

Tesouro ISOC de Urbanismo (The CINDOC/CSIC thesaurus for urbanism)

COST Action C21

**Urban Ontologies for an improved communication in
urban civil engineering projects**

Working Group Meeting

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OUTLINE

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Tesouro ISOC de Urbanismo

Introduction

- **Conceptual system**
 - consisting of **4422 terms in Spanish language**
 - used in Urban and Town and Country Planning
- Made under **UNE 50-106-90** standard equivalent to ISO 2788-1986 (“Guidelines for establishment and development of monolingual thesauri”)
- Last update **1992**

Tesaurus ISOC de Urbanismo

Institutions

- **CSIC** (Consejo Superior de Investigaciones Científicas)
 - Spanish National Research Council
 - Public institution of scientific research
- **CINDOC** (Centro de Información y Documentación Científica)
 - Centre for Scientific Information and Documentation
 - Some tasks:
 - Production and updating of scientific and technical databases
 - Production and updating of terminological tools for indexing and retrieving information in databases

Scope and Terms 4,442

- Public administration **386**
- Architecture – Construction - Housing **496**
- Law **222**
- Economy **408**
- Education **49**
- Community facilities **351**
- Space **293**
- Infrastructure - Public works **179**
- Geography **66**
- Environment – Natural resources **296**
- Rural habitat **74**
- Methodology – Documental sources **515**
- Planning **301**
- Sociology - Demography **496**
- Transport – Traffic – Communication **290**

Semantic Relationships

- ❖ **Equivalence relationship between terms with same meaning**

subway = undergrounds

- ❖ **Hierarchical relationship between broader and narrower terms**

Metallic materials
Steel, iron

- ❖ **Associative relationship between terms that are neither equivalent nor hierarchical**

Car / Traffic

Hierarchical Display

- 1 Red viaria
 - 2 Viario interurbano
 - 3 Autopistas
 - 4 Autopistas de peaje
 - 3 Autovías
 - 3 Caminos
 - 4 Caminos forestales
 - 4 Cañadas
 - 2 Viario urbano
 - 3 Autopistas urbanas
 - 3 Calles
 - 3 Vías de circunvalación

Alphabetical Display

Red viaria

UP Red de carreteras

TE Viario interurbano

Viario urbano

TR Transporte por carretera

Viario interurbano

TG Red viaria

TE Autopistas

Autovías

Caminos

TR Áreas de descanso

Permuted Display (KWIC)

Mantenimiento de	Autopistas
	Autopistas de peaje
	Autopistas urbanas
	Autopistas
	Autovías
	Calles
Limpieza de	Calles
	Caminos
	Caminos forestales
	Cañadas
Vías de	circunvalación
Caminos	forestales
Viario	interurbano
	Limpieza de Calles
	Mantenimiento de Autopistas
Autopistas de	peaje
	Red viaria
Autopistas	urbanas
Viario	urbano
Red	viaria
	Viario interurbano
	Viario urbano
	Vías de circunvalación

Choice of Terms

- ❖ **URBISOC**, bibliographic database with scientific articles specialized in Urban and Town and Country Planning
- ❖ Other thesauri specialized in urban topics (**URBAMET**)
- ❖ **Lexicon, dictionaries, vocabularies and glossaries** specialized in Urban and Town and Country Planning

Methodology

- ❖ Choice of sources
- ❖ Terms selection
- ❖ Choice of general schema and distribution of terms
- ❖ Building relationships between terms (equivalence, hierarchical and associative)
- ❖ Computerization (thesaurus software)

Working Group

- **Documentalists**
 - ❖ General coordination
 - ❖ Support to experts
 - ❖ Extraction of terms
- **Experts on urban and spatial matter** (professionals, teachers and researchers)
 - ❖ Building relationships between terms
- **Experts on computer**
 - ❖ Building programs for managing thesauri

Access

❖ HTML

(http://thes.cindoc.csic.es/index_esp.html)

❖ Printed

Tesouro ISOC de Urbanismo

Improvements

- ❖ **New terms**
- ❖ **Adaptation to merging terminological tools (ontologies)**