

WIPO Translate updates

ATAC: Advanced Technology Applications Center

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Summary of WIPO AI-based Tools and Applications

AI="Deep supervised machine learning"

- **Text processing:**

- WIPO Translate
(Neural Machine Translation)

- Classification &
Transliteration*

- **Image similarity processing:**

- Image classification (logos)

- [Image-based search](#)

- **Speech processing:**

- Speech to text

- Search in video-audio

- Speech to translated text*

Disclaimer: Any machine translation or speech processing tool, including WIPO's, is NOT designed to replace the need for human intervention – It is just a “tool”, to aid humans in making their intervention more effective and efficient

* In development

Team: ATAC



Christophe (MT/Image)



Michal (MT/NLP)



Fellow(MT/NLP)



Daniel (MT)

Advanced Technology Applications Center



Bruno (MT/WipoLex)



Akshat (Speech)



Huseini (speech)

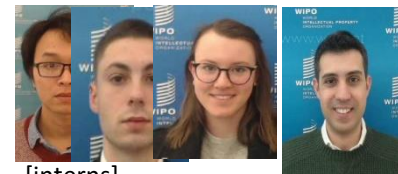
*Aim: Explore
machine learning
techniques in IP*



Claudio
(business/partnerships)



Ivo (Image)



[interns]
Ha/Laurie/Maxence/denis
(translated speech/
Chatbots/classification/CV
screening)

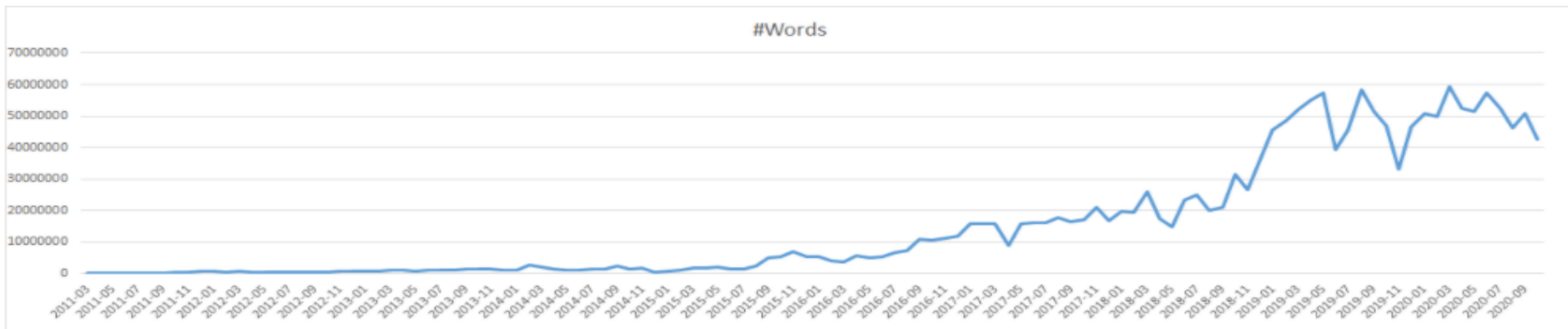
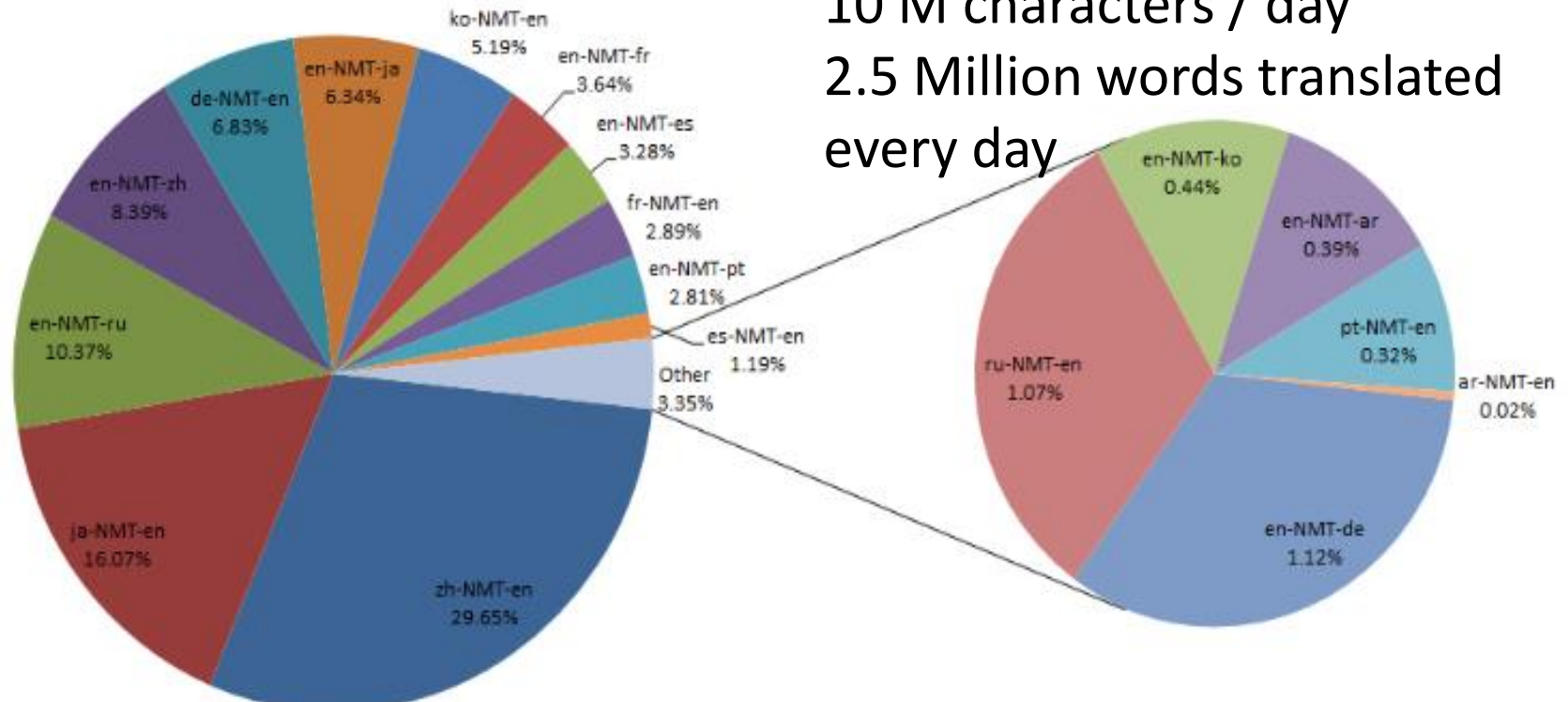
What's new in WIPO Translate?

- Machine translation of ISR/WOSA
Specific models to be further improved
- ... consolidating our models :
 - WIPO Translate heavily used on PATENTSCOPE (2.5M words per day)
 - We are doubling our translation capacity
 - Italian models published soon
 - Partnership with private companies

WIPO Translate usage...

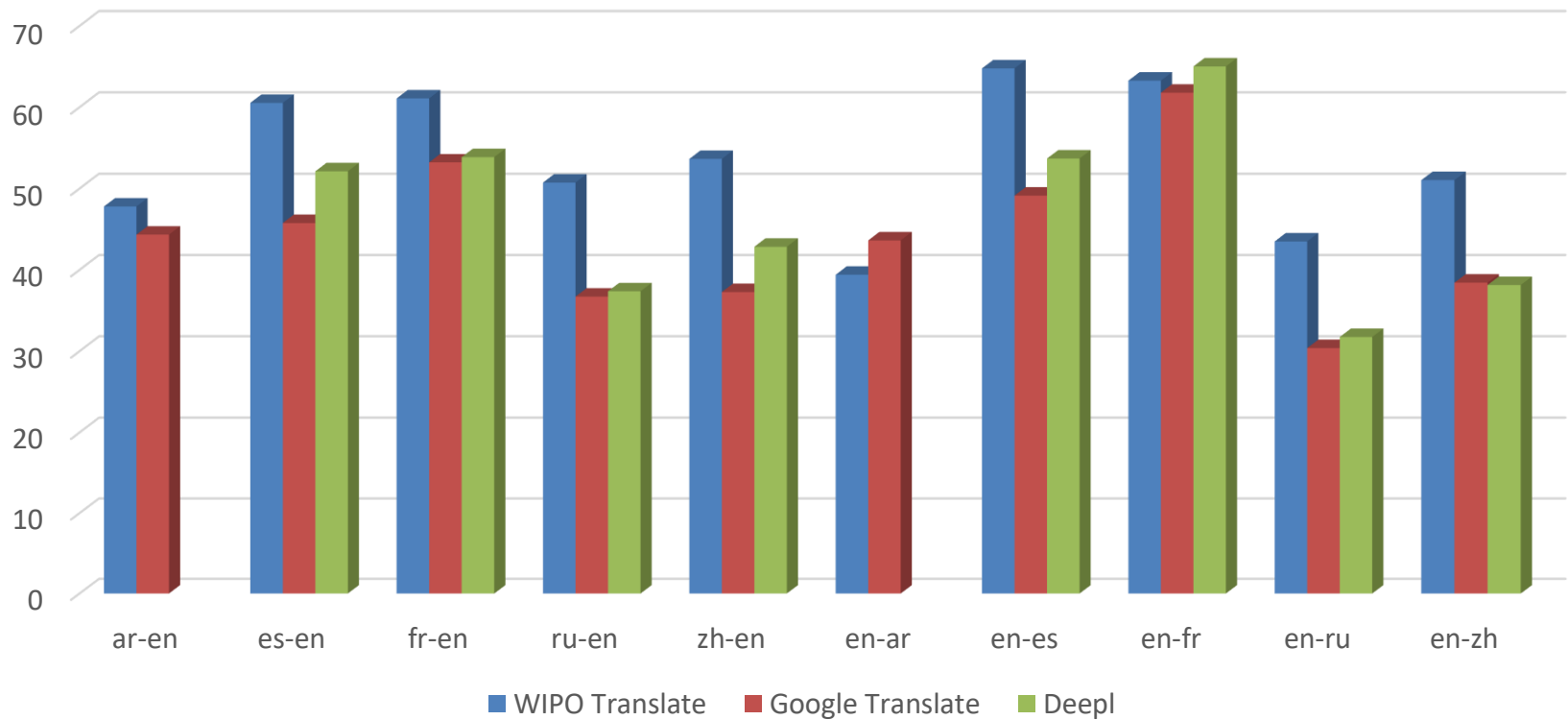
10 M characters / day

2.5 Million words translated every day



Benchmarking WIPO Translate

BLEU score on recently published PCT applications (1000 sentences extracted from bibliographic data)



Partnerships

IPOs:

Ongoing with KIPO & DPMA

Private companies:

- WIPO Translate installed in private companies (first production level launched today ;-))
- Partnership improves WIPO Translate
 - Getting new training data
 - Improves robustness

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