



SemanticMining

NoE 507505

Semantic Interoperability and Data Mining in Biomedicine

Deliverable D22.1

SNOMED Research Activity

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Associated work package: WP22

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Summary

This work package has made a compilation of existing SNOMED related activities among the partners (mainly from KI, UOM, IFOMIS (in relation to WP 21) and the Danish National Board of Health. The partners have shared experiences and methodologies for translation services. Finally the work package that started month 6 has been planning an external conference on the usefulness of SNOMED for eHealth and biomedical research in 2005.

Objectives according to workplan of the project

- To compile and share experiences on the evaluation, introduction and uses of this large reference terminology
 - Also encouraging sharing of tools for translation of SNOMED-CT

Responsible partners:

- KI and LiU(IMT) with participation of UOM, SU, DIM, UCL, MRI, KITH, SOS, STAKES and NBH, adding IFOMIS

Research issues

- Usefulness of different parts of SNOMED for different uses?
 - Use cases:
 - Clinical care interchange (possibly cross borders)
 - Decision support knowledge representation and link with patient data
 - Clinical research and National health statistics
 - Functional genomics
 - Review of various studies from different countries, Denmark, Sweden, Netherlands, UK
 - Short review of alternatives, nationally and internationally?
- Analysis of the design
 - Is Snomed an Ontology?
 - A critical review of the Description Logic approach and as implemented by CAP
 - SNOMED in relation to application development
 - SNOMED in relation to the EHR models and archetype work, particularly openEHR and EN 13606. together with WP 23.
- Translation tools specific for SNOMED
 - Using mapping through UMLS
 - Using proposals from Biomedical dictionaries
 - Using the systematics of the SNOMED system
- Relations between European countries and the SNOMED Intl organization



- Experiences from changing/amending the content –
The Drug model
 - The licensing conditions
 - Possibilities for EU co-operation and the role of the EU in relation to CAP
 - Can SNOMED be developed to a truly international organisation. WHO activities
- Proposals for cooperation with other Semantic Mining work packages
 - Linking WP26 and WP22 (and WP25/LOINC)
 - Linking WP22 and WP23

Deliverables

- Workshop for the discussion on national evaluations and strategies on SNOMED
- Report on SNOMED CT
- Report on SNOMED CT – evaluation

Meetings

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| Planning WP22 SNOMED CT | Stockholm June 4 | 8 participants from 2 partners, planning of research activities. |
| WP21 Ontology engineering and WP22 SNOMED CT | Univ of Saarland, Saarbrücken Nov 22-23, 2004 | Workshop on Description Logics and Reasoning about Patient Data. Participants will include people from IFOMIS, Jena, Dresden, Freiburg, Manchester and SNOMED CT in US. 50 participants. |
| Planning WP22 SNOMED CT | Copenhagen, Dec 6, 2004 | 12 participants |