WIPO Translate updates

Neural Network machine translation

Bruno Pouliquen, IP round table, 30/10/2017
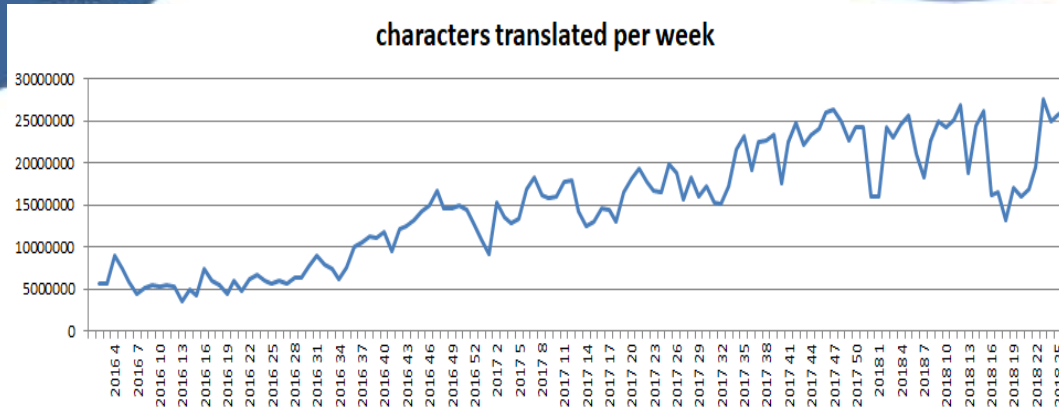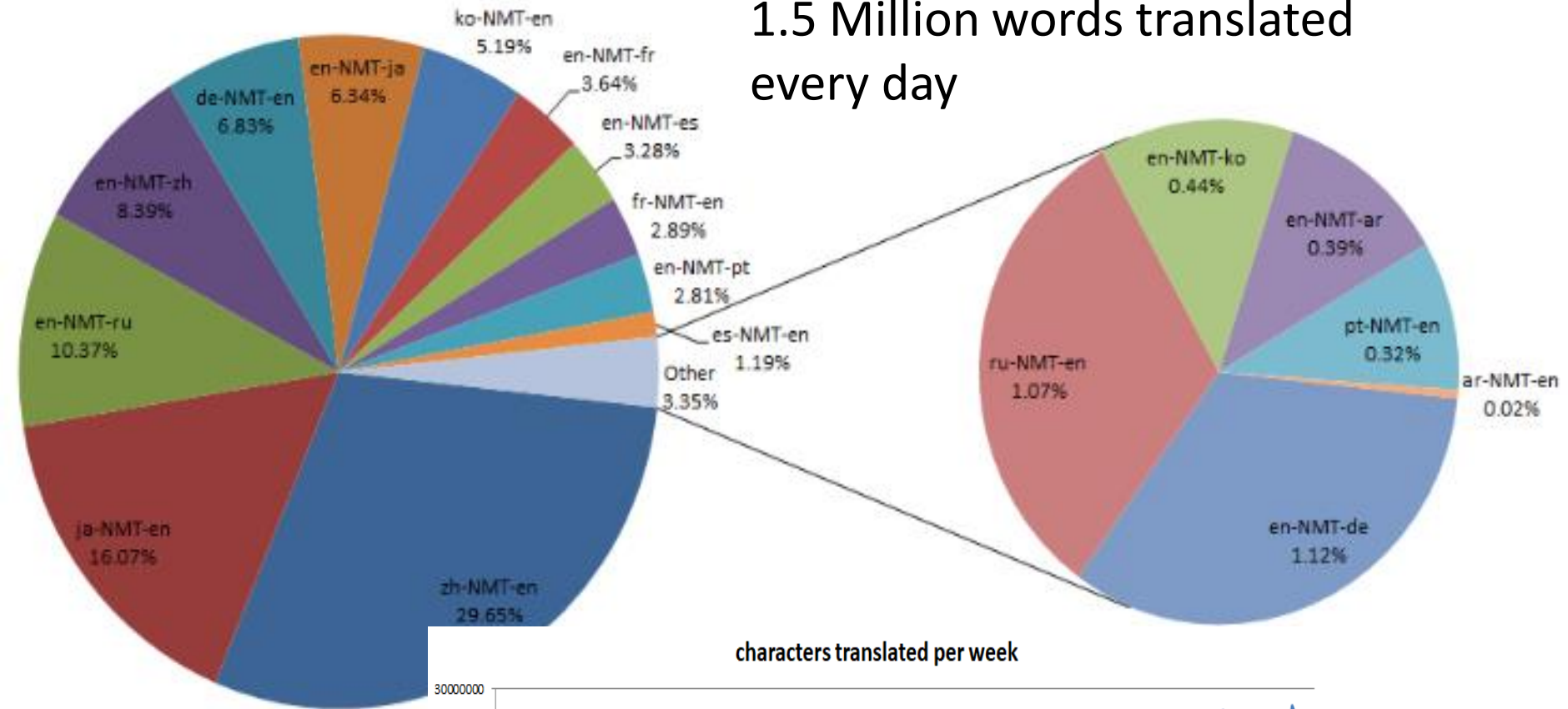
What's new in WIPO Translate?

- Not much ;-)
- … as we are consolidating our model :
  - WIPO Translate used more frequently
  - The team is growing: 3 full-time persons in MT
  - Agreements with patent offices (KIPO)
  - WIPO Translate as a service for private companies
  - Some promising exploratory work

WIPO Translate usage…

1.5 Million words translated every day

Left pie chart labels:
- ko-NMT-en 5.19%
- en-NMT-ja 6.34%
- en-NMT-fr 3.64%
- de-NMT-en 6.83%
- en-NMT-es 3.28%
- en-NMT-zh 8.39%
- fr-NMT-en 2.89%
- en-NMT-ru 10.37%
- en-NMT-pt 2.81%
- es-NMT-en 1.19%
- ja-NMT-en 16.07%
- Other 3.35%
- zh-NMT-en 29.65%

Right pie chart labels (Other breakdown):
- en-NMT-ko 0.44%
- en-NMT-ar 0.39%
- pt-NMT-en 0.32%
- ru-NMT-en 1.07%
- ar-NMT-en 0.02%
- en-NMT-de 1.12%

characters translated per week

Team: ATAC

Advanced Technology Applications Center

Aim: Explore machine learning techniques in IP

Michal (**MT**/chatbots)

Proyag (**MT**/Text classificatio

Akshat (Speech/Chatbots)
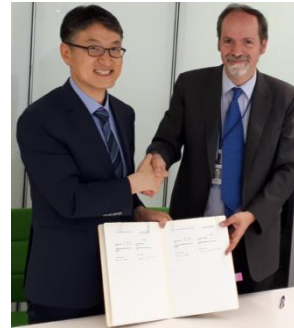

Javier (cloud/WipoLex)

Bruno (**MT**/WipoLex)

Christophe (**MT**/Image)

Alex (Image)

Ha (translated speech/Chatbots)

WIPO Translate & other organizations

- WIPO Translate & International organizations
  - WTO, IMF, WMO, OECD, IAEA, ITU (+WB)
  - … and Korean Patent Office
  - … and more to come

- WIPO Translate as a «pay for service»

Current/future work

- Current exploratory projects:
  - Transformer models
  - Improve Portuguese MT using Spanish-English parallel texts

Speech to Text (WIPO S2T)

- Use machine learning techniques to output corresponding text

- Use records of WIPO meetings and corresponding transcripts

- Use cases:
  - Verbatim aligned with video
  - Send verbatim for translation
  - Text based search engine
  - Captioning
  - …

- Demo: pilot developped for WIPO General Assemblies

Not really related to IP