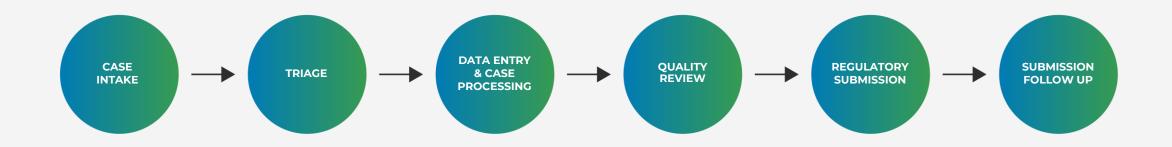
welocalize **Q**

Harmonizing
Pharmacovigilance
Translations:
Ensuring Compliance
and Quality with
Al-Enhanced Solutions.

A Regulatory and Quality Assurance Perspective

The Language Component in Case Processing



- Need for Reporting in English
- Different Traditional Approaches
- AI & professional teams to overcome the challenges the language element encompasses to guarantee you are:
 - Compliant
 - Fast
 - Cost efficient

- Accurate
- (Working in a) secure environment





Historic approach to the translation of ICRSs



Understanding the Complexity of ICSR Content

Diverse Formats

- Audio files and documents: Including structured and unstructured forms.
- Non-editable formats: Images, handwritten text, etc.

Challenges

- Accuracy risks: Especially with handwritten and non-editable content.
- **Rapid turnaround:** Typically required within 24 hours.

Volume and Complexity

- Average of **300 words** per report.
- Information may be **unexpected** and vary widely in format.



Navigating the Regulatory Landscape

EMA Guidelines

- Accurate Translations Required: "The reports should include the verbatim text as used by the primary source or an accurate translation of it." (EMA's GVP, Module VI)
- AI and Human Oversight: "EMA encourages that any AI-generated content is overseen and audited by a human."
 (Reflection paper on AI in the medicinal product lifecycle, draft July 2023)

Global Regulatory Bodies

- FDA (U.S.): Similar emphasis on accuracy and timeliness in pharmacovigilance translations.
- MHRA (UK): Enforces strict translation standards to ensure safety and compliance.
- Other Regulatory Bodies: Health Canada and Japan's PMDA follow comparable guidelines

Influence on Processes

• **Impact**: These regulations drive the need for structured workflows that combine human expertise and AI to meet global compliance requirements.

References

https://www.ema.europa.eu/system/files/documents/regulatory-procedural-guideline/wc500232767_en.pdf
https://www.ema.europa.eu/en/documents/scientific-guideline/draft-reflection-paper-use-artificial-intelligence-ai-medicinal-product-lifecycle_en.pdf

PV Requirements from the Industry

Costs

- Translation costs must be aligned with the volume of work in number of words translated.
- Necessity to avoid minimum fees and other extra surcharges.

Turnaround Times

- 24 hours or less is the standard for this type of translation.
- Consistency in delivery times is also critical, since translations are just one step in the case process.

Quality

- Reduces patient risks due to case misinterpretations.
- It also reduces the number of cases requiring follow up with authorities.

Security

- Ensure all data is encrypted during transmission and storage to prevent unauthorized access.
- Implement robust access controls to restrict sensitive information to authorized personnel only.



Pharmacovigilance Translations – Industry Approaches

Who Performs Translations

- LSOs: Local safety officers handle initial translations.
- Agencies: Translation agencies or freelancers manage bulk work.
- **PV Service Companies**: CROs and specialized firms provide comprehensive translation services.

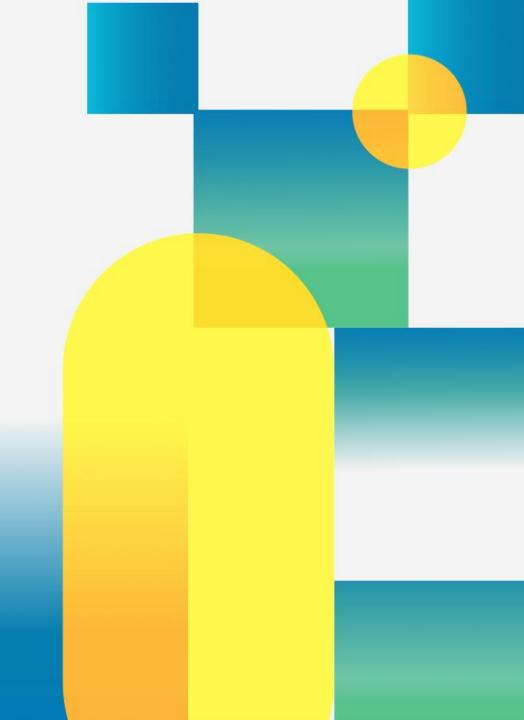
Translation Methods

- Machine translation
- Translation by non-English PV specialist
- Translation by native English translator
- ISO 17100-Compliant Translation





Modern Approach



Enhancing Compliance and Efficiency

Challenge

- **24-Hour Turnaround**: Meeting deadlines without sacrificing quality.
- Freeing LSO Time: Easing the burden on LSOs in 90 countries
- Cost Reduction: Ensuring high-quality translations cost-effectively.

Enhancement

- Regulatory Compliance: Adhered to global guidelines, leading to successful audits and consistent quality.
- Cost-Benefit Analysis: Showed reduced costs, improved efficiency, and maintained regulatory standards.

Solution

- **Global Teams**: Translation hubs in Barcelona, China, Argentina.
- Language Assets: Glossaries, translation memories, MT engines.
- Automation: Streamlined workflows.
- Pricing: Consistent, transparent structures.



30% in translation savings **Cost avoidance** More free time for LSOs Fewer local resources destinated to these tasks. 100% Results quality in more than 50 lang Consistent short 24 hour and 6 hour TATs Less follow ups



The Hybrid approach: Technology with a human touch



- Content Capture from CMS.
- Original Language Detection.
- Format Conversion to Editable Text.
- Task Assignment to Linguists.
- Delivery to Client's CMS.



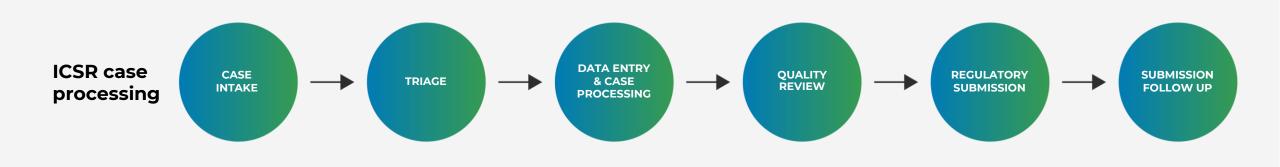
- Automated Translation of Repeated Phrases.
- Full Content Translation MT.
- Quality Enhancement with Trained Engines.



- Case Detection within Content.
- Machine Translation Quality Assurance.
- Automatic E2B File Generation from Translations.
- Automated Narrative Creation.



Welocalize AI & Automations for ICSR Processing



Welocalize solutions for every step

AUTOMATED CASE RECEIPT FROM CLIENT CMS	AUTOMATED REAL TIME TRANSLATION	AUTOMATED PHI REDACTION	HUMAN TRANSLATION INTO ENGLISH 24 HRS – ANY LANGUAGE	AUTOMATED E2B R3 FILE CREATION*	AUTOMATED NARRATIVE CREATION GEN AI*	AUTOMATED REAL TIME TRANSLATION OF AUTHORITY COMMUNICATIONS	TRANSLATION OF AUTHORIITY RESPONSES, PSURs & DSURs
 Robot/ Connector Automatic reception of PV projects Conversion into editable files 	MT translationAll languagesContent and audio files	 File's storage in a protected server workspace. Automated personal information anonymization. 	ISO certified human translation 2 linguists + QA	Automated creation of E2B files from translated AE documents.	 First version of the narrative following specific templates. Information is taken from translated AEs documents 	MT translation	ISO certified human translation by two linguists + QA

Ensuring Quality and Managing Risks



01

Quality Metrics

- Tracking Accuracy: Measure quality using metrics like error rates and audit outcomes.
- Compliance Checks: Regular audits ensure adherence to regulatory standards.

03

Computer System Validation

- Validation Protocols: Ensure all systems in the translation process are validated per industry standards (e.g., GAMP5).
- **System Integrity**: Regular testing to maintain data integrity and compliance.

02

Risk Management

- **AI Oversight**: Mitigate risks with rigorous human oversight and review processes.
- **Regular Audits**: Frequent audits identify and address issues early.

04

Enhancements

- Continuous Improvement: Use feedback loops to refine processes and enhance quality.
- Proactive Adjustments: Update workflows based on audit results and best practices to improve performance and mitigate risks.

Safeguarding Data: Privacy and Security in Translations



PHI Handling

- **GDPR Compliance**: PHI is protected under GDPR and global privacy regulations.
- **Data Anonymization**: PHI is anonymized to reduce risk.

02

Security Measures

- **Encryption**: Advanced encryption secures data in transit and at rest.
- Access Controls: Strict controls ensure only authorized access.
- **Regular Audits**: Frequent audits to detect and address vulnerabilities.

03

Enhancement

- Certifications: ISO/IEC 27001 & 27701 certification underscores our commitment to top-tier data security.
- Continuous Monitoring: Systems are continuously monitored for compliance and threat response.



Impact of AI and language technologies on Pharmacovigilance



Enhanced Safety and Compliance

- Error Reduction: AI minimizes translation errors, improving safety and compliance.
- Regulatory Alignment: Short turnaround times ensure that all content meets reporting requirements.



Increased Efficiency

- Cost-Effectiveness: AI-driven processes reduce costs and speed up decision-making.
- Optimized LSO Resources: Local Safety Officers can focus on highlevel tasks, enhancing overall productivity.



Accessibility and Scalability

- Broader Access: Companies with fewer cases can benefit from established workflows and reduced costs.
- Global Impact: AI advancements protect patients and ensure the safe use of medications worldwide.

Looking Ahead: Future Trends in Translation

Regulatory Evolution

- AI Act & ISO 42001: Established standards for AI, focusing on transparency, accuracy, and oversight.
- **Future Focus**: Anticipate stricter rules on AI in data security and compliance.

Industry Collaboration

- Extended Role of Language Services: LSPs will increasingly support more phases of case processing, partnering closely with PV service providers.
- **Best Practices**: Welocalize can lead initiatives on solid workflows, including security and risk management.

Enhancement

- Automation Growth: Greater AI use for case detection, E2B files, and narratives.
- **Scalability**: These solutions will become accessible to companies of all sizes, increasing workloads.



Any Questions?



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