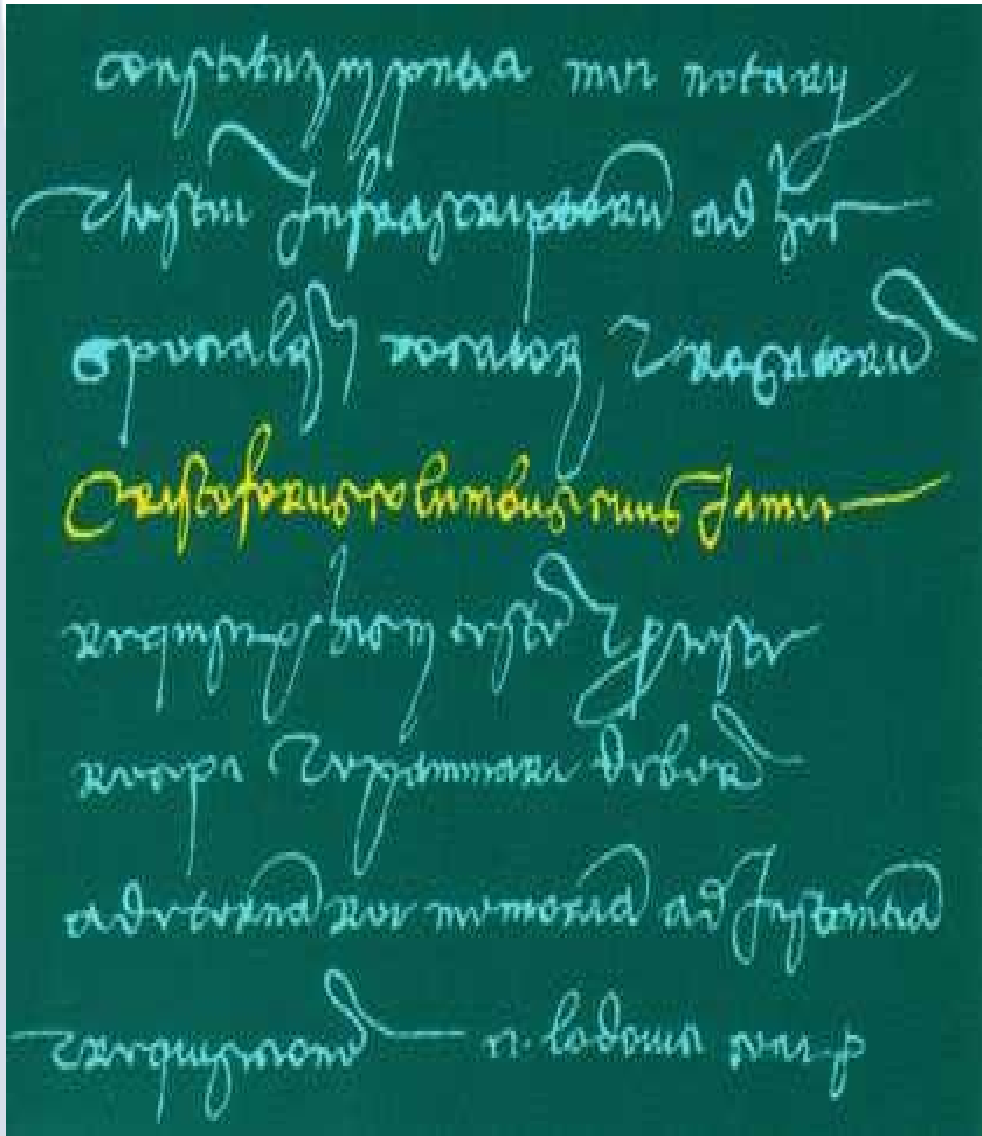
# LTA FEATURES

A Long Term Archive Service (LTA) must:

- assure the integrity of the stored documents and provide evidence that data has not been altered (i.e. the document retrieved is the same as when originally stored)
- maintain readability and availability of recorded documents
- preserve authenticity of the documents, if signed

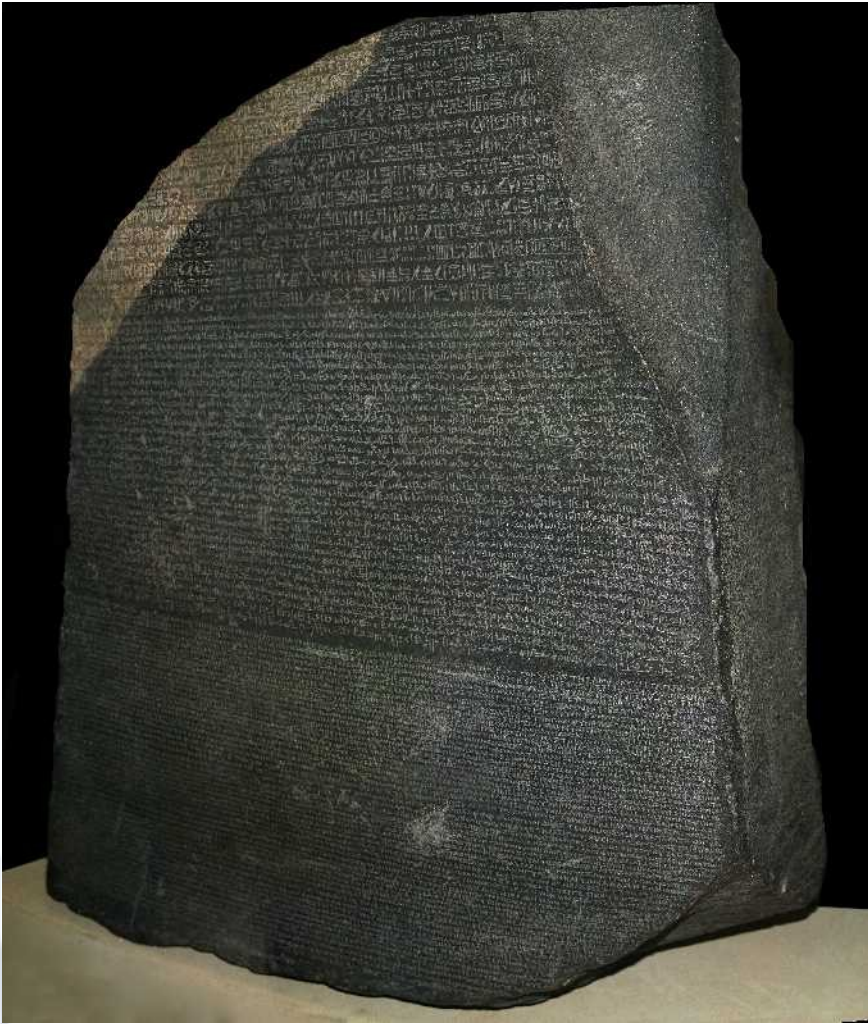


# HOW LONG A LTA MUST PRESERVE DOCUMENTS?



We need to save all our digital documents at least as long as the rights they grant are enforceable or for use as evidence in court

# PAPER vs. BITS



Electronic records do not have the same longevity properties as physical documents

As physical documents they can be harmed by fire, earthquakes, floods, that can destroy the media, but the N. 1 foe is

**OBSOLESCENCE**



# MAIN ISSUES

Obsolescence can destroy your archive because:

- formats of digital documents are not unique and often not standard
- of short durability of data media and changing formats of data stored into data media (e.g. file systems)
- of weakening of used digital signature algorithms: certificate expiration, improvements in computing speeds

# OUR LTA: AUTHENTICATION

## SISTEMA DI CONSERVAZIONE A NORMA

Sistema di conservazione a norma

**Avvisi:**

Conservazione a Norma: Piattaforma di Pre-Produzione

Inserire i parametri di accesso:

Nome Utente\*

sabrina\_chibbaro

Chiave accesso\*

\*\*\*\*\*

(\*) Campi Obbligatori.

Accedi

# ALLOW ONLY OPEN FORMATS

**CONSIGLIO NAZIONALE DEL NOTARIATO**

**SISTEMA DI CONSERVAZIONE**

**Menù**

Conservazione:  
- **Invio Plico**

Esibizione:  
- **Invio Ricevuta**  
- **Ricerca Plichi**

Documentazione:  
- **Manuale Utente**

Assistenza:  
- **Contatta Supporto**

Uscita

**Invio Plico**

**Caricamento del Plico**

Aggiungere i File

**E' possibile caricare ancora 10/10 file.**

**Ogni file può essere di 5000Kb. Dimensioni complessive del plico 0Kb/50000Kb.**

**Sono ammessi solo i file appartenenti ai seguenti formati: txt, rtf, odt, pdf, xml, jpg, gif, tif, p7m**

**CREDENZIALI**

Utente: *sabrina\_chibbaro*

Ruolo: *Notaio*

ERITATIS

# RETRIEVE AND READ

CONSIGLIO  
NAZIONALE  
DEL  
NOTARIATO

SISTEMA DI  
CONSERVAZIONE A NORMA

## Ricerca Plichi

### Dati della ricerca

Data da: 02/ 01/ 2008





Data a: 02/ 05/ 2009

Aggiorna

Plichi attualmente in lavorazione per la visualizzazione successiva

Nessun Plico.

### Risultato della ricerca

Id Plico	Stato	Data Ricezione	Data Validazione	Download Ricevuta	Visualizza Plico
1921	CONSERVATO	03/03/2009 11:45:52	03/03/2009 12:16:11		
702	CONSERVATO	06/05/2008 13:40:33	06/05/2008 18:54:42		



# OUR POLICY IN TEN ITEMS

Our LTA:

- checks that the format of every uploaded file is one of those allowed
- generates a manifest (XML) that includes the list of every file in the folder, their hashes and metadata
- signs and timestamps every manifest
- sends a receipt with the manifest attached





- lets you perform a text-based search among your archived docs
- lets you read your archived docs even if you haven't got a proper reader
- if needed, releases copies of archived docs along with a notarial certification pertinent to the integrity and authenticity of the document
- periodically renews the time stamps



- runs checks every five years on the storing media and readability of formats
- if needed, periodically performs migration of the archived documents in newer storage media or in a newer format: in this case, original signed documents are saved to allow verification of signature in the future

**THANKS FOR YOUR ATTENTION!**

***SABRINA CHIBBARO***

Civil Law Notary in Milan

Member of IT Committee of Consiglio Nazionale del  
Notariato (Rome)

Member of the New Technologies Working Group at  
CNUE (Conference of the Notariats of the European  
Union – Brussels)

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