

# ITALY DAY

## ABSTRACT TABLE OF PROJECT PROPOSAL

**PROJECT Nr. 22**

**SECTOR:**

We are an academic spin-off of an Italian University that provides state-of-the-art technologies and know how in the ICT sector of automatic processing of digital files and cursive handwriting recognition.

**PROJECT IDEA IN A  
HEADLINE:**

“Modeling handwriting for building reading machines”

**INNOVATIVE POINTS:**

Our products rely upon an innovative, one-of-a-kind technique (on which there are two pending patents) that doesn't use default models of characters or words. Despite the other systems marketed today, this technology allows to read words not included in a default dictionary requires a training set composed of few known words. Moreover, the versatility of the technology allows us to develop customized applications in a short time and with a low cost.

**POTENTIAL BUSINESSES AND  
APPLICATION FIELDS:**

Handwriting analysis and automatic reading of handwritten documents provides a valuable help in several research and application fields, such as:

- digital justice and historical documents: for management, search and indexing of digitalized handwritten documents;
- forensics: for automatic examination of handwritten documents;
- automatic reading of handwriting in documents written by multiple writers: mail sorting, form reading.

**CHARACTERISTICS OF POTENTIAL  
PARTNERS:**

The potential partners are first of all system integrators companies providing fully automatic documents handling and postal automation systems. The objective of the potential collaboration is to integrate our technology in existing or future platform. Other potential partners are public or private corporation that have already digitalized their paper archives and want to test our technology on their set of documents.

**EU PROGRAMMES TO  
PARTECIPATE:**

FP/ Horizon 2020

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### **BRIEF PROJECT DESCRIPTION:**

The idea arises from the fact that the paper documents digitalization is becoming a key requirement and so there is the need of easily using and quickly finding the interesting documents in huge digital archives.

We offer three different products :

- Nr. 1: for management, search and indexation of documents in paper archives previously digitalized;
- Nr. 2: for forensic documents analysis;
- Nr. 3: product for automatic handwritten cursive recognition in only partially structured documents and written by a great number of different writers.

The idea is the result of a research experience of more than twenty years and is based on an innovative technology for automatic handwritten cursive documents reading, which is in advanced development stage and it needs for a prototyping step. Real capabilities of the technology are compared with those of current market leader systems.