Metadata in production lines and the Geographic Information Acquis

Metadata in the publication and distribution of geographic information

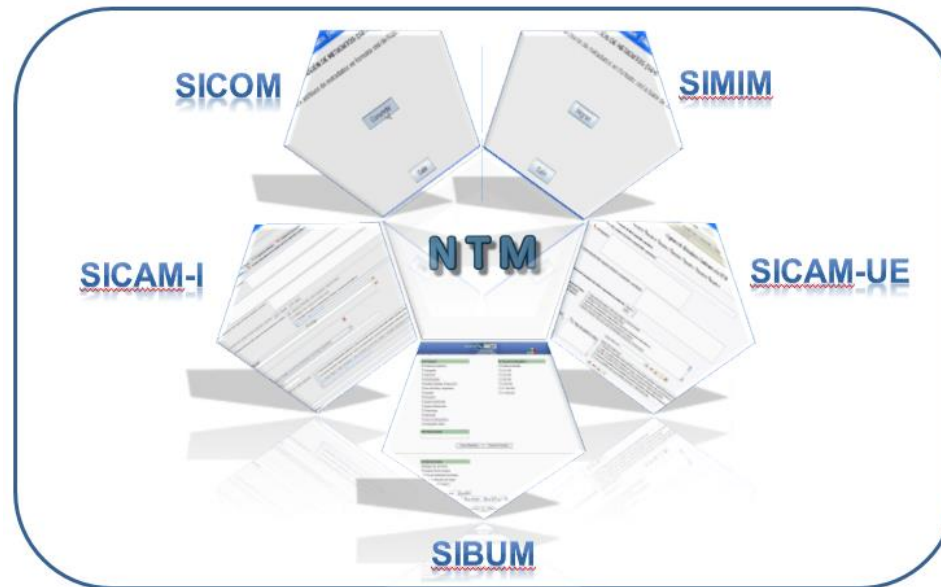# Implementation of the Technical Standard for the Geographic Metadata Development

- To implement the Technical Standard for the Geographic Metadata Development, several actions were taken.

    - Developing software for converting, capturing and publishing metadata

    - Convert existing metadata to the new format.

    - Training courses to government agencies.

    - Publish metadata under the new format.

Implementation of the Technical Standard for the Geographic Metadata Development

- The following software was developed:
    - Metadata Conversion System (SICOM)
    - Metadata System Migration (SIMIM)
    - Metadata Capture System (SICAM)
    - Metadata Search System (SIBUM)

Implementation of the Technical Standard for the Geographic Metadata Development

- SICOM: transforms the metadata from de FGDC to the Technical Standard for the Geographic Metadata Development (NTM).

- SIMIM: incorporates metadata in XML format to a database under the NTM.

- SICAM INEGI: allows to capture the metadata of INEGI geographic data sets under the NTM.

- SICAM State Units: allows to capture the metadata of State Units geographic data sets under the NTM.

- SIBUM: search, access and view geographic metadata in the INEGI NTM Node and from distributed sites of other State Units.

Implementation of the Technical Standard for the Geographic Metadata Development
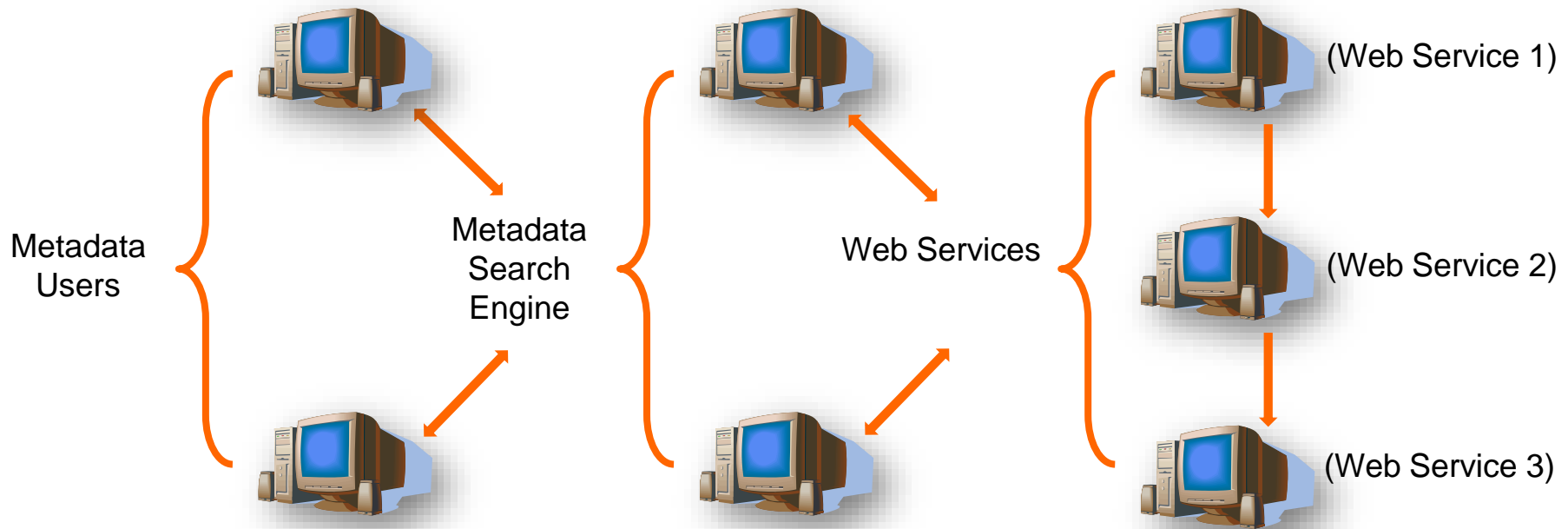
- Characteristics of the software solution:

  - The development platform is Java

  - Metadata is administered in a Database

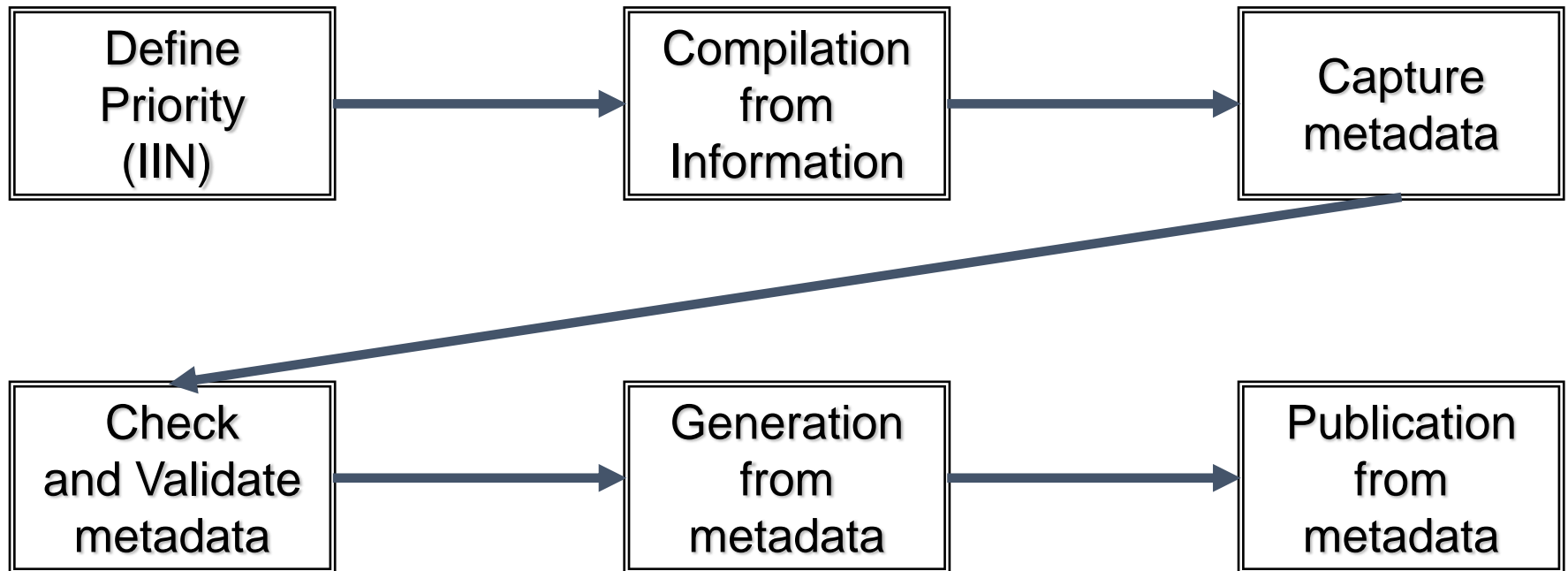 - DBMS supported are: MySQL, PostgreSQL, Oracle and SQL Server

Implementation of the Technical Standard for the Geographic Metadata Development

- Web Services Schema to enable Sites and Search Engines Metadata (Gateways) within Distribution Centers Metadata (Clearinghouses) according to the NTM.

Metadata in production lines and the Geographic Information Acquis

- Producing areas of geographic information (specialists or experts) are responsible for capturing metadata and provide them to the area responsible for managing the metadata that, in turn, receive, review, validate and publish them.

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┌─────────────┐      ┌─────────────┐      ┌─────────────┐
│   Define    │      │ Compilation │      │             │
│  Priority   │ ───► │    from     │ ───► │   Capture   │
│   (IIN)     │      │ Information │      │  metadata   │
└─────────────┘      └─────────────┘      └─────────────┘

┌─────────────┐      ┌─────────────┐      ┌─────────────┐
│   Check     │      │ Generation  │      │ Publication │
│ and Validate│ ───► │    from     │ ───► │    from     │
│  metadata   │      │  metadata   │      │  metadata   │
└─────────────┘      └─────────────┘      └─────────────┘
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IIN: National Interest Information

Metadata in the publication and distribution of geographic information

- The Geographic Data Sets are published and is available for internal and external users. The information is accompanied by the corresponding metadata under the NTM Standard.

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