SNOMED CT in Ireland

Being part of an International Community

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ARCHITECTURE DEVELOPMENT & ASSURANCE

EA Vision
Technical Architecture Roadmap
Reference Architectures
Architecture Patterns & Domain Blueprints
Team Skills & Capabilities
Architecture Practices & Education
Architecture Representation – National
Architecture Representation - EU
Architecture Review Session
Regulatory Compliance Support
3rd Party Contract Reviews
IT Security & Standards
OID Registry
Innovation Support
EU National Contact Point
SNOMED CT National Release Center

Key Deliverables
Standards, Policies & Guidelines
Architecture Roadmaps
Architecture Blueprints
Architecture Reference Architectures & Patte
Architecture Education Programme
Regulatory Compliance Support
Information Security & GDPR Checklists
OID Registry

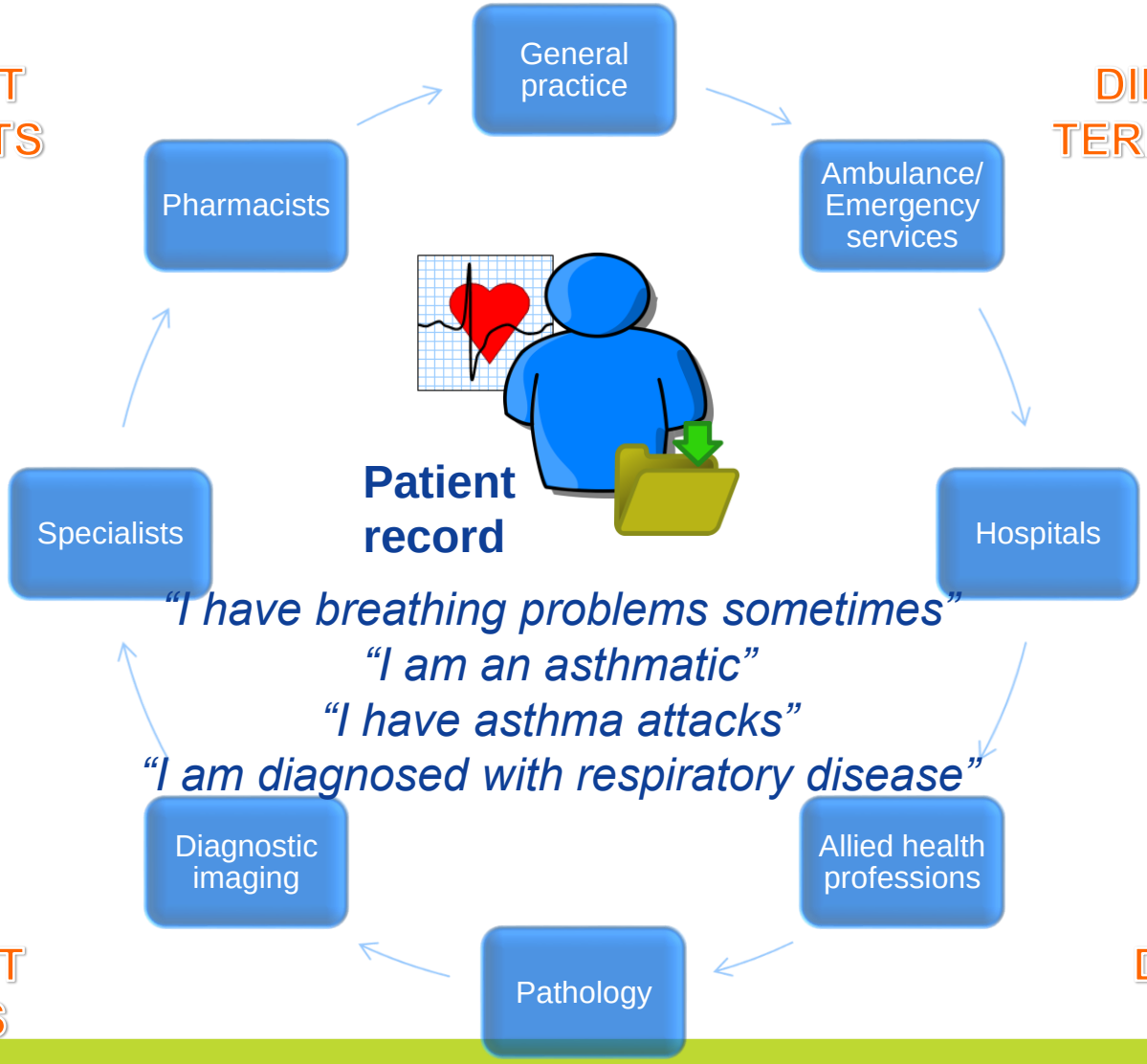
SlainteCare

Figure 3: Principles set out in the Sláintecare Report

The interoperability challenge

DIFFERENT DOCUMENTS

DIFFERENT TERMINOLOGY

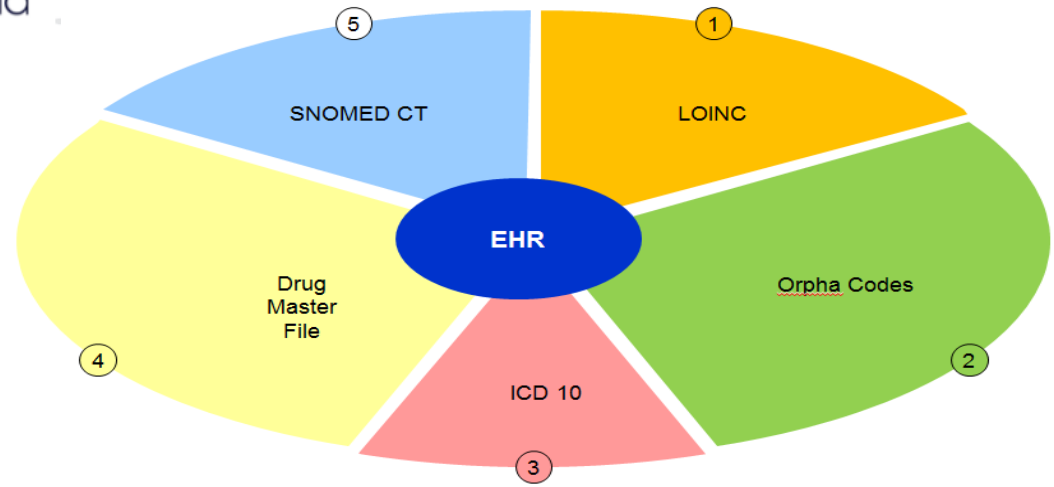


DIFFERENT FORMATS

DIFFERENT SYSTEMS

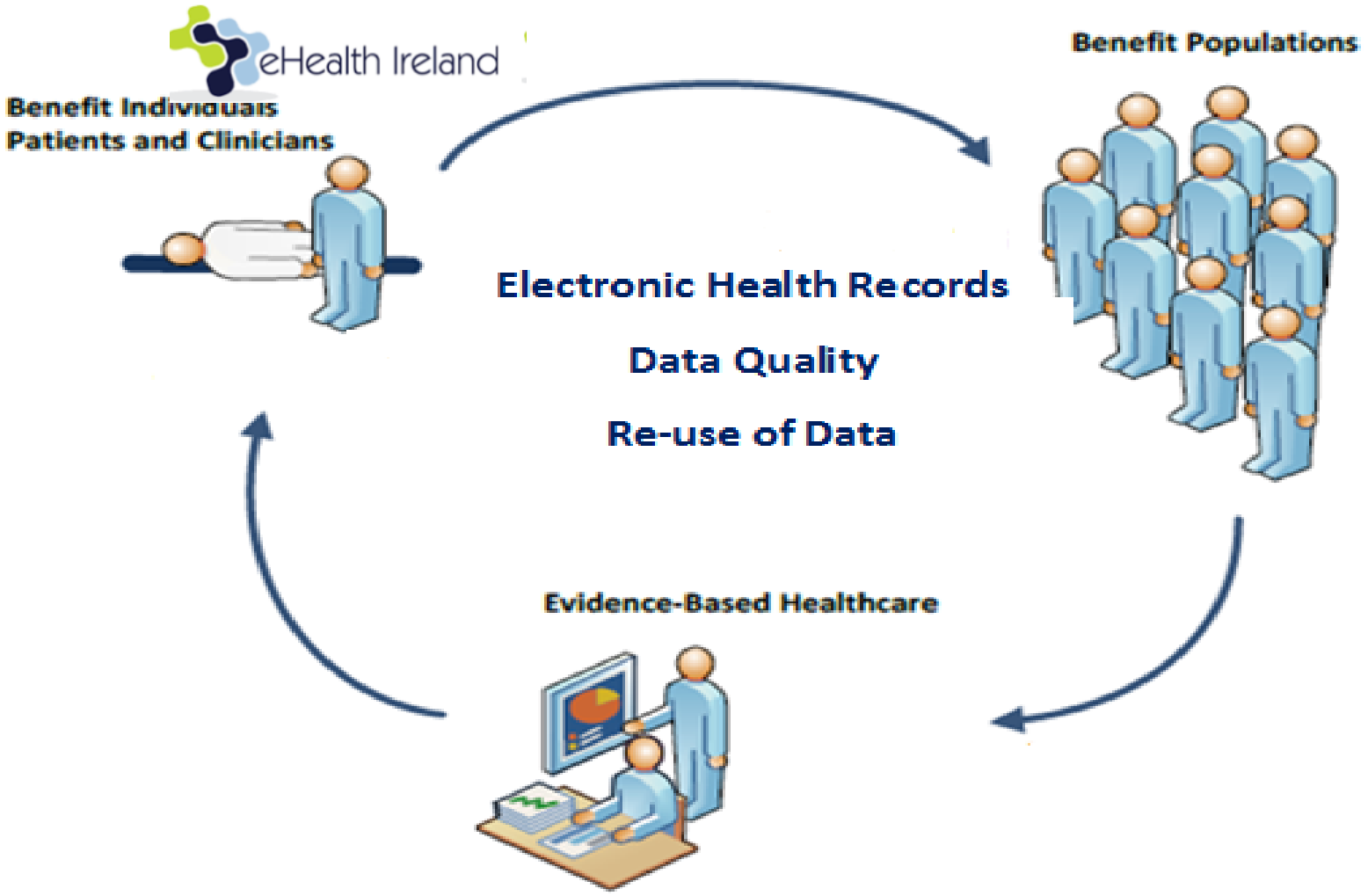
Terminologies/Classifications

- ICD 10



	SNOMED	ICD 10
Type	Terminology System	Classification System
Purpose	Information Input	Information Output
Function	Describes and defines clinical information for primary data purposes	Aggregates and categorises clinical information for secondary data purposes

Benefits of SNOMED CT



HIQA Recommendations 2014

- 1) SNOMED CT should be **adopted** as a national clinical terminology for Ireland immediately.
- 2) A SNOMED CT National license should be **purchased** and the resourcing and functioning of a national release centre for Ireland should commence in 2015.
- 3) The feasibility of entering into an **agreement** with a SNOMED CT national release centre in another jurisdiction should be investigated in order to provide support in the short-term (early stages of operation of SNOMED CT in Ireland).
- 4) SNOMED CT should be **introduced** gradually on a project-by-project basis with the active support of the SNOMED CT National Release Centre.
- 5) In order to future proof information communication technology (ICT) investment, the requirement to support SNOMED CT should be included in all relevant software **procurements** from now on.
- 6) A **review** should be undertaken to determine the most appropriate agency to establish and operate the SNOMED CT National Release Centre

What is SNOMED?

- SNOMED CT is a terminological resource that can be implemented in software applications to represent clinically relevant information reliably and reproducibly thus
  - providing standardised way to represent clinical information
  - improving our ability to code, retrieve, and analyse clinical data

- SNOMED CT
  - the most comprehensive clinical terminology available internationally
  - organised in 19 hierarchies such as diseases, symptoms, procedures
  - composed of concepts, descriptions and relationships
  - extensive
    - - 293,000 concepts
    - - 765,000 descriptions
    - - 830,000 relationships

Irish NRC

Establishing the NRC is similar to establishing a franchise “knowledge, processes, and trademarks”

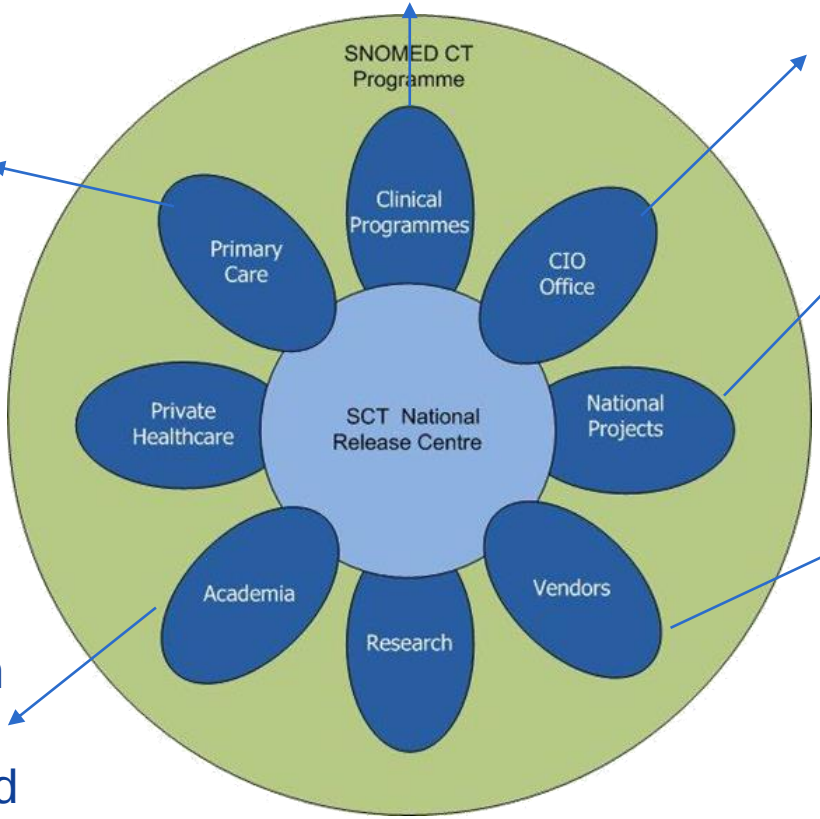
Engagements to date

CCIO and CIO Nursing, Clinical leads all HSE domains and commence Masterclasses

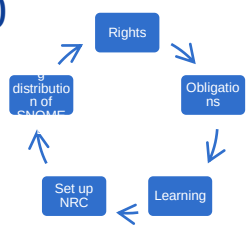
Office of CIO is the delivery channel for SNOMED CT

Chronic Disease Management

AFIS, CDM, EHR, MN-CMS,NRH,CHI

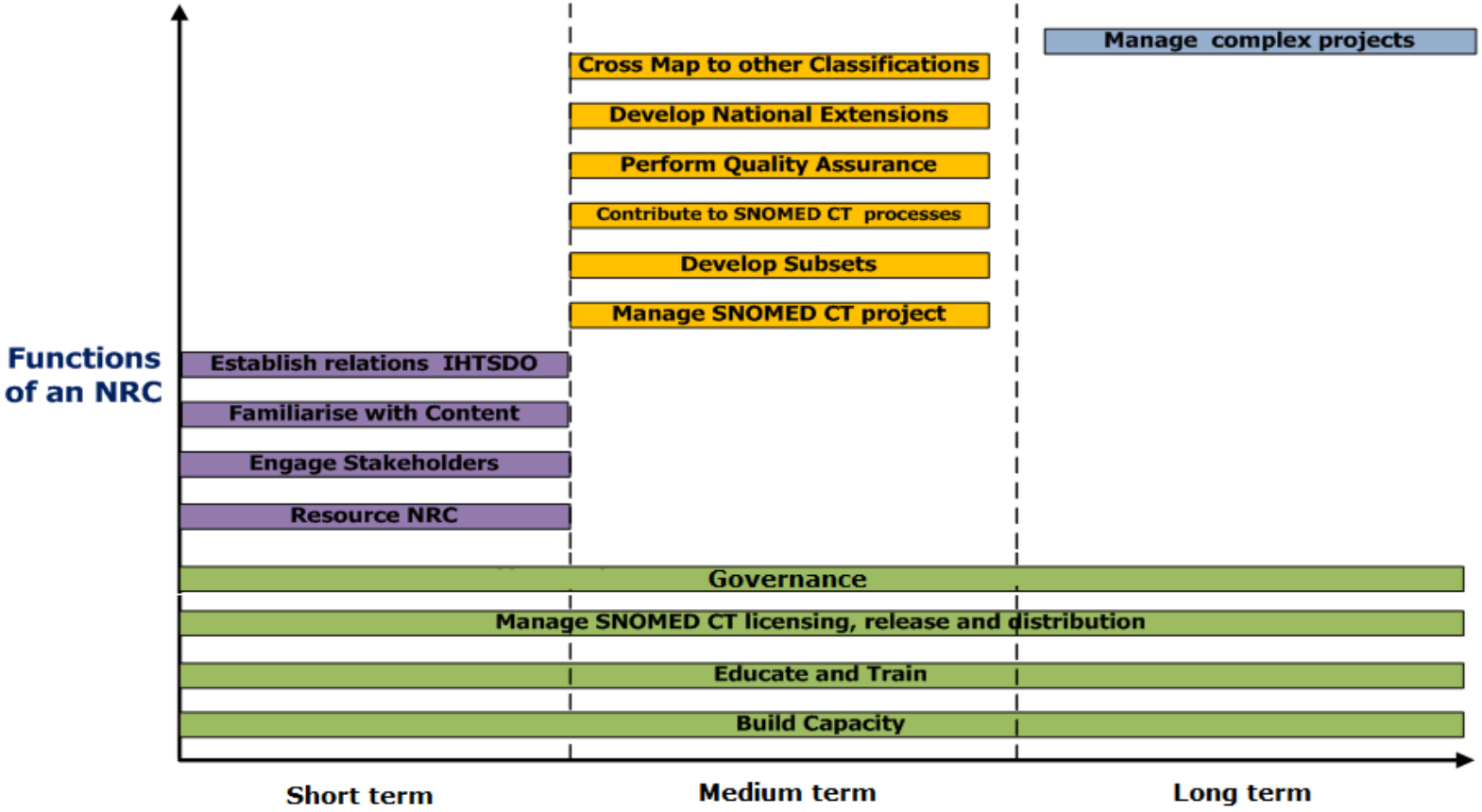


Vendor specification document and developers day March 2020



Presentations given in UCC, UL and HISI

Implementation of a National Release Centre



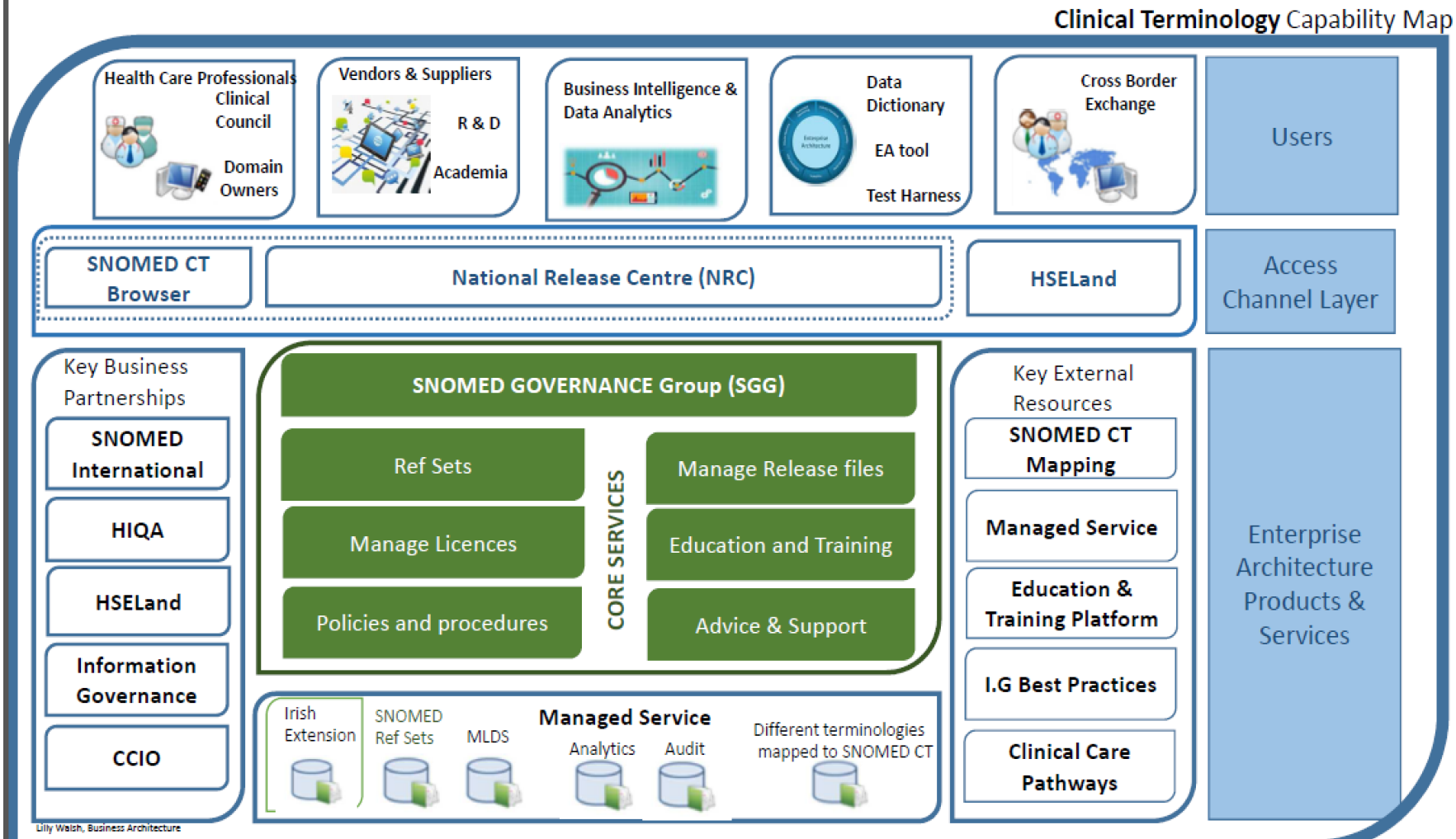
General Assembly –is the highest authority in SNOMED International and contains one representative from each member country
They can make binding decisions on budgets, work plans and strategic goals
Twice yearly face to face meetings

Member Forum rep-acts as an advisory body to the Management board and facilitates point of contact for all stakeholders
Optimizes the collaboration and coordination among member countries
Facilitates contact and communication between countries with similar foundations/needs
Can raise issues of concern to management board
Key player in which work items should be priortized
Twice yearly face to face meetings

Strategic deployment

Vision	The SNOMED International objective is to enable users of SNOMED CT is to facilitate the accurate recording and sharing of clinical and related health information and the semantic interoperability of electronic health records.		
Scope	A National Release Center (NRC) has the responsibility to serve as the interface between SNOMED International, the national users and Affiliates, and other Members.		
Strategic Direction	Introduction	Deployment	Compliance
Tactical Plan	Presentations Conferences Social Media Workshops	Define process of engagement Managed Service Policies and procedures Training of resources	Governance Training and education (end users) Quality assurance
Integration	• CCIO • Communications • EA	• PMO • NCP • DD	• SNOMED International • HIQA • DOH

Capability Map



Clinicans role /Office of CIO role

Having all our healthcare information on computers will improve everything?

- SNOMED CT is the clinical terminology that will record, retrieve, and help us to analyse our patient information for better patient outcomes
- This needs to be configured for our systems with our clinical leads deciding what clinical terms are in our systems

Ensure Vendor specification document included in all clinical system procurements
Ensure clinicans are aware of requirement to engage with NRC

SNOMED International SNOMED CT Browser

SNOMED CT Statistics - International Edition

The SNOMED International SNOMED CT Browser provides ways to browse and search SNOMED CT. The browser has been implemented as part of development within the SNOMED International Open Tooling Framework, by the SNOMED International and its development partners

The Browser is provided by SNOMED International to anyone for reference purposes. The interface and REST APIs are **not** to be used as part of production systems in health care settings.
Any abuse of the REST APIs will result in the offending IP address being banned from accessing the browser.

Please provide any feedback on the browser by clicking on the feedback button at the top of the page. Your feedback is essential to the evolution and improvement of this service. Please visit the SNOMED CT Content Request Service to provide content feedback.

This site has been optimized for the Google Chrome browser and **it will not work with Internet Explorer.**
If you do not have access to Chrome, please visit the IE compatibility version here

International Editions

Go browsing... International Edition 2019-07-31

Go browsing... Spanish Edition 2019-10-31

Local Extensions

Go browsing... Argentinian Edition 2019-05-31

Go browsing... Australian Edition 2019-07-31

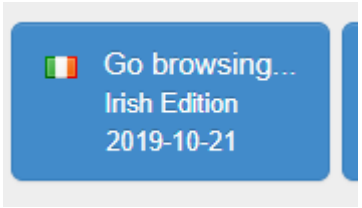
Go browsing... Belgian Edition 2019-09-15

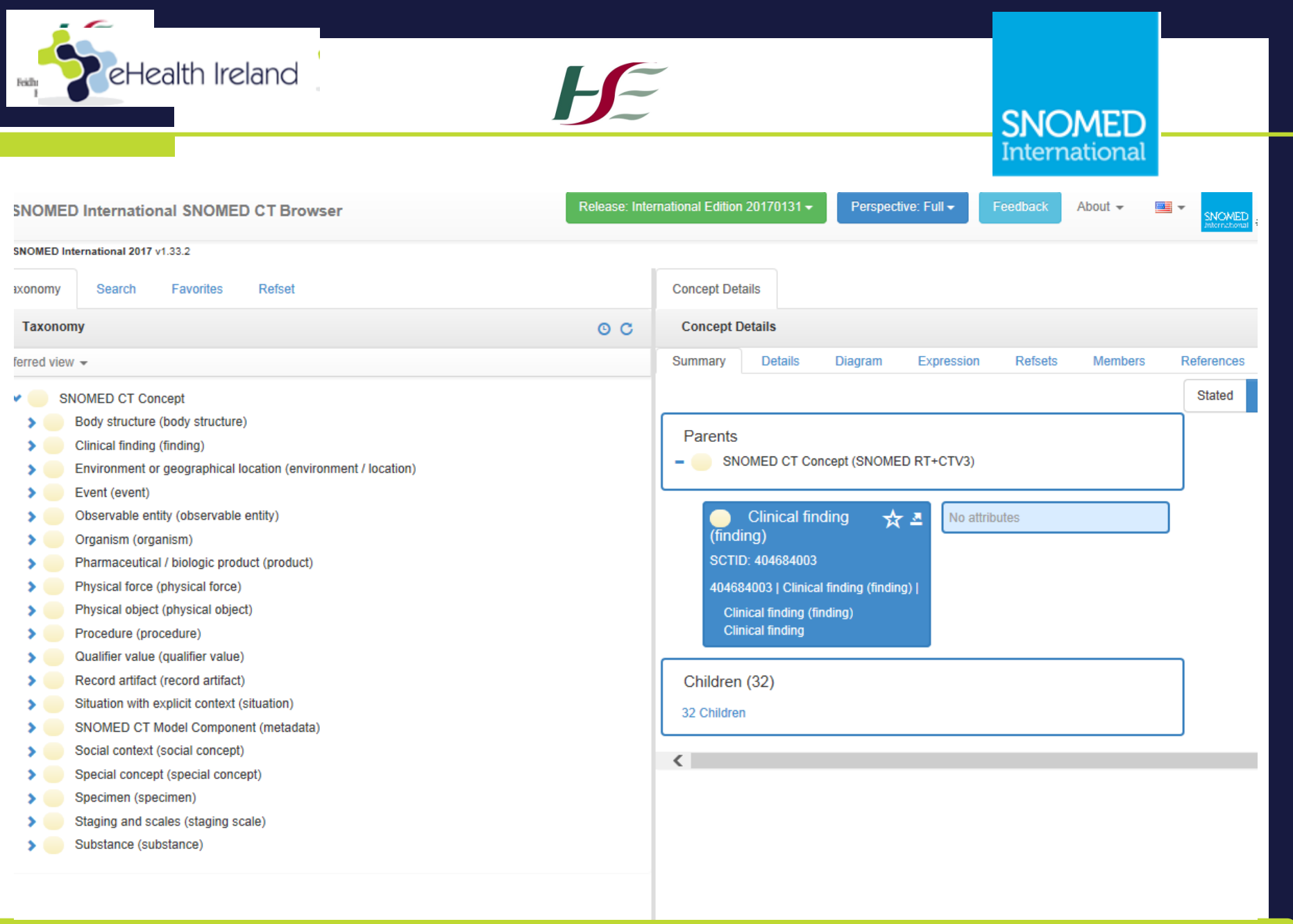
Go browsing... Canadian Edition 2019-09-30

Go browsing... Danish Edition 2019-09-30

Go browsing... Irish Edition 2019-10-21

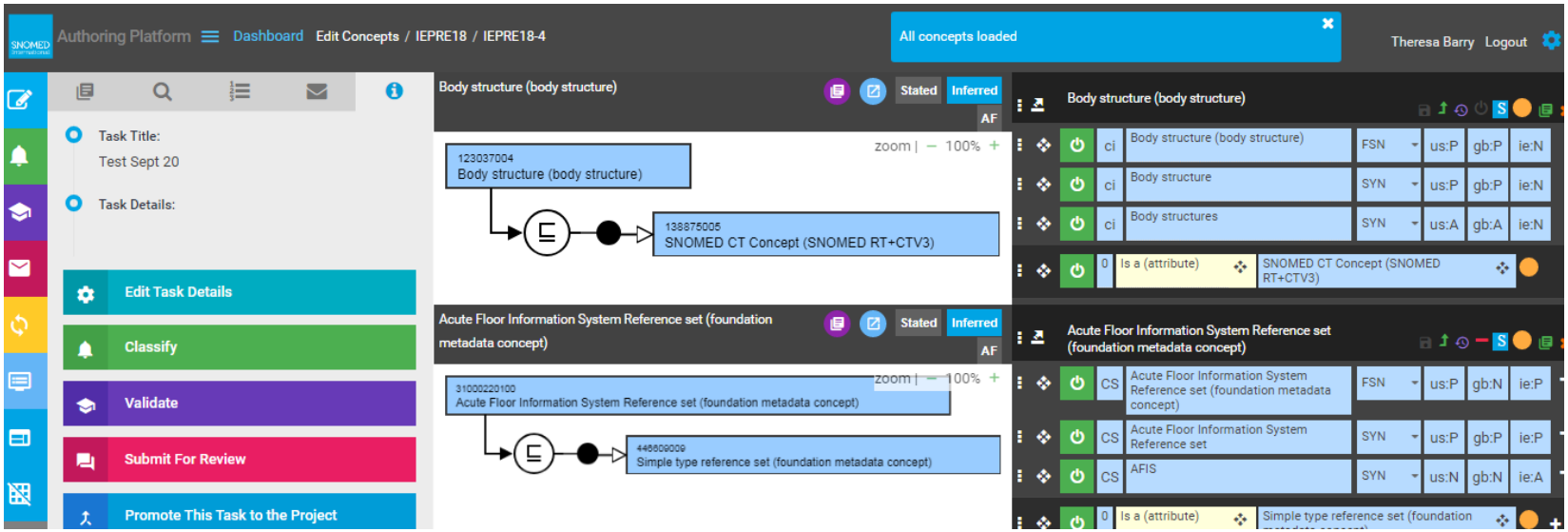
Go browsing... Netherlands Edition 2019-09-30




SNOMED International SNOMED CT Browser
Release: International Edition 20170131
Perspective: Full
Feedback
About
SNOMED International 2017 v1.33.2
axonomy
Search
Favorites
Refset
Concept Details
Taxonomy
Concept Details
ferred view
Summary
Details
Diagram
Expression
Refsets
Members
References
Stated
SNOMED CT Concept
Body structure (body structure)
Clinical finding (finding)
Environment or geographical location (environment / location)
Event (event)
Observable entity (observable entity)
Organism (organism)
Pharmaceutical / biologic product (product)
Physical force (physical force)
Physical object (physical object)
Procedure (procedure)
Qualifier value (qualifier value)
Record artifact (record artifact)
Situation with explicit context (situation)
SNOMED CT Model Component (metadata)
Social context (social concept)
Special concept (special concept)
Specimen (specimen)
Staging and scales (staging scale)
Substance (substance)
Parents
SNOMED CT Concept (SNOMED RT+CTV3)
Clinical finding (finding)
SCTID: 404684003
404684003 | Clinical finding (finding) |
Clinical finding (finding)
Clinical finding
No attributes
Children (32)
32 Children

Managed service

- 2nd release October 2019 Next release April 2020



Advisory groups

- Content Managers advisory groups
- E-Learning Advisory groups
- Terminology Release Advisory Group
- Modeling Advisory Group
- Editorial Advisory Group
- Software Development Advisory Group
- Tooling Advisory Group

- Role of an advisory group
- SNOMED International has seven Advisory Groups (AGs) that conduct specific activities that contribute to the fulfillment of the Management Team's responsibilities and the organization's mandate.
- The Advisory Groups are chaired by Management Team members and are agile in nature, given the changing needs and direction of the organization.
- At the beginning of each year, each Advisory Group develops a group work plan outline, determines whether Task and Finish sub-groups are required, outlines any resource requirements, and lays out a set of criteria in order to measure the progress of the applicable group work plan.

CRG's

Clinical-Reference-groups

- Allergies/Hypersensitivity and Intolerance Clinical Reference Group
- Anesthesia Clinical Reference Group
- Blood Components Clinical Reference Group
- Cancer Synoptic Reporting Project Group
- Clinical Engagement
- Dentistry Clinical Reference Group
- Family Practice and General Practice Clinical Reference Group
- Genomics and Precision Medicine Clinical Reference Group
- Medical Devices Clinical Reference Group
- Mental and Behavioural Health Clinical Reference Group
- Nursing Clinical Reference Group
- Nutrition Care Process Terminology Clinical Project Group
- Pathology and Laboratory Medicine Clinical Reference Group

User-groups

- Translation User Group

SNOMED-teams

- SNOMED International Technical Group

Clinical Engagement strategy

SNOMED International Clinical Engagement strategy sets out the organisations approach to engaging with clinicians and clinical groups. It provides a framework for engagement activities, and details how clinical input will be provided to ensure that SNOMED CT meets the requirement of clinicians, and remains clinically relevant in the changing face of healthcare.

VISION -

- To ensure that all activities of the SNOMED International are influenced by global clinical communities
- SNOMED International's culture has a progressive and sustainable approach to engaging clinicians

Access strategy here **Clinical Engagement**

WELCOME

- **Why is your opinion important to us?**

  As a clinical terminology, it is essential that SNOMED CT has input from clinicians to ensure that it remains relevant and up to date with the ever changing face of healthcare. Your opinion as clinicians is therefore essential to us to highlight the necessary changes and updates required, and advise us on content and products e.g.subsets which can be provided to support the implementation of SNOMED CT.

- **The evolution of clinical engagement**

  SNOMED CT has always had input from clinical groups throughout its history. Historically, this has been provided through special interest groups (SIG's), groups dedicated to specific clinical areas. The groups have been successful, but have been limited in their number of specialties covered; Dentistry, Nursing, Pathology and Laboratory medicine, Anaesthesia, Family/General Practice, Pharmacy. In addition to the clinical SIG's, there were two functional SIG's covering Mapping and Implementation.

  Clinical Engagement has always been central to the development of SNOMED CT. In 2016, SNOMED International formally recognised the importance of clinical input, through the creation of a dedicated clinical engagement team and the agreement of clinical engagement strategy. The aim of the strategy is to provide a scalable approach to engaging with clinicians, and to ensure SNOMED CT has the input required to ensure it remains up to date and relevant to clinical practice. To provide a scaleable approach for gaining clinical input from all clinical specialties, SNOMED International has put in place Clinical Reference Groups.

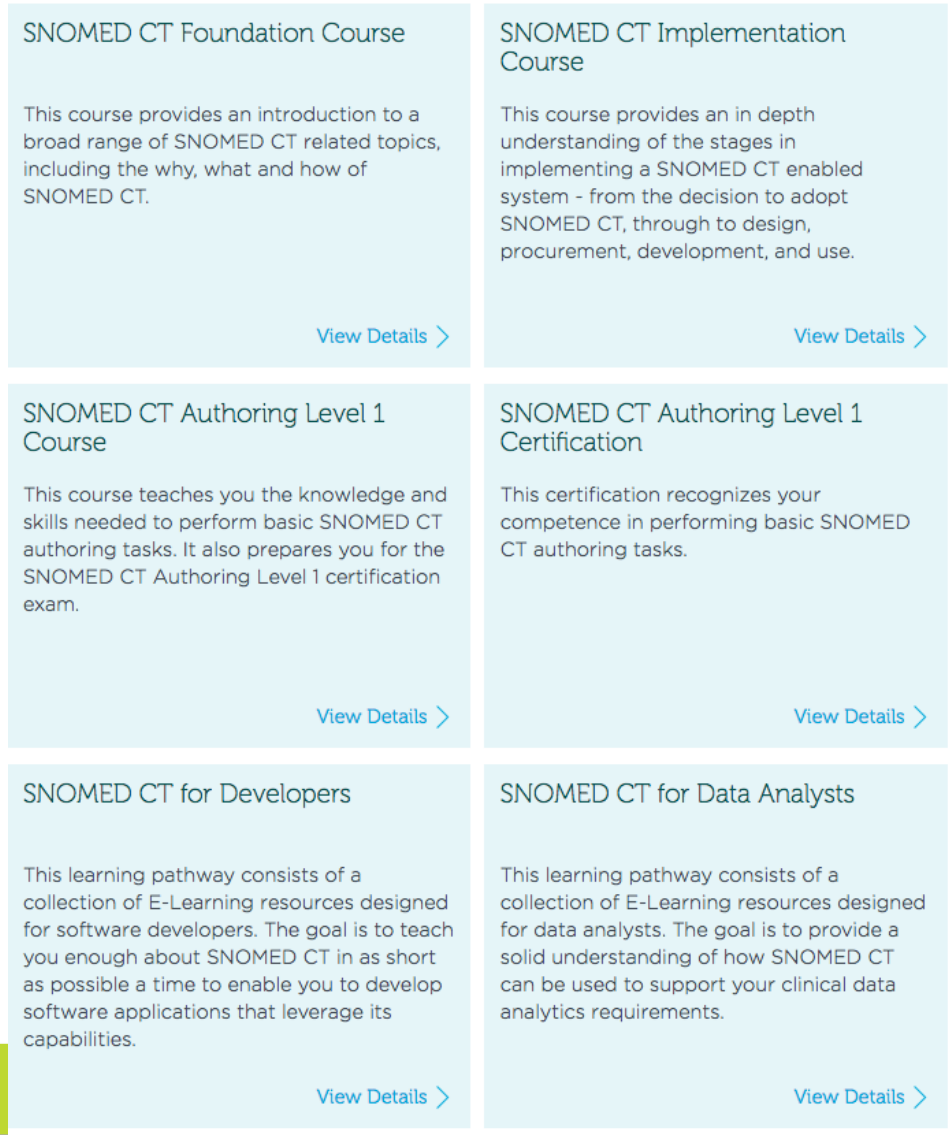
ABOUT

Analytics

- SNOMED CT concepts are modelled in such a way that their meaning can be represented using a formal family of logics called
- Description Logic (DL). Description logic enables computers to make inferences about the concepts in SNOMED CT and their meanings,and to classify SNOMED CT using a DL reasoner. Description logic also allows the formal computation of:
- Subsumption – Testing pairs of expressions to see whether one is a subtype of the other
- Equivalence – Testing pairs of expressions to see whether they have the same logic-based meaning
- Subsumption and equivalence are both extremely useful functions when retrieving or querying clinical information. For example, when retrieving all clinical records related to 73211009 |diabetes mellitus|, it would usually be necessary to retrieve records referring to any subtype of this concept, such as 23045005 insulin dependent diabetes mellitus type 1A

SNOMED CT Course Catalogue
E Learning

The SNOMED CT Course Catalogue offers education courses and certification exams for beginners through to advanced users of SNOMED CT.



Next steps

Key stakeholders

- PMO, Vendor engagement document circulated and available

Vendor developers day March 24th 2020

- Clinicians', Clinical Forum engagement and Master classes planned.

Clinicians to configure datasets to create ref sets to import into solutions

Useful Links

Useful links

Email NRC@hse.ie

Website http://www.snomed.org/

Apply for an affiliate licence

https://mlds.ihtsdotools.org/#/landing/IE?lang=en

Education and learning

Log in to www.hseland.ie (if you are a first time user select 'create an account')

Select 'Hubs' from the homepage

Enter the 'Share Centre'

Select 'SNOMED-CT' from the list of Projects and Resources

SNOMED CT Browser

https://browser.ihtsdotools.org/?

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