PangeaMT – Start planning your MT adoption for success!

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ANNUAL CONFERENCE 2010

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"Evolution of the Translation Industry planning for success"

Thu, 23rd September 2010

SOAS, University of London, UK



association of translation companies

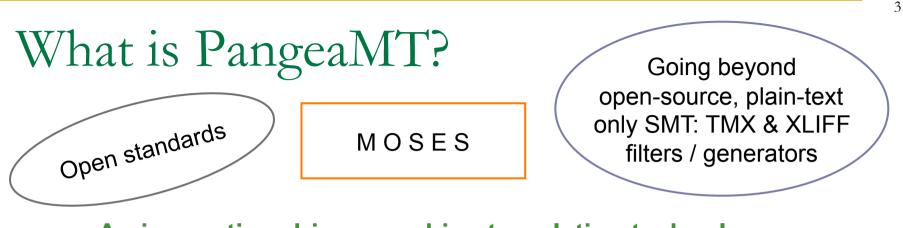
Agenda

- Insight about (the usefullness of) PangeaMT
- Guidance to implement a PangeaMT translation automation strategy at your LSP company
 - Customisation, domain/client-specific implementations, Post-Editing, advice before and after PangeaMT intake, etc.
- Q&A

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- Your benefit as an ATC Conf 2010 Participant
- Appendix: What lies underneath PangeaMT

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An innovation-driven machine translation technology conceived as a good-enough qualitative and affordable means to automate translation, speed up and optimise processes, and set you free from user lock-in and extremely dear GILT architectures



PangeaMT's mission & key concepts

- Mission: Bring democracy and affordability to MT
 - How? By fostering open-standard geared translation automation strategies
- Key concepts
 - PangeaMT is not meant to substitute production environments but to enhance workflows, increasing productivity and cutting down costs
 - PangeaMT's strength is translation automation & customisation, heavily relying on our own experience both as international language service vendors and MT researchers and implementers





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What we will (and will not) do for you ③

We will not provide you with any proprietary architecture for your pre- and postprocessing tasks which would make you dependant, but with an MT solution to gradually become fully technology independent.





Are you happy with your current translation environment?

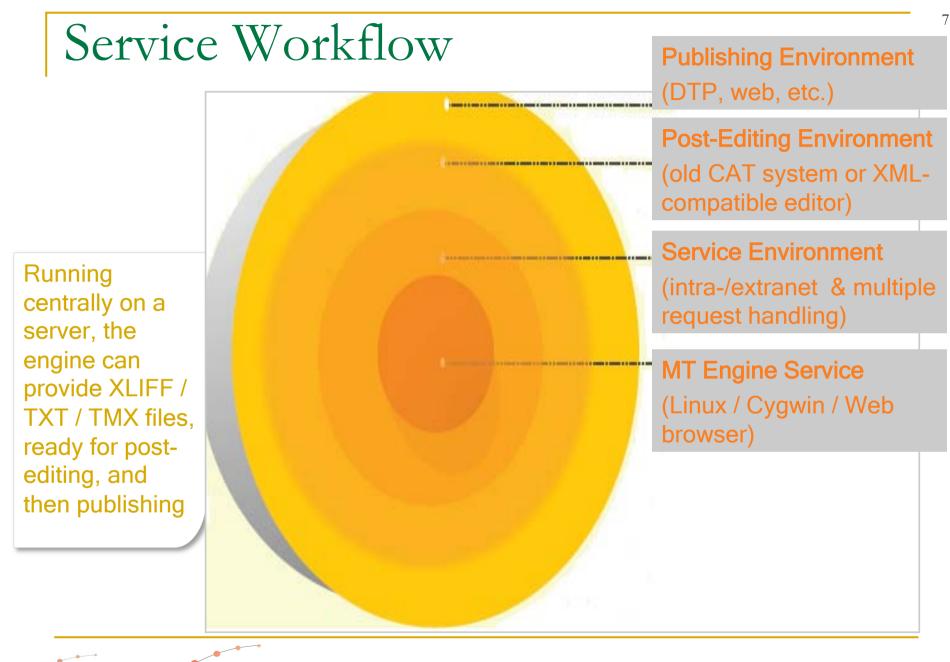
YES

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- → You may continue to use it to prepare your TMX/XLIFF files for MT input and get them back from PangeaMT as output, ready for postediting – once more in the same environment.
 - This would minimise the familiarisation slope that comes with any new implementation

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- NO
- → If you dislike it because you find it for instance too expensive, we can give you some orientation about open-source alternatives that are available in the market nowadays.
 - Most CAT systems can import TMs and make use of penalisation features anyway, thus being perfect interfaces for MT post-editing.



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PangeaMT suggests and helps you implement...

- Proposed workflow based primarily on MT + Post-Editing (PE)
 - Post-edited MT output then stored for retraining purposes (stats-driven MT paradigm)
 - A TM-only-based workflow is outdated and entails undesired lock-in effect
- What makes PangeaMT <u>special</u> → open standard format processing & generation capabilities



Customisation – key to success

Client / domain adaptation

- Data → Not only quantity, but also quality maxime
 - relevant & representative

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cleanliness

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- Pangeanic a lifelong, proactive member of TAUS TDA
 - helps us offer Data Consultancy services
 - plus other computational linguistics techniques

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Post-Editing (PE) & the SMT paradigm \rightarrow Productivity gains

- PE: extremely important in an MT-driven production lifecycle, both to ensure publication quality and to help the MT engine reach *maturity*
 - Use that humanly post-edited MT output to train your customised engine again on a regular basis until you see fit
 - Machine learning leads to better output > gradually less-intensive PE > more productive
 - E.g. presentation by K. Bier (Sybase) and M. Herranz (Pangeanic/PangeaMT) at LW Berlin 2010 → productivity gains ranging from 25 to 300 % depending on content type



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PE & Content Leveraging

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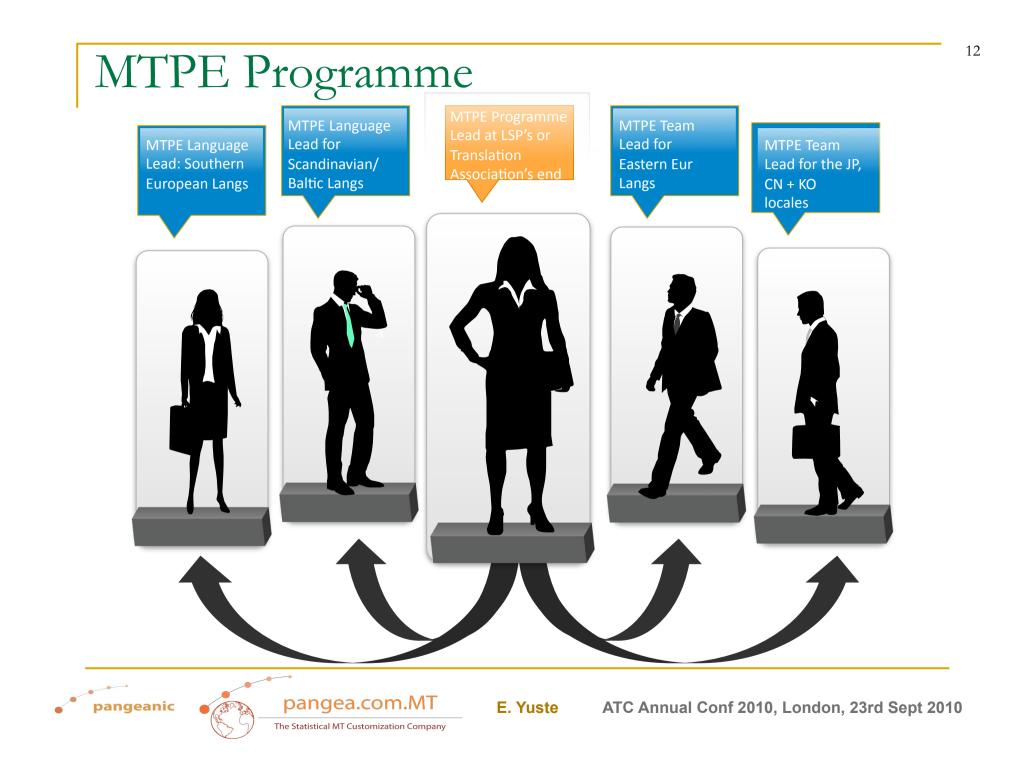
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Procedure to make the best of your MT output

- Adopting MT in your production workflow does not mean to abandon a CAT-like environment but to adjust and exploit it in such way that you can enjoy, if you like, the best of two worlds.
- Set your TM matching options to leverage everything above e.g. 75 % match from the memory and send everything below that to your customised PangeaMT engine in a TMX/XLIFF file.
 - You can post-edit the TMX/XLIFF output in your preferred translation environment again, ideally using one that your linguists are familiarised with

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Recommendation before adopting a PangeaMT strategy

- Customised and domain-specific PangeaMT solutions makes you stand out of the crowd! → TRUE, but just don't start with a thousand language pairs and domains...
 - Technically speaking, SMT is quick to implement
 - However, you want to adapt to MT (esp. if totally new to it!) and let your team make the most of it
 - □ Gradual investment in engine development; rapid ROI anyway! → A PILOT highly recommended!
 - What is your key vertical? Client? Language pair?

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What to do after PangeaMT intake

- Monitored usage will allow for measuring results systematically and carry out clientspecific studies
 - Productivity-related

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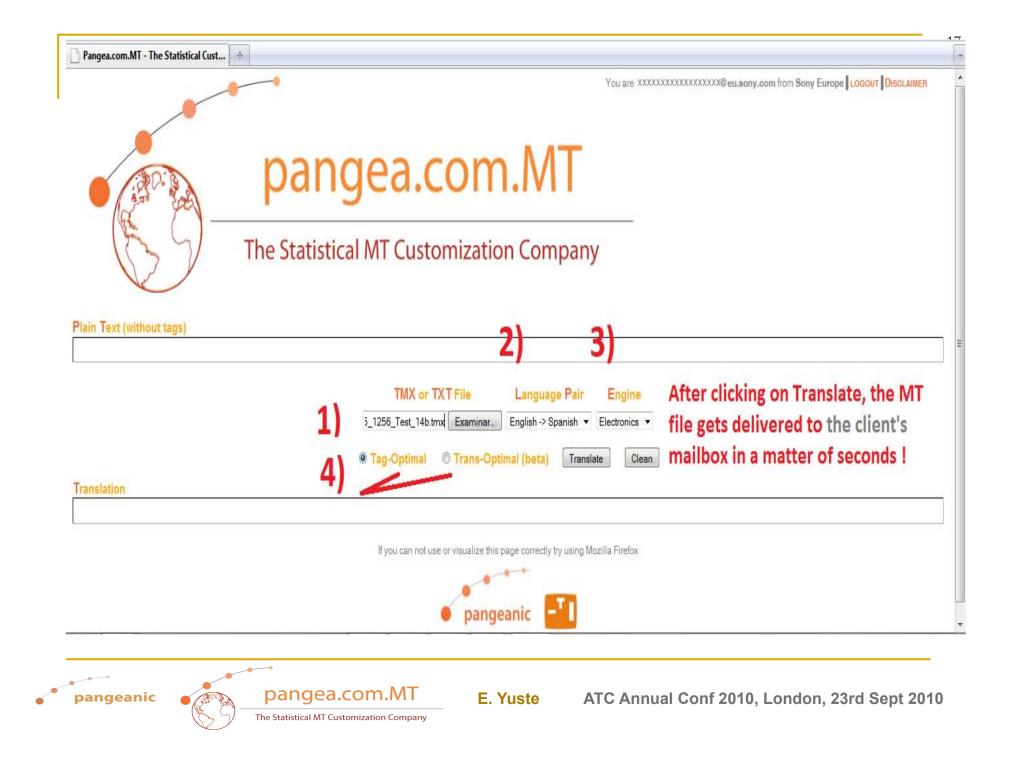
- Determine ROI and cost-efectiveness (yearly, cross-annually, per languages, across agency offices – if having more than one)
- Keep in touch with us help us get better, for your own sake and that of the GILT industry!

PangeaMT in action





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Output extract – acceptable quality & right inline tag

placement

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12 13 14 15 16 17 18	<tuv xml:lang="EN-GB"> <seg>For example, it can hold a roll of paper for 700 10 x 15 cm (4 x 6 inches) prints, 400 13 x 18 cm (5 x 7 </seg></tuv> <tuv xml:lang="ES-EM"> <seg>Por ejemplo, puede efectuar racha de papel para 700 10 x 15 cm (4 x 6 pulgadas), imprime 400 13 x 18 cm </seg></tuv>
14 15 16 17	 <tuv xml:lang="ES-EM"> <seg>Por ejemplo, puede efectuar racha de papel para 700 10 x 15 cm (4 x 6 pulgadas), imprime 400 13 x 18 cm </seg></tuv>
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20	<tu creationdate="20100915T125606z" creationid="MT!"></tu>
21	<tuv xml:lang="EN-GB"></tuv>
22	<seg>High throughput</seg>
23	
24	<tuv xml:lang="ES-EM"></tuv>
25	<seg>Alta capacidad de proceso</seg>
26	
27	
28	
29	<tu creationdate="20100915T125606z" creationid="MT!"></tu>
30	<tuv xml:lang="EN-GB"></tuv>
31	<seg>The UP-DR250 can produce up to 450 10 x 15 cm (4 x 6 inch) prints per hour.

This</seg>
32	
33	<tuv xml:lang="ES-EM"></tuv>
34	<seg>El UP-DR250 puede producir hasta 450 10 x 15 cm (4 x 6 pulgadas) por hora. en

Est</seg>
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Special benefits for the LSP company

Deployment of **domain-specific MT technologies** allows for higher production volume and ensures industry vertical specialisation

- Translation automation is the real answer to rate reduction pressure and quicker TAT
- It also contributes to
 - Business dinamisation in existing languages and expansion in other language combinations and potentially, other domains
 - End-client satisfaction

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Summing up

We do not sell *existing* software, we believe in preexisting know-how about MT, techniques, development experience, etc. in order to develop *your* engines. Engines that will not be wrapped in a software version 6, then 7 and 8.5 for which you would have to keep paying every year, i.e. forever. These are MT solutions that indeed need re-training for

some time, growing from childhood to adulthood but leaving home fairly soon.

You will pay for first engine development and a few re-trainings, but the domain-/client-specific solution will be **yours** – and **fully customised**!



Thank you !

QUESTIONS ?

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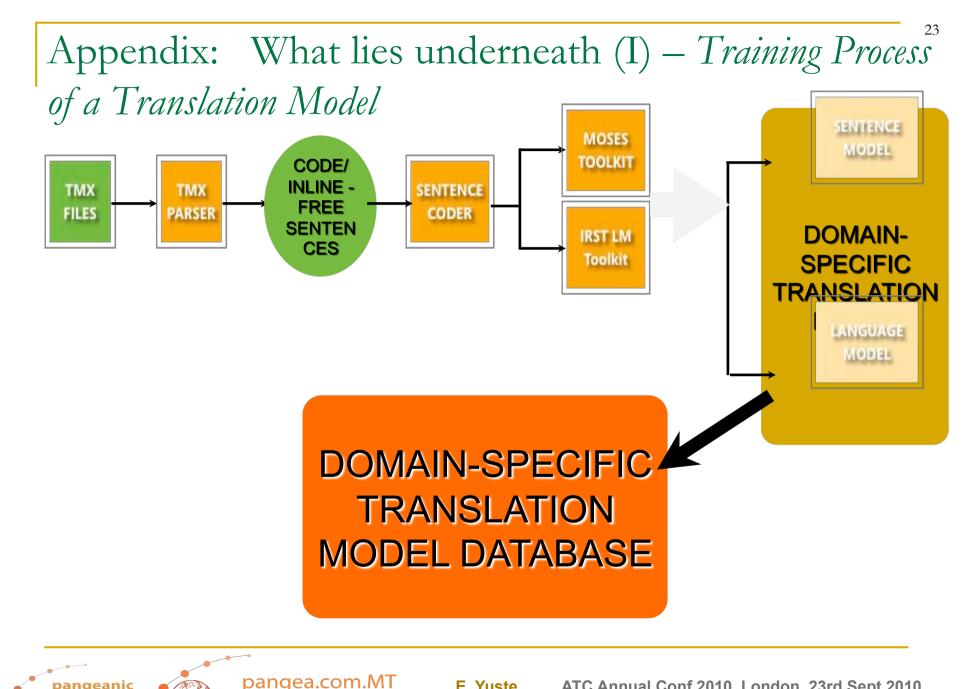
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Your benefit

Drop us a line for a complimentary 20-min phone consultation to be scheduled within Q4 of 2010. Please write [After ATC'10 Conf] in your subject line.

Many thanks for your interest!



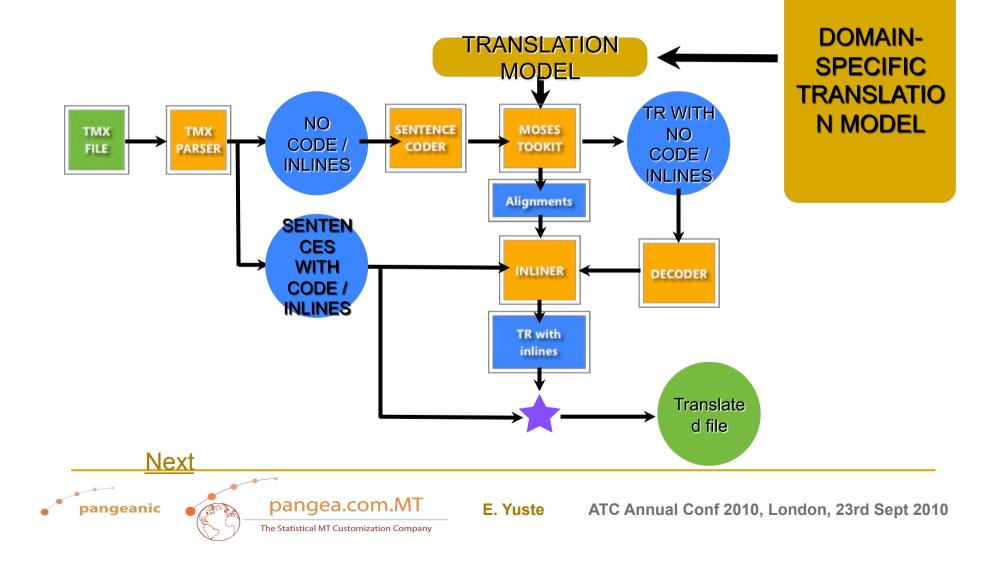


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Appendix: What lies underneath (II) – *Translation of a TMX/XLIFF/TXT file*



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