



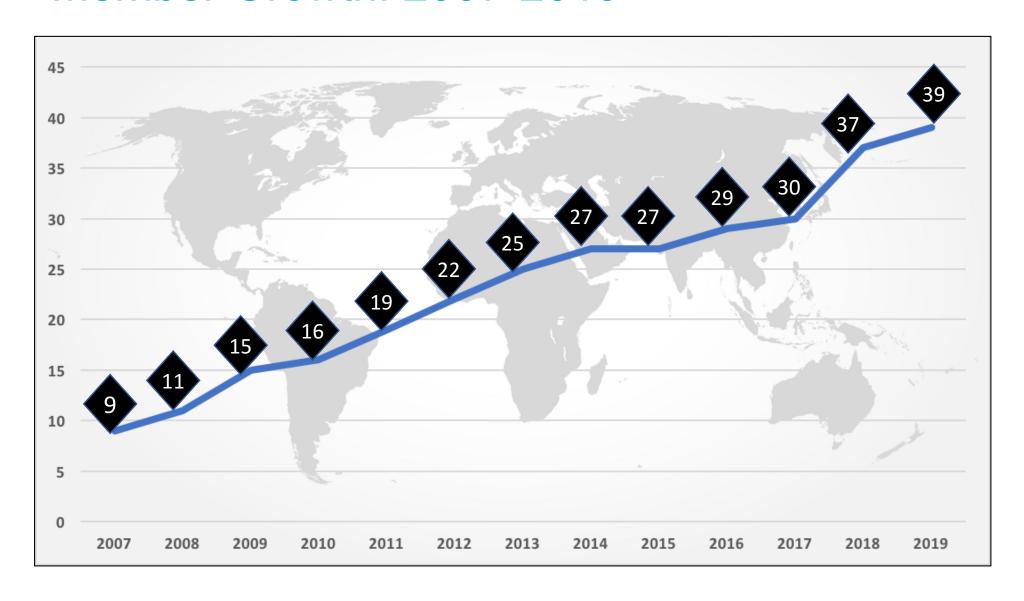




# Shelley Lipon GLOBAL REPORT



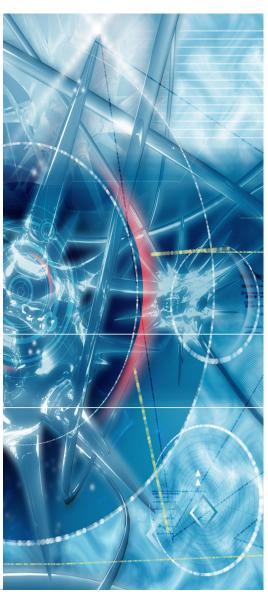
#### Member Growth: 2007-2019





### 2018 Overview of Key Achievements

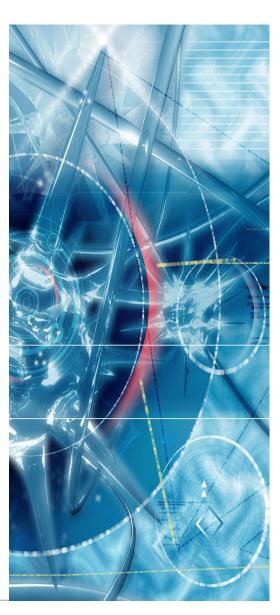
- SI grew to a 37 member organisations and seven new countries joined in 2018 - Argentina, Austria, Brazil, Cyprus, Finland, Jordan and Luxembourg
- Successful stakeholder engagements at HIMSS 2018, HIC 2018, HIMSS AsiaPac 2018, AeHIN 2018, eHealth Week Europe and others
- EXPO 2018 successfully delivered in Vancouver, Canada
- Meetings held with senior leadership & MOHs in China, Germany etc.
- Significant on boarding activities with various new members
- CMT agreement executed





#### 2019 Q1 Achievements

- New member countries Kazakhstan and Saudi Arabia
- Launched the User Support Reference Group to promote and support SNOMED CT implementation globally.
- Meetings held with AMA to further discuss collaboration.
- HIMSS 2019 attended and meetings conducted.
- Completed the analysis of two annual customer surveys results – the 2018 Member survey and Stakeholder survey.
- Key relationship developed with Amazon and other Alvendors
- Identified three advanced SCT users for potential collaborations.
- Setting up a partnership for delivery of SNOMED CT education services in Spanish with a key partner
- EXPO 2019 planning work progressing well and gaining momentum.



### 2019 Q1 Key Regional Activities



#### **Americas**

- Membership discussions with Costa Rica ongoing.
- Onboarding planning of Brazil and Argentina ongoing
- Extension of Phillips Global license

#### **Asia and Pacific**

- Kazakhstan joins as a Member in January 2019.
- Onboarding of Kazakhstan completed in February 2019.

#### **Europe and Middle East**

- Saudi Arabia joins as a Member in March 2019.
- Onboarding of Austria and Finland ongoing.





### Vendor Engagement

- HIMSS Orlando 2019 engagement with vendors
  - Numerous vendor meetings were held including Amazon, Nuance, Elsevier, Philips, IBM, HLI, Siemens, Langate, GE, FDB etc.
  - Discussions with Artificial Intelligence vendors have lead to significant partnership opportunities
  - Discussion with UAE delegates.
- Engagement with Amazon established and discussions underway.
- Discussions continuing with Semantic MD (Al benefits analysis)
- Discussions with Nuance (AI) in progress.





#### Looking ahead

- Complete the regional vendor maturity assessment.
- Finalize Google collaboration scope.
- Finalize Semantic MD benefits evaluation project.
- Deliver workshop for Amazon
- Continue discussions with Nuance.
- Engage with stakeholders and develop processes around Global Patient set.
- Recruit vendors for exhibit floor at EXPO in Malaysia.
- Continue business development work and membership discussions with Costa Rica, Germany, Qatar, Philippines and China.
- On boarding with Saudi Arabia planning







# Jane Millar COLLABORATION



#### Collaboration/Partnership overview

- Summary of key activities since October 2018, including:
  - Collaboration activities
  - License agreements
    - Development licenses
    - Free sets
    - License arrangements for specific activities
  - Other specific arrangements
- Overview of some pipeline areas of business over next 6 months



#### Approach for Collaborations/Partnerships

Key focus of partnership arrangements, based on requirements of SNOMED International and its stakeholder groups:

- <u>Collaboration Agreements</u> with agreed activity and deliverables to meet requirements of product and service strategies, as part of SNOMED International work plan
- SNOMED CT Licensing Agreements free sets: for specific sets of SNOMED CT for use against specific Use Cases – defining maintenance and updating processes - built in to SNOMED International work plan
- <u>SNOMED CT Licensing Agreements projects:</u> for particular projects, defining conditions, timelines and contribution to continuous updating and improvement of SNOMED CT
- Licensing Statements: with international bodies to protect SNOMED International IP and licensing for unspecified usage of SNOMED CT in products and also to use other organisations products in SNOMED CT e.g. CDISC
- **SNOMED CT Development licenses** to enable the <u>development</u> of defined products using an agreed set of SNOMED CT for specific Use cases e.g. HL7 Affiliates in non-SNOMED international member countries



## **Standards Organisations**

Organisation	Focus of activity		
WHO	- Input to development of a WHO mapping white paper – terminologies to WHO classifications		
HL7 International	<ul> <li>Licence agreement announced for SNOMED CT free set for HL7</li> <li>International Patient Summary</li> <li>Work on a free set to support FHIR core terminology</li> </ul>		
DICOM	- Free set for use in DICOM standards maintained and updated in line with releases and to meet requirements of DICOM		
GMDN	<ul> <li>- Authoring work continues based on monthly feeds from GMDNA</li> <li>- Updated editorial guidance</li> <li>- 6 monthly release of SNOMED CT to GMDN map continues</li> </ul>		
ISO	<ul> <li>Continued review of ballots and responses where appropriate</li> <li>Content Author involvement in WG6 Pharmacy to ensure alignment with SNOMED International work</li> </ul>		



## **Standards Organisations**

Organisation	Focus of activity		
IHE	- Set agreed and Licence agreement announced for SNOMED CT free set supporting 36 IHE clinical profiles		
MedDRA MSSO/ICH	-EU project (WEB RADR 2) includes SNOMED CT to MedDRA and MedDRA to SNOMED CT maps (priority set) - Discussions started on agreement to cover long term maintenance and updating, IP etc		
openEHR	<ul><li>License statement in place in openEHR Archetypes</li><li>Started discussions about other ways of working with SNOMED International</li></ul>		
JIC	- Ongoing membership and participation		



## Clinical professional bodies

Organisation	Focus of activity	
ICN	<ul> <li>Agreement to start discussing better integration between SNOMED</li> <li>CT and ICNP</li> <li>Professional input to increase through Nursing CRG</li> </ul>	
Wonca	<ul> <li>Agreement to deprecate map to ICPC-2</li> <li>Ongoing discussions about how SNOMED CT and ICPC-3 may link together</li> </ul>	
ADA	<ul><li>Maintenance and updating of General Dentistry refset</li><li>Alignment with SNODENT where appropriate</li></ul>	
ERA-EDTA	- Maintenance of Free set for Causes of Death, in line with SNOMED CT releases	
INSERM (Orphanet)	<ul> <li>Completion of priority set of Orphanet content in SNOMED CT for July 2019</li> <li>Work started on map between SNOMED CT and Orphanet of priority set</li> </ul>	



## Clinical professional bodies

Organisation	Focus of activity
ISNPCHD	<ul> <li>International Society for Nomenclature of Paediatric an Congenital Heart Disease</li> <li>Discussions about updating SNOMED CT in line with IPCCC (International Paediatric and Congenital Cardiac Codes) via a CRG pulling in global experts</li> </ul>
AND	<ul> <li>Academy of Nutrition and Dietetics</li> <li>Incorporation of NCPT terminology in to SNOMED CT and updating of existing content (SNOMED International Project Group)</li> </ul>



# **Pipeline**

Organisation	Focus of activity
HPO	- Ongoing discussions to agree linkage between SNOMED CT and HPO content
NANDA-I	<ul> <li>The International Nursing Knowledge Association</li> <li>Discussions for including NANDA content in</li> <li>SNOMED CT – Nursing Diagnoses</li> </ul>
OHDSI	<ul> <li>Managing the Licensing of use of SNOMED CT in OHSDI data base globally</li> <li>Content team exploring how to include OHSDI findings in QI work on SNOMED CT</li> </ul>



#### Other partnerships for information

#### European project work

- WEB RADR 2 Sept 18 to March 20. Mapping SNOMED CT and MedDRA priority set
- UNICOM proposal against H2020, "Scaling up the univocal Identification of Medicinal Products". Defining SNOMED International involvement. Submission April 24, 2019
- European Project SC1-DTH-11. PreDiab care for those with Diabetes. Request to participate in proposal against H2020, submission April 24, 2019

#### AMA partnership

 Discussions have been ongoing for collaboration in a number of areas including access to clinical expertise and content development areas such as social determinants of health



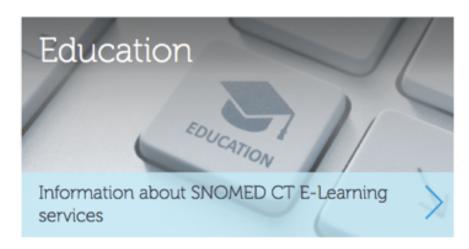


# Linda Bird EDUCATION



## SNOMED CT education <a href="http://snomed.org">http://snomed.org</a>

	SNOMED International	SNOMED CT	Our stakeholders
SNOMED CT: a five-step briefing	SNOMED CT worldwide		
Why SNOMED CT?	SNOMED in Action		
Get SNOMED CT	Education		
Software and tools	<u>@</u>		





#### **SNOMED CT education**



- SNOMED CT courses and certification
- SNOMED CT eLearning services
- SNOMED CT starter tutorials
- SNOMED CT presentation library
- SNOMED CT document library





# SNOMED CT course catalogue

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

https://courses.ihtsdotools.org or http://snomed.org/courses





# SNOMED CT course catalogue

SNOMED CT Foundation Course

SNOMED CT **Implementation** Course

SNOMED CT for Developers

Curso de Fundamentos de SNOMED CT

SNOMED CT **Authoring Level 1** Course

SNOMED CT for Data Analysts



#### **SNOMED CT foundation course**

Provides an introduction to a broad range of SNOMED CT topics, including the why, what and how

- 3 online modules to complete within 4 months
- Presentations and quizzes
- Starts immediately upon enrollment
- Fees
  - Members: FREE
  - Non-Members: 400 or 200 USD





#### SNOMED CT foundation course

Provides an introduction to a broad range of SNOMED CT topics, including the why, what and how

Course available in both English and Spanish Over 2,000 students have successfully completed!





# SNOMED CT implementation course

Provides an in depth understanding of the stages in implementing a SNOMED CT enabled system

- 6 online modules over 7 months
- Presentations, webinars, assignments, quizzes
- Starts July and January
- Fees
  - Members: 500, 250 or 50 USD
  - Non-Members: 1000, 500, 100 USD



# SNOMED CT implementation course

Provides an in depth understanding of the stages in implementing a SNOMED CT enabled system

Enrolments in July 2019 course now open!

> (Relaunched with updated course materials)





# SNOMED CT authoring level 1 course

Teaches knowledge and skills to perform basic authoring tasks and prepares for certification exam

- 5 online modules over 5 months
- Presentations, webinars, practice exercises, assignments, quizzes
- Starts March and September
- Fees
  - Members: 500, 250 or 50 USD
  - Non-Members: 1000, 500, 100 USD





# SNOMED CT authoring level 1 course

Teaches knowledge and skills to perform basic authoring tasks and prepares for certification exam

13 students completed pilot
34 students enrolled in March
September enrollments
now open!



# SNOMED CT authoring level 1 course

Teaches knowledge and skills to perform basic authoring tasks and prepares for certification exam

## Example pilot feedback

"It was indeed a great learning experience"

"It was practical and I learnt a lot about SNOMED CT"

"I really enjoyed the opportunity to practice authoring on the authoring platform"

"My congratulations to you and your colleagues in developing such a good course!"



# SNOMED CT authoring L1 certification

# Recognises your competence in performing basic SNOMED CT authoring tasks

- Must pass a proctored online certification exam
- Exam tests a range of knowledge and skills
- Fees
  - Members: 200 USD
  - Non-Members: 400 USD





# SNOMED CT authoring L1 certification

Recognises your competence in performing basic SNOMED CT authoring tasks

Currently being waitlisted Exam available mid 2019 <a href="http://snomed.org/certification">http://snomed.org/certification</a>



# SNOMED CT learning pathways

#### **SNOMED CT for developers**

Designed to teach how to leverage the capabilities of SNOMED CT in software applications



Designed to teach how SNOMED CT can support clinical data analytics requirements







#### Enhanced member benefits

#### **Each Member is entitled to**

- Free Foundation Course for all students
- Membership discount for all education courses
- NRC access to 1 FREE enrolment in each course per year
- NRC access to 1 FREE enrolment in each certification per year





# Claiming member benefits

Member discounts are offered automatically on login To claim FREE NRC enrolment in education courses

- MF representative emails <u>elearning@snomed.org</u>
- Requests 'member free' voucher
- Includes name and email of student
- Includes planned course and intake
- Voucher will be provided for use in course catalogue







# lan Green CLINICAL ENGAGEMENT



## Clinical Engagement

#### Clinical Reference Groups (CRG's) and Project Groups

- Continue to grow slowly in members
- New groups Diabetes Project group

#### **Subsumption testing demonstrator**

- Three new scenarios developed
- Refinement of presenters script
- Training of additional clinical engagement staff to deliver subsumption education

#### **OHDSI**

- Working with Christian Reich's and ODHSI team to specify SNOMED CT content improvements
- Clarifying and implementing licensing model for ODHSI use of SNOMED CT
- Ongoing discussions regarding the possibility of using ODHSI to author suggested changes into SNOMED CT



## Clinical Engagement

#### **Education**

- Delivery of YouTube video of SNOMED CT Subsumption demonstrator
- Extremely positive feedback from clinicians and clinical groups, and SNOMED International partners

#### Clinical Engagement Team Outreach

 Identification of high value SNOMED CT implementations to be targeted for analytics/subsumption training an support

#### Clinical contacts database

 Continued development of clinical contacts database to support authoring team on content development activities, also to act as a resource for setting up new CRG's



#### Genomics

#### **Genomic Pilots**

- Two pilots now up and running with the Australian Genomics Health Alliance and the Queensland Genomic Health Alliance
- Delivery of report from the first pilot (retrospective analysis) July 2019 (Genetic Kidney Disease)
- Delivery of report from second pilot (live data collection) early 2020 (Cardiac disease)

#### **GA4GH**

- Continued input into clinical and phenotypic work stream
- Ongoing discussions regarding phenotypic mapping between SNOMED and other Genomic terminologies

#### **XSDO** group

- Agreement with other SDO's regarding setting up a formal ISO sub-committee of TC215 to focus on delivery of Genomic standards.
- Group to be formally recognized at the April ISO meeting in Sweden



#### **Genomics**

#### Catalogue Of Somatic Mutations In Cancer (COSMIC)

- Discussions with the COSMIC team to use SNOMED CT within their internal database for the management of their catalogue, and also exploring arrangements for using SNOMED CT as the foundation to publish the catalogue globally
- Discussions with the COSMIC team regarding supplying content requirements for the representation of cancer within SNOMED CT

#### **HiMSS 2019**

- Delivery of joint presentation from SNOMED International, HL7 and GA4GH
- Positive feedback and a number of contacts for future joint working

#### **Human Phenotype Ontology (HPO)**

- Lack of progress and responsiveness form HPO currently
- Alternatives are being investigated







## Jim Case QUALITY CONTENT



### Background

The SNOMED CT quality improvement (QI) initiative was launched in 2017 to improve internal structural consistency of SNOMED CT content through:

- Improved adherence to the Machine Readable Concept Model (MRCM)
- *Improved* adherence to editorial policy
- Application of a consistent modeling philosophy to current and new content
- **Reduction** of the number of intermediate primitives/Maximized number of sufficiently defined concepts
- Application of defined templates to content to reduce the introduction of new modeling errors
- Leveraging the use of automated processes to batch refine content
- *Updating* the editorial guide to reflect the more streamlined authoring principles



#### Quality improvement justification and rationale

#### Over the past two decades, the approach to adding new content has been inconsistent:

- Multiple modeling patterns used for similar content
- Incomplete modeling of content resulting in intermediate primitives
- Changes to content to fix identified errors were not applied to existing related content
- Lack of tooling to apply batch changes
- Editorial guidance sometimes missing or incomplete

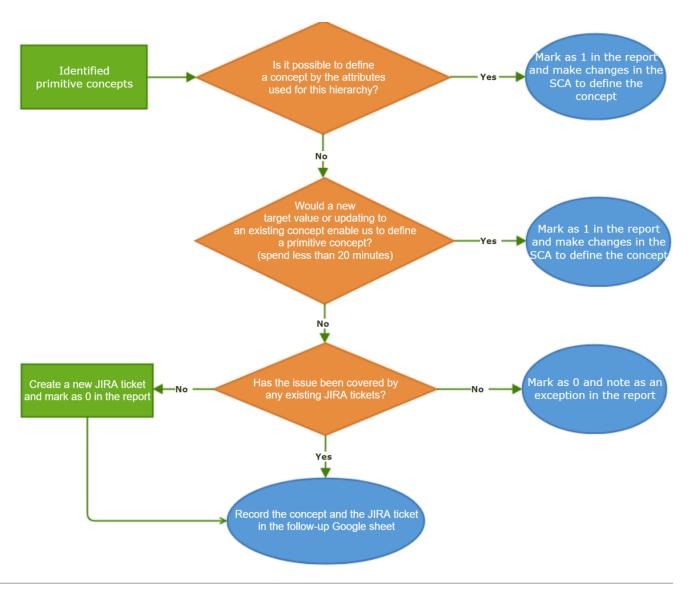


A systematic approach to improve the structural consistency of SNOMED CT was developed:

- The Clinical findings hierarchy was chosen as the initial focus
- This hierarchy was subdivided into multiple sub-hierarchies for manageability
- A four stage process is applied to each sub-hierarchy
  - Stage 1 Identify and where possible, sufficiently define all intermediate primitives
  - Stage 2 Based on identified patterns, create one or more standard modeling templates
  - Stage 3 Identify and revise content within the hierarchy that does not conform to the template
  - Stage 4 Normalize the content by transforming to the "Zero-based proximal primitive parent" pattern



Workflow for addressing intermediate primitives





#### **Definition** of standard template

#### Fracture of [bone structure] (disorder) - In PROD

Created by Yongsheng Gao, last modified on 2018-Nov-22

#### Descriptions:

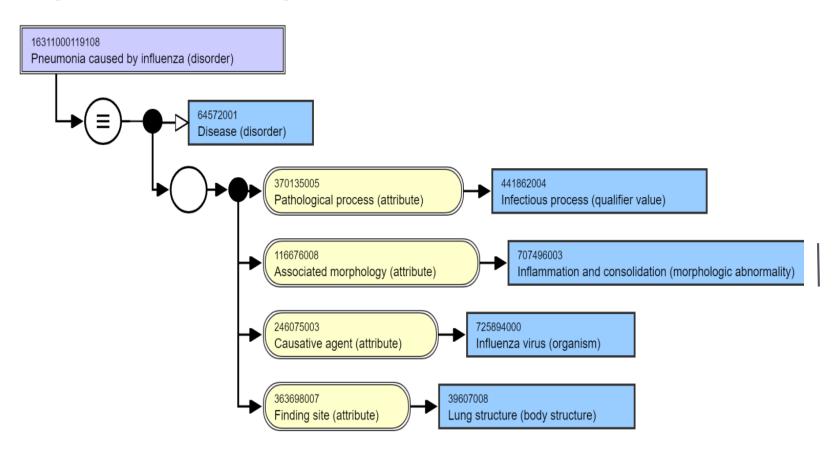
Term	description type	Language/acceptability	Langauge/acceptability	Case significance
[Periods of life] [Fracture morphology] of [bone structure] (disorder)	FSN	us:P	gb:P	ci
[Periods of life] [Fracture morphology] of [bone structure]	SYN	us:P	gb:P	ci

#### Concept model:

Attribute Cardinality	Attribute	Value	role group number	Attribute Group Cardianality
11	116680003  Is a (attribute)	64572001  Disease (disorder)	0	
				N/A
11	116676008  Associated morphology (attribute)	[Fracture morphology] << 72704001  Fracture (morphologic abnormality)	1	
11	363698007  Finding site (attribute)	[bone structure] << 272673000  Bone structure (body structure)	1	
01	246454002  Occurrence (attribute)	[Periods of life] << 282032007  Periods of life (qualifier value)	1	1*



Revise concepts to align to template





## QI project scope

#### SNOMED CT content in scope for overall quality review (Jan 2019 release)

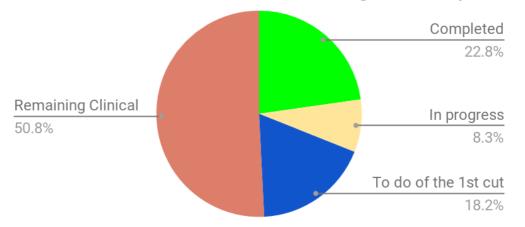
Content Scope	Count
Total number of active concepts	349,513
Out of scope (No model or non-clinical concepts, metadata, etc)	150,738
In Scope ("should" conform to a template)	198,775
Percent in scope	56.9%



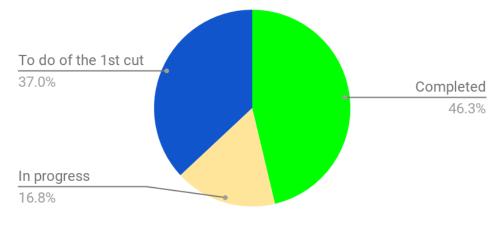
## Quality improvement process scope - phase 1

#### **Initial focus on Clinical findings**

#### 67448 SIMPLE Clinical findings in scope



#### 33127 Clinical findings in sub-hierarchies





## QI project progress

Structural improvements are quantified by a number of measurable indicators:

Indicator	July 2017 Release	Jan 2019 release	April 2019 status
Number of role group crossovers	3457	3119 (-9.8%)	2580 (-1 <b>7</b> .3)
Role group inconsistencies	2401	1363 (-43.2%)	856 ( <b>-31.2%</b> )
Number of intermediate primitives	5444	<b>5810*</b> (6.7%)	5775 (-0.6%)
Percent sufficiently defined	24.3%	30.4%	31.6%

<sup>\*</sup>Increase due to the creation of sufficiently defined subtypes



#### QI templates and template conformance

Templates are in various stages of development and implementation

Template status	Number
Under development	30
Ready for implementation	35
In production	22

Template conformance (production templates only)

Template status	Number
Eligible concepts	198,775
Conforming concepts	19,705
Percent conformance	9.91%



## Editorial Advisory Group Agenda

#### Topics under discussion at the EAG meeting

- Sources of truth for clinical content
- Historical relationships improvements
- Updates from project groups
  - Event, condition, episode
  - Drug project
  - Devices project
- Options for resolution of the finding/disease conundrum
- Identification of the Clinical Core of SNOMED CT
  - Scope
  - Use cases





## Monica Harry CONTENT & MAPPING



## Content and Mapping Team

- Jim Case
- Monica Harry
- Penni Hernandez
- Toni Morrison
- Suzanne Santamaria
- Farzaneh Ashrafi
- Maria Braithwaite



- **Paul Amos**
- Yongsheng Gao
- Nicki Ingram
- Krista Lilly
- Donna Morgan
- Cathy Richardson



#### A day in the life...

**Terminologist** – not as my colleague's granny thought:

" a person who terminates things!"

We get the "foot out of the pelvis!"





### We try to answer the big questions:

Such as...

If you have a chest wheeze, is it bronchitis or is it asthma...?

Is a "vaper", a person who smokes ecigarettes or a rare venomous snake?





## Seriously...

- Content Requests July 2019 release:
  - 1001 submitted
  - 601 Ready for Release
  - Any marked urgent are prioritised for assignment to an author



## Ongoing Content projects ...

Not already mentioned elsewhere

KP donation of CMT content

Anatomy - Review of 12K + revised anatomy concepts

Orphanet

**Substances** 

GMDN monthly content additions

Publication assorted Free sets and derivatives e.g. Nursing, GP/FP.



## Ongoing Mapping projects ...

Maintenance mode:

ICD-O;

ICD-10;

ICD-11;

ICPC-2;

**GMDN** 



### Additionally... Team

- Mapping QA Medra Pilot set 700
- Whole team is undertaking Description Logic Training in prep. For tooling upgrades
- Prepared for Devices meeting
- Review of education material

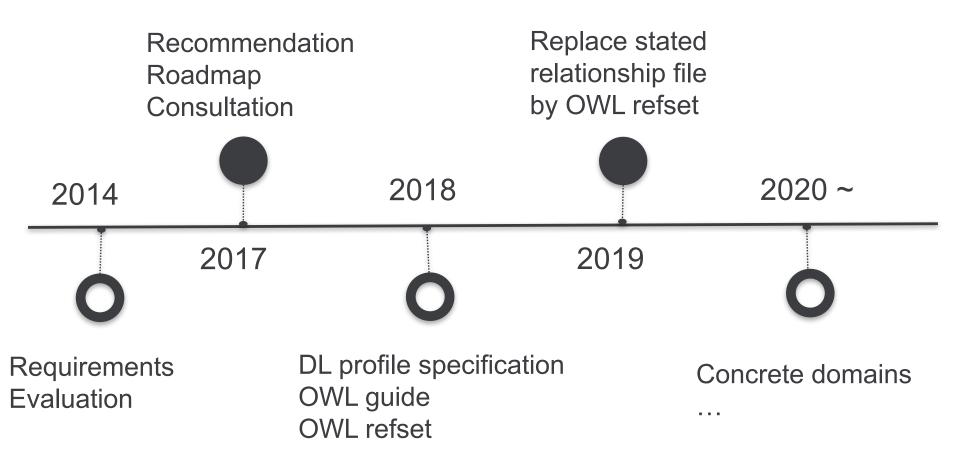




## Yongsheng Gao DESCRIPTION LOGIC

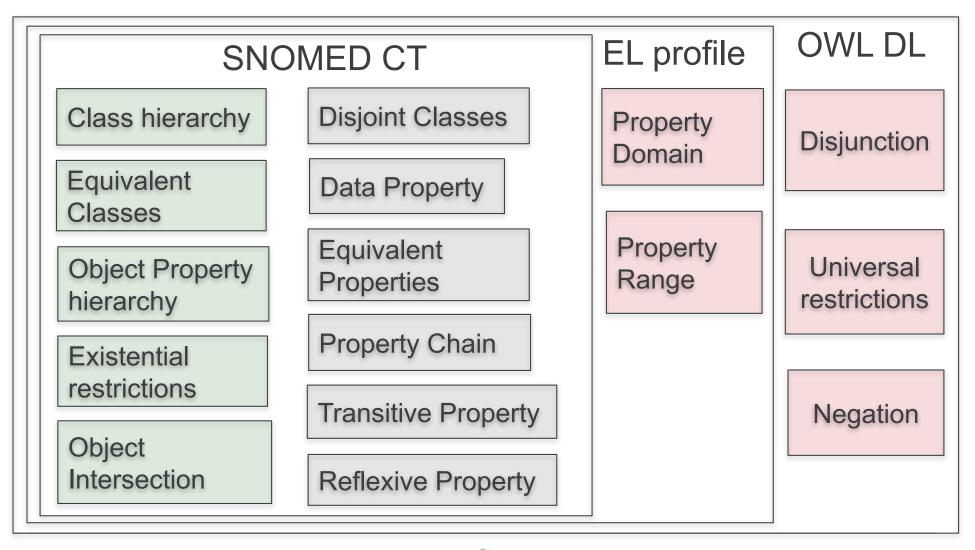


#### Timeline for the Description Logic profile enhancements



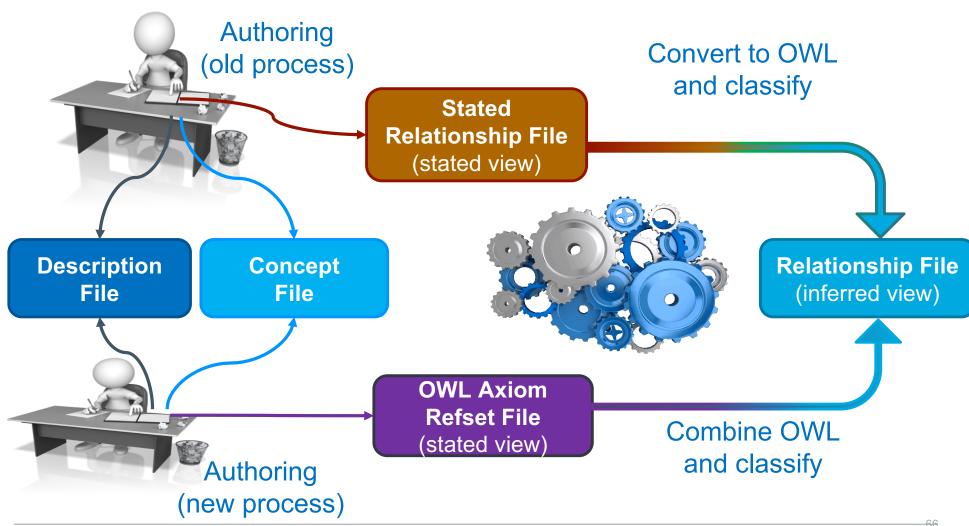


## **SNOMED** logic profile





### Change to authoring process





## Benefits of logic profile enhancements

Significant improvement of content quality

A more complete and consistent product

Systematical modeling

Conforming to international standards





## Topics for the MAG meeting

Updates on logic profile enhancements and the OWL guide

Roadmap for supporting concrete domains

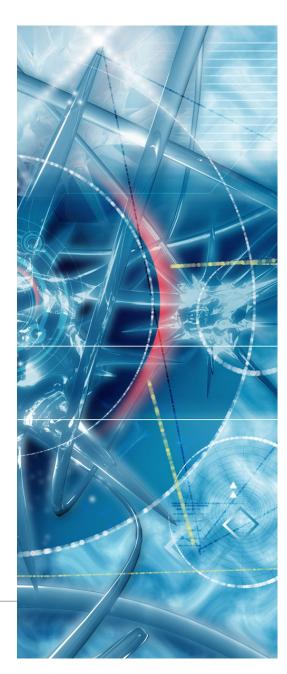
Relationship grouping

Requirements and specification for standalone OWL file of SNOMED CT

Updates on Classification service and **SNOMED OWL Toolkit** 

Drug model and produce role

Refset metadata







# Cathy Richardson CONTENT MANAGERS ADVISORY UPDATE



## Content Managers Advisory Group

- Camilla Wiberg Danielsen Denmark
- Daniel Karlsson Sweden
- Elze de Groot Netherlands
- Jostein Ven Norway
- Karina Revirol Argentina
- Linda Parisien Canada
- Matt Cordell Australia
- Olivier Bodenreider USA
- Sheree Hemingway UK
- Theresa Barry Ireland
- Cathy Richardson and Monica Harry (SNOMED International co-chairs)





#### Achievements since October 2018

Provision of national perspectives to assist with work item progression

- Modeling of existing concepts in the Observable Entity hierarchy
- Implantation procedures
- Ethnic groups concepts including "other" in the meaning

Commencement of the review of administrative content





### 2019 work plan items

- Provision of national perspectives on content topics and projects
- Provision of national input on user impact of SNOMED CT Editorial Advisory Group work items
- Provision of national input to assist with the content alignment with the Standards and Terminologies report
- Development of international definitions for SNOMED CT context values for actions concepts
- Review of SNOMED CT International Edition administrative concepts







# **Toni Morrison**DRUG UPDATE



### **Concept Models and Content Updates**

- Medicinal product Hierarchy
  - ≈ 21,000 concepts with 98% sufficiently defined
  - >91,000 attributes
- Pharmaceutical dose form Hierarchy
  - ≈ 325 concepts with >90% sufficiently defined
  - >1500 attributes



### **National Extension Model**

- Concept model proposed as extension of International Release
- Editorial Guidelines published
- Attributes to support extension model created in International Release
- Questions and issues reconciled and refinements made as needed



### Quality Improvement in International Release

- Consistent modeling and terming of concepts in the Medicinal product and Pharmaceutical dose form hierarchies
- Leveraging, not duplicating, the Substance hierarchy modeling in Medicinal product hierarchy
- Implementing automated quality improvement reports for Medicinal product and Pharmaceutical dose form hierarchies
- Resolving equivalent, ambiguous, or out of scope concepts
- Ability to extend model in International Release or National Extension for future needs



### Standards and Regulatory

- IDMP compatible concept types
  - Medicinal product containing only
  - Clinical drug
  - IDMP compatible Pharmaceutical dose form concept model
- UNICOM implementation of IDMP in national competent authorities and cross-border healthcare (including e-prescriptions and dispensing) and improving patient safety by having trusted medication information
  - WP1 SDOs, WP8 Clinical Care and Pharmacovigilence, WP9 – Medicinal Product Dictionaries



### **Member Countries**

#### Argentina

- Aligning national drug dictionary with links to the SNOMED CT clinical drug model (for dose forms, units, and substances)
- Anticipate publishing national drug extension based on SNOMED CT clinical drug model in next few months

#### Ireland

 Irish Pharmacy Union - mapping at definitional attribute level (e.g. dose form, substance) and resolving to clinical drug concept



### **Member Countries**

#### United States

 Translation of RxNorm into OWL and expect this will support maintenance of Medicinal product hierarchy by allowing SNOMED CT to "ingest" RxNorm content

#### Uruguay

- Aligning national drug dictionary with links to the SNOMED CT clinical drug model (for dose forms, units, substances, and Medicinal product containing only concepts)
- Anticipate publishing national drug extension based on SNOMED CT clinical drug model in next few months



### Links to further information

- **Contact Toni Morrison** 
  - tmo@snomed.org
- **Drug Project Confluence Space** 
  - https://confluence.ihtsdotools.org/ display/IAP/Drugs+Project









# Rory Davidson TECHNICAL SERVICES



2016	2019
41,161	54,359
US, UK, Russia, Canada	US, India, UK, Sweden
106289002  Dentist (occupation)	372705002  Desipramine (substance)
28	39
2	7
744	527
2,920	16,311
1,131	4,415



## 2019 = steady year



# Axioms, Description Logic, OWL, OWL and more OWL



### **Snowstorm**



# Refactoring



### Incoming this year

# MRCM maintenance More templates Better role based access control



### **Innovation Framework**

## ICD-11 Map generation Real time classification SNOMED CT in the UI



### **Reaching Out**

# FHIR Developer Days SNOMED CT Developer Training Days





## Andrew Atkinson RELEASES



### New product releases (cont'd)

In the latest cycle new Freesets have also been released for the first time:

- the SNOMED CT IHE Set
- the SNOMED CT HL7 International IPS Set



- c) We are also planning initial releases in 2019 for the following new products:
  - Orphanet (in collaboration with INSERM)

\*\*\* We will be discussing further improvements to our catalog of Freeset and Refset products during this April Business Meeting, so please stay posted for more announcements and discussions over the next few days....



### New product releases

We are working with the following new Managed Service customers, in order to publish the first SNOMED CT Managed Service Extension releases this year:

- Ireland
- Norway



There will also be several new customers joining shortly, please speak to Terance Shird if you have any questions regarding the current memberships.

### SNOMED International

### New derivative product release schedule

You will have seen a recent announcement to confirm that we are now migrating our derivative products to an Annual release schedule, in order to better tailor them towards the observed requirements of the users. This will also help to improve the focus of our finite content and release resources.

In considering this decision, SNOMED International underwent significant analysis and stakeholder engagement with the community. The organization's governance bodies were also consulted, as were those parties known to have used our derivative products via the Member Licensing & Distribution Service.

From 2019 onwards then, we will be publishing the derivative products with the following schedule, in line with the relevant 6 monthly International Edition releases...



### New product release schedule (cont'd)

Derivative products aligned with the January International Edition cycle:

- GP/FP Reasons for Encounter/Health Issues refset
- ICPC-2 map (Jan 2019 proposed final release before deprecation)
- ICNP Diagnoses
- ICNP Interventions
- SNOMED to GMDN map

Derivative products aligned with the July International Edition cycle:

- Nursing Activities refset
- Nursing Health Issues refset
- Odontogram refset
- General Dentistry refset
- SNOMED to GMDN map





### Terminology Release Advisory Group

#### Meetings this week:

- Today 1:30pm 5:00pm (Room: Adelphi 1)
  - PLUS an additional Spanish Edition process presentation from 5:10pm onwards
- Tomorrow 9:00am 12:00am (Room: Mackenzie)

Amongst other topics we will be discussing the following:



### Web Ontology Language (OWL) changes

Most if not all of you will have been involved in the discussions for these changes, which are set to replace the Stated Relationship files with an OWLExpression file from the July 2019 International Edition onwards.

These changes will have an impact across nearly all Release products, changing both the format of the packages and the way in which they are built. The inferred relationships will remain, but the way in which they are classified will change to be based on the OWL content instead of stated relationships.

We have successfully trialled the OWL content, introducing it gradually over the past few Release cycles, plus publishing demonstration releases for the Complete OWL file, and are now ready to implement it fully in line with the published plan.

# **JANUARY 2019**



### OWL file changes (cont'd)

In January 2019 we implemented the first stage of the plan:

- The International Edition package (packageA) included both active
   Stated Relationships plus a partial OWL file containing a subset of the
   OWLAxioms plus the OWLOntology refset.
- We also published a separate optional package (packageB) containing a complete set of OWL records as if this was the July 2019 release. This package contained all stated relationships from the previous release (July 2018) marked as inactive.
- packageB therefore acted as a second Demonstration release, allowing everyone to thoroughly trial using it in practice.
- packageB was published in MLDS alongside the International Edition, available to everyone with access to the International Edition, so that they could choose whether to download it.
- Release Notes were updated to clearly explain all of the above.

# **JULY 2019**



### OWL file changes (cont'd)

In July 2019 we will implement the following:

- The International Edition package (packageC) will include both inactive Stated Relationships plus a complete OWL file from July 2019 (ie) with ONLY history of OWL records that were included in the Jan 2019 International Edition package itself + new July 2019 Axioms.
- The Stated Relationships will remain, inactivated, in the International Edition for the foreseeable future, for audit trail purposes.
- This change will then be rolled out to all Managed Service editions/extensions dependent on future International Edition releases.
- Derivative products will also be updated to reflect the new packaging format, though likely with no specific OWL records for these releases.
- Anyone who isn't yet ready to move forward with OWL can therefore remain on the January 2019 International Edition until they are ready to update with the July 2019 version onwards.





### Frequent delivery

Proposals are progressing to move to more frequent delivery. The move would realise several benefits, including:

- The potential to be able to get content changes into the terminology in a shorter time frame.
- The fostering of better interoperability, as a result of entities being able to consume release content that's more aligned with other organisations
- The prevention of circular dependencies that occur in longer projects, due to the move towards smaller, more manageable authoring projects.
- More automated validation services, as a result of the inherent removal of the Alpha and Beta stages in the Release cycle.

There are still many dependencies (automated validation suites, etc) that need to be elaborated, in order to ensure that the quality of our products remains extremely high. We will continue to keep you posted on progress...





# Terance Shird MANAGED SERVICE & OPERATIONS



### **Technical Operations Update**

- **Hosting Migration Project** 
  - Hardware refresh
  - Cost savings
  - Leverage access to the latest innovative technology
- Server Operating System Upgrade
  - All our servers will be updated to the latest supported version
  - There will be some disruption to services during the upgrade
  - Maintenance windows will be published on http://status.ihtsdotools.org
- **Automation Improvements** 
  - Updating process and tooling to enable greater automation of software upgrades to tooling
  - Enable self healing technology
  - Allow services to grow automatically in response to increased use







Members Managed Service





### Members Managed Service Sub Group

- Tuesday 09 April 2019 09:00 to 12:30
  - Examine use cases for Reporting functionality in the Managed Service Authoring Platform
  - Update from Sweden on using templates in the Managed Service
  - Upcoming Authoring Platform changes to support OWL
  - Hands-On session on the Translation Tool
- Non Managed Service observers welcome



### **Tooling User Advisory Group**

- Wednesday 10 April 2019 09:00 to 12:30
  - Authoring Platform Demo
  - Reporting Platform Demo
  - Refset Hands-On Session
    - Participants will need a refset account
  - Snowstorm Project Update

