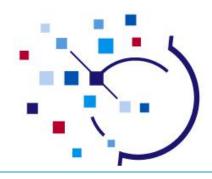
INTERNATIONAL HEALTH TERMINOLOGY
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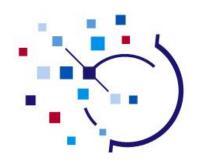
IHTSDO Support for Translation

Translation Special Interest Group

Presenters: Jane Howarth, Karin Ahlzén, Alejandro Lopez Osornio

International Health Terminology
Standards Development Organisation

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Session Overview

This session will:

- Explain how the IHTSDO through the Translation SIG can support those undertaking translation of SNOMED CT®
- Provide an overview of the IHTSDO guidance documents available for translating SNOMED CT®
- Give an overview of the quality metrics work undertaken by the Translation Quality Assessment Project Group (PG)
- Provide an overview to the translation tooling module that has been developed as part of the IHTSDO Workbench suite of applications.



About the Translation SIG

- The Translation SIG is a helpful "entry point" to the IHTSDO community, where new IHTSDO Members are able to find advice and documented experience to support their translation efforts.
- Since the formation of the IHTSDO, 3 countries have completed their translation mandate and others either have/are completing small pilots, or, are preparing to initiate translation projects in the near future.
- At the 2009 IHTSDO meetings in Denmark, one of the preconference workshops given was 'Experience of the Danish,
 Swedish and Canadian Release Centres Translating SNOMED CT Approach, Challenges and Lessons Learned (April, 2009)
- http://www.ihtsdo.org/develop/documents/translating-snomed-ct/



Scope of work of the Translation SIG

- Providing a forum where members can share experience
- Providing advice and guidance to support localisation efforts (e.g. translation).
- Providing information about IHTSDO tooling relevant for localisation
- Providing input into the development of processes and policy decisions that further improve the (English) source language terminology to facilitate SNOMED CT usage
- Providing input into processes that impact on the ability of SNOMED CT to be localised



Responsibilities and Accountability of the Translation SIG

- Support the application of the IHTSDO quality framework and the development and implementation of quality metrics for translation and localisation projects
- Support localisation and translation efforts internal to the IHTSDO and support global developments of SNOMED CT
- Provide input into the specification and testing of IHTSDO tooling relevant for localisation
- The Translation SIG is accountable to the Quality Assurance Committee; the responsible IHTSDO Officer is the Chief Quality Officer



Guidelines for Translation of SNOMED CT®

- The 'Guidelines for the Translation of SNOMED CT®' formulates recommendations and establishes guidelines on important issues relevant to the translation of SNOMED CT®.
- The Translation SIG recommends that these general guidelines be used as a template to develop national guidelines prior to, or, upon undertaking a translation project.
- In addition to extensive linguistic and terminological guidance, this document includes general recommendations about the steps involved in a translation workflow process, and, information about source documents or references that must be made available to those involved in the translation process.
- New version will be published later this autumn.
- http://www.ihtsdo.org/develop/documents/translating-snomed-ct/



Guidelines for Management of Translation of **SNOMED CT®**

- This document is a *companion* guideline for use in conjunction with the 'Guidelines for the Translation of SNOMED CT®'.
- It contains recommendations regarding the management of a translation project. The guidelines identify critical steps of the translation project and bring forward best practices from both a qualitative and a cost-effective perspective.
- The guidelines are not prescriptive regarding the detailed sequence of the steps in the translation process, since some steps are dependent on how the project is organized locally (within a country).
- New version will be published later this autumn.
- http://www.ihtsdo.org/develop/documents/translating-snomed-ct/



Snapshot of the Published Guidelines

- Although both Guidelines are largely informative not normative documents, they do provide sound advice to those wishing to undertake a target language translation of SNOMED CT®.
- It is important to note that parallels may be drawn between the Translation Guidelines and the IHTSDO Editorial policies such as those relating to Terming and Naming Conventions applicable to the International release.
- The quality of the source language terminology has great impact on the translation quality. Similarly, ongoing and completed SNOMED CT ® translation mandates often highlight some quality issues and areas for improvement within the International release. ("Catch 22")



Important Principle: Concept-Based Translation

- The basic objective of any SNOMED CT® translation is to provide accurate ("safe") and unambiguous descriptions of SNOMED CT® concepts in the target language.
- Therefore, the principle of concept-based translation must be used.
- Defining a set of national linguistic guidelines, including syntactical, morphological, and orthographic rules, to support that approach, is also crucial.
- The overall approach for the translation process should be one of ongoing, close collaboration between specialists within health and/or informatics and linguists/terminologists.



Important Principle: Translation Review

- Experience from existing translation projects indicates that a twostep review improves the quality of the translation.
 - The first review is a kind of internal quality check performed by the translation service provider.
 - The second review is an external review arranged by the translation project owner.
- The competencies of the reviewers may vary, but they are often professional translators or health or social care professionals.
- All translated terms should be reviewed by a health or social care professional who has been introduced to the structure of SNOMED CT® as well as to the rules of the linguistic guidelines applicable to the target language.



Overview of Translation Quality Assessment Work

- This work/deliverables known as "A methodology and toolkit for evaluating SNOMED CT® translation quality" was undertaken by another PG established by the Translation SIG - The Translation Quality Assessment Project Group (TQAPG).
- The existing Translation Guidelines provided the essential material from which was *derived* a reasonable set of (9) Translation Quality Indicators (to be used for assessing the quality of a target language translation).
- The Quality Toolkit work is also considered "companion work" and is referred to in both of the aforementioned Translation Guideline(s).
- The work resulted in two documents Background and Toolkit, both of which are now going through the Approval Process for IHTSDO Guidelines, and it is anticipated that both will be published this year.
- This work is one example of a practical application of the IHTSDO Quality Assurance Framework being undertaken by IHTSDO WGs.



Translation Quality Assurance Toolkit

Toolkit content:

- Background document: academic description of the development process, fully referenced.
- Methodology guide: metrics selection and practical advice on implementing the QA process
- Questionnaires and report sheet



Structure metrics

- Translation process participants' competences
 - Measured by: Questionnaires to TPO and TSP
 - Variables:
 - Languages educational background (TSP)
 - Healthcare educational background (TPO)
 - Medical translation experience (TSP)
 - SNOMED CT knowledge(TPO & TSP)



Structure metrics

- Content of linguistic guidelines in target language
 - Measured by: questionnaire
 - Variables
 - Content details:
 - Rules to deal with: ambiguities, concept details, best term selection, lexical variants, organisms and chemical names, eponyms, etc.
 - Are the current guidelines sufficient to cover these points?
 - Are you recording and using feedback to improve?



Structure metrics

- Access to translation software
 - Measured by: Questionnaire
 - Draft variables by the Translation Tooling Steering Group:
 - Do all team member use a common platform? is it the IHTSDO tool?
 - Support for translation projects, work allocation
 - Workflow facilities and Collaboration
 - Ongoing maintenance, new versions of SNOMED CT
 - Produce RF2 releases
 - Configurable QA rules

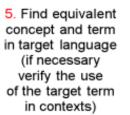


Process metrics

- Concept based translation
 - Measured by: questionnaire
 - Variable:
 - Team awareness
 - Continuous education

- 1. Read source language term
- Write target language term

- 2. Check the concept's IS-A relationship(s) + its position in
- the hierarchy



4. In case of any doubt, find examples of the source term used in context in order to elucidate the meaning





Process metrics

- Continuous co-operation between TPO and TSP
 - Measured by: questionnaire to TPO & TSP
 - Variables:
 - Periodical meetings scheduled
 - Feedback management
 - Reported need for improved cooperation



Process metrics

- Translation reviews
 - Measured by: questionnaire to TPO & TSP
 - Variables:
 - 2nd translator review for linguistic correctness
 - Awareness of importance of linguistic correctness and consistency
 - SME / Medical review for clinical acceptability and appropriateness
 - Awareness of importance of clinical usability and correctness



Outcome metrics

- Clinical acceptability
 - Measured by: feedback records
 - Options:
 - Feedback from ad-hoc clinical review (sampling)
 - Feedback from end-users



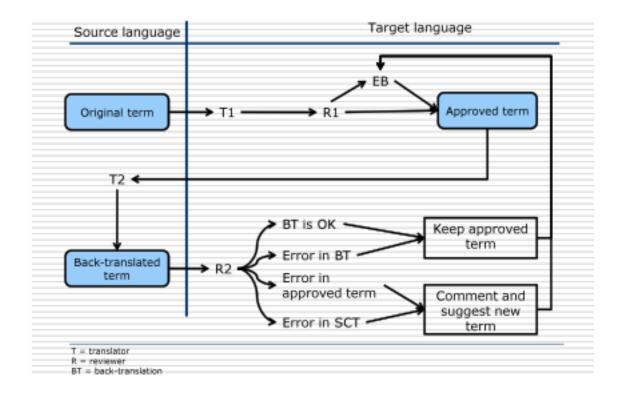
Outcome metrics

- Compliance with translation guidelines
 - Measured by: Sampling and automated checks
 - Options:
 - Automated QA checks, looking for patterns
 - Manual review of a sample to check compliance with linguistic guidelines



Outcome metrics

- Term equivalence (semantic)
 - Measured by: back translation of a sample





Questionnaries

Questionnaire 6a: For Use by TSP

Component: Process

Quality characteristic: Translation reviews

The background for this metric is to ensure that a review of terminology consistency, term equivalence and compliance with target language specific guidelines is carried out.

This includes review by the 2nd translator and review by a Subject Matter Expert (SME) or a person with relevant health-related education, i.e. a healthcare professional

Management action should be taken for negative responses to any questions.

Question	Yes	No
Are all translated concepts reviewed and validated by a reviewer?		
Have you made sure that your translators are aware of the importance of terminology consistency and term equivalence, and that they check this when reviewing?		
3. Have you made sure that your translators are aware of the importance of linguistic correctness and compliance with the target language specific guidelines and principles, and that they check this when reviewing?		



Report sheet

Translation Quality Assessment Metrics Results		
Organization:		
Metric	Result (Brief text summary of results)	Date (yyyymmdd)
TSP members competencies and knowledge		
2. TPO members competencies and knowledge		
Access to translation software		
Content of linguistic guidelines		
Concept-based translation		
Ongoing cooperation reported by TSP		
Ongoing cooperation reported by TPO		
8. Translation reviews: Consistency		
Translation reviews: Clinical usability		
10. Clinical acceptability		
11. Compliance with Translation Guidelines and Standards		
12. Term equivalence		



Component	Characteristic
Structure	Participants knowledge of terminology and terminology translation processes (characteristic also includes translators and reviewers competencies)
Structure	Content of style guides and reference materials in target language
Structure	Access to translation software
Process	Concept-based translation principle
Process	Translation reviews
Process	Ongoing communication, co-operation and translation project process adjustments between Translation Project Owner (TPO) and Translation Service Provider (TSP)
Outcome	Term equivalence
Outcome	Clinical acceptability
Outcome	Compliance with Translation Guidelines and Standards

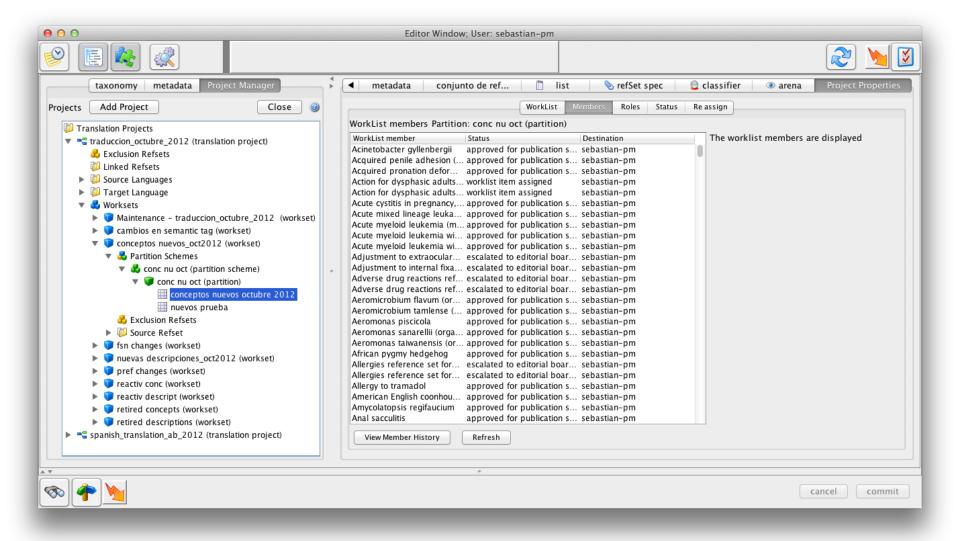


Translation Tooling

- Availability and roadmap
 - Just finished 3rd User Acceptance Test (UAT) cycle; performed by Canada Health *Infoway*
 - Six-month pilot starting in Denmark before the end of the year
 - Parallel effort underway to merge translation bundle with main Workbench application
 - After completion of the pilot and the merge, a new version of the workbench will be available for Members as part of the Managed Services, or, as libraries for local implementations

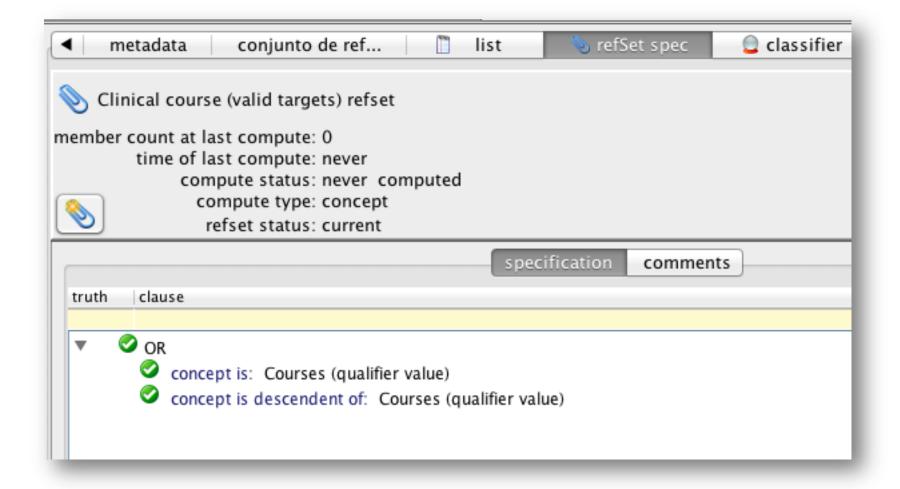


Project Manager Panel



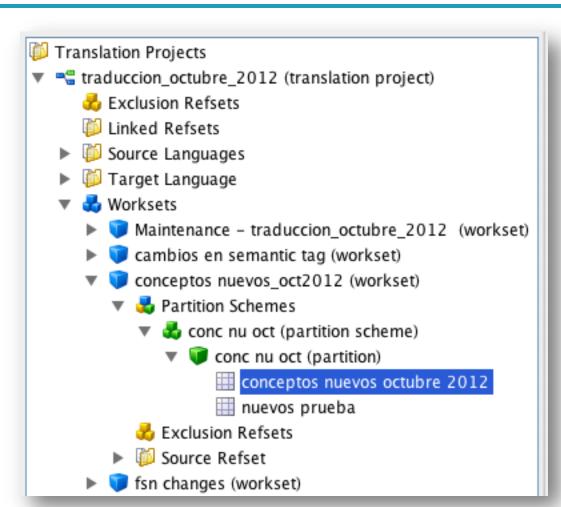


Refsets: Specification



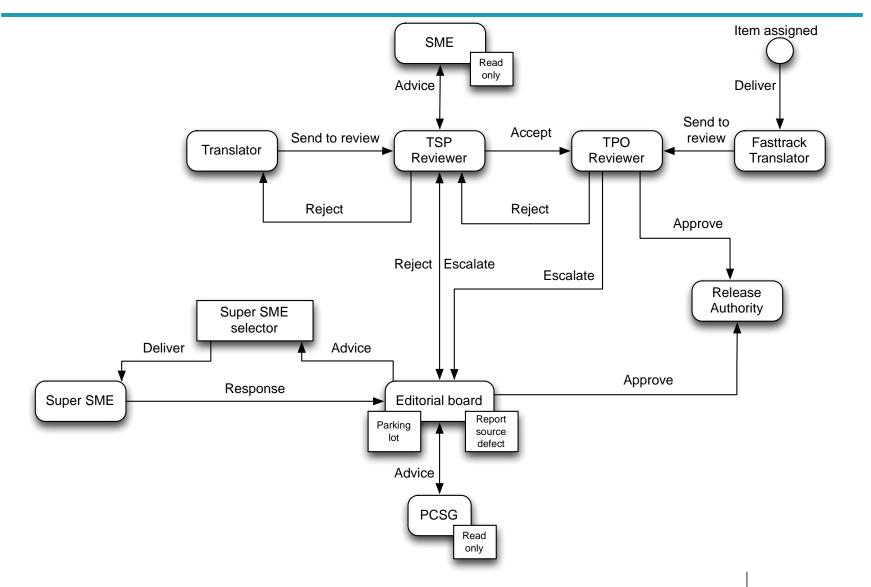


Management of Batches



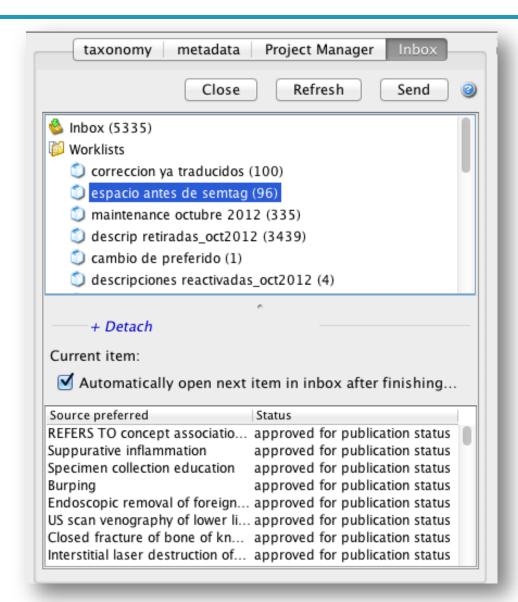


Example Workflow



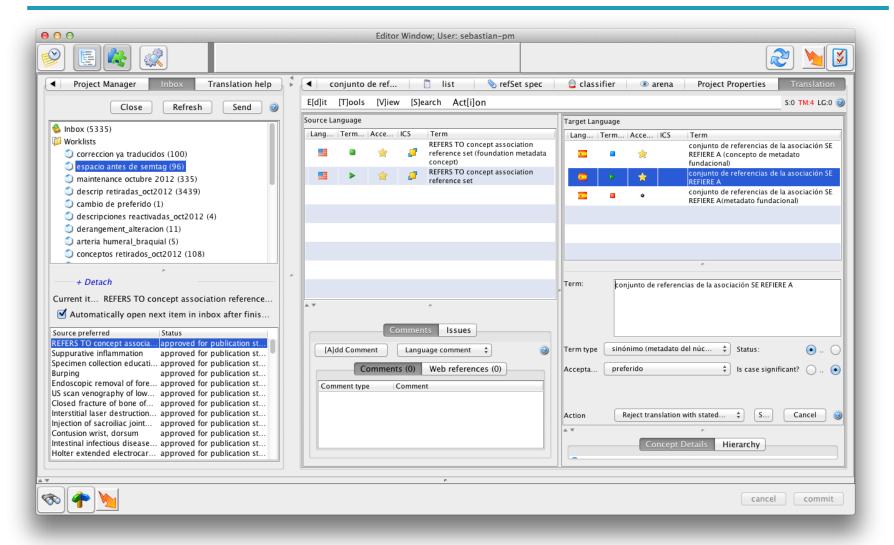


Inbox



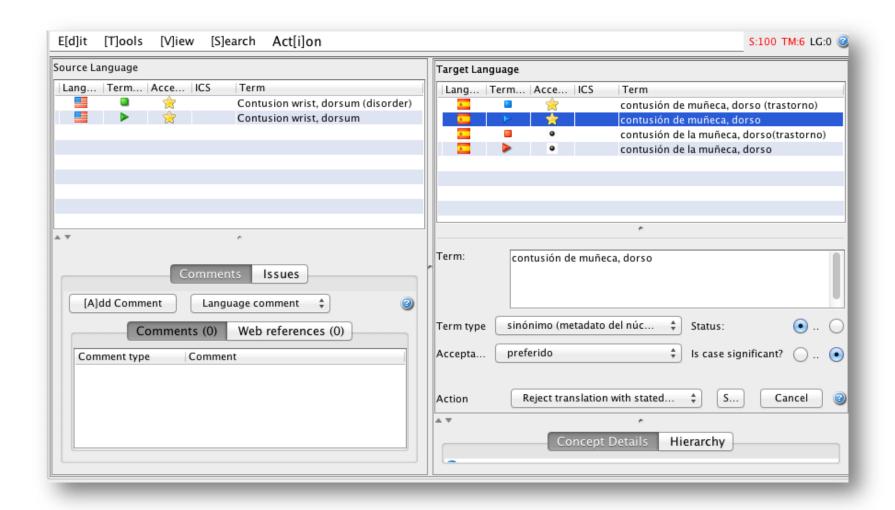


Translation User Interface (UI)





Translation panel



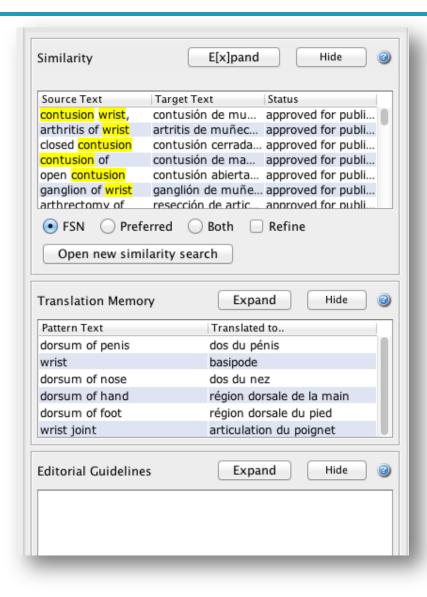


Collaboration



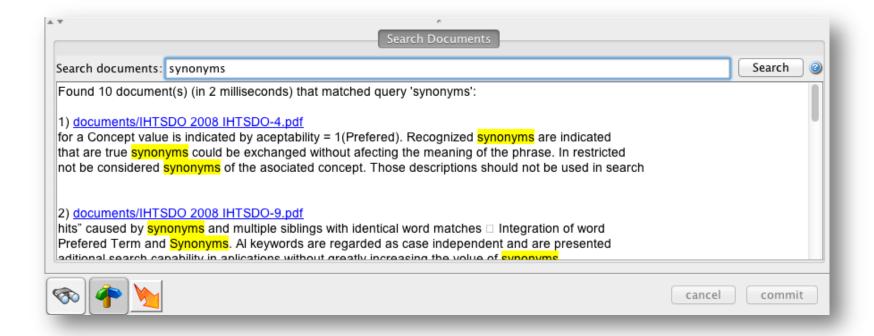


Support tools



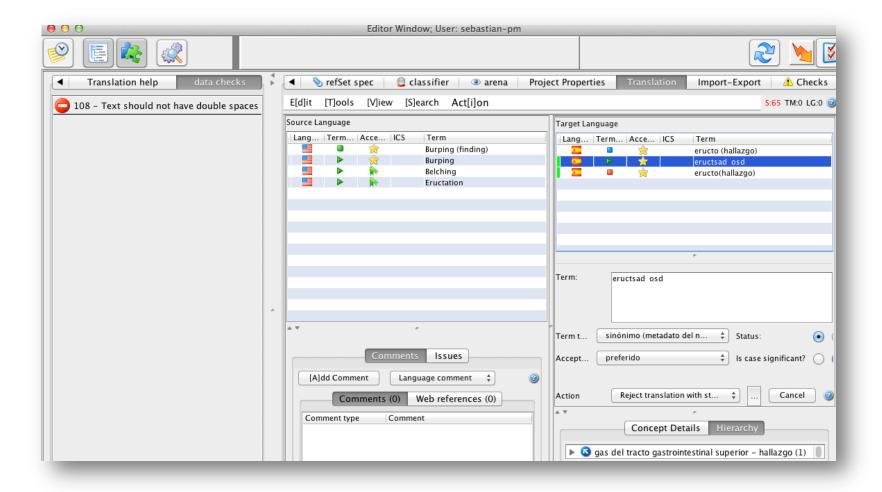


Search documents

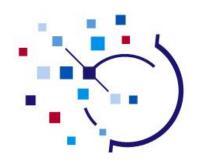




Real-time Quality Assurance (QA)

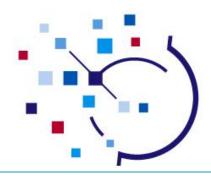


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Ačiū
Ďakujeme vám
   Danke
   Dank u
   Gracias
    Merci
  Obrigado
    Tack
    Tak
Terima kasih
 Thank you
    谢谢
    谢谢
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Thank-you kindly for your interest and participation!

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