

Transforming the Translation Environment A Paradigm Shift in Productivity

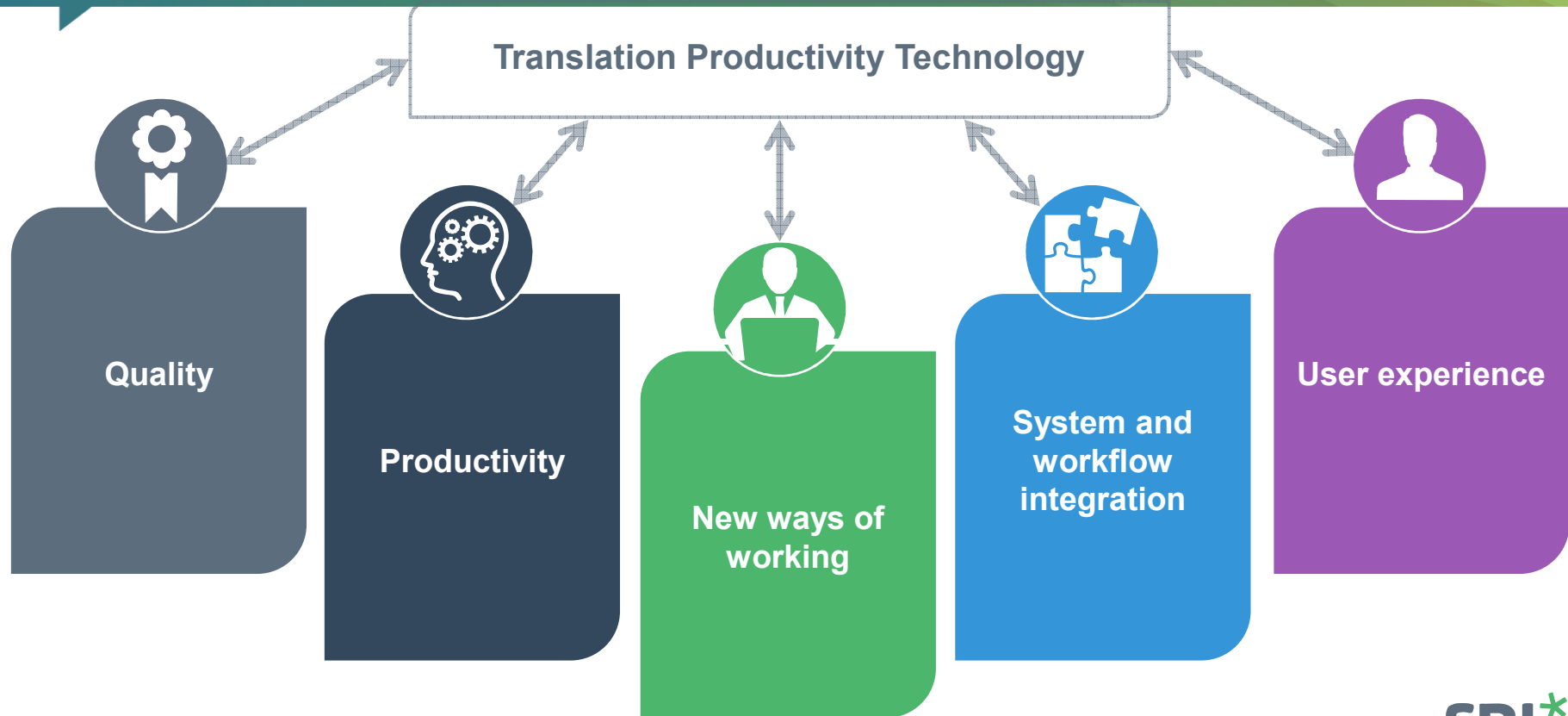
Matthias Heyn – It-accelerate 2016



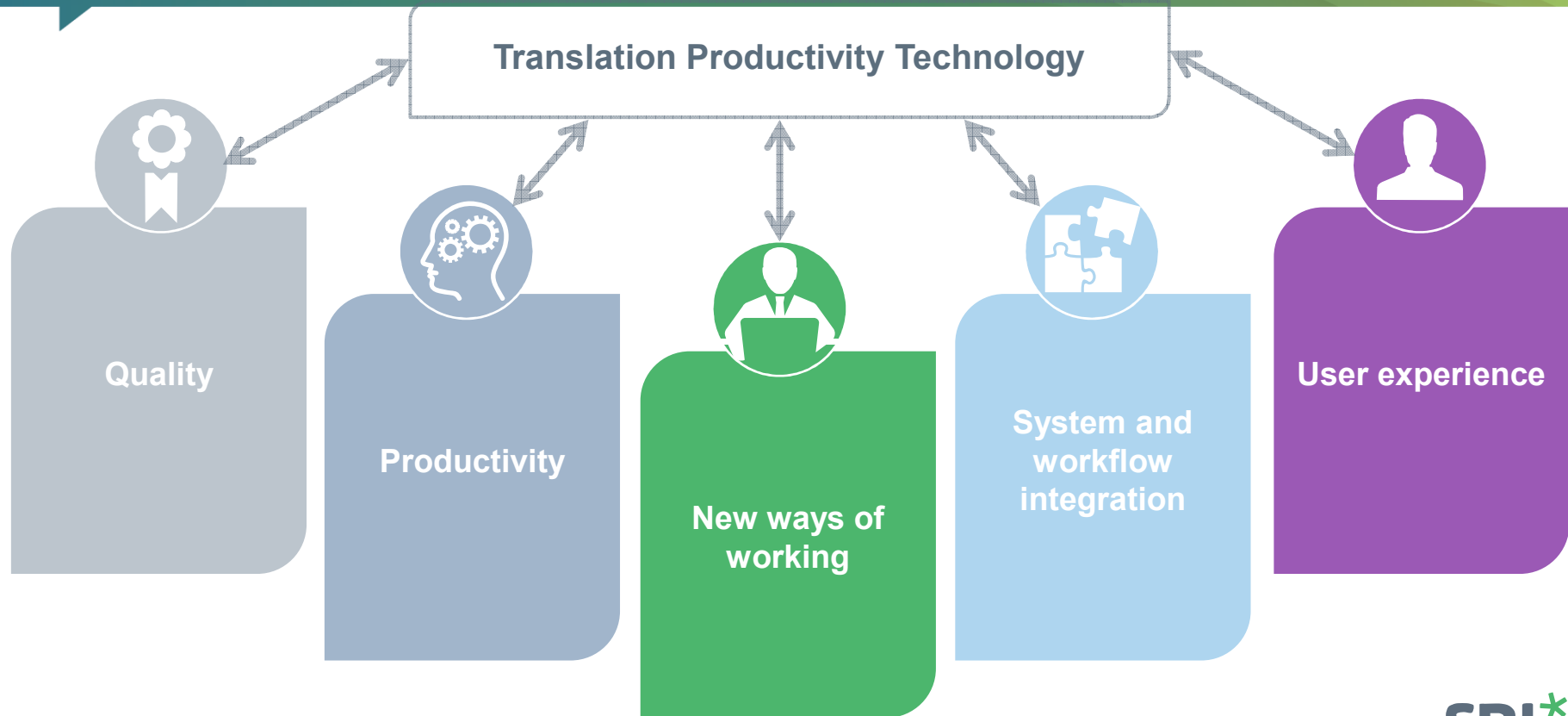
Explosion of Digital Content Drives MT Adoption

- In general the evolution of digital content drives the adoption of post-editing of MT (PEMT)
- This has a major affect on the translation environment for professional as well as the occasional translator.

Significant Translation Technology Trends



Significant Translation Technology Trends



Current Perception of MT

- Translation Technology Insight (TTI) survey found that:
 - 40% of respondents use Machine Translation, of whom 64% say it makes them more efficient
 - More than half of those who use MT believe that it is the future of Translation Productivity
 - Almost three quarters of users are more likely to recommend it than not, with corporates leading the charge
- Whilst only 40% currently use MT, they see significant value
- External research shows that automation is essential to scaling operations – Machine Translation enters every discussion

MT Status Quo

- MT adds value despite not being universally welcomed and used
 - MT integration in professional translation editor is key part of translation productivity technology
 - One of the top choices to cope with increase in translation demand
- Huge potential for localization industry despite common concerns/complaints
 - Little or no ability to influence MT output quality
 - Limited ability to personalize MT





Post-Editing Machine Translation

PEMT

Clients increasingly ask for MT and post-editing

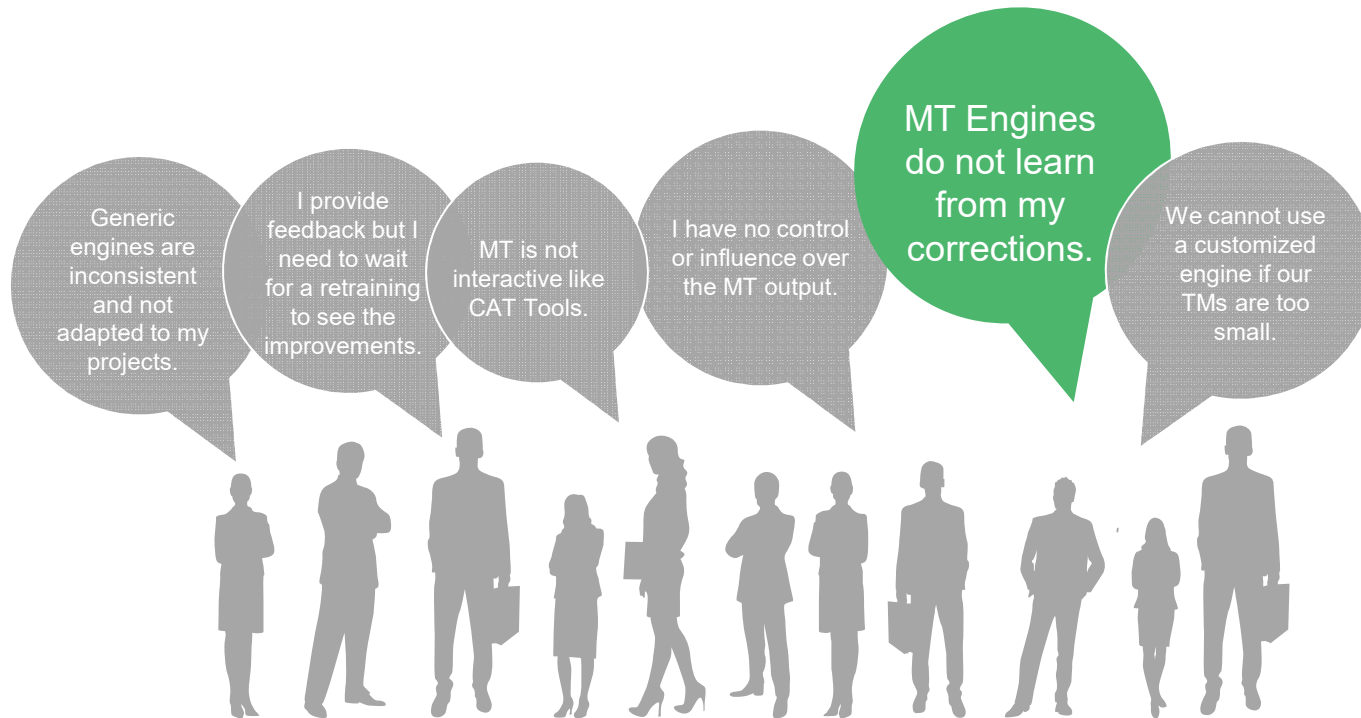
Post-editing is a valuable skillset for trained linguists

PEMT still has an image problem

User experience is not always positive



Post-Edit Frustrations



AdaptiveMT

Integrated in Professional Translation Editor

Collaborative effort with Language Offices to fine-tune AdaptiveMT

Addresses the balance between MT technology and user experience

The post-editor takes center stage

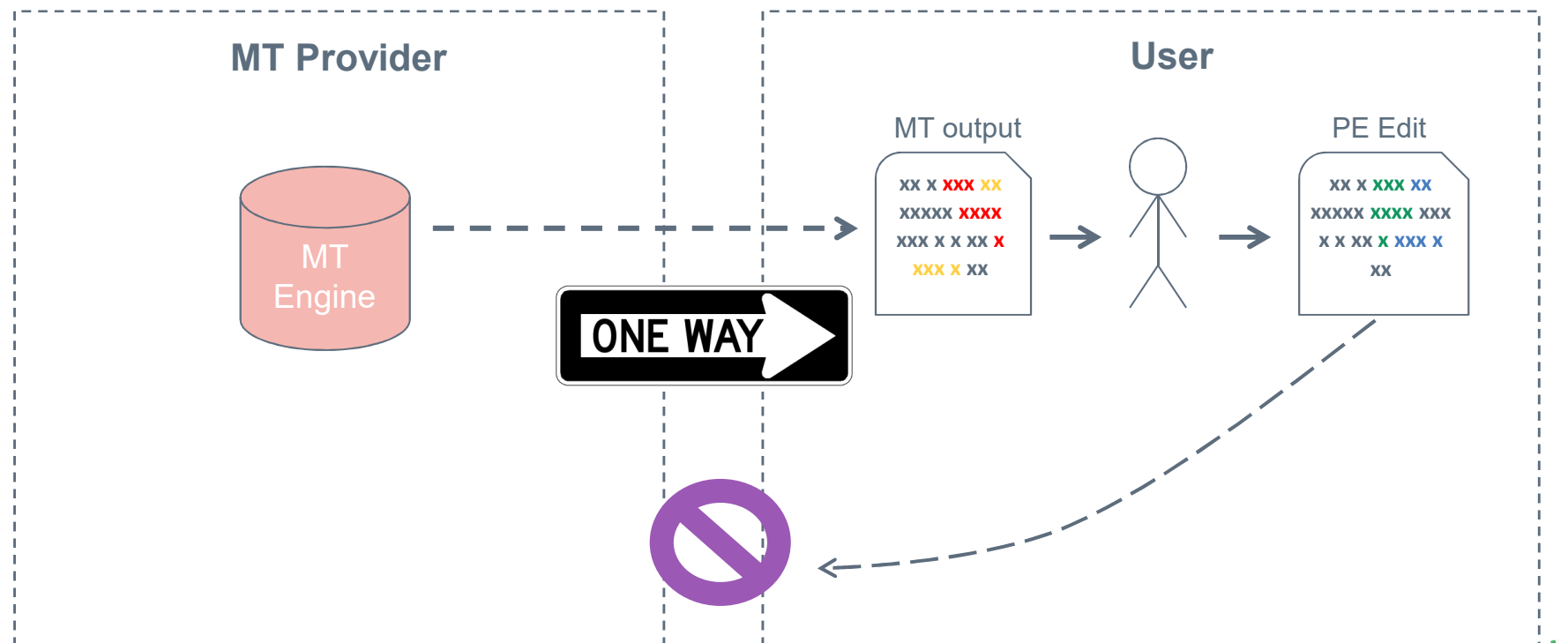


SDL*



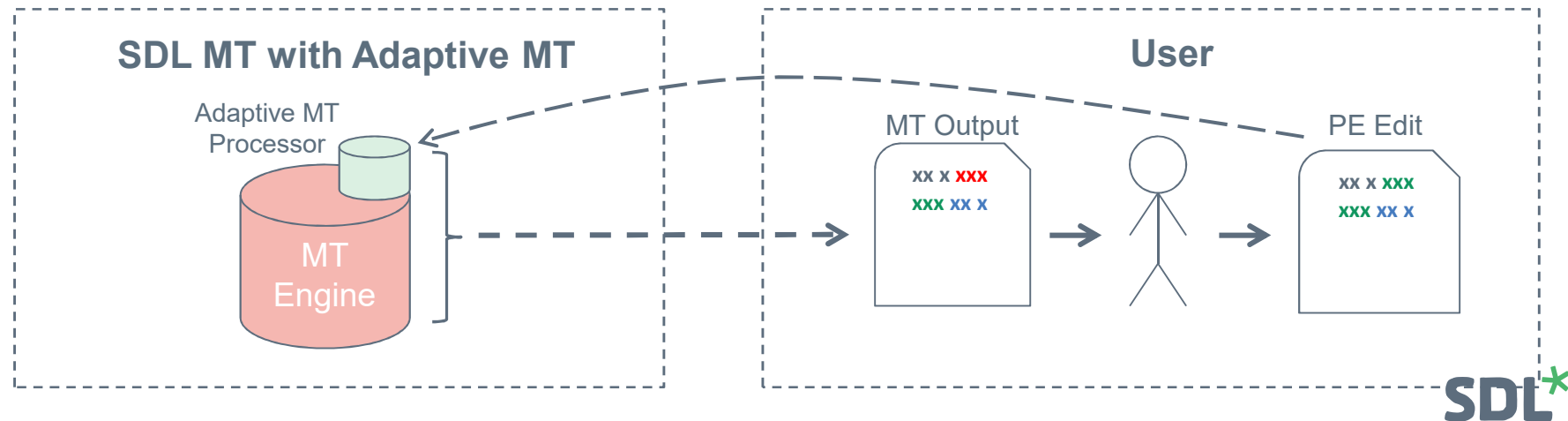
AdaptiveMT: Innovative Machine Learning

SMT systems are Static







MT Innovation – AdaptiveMT


- New technology developed by Research
- An adaptive MT engine that learns interactively from the post-editor's edits



Examples of what AdaptiveMT can learn – 1

	English Source	Status	Italian MT Output	Italian Post-Edited Version	Comments
1	Refer to the electrical circuit diagrams and check the driver front side impact sensor .	 AT	Fare riferimento agli schemi elettrici e controllare il driver parte anteriore del sensore urti laterali .	Fare riferimento agli schemi elettrici e controllare il driver parte anteriore del sensore urti laterali sensore urti frontali lato conducente .	
2	Refer to the electrical circuit diagrams to learn more about the driver front side impact sensor .	 AT	Fare riferimento agli schemi elettrici per saperne di più circa il conducente sensore d'urto laterale anteriore .	Fare riferimento agli schemi elettrici per saperne di più circa il conducente sensore d'urto laterale anteriore sensore urti frontali lato conducente .	
		 AT 	Fare riferimento agli schemi elettrici per ulteriori informazioni circa il sensore urti frontali lato conducente .		Specific terminology which is not in the baseline

Examples of what AdaptiveMT can learn – 2

	English Source	Status	Italian MT Output	Italian Post-Edited Version	Comments
1	Using Lime for Business 2017 is very easy.	 AT	Utilizzando calce per Affari 2017 è molto facile.	Utilizzare calce per Affari 2017 Lime for Business 2017 è molto facile.	
2	You can download Lime for Business 2017 by clicking this link:	 AT	È possibile scaricare la calce per Affari 2017 facendo clic su questo link:	È possibile scaricare la calce per Affari 2017 Lime for Business 2017 facendo clic su questo link:	
		 AT 	È possibile scaricare Lime for Business 2017 facendo clic su questo link:		New product names which need to be kept as per source

AdaptiveMT: Practical Information

- Support for English -> French, German, Italian, Spanish, Dutch
 - Reversed language direction and other language pairs to follow soon after initial release (planned for H1 2017)
 - Japanese <-> English planned for H1 2017
- Available for Baseline only to start with
 - AdaptiveMT for customizations and verticals in the pipeline
- Adaptive Engines are personal in the first version
 - Plans for sharing Adaptive Engines across translators in the pipeline
 - It is already possible to share Adaptive Engines through the same Language Cloud account

Available in Studio as part of updated Language Cloud user interface



User Experience

Key Benefits of AdaptiveMT



Reduced frustration

- Reduces the frustration of editing the same incorrect MT



Interactive

- Works as the translator post-edits
- Post-editors will not need to wait for a retrained customised engine to see improvements



Improved productivity

- Increases translation productivity over time



Cumulative learning

- Continues to learn from job to job



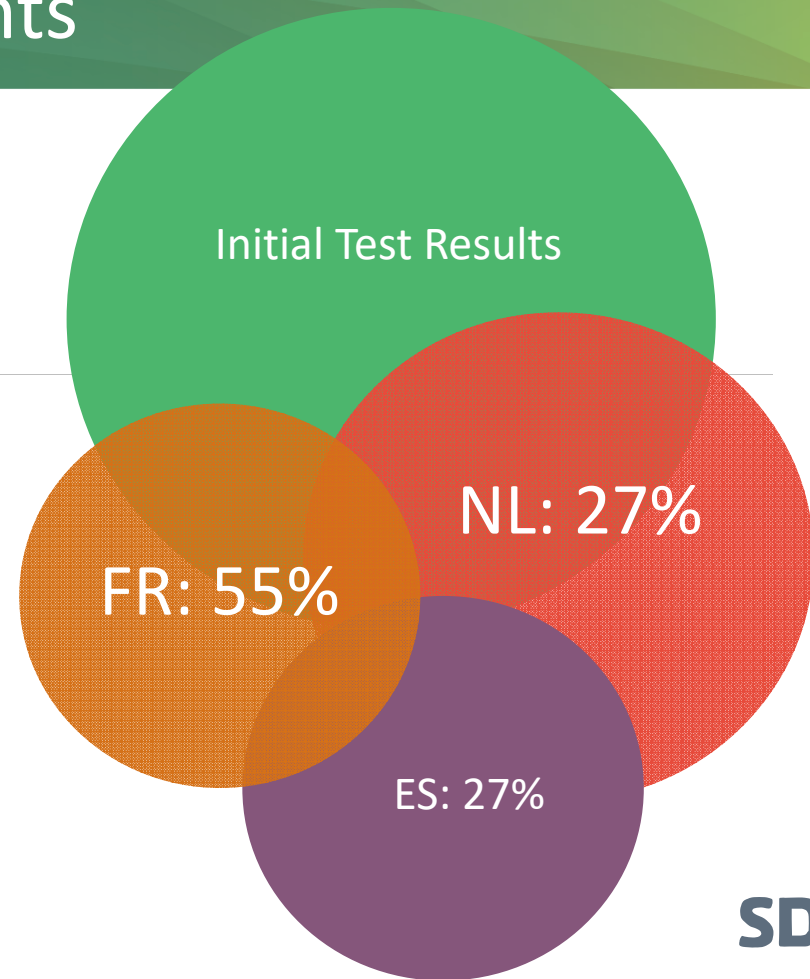
Personalized

- Creates a personal adaptive MT engine for the user
- Allows to create multiple “Custom” engines from a Baseline MT engine, one for each project

Productivity Improvements

Test setup

- MT with AdaptiveMT enabled in Studio 2017
- Productivity improvements measured with Qualityity
- Languages tested: NL, FR and ES
- Life Sciences domain
- Testing completed by SDL LO resources with domain experience



Tangible User Satisfaction

To be able to quickly change terminology and receive correct MT-proposals in the segment after next: works like a dream.

The testing of the adaptive engines has been an absolutely great experience!

Can I have my personal link to the server where this magic resides?

The final results are quite impressive!

We want it!

I want to be among the first to have it.





Shaping the Future of AdaptiveMT

How will AdaptiveMT change the way we work?



Release of AdaptiveMT just a **starting point** leading to new ways of working for translators and LSPs and new MT solutions and scenarios



Currently delivered at **individual level**, giving control to post-editors and recalibrating the relationship between MT and translation experts



Move to a **higher level** of translation teams, LSPs and organizations through integration into workflow and translation process

AdaptiveMT Integration



AdaptiveMT takes focus on post-editor and ease of post-editing to the next level, integrating seamlessly with Trados Studio to drive MT quality

MT technology and innovation add most value when embedded in a well-designed process, not just in a tool

AdaptiveMT needs to evolve within the MT ecosystem to address future needs

Our responsibility is to drive AdaptiveMT integration to deliver the best possible results for future applications

AdaptiveMT within the MT Ecosystem

- Support through post-editing trainings
- Define new best practices for efficient use of Adaptive Engines
- Support organizations to integrate AdaptiveMT efficiently into their MT strategy





QUESTIONS

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ANSWERS



Software and Services for Human Understanding

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