

ITALY DAY

ABSTRACT TABLE OF PROJECT PROPOSAL

PROJECT Nr. 14

SECTOR:	Assistive technologies – E-inclusion – Deaf people
PROJECT IDEA IN A HEADLINE:	ATLAS: Automatic Translation from written text into sign Languages
INNOVATIVE POINTS:	<ul style="list-style-type: none">• Automatic Translation of written Italian text into Italian Sign Language (LIS)• Visualization on different media via virtual characters
POTENTIAL BUSINESSES AND APPLICATION FIELDS:	<ul style="list-style-type: none">• Delivering of new services for deaf people: in addition to written texts, signing virtual characters can be used to improve deaf people inclusion
CHARACTERISTICS OF POTENTIAL PARTNERS:	<ul style="list-style-type: none">• SMEs interested in introducing new services• Research Centers interested in Sign Language linguistics• Public services (e.g., railway stations, airports, ...) interested in delivering new services to their deaf customers
BRIEF PROJECT DESCRIPTION:	<p>The tangible objective of the project is the development of an automatic translator able to translate text from natural language into the corresponding sign language. Both rule-based and statistical translations are exploited and integrated.</p> <p>The source text is first translated into a newly defined intermediate form, which corresponds to a formal written representation of the corresponding sentence in the target sign language.</p> <p>Proper commands to drive a virtual interpreter are then generated to visualize the signed sentence on several media, including smart phones, DVBTs, web, etc.</p> <p>Virtual characters' features are freely selectable by the users.</p> <p>On-line dictionaries from spoken languages to sign languages are provided, as well.</p>