

125th Anniversary Congress 18-22 September 2017

Between Tradition and Innovation

IUFRO's work in forest classification and terminology with a view to a forest ontology

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INTRODUCTION

Curious about



forest classification forest terminology?



PAST ACHIEVEMENTS

TERMINOLOGY WORK HAS TRADITION in IUFRO

These projects include:

- 1933 Flury International Bibliography System
- 1953 Joint IUFRO-FAO Bibliography Committee
- 1954 Oxford Decimal Classification (ODC) for forestry (CABI)
- 1971 Terminology of Forest Science, Technology, Practice and Products (F.C. Ford-Robertson)
- 1981 ODC revision started
- 1990 Vocabulary of Forest Management
- 1990 FDC trilingual short version
- 1992 FDC full version in German and English

International Officer of Forest Research Organizatio

cont.



PAST ACHIEVEMENTS

TERMINOLOGY WORK HAS TRADITION in IUFRO

2000	Forest Terminology (proceedings)
2000	Terminology of Forest Management
2003	Multilingual glossary of Forest Genetic
	Resources (with FAO)
2006	Global Forest Decimal Classification
	(with an online database)
2014	GFDC book published online
2017	GFDC multilingual online service
	(development version with additions to the
	Swedish and Spanish versions)



WHAT ARE WE TALKING ABOUT?

Classification

"... systematic arrangement in groups or categories according to established criteria" (Merriam-Webster)

"... system of coding, assorting and organizing (library materials) according to their subject"



WHAT ARE WE TALKING ABOUT?

Terminology

"... structured set of concepts and terms used to represent them in a specific subject field" (Wright & Budin, 1997)

"... make aware of difficulties in technical communication"



WHY ARE WE DOING IT?

variety of definitions

concepts change with time

English lingua franca ?

new terms - neologisms

... good terminologies reveal differences



MORE RECENT ACHIEVEMENTS

Global Forest Decimal Classification (GFDC)*

Main features:

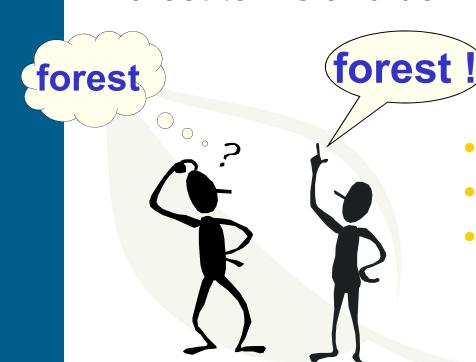
- Custom designed by foresters
- Hierarchical subject divisions
- Developed over 100 years
- Classification provides language independent numeric subject hierarchy with 2752 categories and an alphabetical subject index
- GFDC is an official part of UDC
- Online GFDC (FPInnovations, Canada)

^{*}coordinated by J. Saarikko



SILVATERM: FACTS and FIGURES

Forest terms and definitions

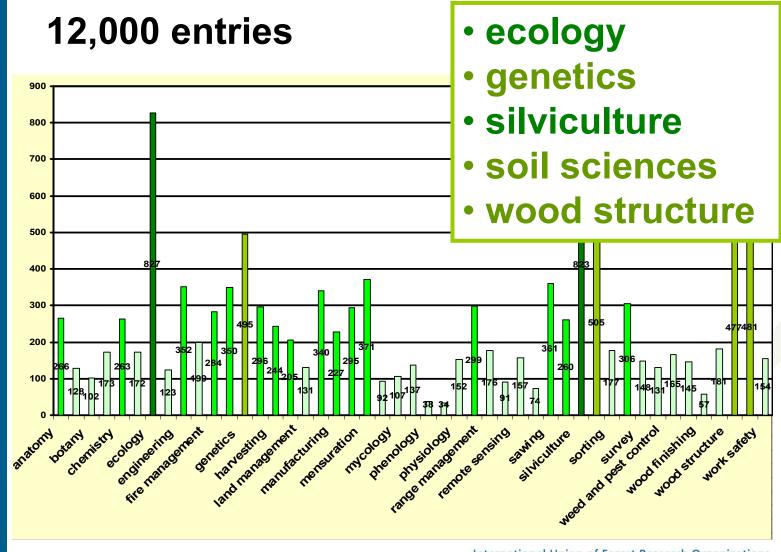


- Designed in 1998
- online since 1999
- only database to specialize in forest

for efficient communication



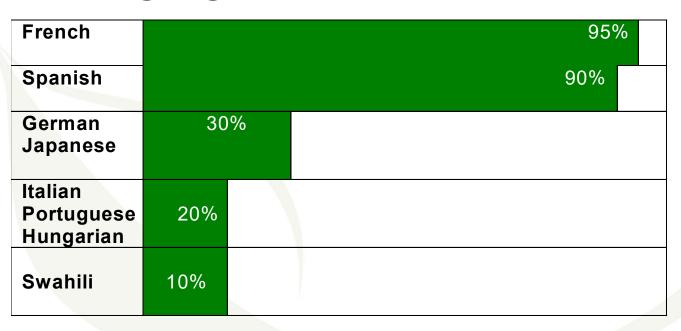
1 SILVATERM: FACTS and FIGURES





SILVATERM: FACTS and FIGURES

> 8 Languages



Other languages: Chinese;

Polish, Romanian, Swedish, Russian



SilvaTerm Data

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English Term:

afforestation

Short Form:

Synonym(s):

Definition:

The establishment of a forest, stand or tree crop on an area not previously forested, or on land from which forest cover has very long been absent.

Cross Reference:

Note:

If on land from which trees have recently been removed it is termed reforestation.

Source:

*FR

Hyperlink:

http://f9010.ffpri-109.affrc.go.jp/forterm/http://home.att.net/~gklun/DEFpaper.html

IUFRO Unit:

4.04.07 SilvaPlan

Subject Field:

silviculture

Equivalent terms in other languages:

Autorstung ae:

hu: erdősítés

forestación sp:

fr: reboisement

reflorestamento pt:

rimboschimento It:

sh: upandajimiti



WHO IS USING IT?



- Forest Scientists
- International Processes
- Decision-makers, politicians
- Students in forestry
- Translators, Interpreters
- Information managers



TOWARDS THE FUTURE

- Library classifications are **not dead**. They have a new life in ordering and searching content online.
 - The Universal Decimal Classification was created for information retrieval and management.
- Linking GFDC terms and categories with existing terminologies would help in developing a forest ontology.



WHAT ARE WE TALKING ABOUT?

Ontology

"... a machine-readable set of definitions that create [a taxonomy of] classes and subclasses and relationships between them" (WebOntology Working Group)



TOWARDS THE FUTURE

- To reorganize all the concepts included in both the SilvaTerm database and GFDC classification into a multilingual ontology with hierarchical and other relationships
- ❖ Terminology brings the semantics and the content, the classification/ thesaurus brings the structure and relationships and all mixed together with some more ingredients in a machine readable format builds up an ontology.



Thank you for the attention