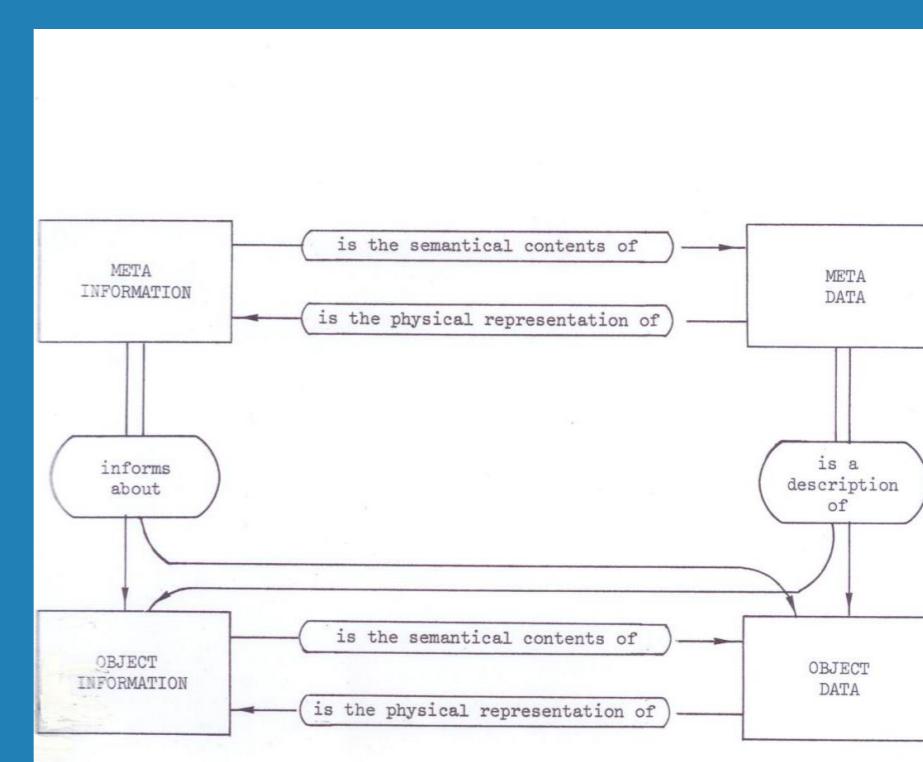


# FUNCTIONS OF METADATA & METAINFORMATION FOR UTILIZATION OF E-INFORMATION RESOURCES IN ERA OF “BIG DATA”

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## SUNDGREN'S “CLASSICAL” MODEL OF METADATA & METAINFORMATION & METAINFORMATION SYSTEM



## METADATA - METAINFORMATION

- ❑ - METADATA IS THE PHYSICAL REPRESENTATION OF METAINFORMATION AND IS A DESCRIPTION OF DATA
- ❑ - METAINFORMATION IS THE SEMANTIC CONTENT OF METADATA AND INFORMS ABOUT DATA/INFORMATION

## TYPES OF METADATA

- |                       |               |
|-----------------------|---------------|
| ❑ - DOCUMENT ORIENTED | - SEMANTICAL  |
| ❑ - OBJECT ORIENTED   | - TECHNICAL   |
| ❑ - MACRO             | - INFOLOGICAL |
| ❑ - MICRO             | - DATALOGICAL |
| ❑ - LOCAL             |               |
| ❑ - GLOBAL            |               |
| ❑ - CLASSIFICATION    |               |
| ❑ - CONCEPTUAL        |               |
| ❑ - OPERATIONAL       |               |
| ❑ - ORGANIZATIONAL    |               |

## METADATA HOLDINGS CLASSICALLY ORIGINATED IN LIBRARIES

- |                    |                      |
|--------------------|----------------------|
| ❑ - CATALOGUE      | - METADATA WAREHOUSE |
| ❑ - DICTIONARY     | - METADATA ON WWW    |
| ❑ - DIRECTORY      | - “BIG DATA”         |
| ❑ - GLOSSARY       | - SOCIAL NETWORKS    |
| ❑ - THESAURUS      |                      |
| ❑ - REGISTER       |                      |
| ❑ - CLASSIFICATION |                      |
| ❑ - CODE-LIST      |                      |
| ❑ - NOMENCLATURE   |                      |
| ❑ - METADATA BASE  |                      |

## METADATA OBJECTS

- |                   |                   |
|-------------------|-------------------|
| ❑ - BOOKS         | - DATABASES       |
| ❑ - POPULATIONS   | - PERIODICALS     |
| ❑ - PUBLICATIONS  | - JOURNALS        |
| ❑ - FILES         | - CLASSIFICATIONS |
| ❑ - OUTPUT TABLES | - NOMENCLATURES   |
| ❑ - TIME-SERIES   | - CODE-LISTS      |
| ❑ - ALGORITHMS    | - PHENOMENAS      |

## METADATA FUNCTIONS

- |                    |                   |
|--------------------|-------------------|
| ❑ - INFORMATION    | - PROCESSING      |
| ❑ - DOCUMENTATION  | - PRESENTATION    |
| ❑ - INTERPRETATION | - UTILIZATION     |
| ❑ - NAVIGATION     | - INTEGRATION     |
| ❑ - SEARCHING      | - COMPARISON      |
| ❑ - ORIENTATION    | - RATIONALIZATION |
| ❑ - RETRIEVAL      | - GLOBALIZATION   |

## METADATA MODELS, TOOLS, METHODS, STRUCTURES, SYSTEMS

- |                   |               |
|-------------------|---------------|
| ❑ - ISO/IEC 11179 | - SIDI/SDOSIS |
| ❑ - UML           | - METIS       |
| ❑ - MDA           | - GESMES      |
| ❑ - XML/XMI       | - NESSTAR     |
| ❑ - DDI           | - CLAMOUR     |
| ❑ - CWM           | - METANET     |
| ❑ - ESPLORIS      | - MOF         |
| ❑ - INFOLOGIC     | - DATALOGIC   |

## METADATA MODELS, TOOLS, ... (CONT.)

- |                     |                   |
|---------------------|-------------------|
| ❑ - MOM             | - MIMAMED         |
| ❑ - ISTAT           | - MAMEOB          |
| ❑ - IQML            | - CRISTAL         |
| ❑ - IDARESA         | - FASTER          |
| ❑ - SDSS-GDDS (IMF) | - NEUCHATEL GROUP |
| ❑ - CMR             | - DUBLIN CORE     |
| ❑ - GESMES          | - TRIPLE S        |
| ❑ - CORBA           | - SGML/XML        |
| ❑ - CODAM           | - ...             |

## FUTURE OF THE WEB-BASED & “BIG DATA” METADATA

- ❑ - STANDARDIZATION
- ❑ - UNIFICATION
- ❑ - HARMONIZATION
- ❑ - (RE-) ORGANIZATION
- ❑ - LEGALIZATION (INTERNATIONAL - NATIONAL)
- ❑ - GLOBALIZATION (OBLIGATORY WWW META HEADINGS, SETS, METABASES)
- ❑ - FIRST LEGISLATION STEPS BY THE EU: REGULATION (EU) 1311/2014 AMENDING R (EC) 976/2009

THANK YOU!

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