

HunCRIS the Hungarian National Research Information System

Adam Tichy-Racs
the National Technical Information Centre and Library
at the Budapest University of Technology and Economics
(BME OMIKK)

HunCRIS in General

- HunCRIS is a Hungarian National Research and Development Registry and Information Service, established in 2001
- Research projects receiving public money have to be registered (NOT all research activities in Hungary!)
- HunCRIS is based on the EEC/91/337 [Recommendation](#), and uses CERIF_2000
- HunCRIS is bilingual – the information is available in Hungarian and in English
 - (there are still some Hungarian expressions in the English version)

Data in HunCRIS

- Projects 4500
- Organizations 1050
 - Additionally 2000 units of these organizations
- Researchers 11000
- Funds
 - Public HUF 78 million (>EUR 300 thousand)
 - Own resources HUF 28 million (>EUR 100 thousand)
- Key expressions 9000

Thesauri in HunCRIS

- Hungarian official classification of fields and branches in sciences and arts
 - two level classification system
 - 8 fields, 60 branches
- EPSS thesaurus
 - Thesaurus in Annex 2 of EEC/91/337 Recommendation (1991) cca. 280 expressions in two level structure
 - Ortelius thesaurus (multilingual thesaurus prepared as an FP4 project) cca. 1300 expressions in an inhomogeneous structure
 - EPSS thesaurus (the classification system of FP 6) cca. 2300 expressions
- **Limitation:** both systems are disciplinary ones
- **Problem:** the two systems are not compatible with each other

Evolving taxonomy

- Project managers are asked to provide key expressions (as free text) describing their projects
- Our task is
 - to transform the expressions to standard format and keep them unique
 - to insert these expressions to the best fitting branches (mark the closest broader term)
 - to create middle level expressions, if a group of expressions is too large
- As a result we nearly got EPSS thesaurus from Ortelius thesaurus – but fields that are not „cultivated” in Hungary

Outputs from HunCRIS

- access to the system

- Information homepage:
<http://www.info.omikk.bme.hu/nkr1/>
- Free online service:
<https://nkr.info.omikk.bme.hu> without any registration
 - Registered users are served better
 - Users with different rights

Outputs from HunCRIS

- thematic compilations

- [Current projects in Physics](#) in Hungarian and in English
- Transplantation in English
- Vehicle industry in Hungarian
- Transport in Hungarian
- IST project (in Hungarian, in progress)
- Global change in Hungarian and in English
- Biodiversity in Hungarian and in English

Outputs from HunCRIS

- organizational compilations

- Current projects of 13 Hungarian universities
 - in 2508 pages, during 3 days
 - with financial information
 - with indexes
 - Partners
 - Participating departments
 - Participating researchers
 - Keywords (Hungarian system, EPSS thesaurus and free expressions)

Users

- Experts of different disciplines
- Research managers of organizations
- Research managers of funding agencies
- Researchers – for partner search
- Mediators for partner search and for take-up new technologies
 - IRCs
 - Science and technology representatives of Hungary
- Industrial managers (mainly SMEs) for expert search
- Concurrent researchers
- European Researchers' Mobility Portal (Hungarian Node)

EPSS thesaurus in HunCRIS

- For the compatibility with the database of European R&D projects we adopted EPSS thesaurus
 - Kept the English key expressions and the tree structure, and translated them to Hungarian
- Sometimes revision is needed in the original Project-to-Keyword_ID relations during conversion of keyword tree
 - Research methodology is not part of Education sciences

Plans to deal with interdisciplinary and multidisciplinary concepts

- We are about adding secondary „parents” to the tree
 - But we have to prevent circular references („Esher staircase”, which always goes up, but never reaches the top)

New high level concepts

- We are about adding secondary „high level, non-disciplinary keywords”
 - Like „Nanotechnology”, „IST”
 - Among new High level keywords
 - we try to install CISTRANA taxonomy on technological areas
 - we try to integrate EPSS thesaurus and the official Hungarian national classification system

Problems in cooperation with CISTRANA

- HunCRIS is purely disciplinary
 - describes technological areas only
- Hard to migrate data according to „Sectors of implementation”

Integration of thesauri

- Using secondary parents, we can insert keywords (branches) into high level concepts of different disciplinary structures, like:
 - „Veterinary sciences”
 - Part of „Health sciences” in EPSS thesaurus
 - Part of „Agricultural sciences” in the national system

Estimation for CISTRANA project

- The taxonomy (as it is proposed) seems too rigid
 - Hard to classify projects
 - Does not help transdisciplinary migration of concepts
 - Loss of dispersed projects (projects in other classes but relevance in the given topic)
 - Use taxonomy as thesaurus!
- Estimation on the amount of data
 - 500 projects with IST relevance in Hungary!
 - Ten thousands of projects in Europe

Comments on the proposed CISTRANA taxonomies

- Consists of
 - 53 technological areas
 - 37 sectors of implementation
 - that is 53x37 „classes”
 - the classes are not uniform
- The amount of projects in any single class must be below 100 for usability
 - CISTRANA will need more than two levels (in technological areas)