

H2020 RIA ELITR (2019-2021)



ELITR (European Live Translator) aims:

- ► Highly multi-lingual machine and speech translation.
- Document-level machine translation.
- Automatic meeting summarization, "Minuting".



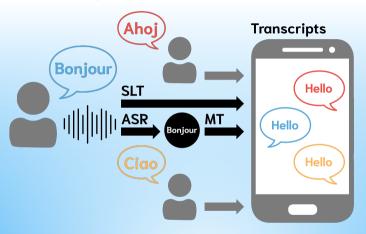
... and the Supreme Audit Office of the Czech Republic as affiliated user partner.

Main ELITR event: Interpreting at EUROSAI Congress (Prague, May 2020).



ELITR Technologies: ASR, MT, SLT, Minuting

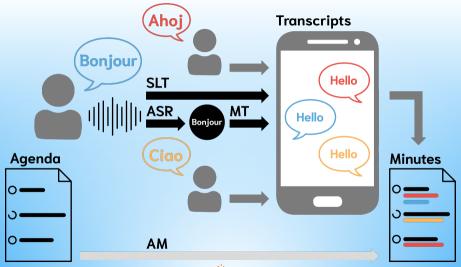






ELITR Technologies: ASR, MT, SLT, Minuting





ELITR Languages



Languages to be supported by the ELITR project:

Technology	Primary Focus	Covered	Experimental
ASR	En, De	Fr, Sp, It, Ru	Cs
SLT & MT	{ En, De }	all EU languages	all EUROSAI langs
	\rightarrow { En, De, Cs }	ightarrow all EU languages	ightarrow all EUROSAI langs
Summarization	English, Czech	-	-

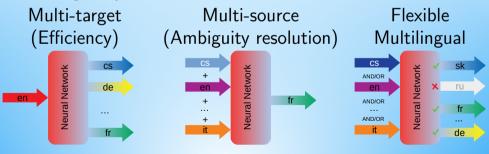
24 EU languages: Bulgarian, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Irish, Italian, Latvian, Lithuanian, Maltese, Polish, Portuguese, Romanian, Slovak, Slovene, Spanish, and Swedish. Further 19 EUROSAI languages: Albanian, Arabic, Armenian, Azerbaijani, Belorussian, Bosnian, Georgian, Hebrew, Icelandic, Kazakh, Luxembourgish, Macedonian, Moldovan, Montenegrin, Norwegian, Russian, Serbian, Turkish, and Ukrainian.



MT Challenges (WP4)



- Document-level translation:
 - Lexical and structural coherence.
 - Context perhaps even more important for speech translation.
 - ▶ Very hard to evaluate; errors too diverse and not frequent enough
- High multi-linguality:



Meeting Summarization ("Minuting"; WP5)



High-risk goal:

- Given agenda and transcript.
- Populate the agenda with items from the transcript to obtain meeting minutes.
- Structured summarization of discussions.
- "De-duplicating" rather than reducing content.
- Critical: Gather such data.



Original agenda as prepared by the organizer beforehand:

- Protocol type: push or pull?
- Layout of the user interface:
- Transcript grows at the top or bottom of the document?
 - Or in a side pane?

Shared document, everyone allowed to edit.

Starts with the agenda and gets populated by Automatic Minuting (AM)
- Protocol type: push or pull?

- (AM) > Pull easier to implement.
 - AM > Updates can get lost with push in case the user
 - (AMA) > Updates can get lost with push in case the user
- Layout of the user interface:
- Transcript grows at the top or bottom of the document?
- AM > Top AM > Bottom AM > Top, transcript rolling up.

Transcript, optionally editable to correct ASR errors: 11:03 Sorry for utting back to the protocol type. I think we forgot ...

11:02 I prefer the transcript rolling up, so top.

2 11:02 Bottom



ELITR Key Event: EUROSAI Congress 2020



- ▶ The main congress of supreme audit institutions (EUROSAI).
- ► May 31 to June 5, 2020.
- ▶ 200-250 people from 50 different countries will attend.

This event has two radically different "mode"s:

- ▶ Plenary sessions: More languages, one room.
- ▶ Workshops: More rooms, one language.

We run our workshop on NLP tools for auditors.



ÚFAL Focus (1/2)



- Ensure that everything works:
- ▶ Ondřej, Dominik→Sangeet Sagar (intern)
- ► MT (multi-lingual, multi-source): Dominik
- MT (multi-target): Bohdan Ihnatchenko (MFF Mgr)
- MT (domain adaptation): Daniel Suchý (FF Mgr)
- MT (doc-level): Tomáš Musil
 - Still searching for people!!
- ASR: Jonáš Kratochvíl (MFF Mgr)
- ► SLT (simultaneous translation): Ebrahim Ansari



ÚFAL Focus (2/2)



- Minuting (corpus): Anja, Ondřej, 2 annotators
 - More data and annotators needed.
- ▶ Minuting (models): Erion (over the summer, we had Ahmad)
- Minuting (segmentation): Michal Auersperger
- Ethics (incl. GDPR): Libuška Kaprálová (external)
- Dissemination (not only MT, but all NLP): Tea
 - ► We need people to help us popularize our tools in May.
- **Ensure** that people deliver what they have to: **Tea**



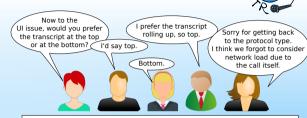
ELITR Needs Meeting Data for Minuting



We need:

- Audio and/or Transcripts.
- Agenda
 - Ideally hierarchical.
- Minutes
 - Ideally the Agenda populated with items.
- Any supplementary files:
 - Slides, related reports, ...

Please contact us at info@elitr.eu



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Shared document, everyone allowed to edit.

Starts with the agenda and gets populated by Automatic Minuting (AM) - Protocol type: push or pull?

- (AM) > Pull easier to implement.
- (AM > Updates can get lost with push in case the user (AMA) > Consider network load.
- Layout of the user interface:
- Transcript grows at the top or bottom of the document?
- $(AM_{\perp}) > Top (AM_{\parallel}) > Bottom (AM_{\perp}) > Top, transcript rolling up.$ - Or in a side pane?

Transcript, optionally editable to correct ASR errors:

- 11:03 Sorry for utting back to the protocol type. I think we forgot ... 11:02 I prefer the transcript rolling up, so top.
- 11:02 Bottom





