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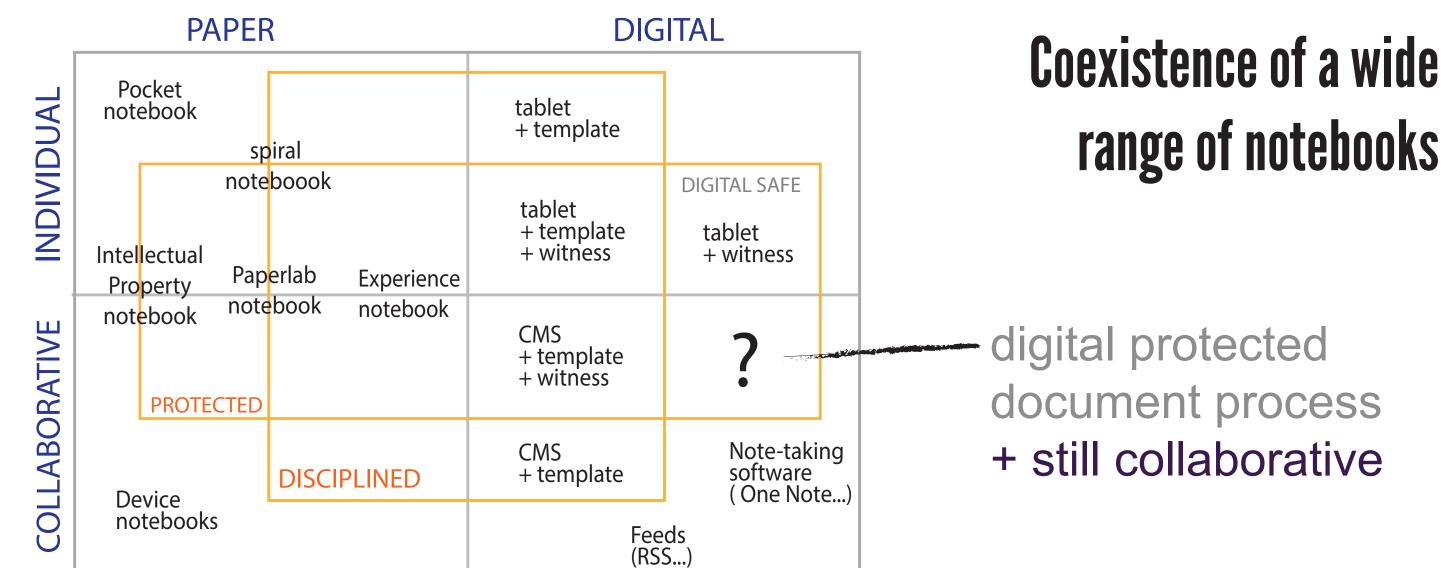
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# Authenticity in a Digital Era: Still a Document Process

The Case of Laboratory Notebooks

Intellectual property management is a nightmare for researchers and innovators Risks are everywhere DAYS ORPER LCIT !! FRON STUDENT

State of the art (Four sets Carroll diagram) of laboratory notebooks artifacts [interdisciplinary studies from CSCW, CHI, ...]

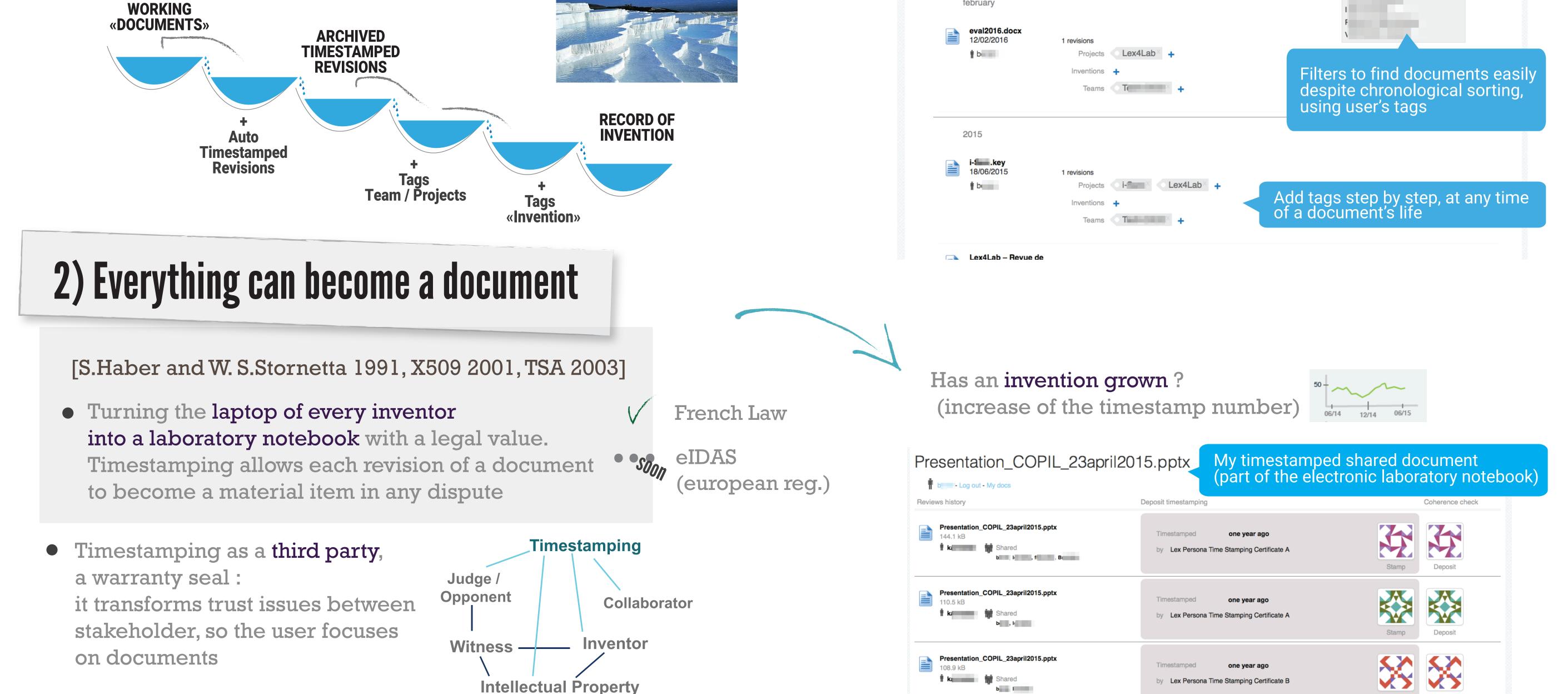


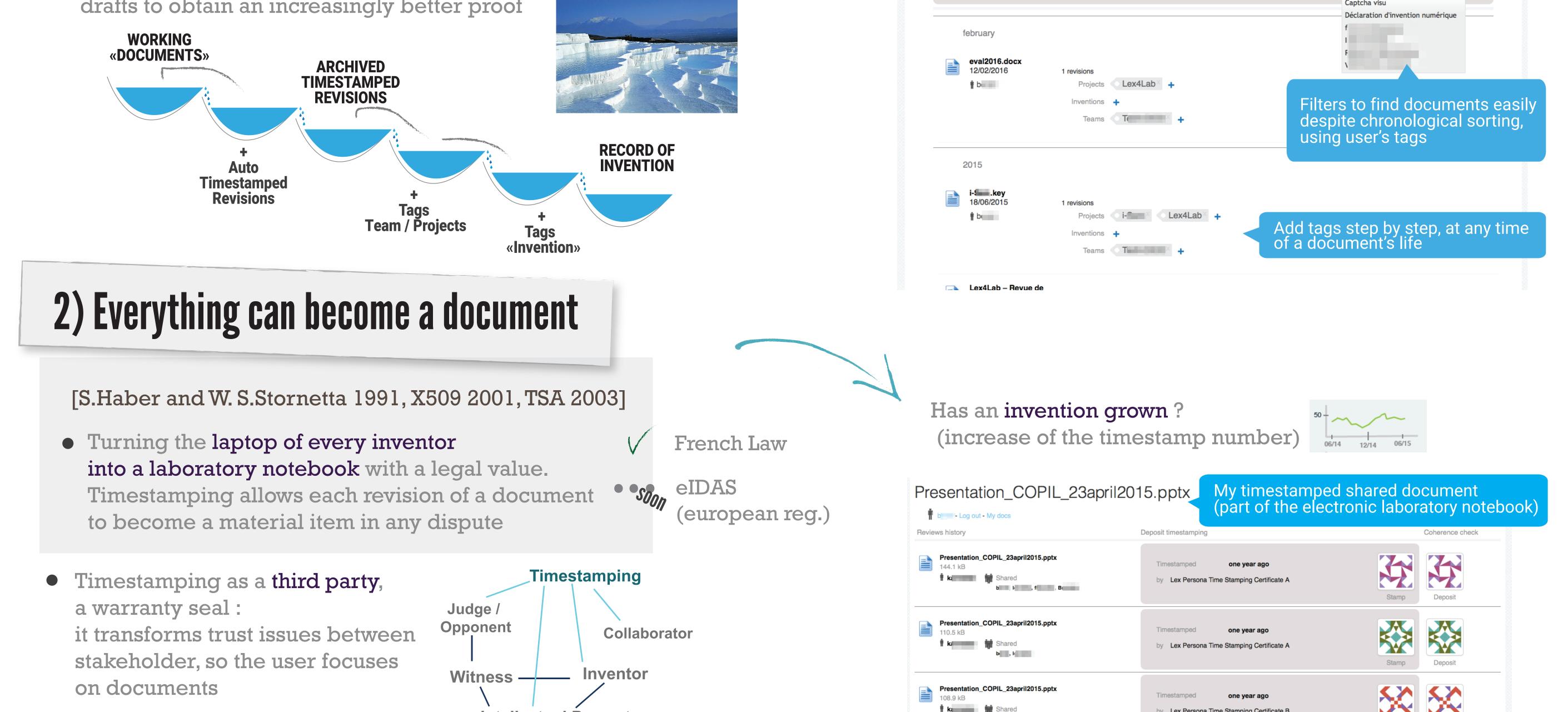
# Paradigms from Document Theory to design LeX4Lab

for intellectual property management

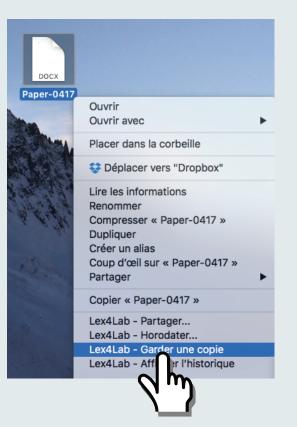
## 1) Becoming a document is a process

#### [S.Briet 2006, M.K. Buckland 1997, Caya 2004, Y.Pérotin 1966, M.Zacklad 2006] Document's preservation and description are processes : • standardized attributes (date, producers, and recipients) • adding heuristic attributes (such as tags) <-> gradually to help interpret these documents





#### electronic laboratory notebook

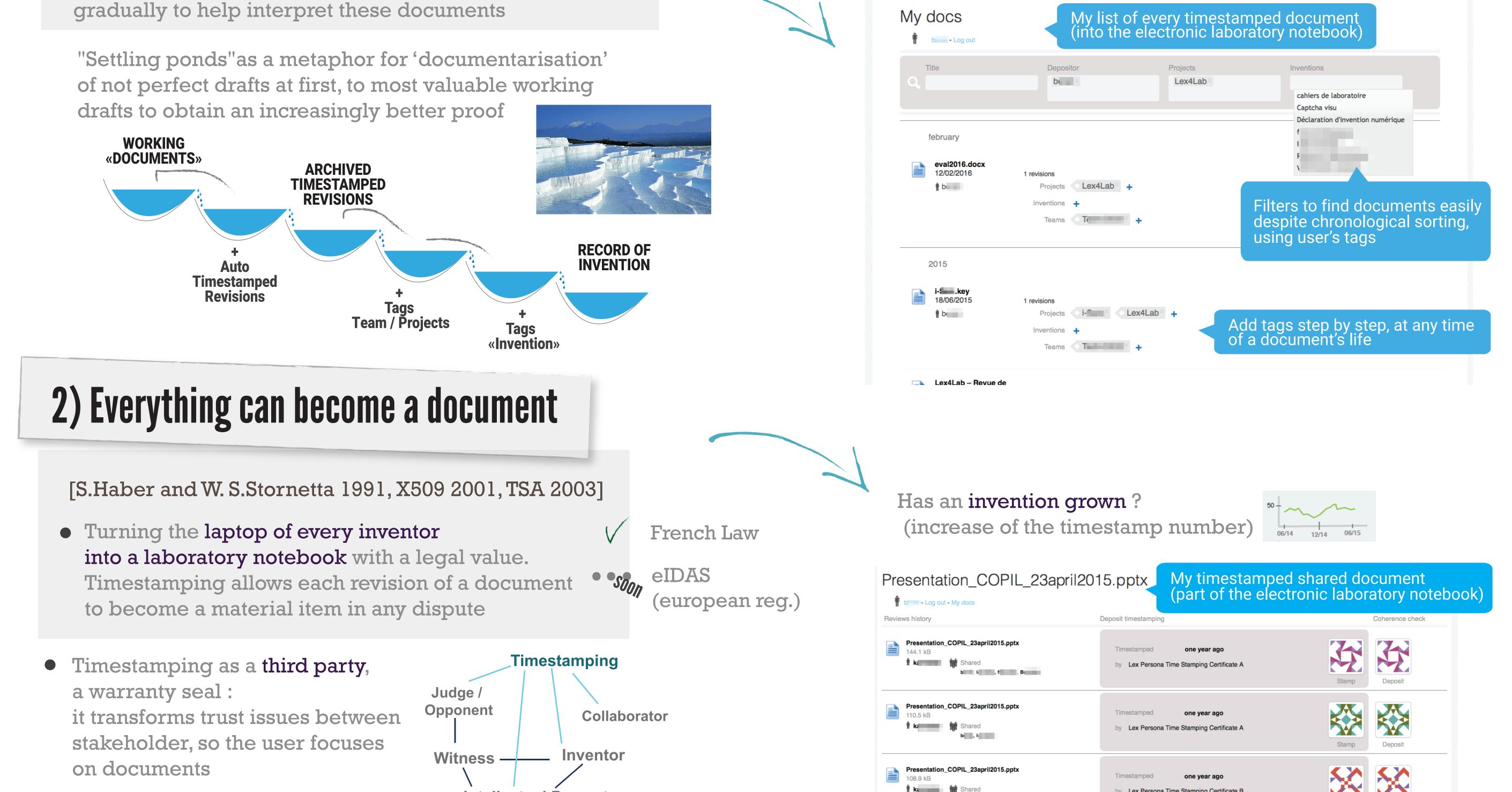


"One click" feature From a working draft to the electronic laboratory notebook On any digital file, timestamping related actions : share, timestamp, see history ...



tosi.eu/demoL4L

#### Complete list of timestamped documents [Lex4Lab screenshot]



#### development

### 3) A document is a shared reference

- No duplication
- The user can maintain his own file management Remaining context and linking information
- Documents are timestamped in all exchanges email invitation link like well-known cloud platforms)
- No risk to contribute to a shared notebook !

Revisions of my document (automatic or manually timestamped), and all reviewers.

Visual check of timestamping. No one revision can escape from a fast check by someone. An authenticity issue should be easily spotted.

History of a document shared and reviewed between several actors, in one's laboratory notebook [Lex4Lab screenshot]

> **KEYWORDS DOCUMENT SYSTEMS AND WORKFLOWS** SECURITY AND PRIVACY **USER EXPERIENCE COLLABORATIVE AUTHORING AND EDITING DIGITAL ARCHIVING**

**DocEng 2017 - Malta** 

Testing -2015 to 2017 🔺 📥 📥 📥 **Researchers, research engineers, and PhD students** 

The most sensitive documents (with respect to intellectual property considerations)

The most shared and the most described documents in the electronic notebook Lex4Lab