Piattaforma Fabbrica Intelligente - Regione Piemonte

Progetto "HuManS" Human centered Manufacturing Systems















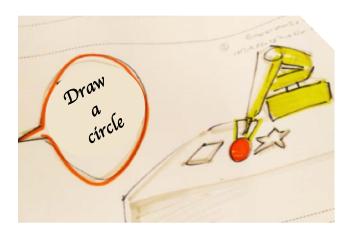


Automatic work-space

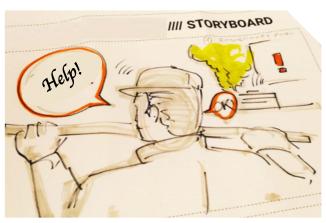


Collaborative work-space

Macro-level interaction



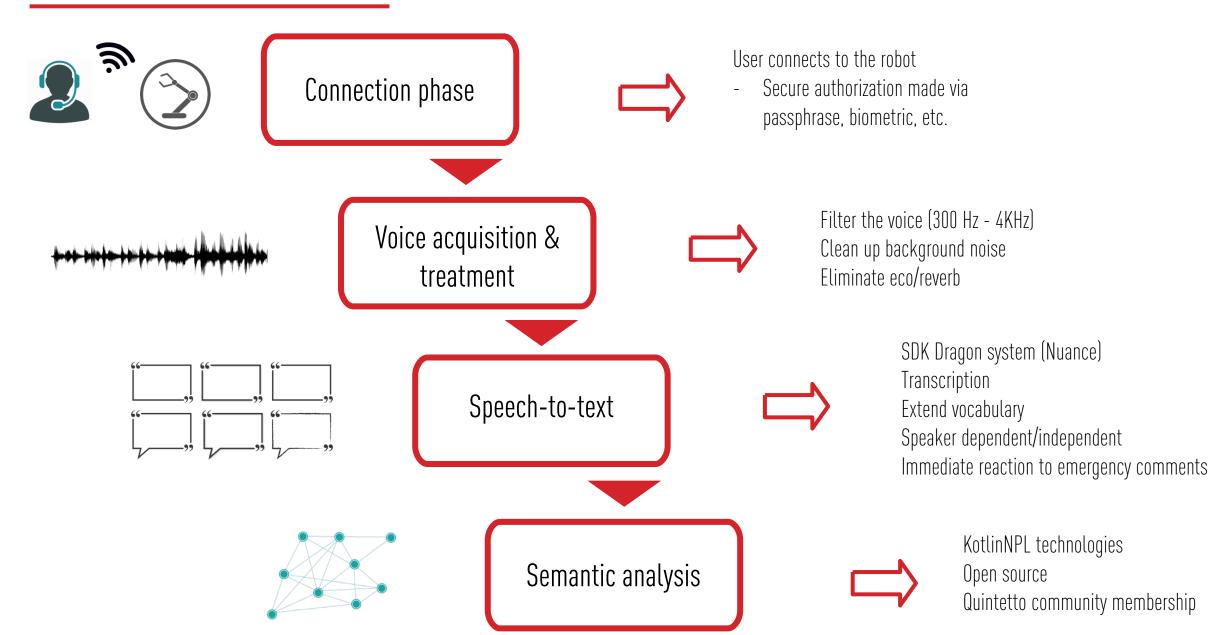
Collaboration request



Emergency situation

THE INTERPRETATION PROCESS





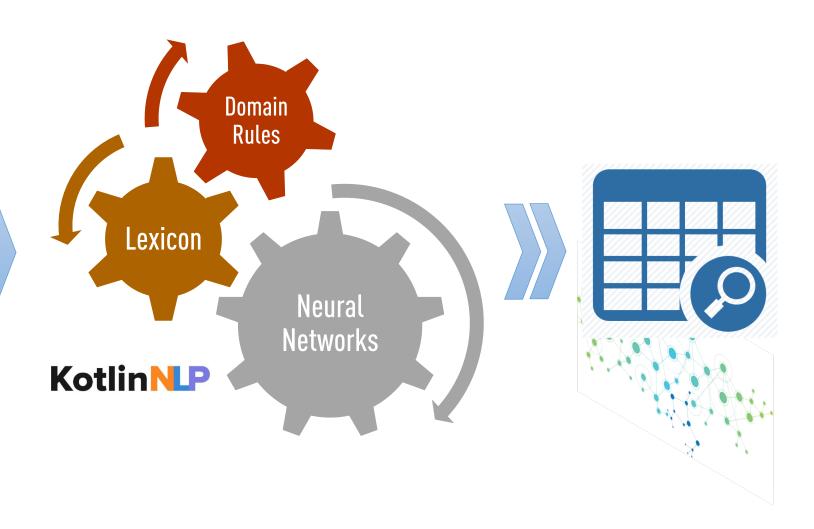


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Morphology

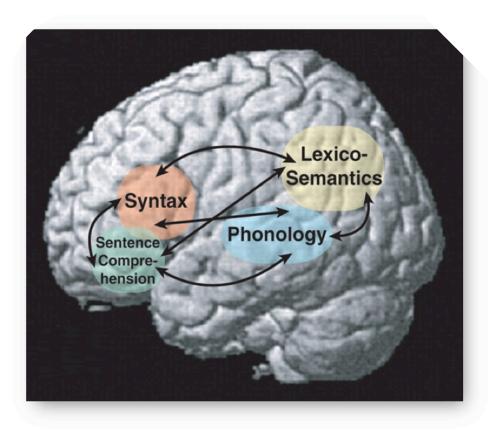
- Part-of-speech tags (noun, verb, adjectives, ...)
- Grammatical properties (gender, number, mood, tense, case ...)
- Lemmatization (e.g. Spostalo → Spostare + Lo)

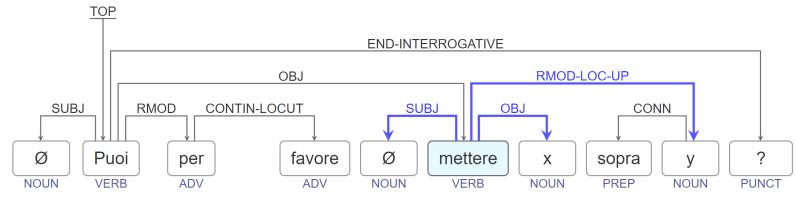
Syntax

- Syntactic dependencies (subject, object, complements)
- Subordination and Coordination

Semantic

- Semantic roles (Agent, Instument, Cause)
- Entities (object, locations, places, persons, ...)
- Frames (time, movement, ...)





SEMANTIC ANALYSIS TO COMMAND INTERPRETATION



Semantic Analysis Stable

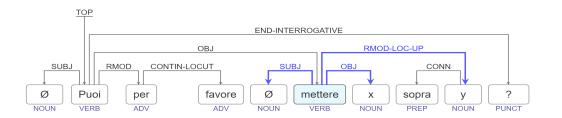
Reasoner

Work in progress

Command Builder (Execution string for RACER 3)

Planning phase soon

Command acknowledgment



```
((LASCIARE ?X SOPRA ?Y)
  :preconds ((?x stare-in ?z) (non ?* stare-sopra ?y) (?z messo-sopra ?y))
  :remove ((?x stare-in ?z) (?z messo-sopra ?y))
  )
```













Connection
Voice acquisition & treatment
Speech-to-text
Semantic analysis



Perform execution



Transcode from human to machine language





Founded

2005

Aosta Valley

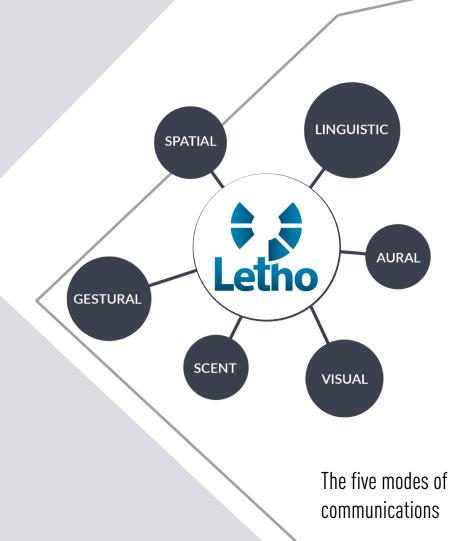
Originally founded as an R&D company having received millions of Euro's in grants for their excellence resulting in Quintetto solving complex technical challenges for their customers.

Transformation

2017

To a pro-active global sales organization

Quintetto is growing rapidly in terms of revenues, employees and new customers. A renewed focus on multimodality, mixed reality and real-time audio/video services.



We develop today what everybody will use tomorrow



Thank you for your Attention!

For further information please contact: Giovanni Iamonte

iamonte@quintetto.it

Mob: +39 393 9196310