



IT in hospitals

SNOMED CT

WHY TRANSLATION?

Implementation

User interfaces

Adopting & Adapting SNOMED CT - 3 Translation approaches



- Goal VS. Challenge
- IHTSDO Translation Material
- Word to word translation VS. Concept Based translation
- Resources & Skills required
- Background reference material
- 1. approach - Translating the whole terminology
- 2. approach - Use Case driven translation
- 3. approach - Best practice evidence based
- Questions

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SNOMED CT as a national reference terminology

The goal

To develop a practical reference terminology supporting eHealth & ICT infrastructure to enable exchange of semantic understandable patient health information, between healthcare systems in a country - maybe even cross boarder.



The Challenge

One major challenge in non-english speaking countries is to translate and quality assure relevant concepts for/ used in Patient health information in order to exchange patient health information understandable of both clinicians and IT-systems.

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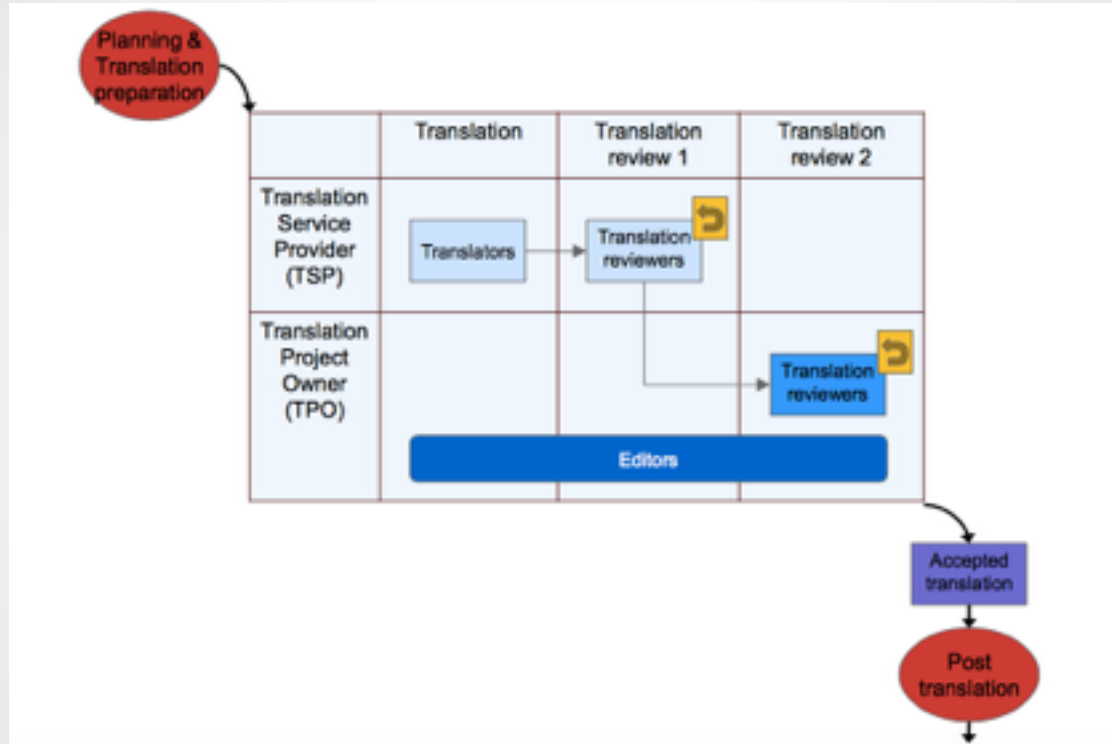
IHTSDO Translation material



- IHTSDO Guidelines for translation:
http://www.ihtsdo.org/fileadmin/user_upload/Docs_01/Publications/Quality_Assurance/IHTSDO_Translation_Guidelines_v2_02_20121211.pdf
- IHTSDO Guidelines for Management of translations:
http://www.ihtsdo.org/fileadmin/user_upload/Docs_01/Publications/Quality_Assurance/IHTSDO_Guidelines_Management_Translation_SCT_v2_02_20121211.pdf
- IHTSDO Methodology and toolkit for evaluating SNOMED CT® Translation Quality:
http://www.ihtsdo.org/fileadmin/user_upload/Docs_01/Publications/Quality_Assurance/TQA_methodology_and_toolkit_20121211_v1_00.pdf
- IHTSDO Translation SIG - replaced by the future IHTSDO User group
- IHTSDO Translation tool Assessment report (in review)

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IHTSDO Translation Workflow



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CONCEPT-BASED VS. Word-to-Word translation



- Concept-Based Translation:

- A target language word or phrase chosen in a translation that is an exact representation of the source language concept
- Ensured by:
 - understanding the meaning of the source language term,
 - including consideration of the hierarchical position of the concept, and
 - the relationships of the concept to other concepts

- Word- to-Word Translation:

- A translation based solely on linguistic and morphological-syntactical analysis
- Risk of translations resulted in seemingly correct terms not adequately representing the concept in question, nor be used by healthcare professionals

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RESOURCES & SKILLS Required



- Resources:

- Translators
- Clinical domain experts
- Terminologists
- CAT tools (computer assisted translation tools)

- Skills:

- Translation from English language to target language
- Preferable with experiences in medical translation
- SNOMED CT knowledge
- Concept Based translation
- Linguistic knowledge



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REFERENCE MATERIAL Supporting as reference material

- Clinical code systems in used in the Healthcare sector (translated, national, regional)
- Medical dictionaries
- Linguistic guidelines
- Policy documents
- Specialty articles



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1. APPROACH - Translating the whole terminology



- Reference projects: The Danish and Swedish translation of SNOMED CT
- Content to translation: All current concepts in SNOMED CT
- Scope:
 - To have a terminology to use in a structured EHR- system
 - a national resource of terminology and classifications which supplies the needs for concepts, terms and classifications within health and social care
- Process: Workflow based translation of hierarchy subsets (10.000 concepts pr. month)
- Challenges:
 - Handling errors and inconsistencies in SNOMED CT®
 - Managing subset creation
- Lesson learned:
 - Involving clinicians in external health sectors in the review process earlier
 - Translating the defining relationships earlier

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2. APPROACH - Use case driven translation

- Reference projects: The Canadian translation project & the epSOS project
- Content to translation: Dataset's selected by the projects
- Scope:
 - With use of terminology ensure the exchange of specific Healthcare informations
- Process: translation of the identified subsets by the use of 2 workflow types
- Challenges:
 - Handling errors and inconsistencies in SNOMED CT®
 - Managing subset creation
- Leason learned:
 - Getting clinicians involved in the review process earlier
 - Not possible without tooling and adaption to the tool
 - Identification of subsets



3. APPROACH - Best Practice Evidence Based Translation



- Reference projects: None (or maybe some vendors?), but countries are considering
Content to translation: Frequency data from the Convergent Medical Terminology, CMT (top 2500 problem list created based on best practice the last 10 years in KP)
- Scope:
 - Accelerate the adoption of terminology in Healthcare systems by providing generic minimum dataset in the national language
- Process: translate the frequency data list using the IHTSDO translation standards
- Summary: A small generic evidence based dataset ready for translation and proof of concept implementation in a EMR or EHR


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Questions? Comments?



Annika Sonne Hansen
SEMANTIC INTEROPERABILITY CONSULTANT
RN, MI

 ash@seminte.dk

 +45 5383 0702

www.seminte.dk

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