Terminology Server in the Netherlands

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Healthcare in the Netherlands

Population
Approx. €17 million

Gross Domestic Product (GDP)
Approx. € 700 billion

Healthcare expenditure
Approx. € 70 billion

Healthcare employees
Roughly €1,1 million
Healthcare in the Netherlands

Private individual/Insured person

Healthcare providers

Health Insurer
Complex environment

Hospital
G-Standaard
DHD DT
NANDA
LOINC
SNOMED CT
ICD-10
DBC
CBV

Nursing Home
iStandaarden
G-Standaard
Omaha Systems
RAI View

GP
NHG tabellen
G-Standaard
Complex environment

Hospital
- G-Standaard
- DHD DT
- NANDA
- LOINC
- SNOMED CT
- ICD-10
- DBC
- CBV

Nursing Home
- iStandaarden
- G-Standaard
- Omaha Systems
- RAI View

GP
- NHG tabellen
- G-Standaard
Governance (International)

- Holder
  - appoints
  - Pursebearer
    - Sets financial framework
  - appoints
  - Authorisator
    - appoints
    - Expert
    - Functional Manager
      - appoints
      - Technical Administrator
      - appoints
      - Distributor
        - appoints

Governance (National)

- **Ministry of Health**
  - Sets financial framework

- **Holder**
  - appoints

- **Authorisator**
  - appoints

- **Expert**
  - appoints

- **Functional Manager**
  - appoints

- **Technical Administrator**
  - appoints

- **Distributor**
  - appoints
Governance

Nictiz
• Holder of standards
• Maintain
• Qualification

Ministry of Health
• Financial (Pursebearer)

Field/vendors
• Implementation
• (Local) Maintenance
Dutch Legislation

- **EHDS**, European Health Data Space
- **WEGIZ**, Electronic data exchange in healthcare
- **Funding programs**: VIPP
The big issue with terminology

- Multiple standards
- Release format & planning
- Vendors

- And … Everybody needs it …
The National Terminology Server

Nictiz has started the implementation of the National Terminology Server. We use Ontoserver from our Australian partner CSTRO for this. This terminology server helps software vendors and data scientists keep up-to-date national terminology content such as SNOMED and the Dutch lab code set.

Nictiz’s National Terminology Server is an FHIR compliant solution that makes available international terminologies and classifications such as SNOMED and LOINC, as well as national terminologies according to FHIR specifications.

No need to manually update anymore

The use of the terminology server eliminates the need for more and more applications to manually update the systems with downloaded content from the Member Licensing and Distribution Service (MLDS) or other sources. In doing so, the terminology server removes the barrier to implementing terminology. Updates can be made real-time or synchronized on demand. We like to think along with you to find the best solution for this.

Terminology Center
- COVID-19 terminology
- The National Terminology Server
- Dutch Lab Code Set
- Reference lists
- Browser terminology and code systems
- Training offer Terminology Center
- SNOMED National Release Center

Instruction manual
Guide for new users
Manual for new users (Dutch version)
Goals of the National Terminology Server

- Terminology
- Implementation
- Smart capabilities of terminology
  - Postcoordination
  - Mappings
  - Translation
- Free of charge
Content on the National Terminology Server

SNOMED
NL Labcodeset
LOINC
HGNC
Human Phenotype Ontology (HPO)
ICD-10 (NL)
ICPC1-NL
NHG
ART DECOR
Why?
Current Landscape in the Netherlands
Advantage of a Central Terminology Service
Advantage of a Central Terminology Service

Diagram showing the integration of various medical terminologies (SNOMED CT, Nictiz, LOINC) with FHIR through local transforms.
Terminology Server Ecosystem
Terminology Server Ecosystem
Optimistic Perspective?
Summary

• Governance and terminology
• FHIR enables
• NTS is free of charge
Questions