

# **Organic Approach**

All aspects of the localization ecosystem are taken into consideration

## Selecting the right MT provider

By using our MT Scorecard we make sure all important KPIs are taken into consideration at selection time.

## **Empowerment through education**

Internal, by the use of customized Toolkits; external, through specialised Trainings.

## The feedback loop

Constructive communication from posteditor to MT provider



### MT KPIs:

- Productivity: Throughputs
- ✓ Productivity: Delta
- ✓ Quality: LQA
- ✓ Quality: Automatic Scores
- ✓ Cost
- ✓ GlobalSight: Connectivity
- ✓ GlobalSight: Tagging
- √ Human Evaluation
- Customization: Internal/ExternalCustomization: Time

# Selecting the right MT provider

# The WL MT scorecard

**Productivity - Throughputs** 

Number of post-edited words per hour

**Productivity - Delta** 

Percentage difference between translation and postediting time

Cost

Extrapolation, cost per word

GlobalSight - Connectivity

Is there a connector in place?

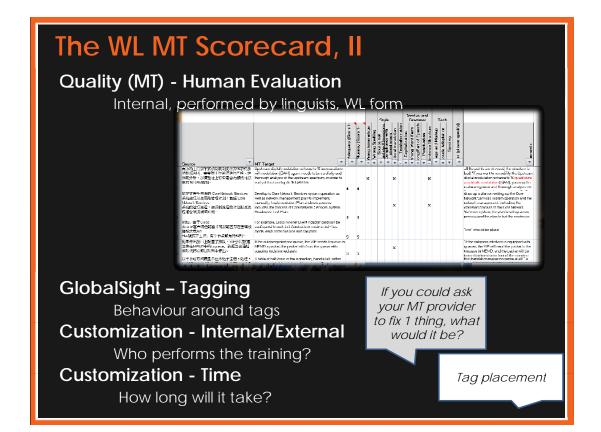
Quality (Final) - LQA

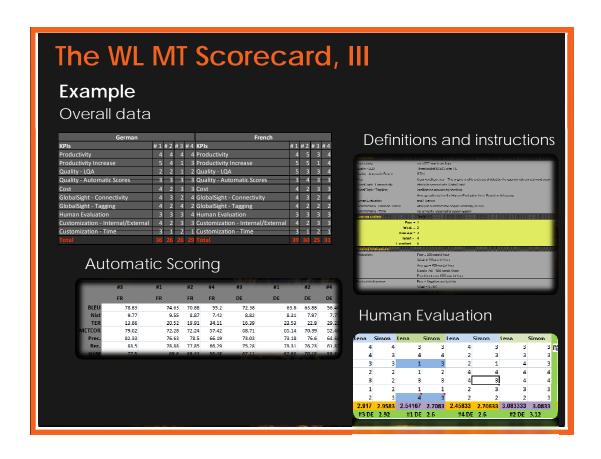
Internal quality verification

**Quality (MT) - Automatic Scores** 

A set of automatic scoring systems is used

We have tested and used different engines so we've seen the good, the bad and the ugly; now we can better appreciate what we have





# **Toolkits and Trainings**

#### Our experience:

- ✓ Most language providers know and have experienced post-editing but they have limited knowledge of any other related aspect (automatic scoring, output differences between RBMT and SMT...)
- ✓ The majority of people who work in localization have heard about MT but
  most of them still find it a daunting subject.

#### Our answer:

- ✓ Continuous MT and PE related trainings and documentation for language providers
- ✓ Customized Toolkits for different internal departments (Production, Quality, Sales, Vendor Management)

# Toolkits and Trainings II

**Theory** – knowledge foundations

Practice - customized PE sessions for different client accounts

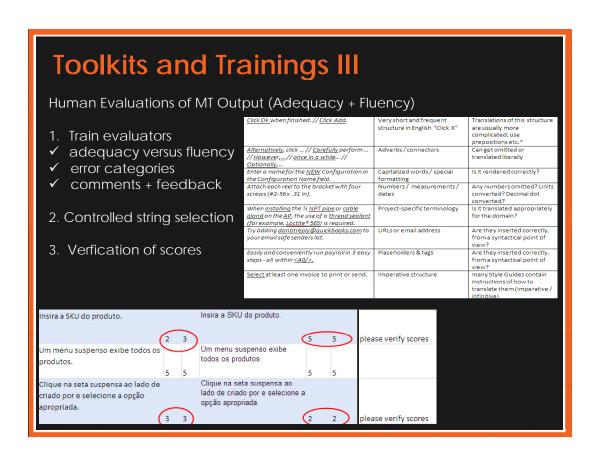
- ✓ Master Glossary was not used during engine training! (QA checks)
- See Style Guide for section-specific usage of quotation marks/brackets; nominalization (headers); imperative/infinitive; thigen-domstyle; formatting of UI options
- ✓ First segment of ITD has to remain untranslated!
- ✓ Check string length limits for audio files

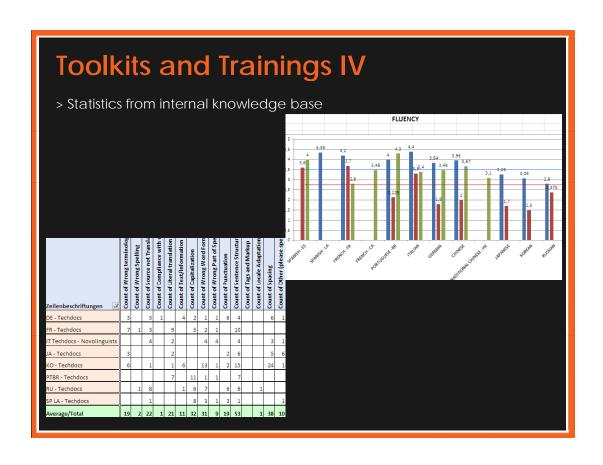
**Transparency** – process, engine selection/customization, evaluations

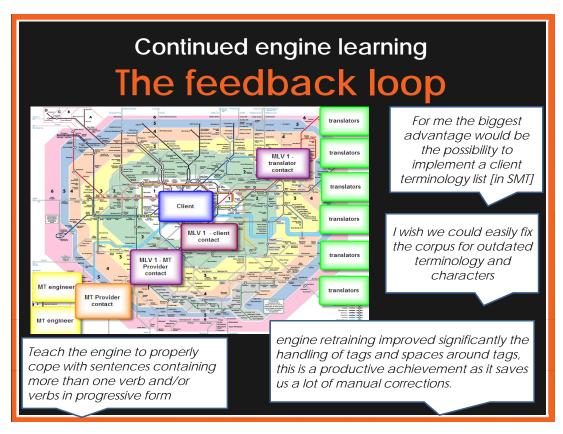
				_	MSHub MT	
Locales 🚜	Bing 💌	¥	Google 💌	*	Training 💌	
Spanish	4,13	3,6	4,13	3,73	4,13	4
Indonesian	4,56	3,76	4,52	3,84	4,72	4,0
Dutch	3,44	2,96	4,2	3,48	3,48	3,2
Danish	3,48	3,56	3,8	3,64	3,8	3,8

Training helps a lot - After I was told some of the background information and tips and tricks for certain engines/outputs, I was much more relaxed and happy to give MT a go.

Responsibility - valid evaluations, constructive feedback, quality ownership







## The feedback loop, II **Initial Productivity Test, 2012** Results Locale ID Productivity Delta FRCA 33.40% ZH-TW -34.50% **ES-ES** 27.50% -16.20% DE-DE 17.60% PT-BR **RU-RU** 8.10% FR-FR 25% **ES-XL** 4.30%

# The feedback loop, III

## Working towards productivity increase

- √ Feedback loop between language teams and MT provider is set up
- ✓ Symbiotic relationship between WL and MT provider Feedback helps the core engine to improve Better engines generate better quality output
- √The 27 engines undergo deep rebuild and full re-train
  Enhanced tag re-insertion algorithm
  Enhanced tag handling for better source format painting
  alignment
  Improved space handling around tags
  Improved punctuation and symbol formatting
- √The language teams attend training sessions

Th	The feedback loop, IV									
	MT provider to complete rows F and G: Status - "Fixed", "Open", "More information required", "Cannot be fixed"  Instructions: highlight the error clearly in the MT output (in the case of omissions in the source); only highlight 1 issue per listed string; when logging errors around tags, endifficult to spot and/or automatically check during post-additing, overall high impact on productivity; "Medium" = fairly frequent, can be checked via ΩΔ checkers, but correcting to seasy to spot and/or does not impact overall productivity too much									
Date 🛎	Language *	Issue	Source	MT Output	Corrected Translation					
		Format [errors around spaces, tag positioning; content of tags has been translated]	<fmt <br="" id="1" tooltip="b">endtooltip="b"&gt;Interface Speed:</fmt> 6 Gb/s SAS	<fmt endtooltip="b" id="1" tooltip="b"> Interfacesnelheid: 6 </fmt> Gb/s SAS	<fmt <br="" id="1" tooltip="b">endtooltip="b"&gt;Interfacesnelheid:&gt; 6 Gb/s SAS</fmt>					
		Locale Adaptation [quotation marks, date/time/measurement formats, parenthesis style not adapted to target locale]	Beginning June 2, 2012,	À compter de juin 2, 2012,	À compter du 2 juin 2012,					
		Punctuation [wrong punctuation for target locale is used]	Support for up to 12TB¹ maximum internal capacity in a compact 10 chassis enables you to choose the amount of storage that's right for your business.	*Prise en charge de jusqu'à 12TB¹ interne maximum de capacité dans un châssis 1U compact vous permet de choisir la quantité de stockage qui convient le mieux à votre entreprise.	La prise en charge d'une capacité interne maximale de 12 To¹ dans un châssis 1U compact vous permet de choisir la quantité de stockage qui convient le mieux à votre entreprise.					
		Locale Adaptation [quotation marks, date/time/measurement formats, parenthesis style not adapted to target locale]	5.2" x 2.53" (132.08mm x 64.26mm)	5.2 英寸×2,53 "(132,08mm× 64,26mm)	5.2英寸×2.53英寸(132.08毫米× 64.26毫米)					
		Word form [e.g. gender.								

## The feedback loop, V

Examples of engine improvements based on feedback from the language teams.

#### Improvements in tag handling related issues

Reported by DE, ESES, FRFR, NL, PL, and TR teams

#### Improvements in syntax and formatting including

- Handling of hyphens and dashes reported by DE, ESXL, FRCA, and PTBR teams
- · Conversion of bullet points reported by ESES, FRCA, FRFR, and TR teams
- Normalization of " " reported by DE team
- Handling of "®" and "™" symbols reported by ZHCN team
- Handling of "|" reported by ESES, FI, and FRCA teams
- Handling of inches symbols reported by CS, ESXL, and PTBR teams
- Forcing a capital letters segment start reported by FRFR team
- Use of non-breaking spaces reported by FRFR team
- · Conversion of en-dashes and em-dashes reported by DE and NL teams

The feedback loop, VI							
Second Productivity Test, 2013 Results							
Locale ID	Productivity Delta						
FRCA	-35.00%						
ZH-TW	4.70%						
ES-ES	28.50%						
DE-DE	31.20%						
PT-BR	31.30%						
RU-RU	36.60%						
FR-FR	46%						
ES-XL	99.30%						
18.53							



