### DEFENCE AND SPACE

# HLT

Human Language Technology

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## Human Language Technologies

Airbus Defence and Space has been developing for more than 15 years an expertise in HLT for its Defence and Security customers. Be it through its own capabilities or partnering with state of the art start-ups, labs and SMEs, language-related challenges can be solved.

Thanks to advanced techniques using Artificial Intelligence and automatic processing, operators have a better understanding of their linguistic environment. This helps reduce risks, prevent threats and manage complex international situations.

*	← Processing result	R			n ±	AIRBUS	Voice Command Detection	
۹ ۲	Metadata	v	< [EN]	English				
0	Analysis data	~					Transcription Natural Language Understanding Spoken Language Uni	Jerstanding
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Tra	Franscription and translatation platform						nd and Control	



#### **Key Features**

- Text-To-Speech (TTS)
- Speech-To-Text
- Speech-To-Speech (translation in various languages, including rare dialects)
- Automatic Speech Regonition (ASR)
- Text processing (NER, text classification, sentiment analysis, fake news detection,...)
- Speaker Identification (SID)
- Machine Translation (MT)
- Real-time audio transcription
- Optical Character Recognition (OCR)
- Automatic processing of digitised handwritten or typewritten documents

#### **Key Benefits**

- Robustness to noisy environments
- Robustness to accented languages and spelling mistakes
- Interfacing with existing solutions from 3rd parties and information systems from customers
- Easy deployment on the field (compact system in transport cases)
- · Easy to use with minimal training

#### **Typical Use Cases**

#### Defence

- Support to COMINT, HUMINT and OSINT systems (i.e. communication with local populations,...)
- Command and Control systems: virtual/vocal assistant on the battlefield

#### Security

- Translation for emergency management (medical support, multinational crisis....)
- Translation for border control
- Translation/Transcription for police questioning

#### **Dual-use applications**

- Automatic transcription of Air Traffic Control communications
- Voice command control for non-critical systems
- Technical documents processing (maintenance, health,...)

#### **Airbus Defence and Space**

Australia, Brazil, China, Finland, France, Germany, Hungary, Singapore, Spain, United Kingdom, United States

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