



SNOMED  
International



Delivering  
SNOMED CT



London, UK

## E-Learning Advisory Group (ELAG) Meeting

April 2023 Business Meeting

Chair : Ian Spiers, Terminology Education  
Specialist, SNOMED International





Welcome

## *Agenda*

1. ELAG Administration
2. Education Team update
3. Member Reports
4. Implementation Support Team update
5. Any other business



## *Agenda*

1. **ELAG Administration**
2. Education Team update
3. Member Reports
4. Implementation Support Team update
5. Any other business

# *ELAG Administration*

- Objectives of ELAG
- Members of ELAG
- Work Items for 2022



# ELAG Administration Objective



- Provide an effective link between SI E-Learning activities and educational requirements and activities in Member countries
- Ensure that the MF reps of the Member countries represented on the Group are kept informed about prioritization and other advice on E-Learning given by the group
- Review and provide constructive feedback on new E-Learning materials and regularly revisiting existing materials to identify areas where changes are needed
- Facilitate effective sharing and reuse of materials by SI and Members to enable translation and localization while maintaining international consistency

# ELAG Administration Members

## ELAG Members

Ayala Pablo	Member Representative	Argentina
Aileen dela Pena	Member Representative	Australia
David Op de Beeck	Member Representative	Belgium
Linda Parisien	Member Representative	Canada
Vasos Scoutellas	Member Representative	Cyprus
Louise Bie	Member Representative	Denmark
Rutt Lindström	Member Representative	Estonia
Mikko Härkönen	Member Representative	Finland
Vicky Fung	Member Representative	Hong Kong
Manisha Mantri	Member Representative	India
Yvonne Coughlan	Member Representative	Ireland
Kristina Dienine	Member Representative	Lithuania
Fareed Mohamad	Member Representative	Malaysia
Inge Soons	Member Representative	Netherlands
Aleksandar Zivaljevic	Member Representative	New Zealand
Leandro Luis	Member Representative	Portugal
Belen Delgado	Member Representative	Spain
Keng-Ling Wallin	Member Representative	Sweden
Pero Grgic	Member Representative	Switzerland



# ELAG Administration Declaration of Interest



Could all members of ELAG please

- Go to <http://snomed.org/elag>
- Click on 'Group Members'
  - If you are an ELAG Member representative, and your name does not appear on the list, please email [isp@snomed.org](mailto:isp@snomed.org)
- Click on 'Declaration of Interests'
  - Add any potential conflicts of interest
  - Update the 'Last updated' date (even if no changes)



**Note:** If you don't have access, please email [isp@snomed.org](mailto:isp@snomed.org)

- To advise on national and international priorities and activities needed to increase knowledge and skills related to SNOMED CT
- To review and provide advice on SNOMED CT courses
- To identify local languages required by each Member's SNOMED CT community for education
- Identify potential education delivery partners for each required language

## ELAG Administration ELAG Work Items - 2022







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# Education Team Update

- E&PS Team
- E-Learning Status
- Implementation Course Update
- New SNOMED CT for Translators E-learning Pathway



# Education Team Update

## Education Team

Liara Tutina



Education Lead

Louise Jones



eLearning Administrator

Kath Priest



Education and Product  
Support Specialist

Ian Spiers



Terminology Education  
Specialist

Anne Højen



Implementation  
Support Specialist

Penny Livesay



Authoring Specialist

Jon Zammit



Education and Product  
Support Specialist

## *E-Learning Courses*

- SNOMED CT courses are all free for SNOMED International Members
- Fees for certification exams (50% discount for Members)
- Members - 1 free certification exam per year for each type of certification exam
- All learning pathways free to all
- Increased demand for courses - book early
- Authoring Courses
  - Currently AL1 course seats are offered by a first come, first served basis so book early (Capped)
  - Places retained for NRC's

# *Education Team Update*

## **New** SNOMED CT for Translators Learning Pathway

- Introduces SNOMED CT to Translators - basic SNOMED CT knowledge that a translator may require in performing translation
- It incorporates e-learning content from pre-existing courses
- Short pathway provides 2 hours 40 minutes of learning (Not including exercises)
- Created with the SNOMED Translation User Group
- Released January 2023 - 110 participants registered so far

# Education Team Update

## New SNOMED CT for Translators Learning Pathway

### Module A

#### Introduction

- What is SNOMED CT?
- Scope of SNOMED CT
- How do I browse SNOMED CT?
- Practical Exercise: Exploring SNOMED CT

### Module B

#### Design and Development

- How is SNOMED CT Designed?
- How is SNOMED CT Developed?
- Content Creation - Naming Conventions
- Practical Exercise: Exploring Components

### Module C

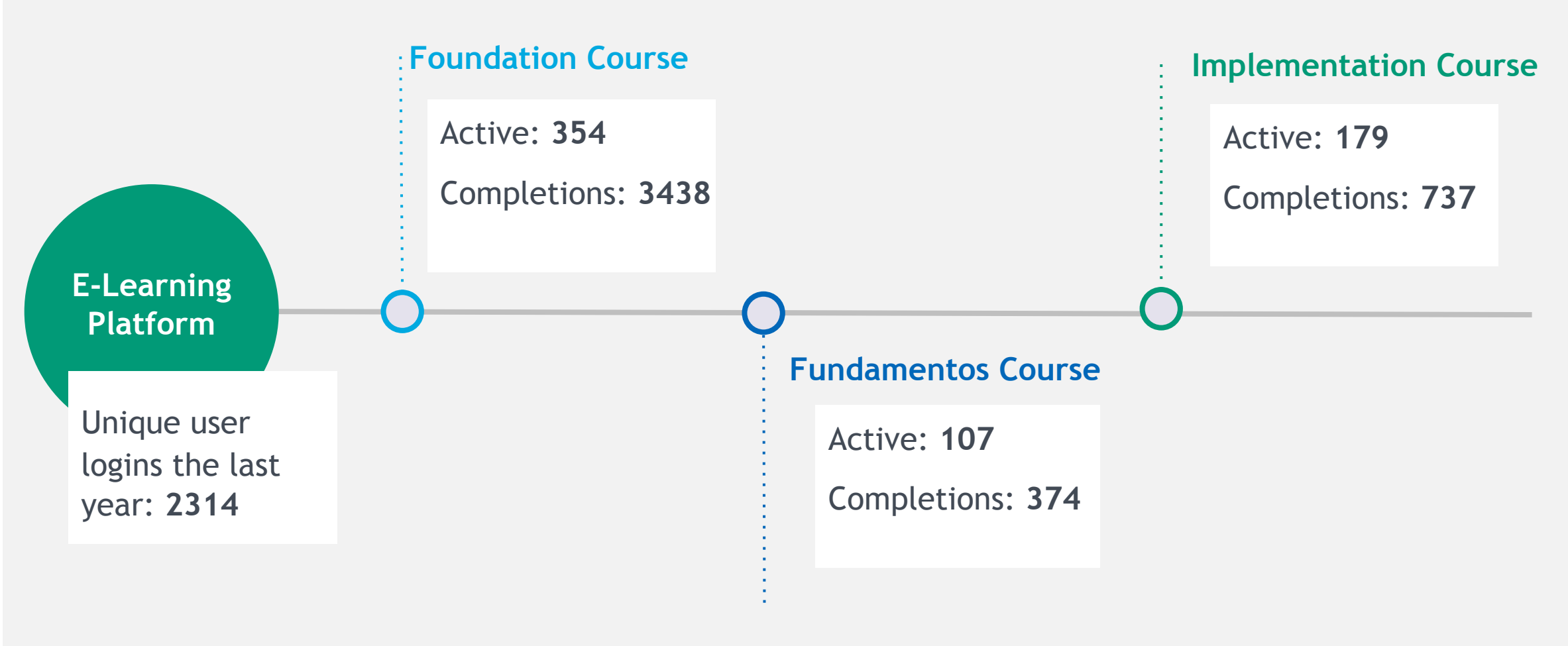
#### Language preferences and translation

- How does SNOMED CT support language preferences?
- Translation of SNOMED CT
- Translation principles
- Exploring language preferences and translations

- Overview of learning pathway

# Education Team Update

## E-Learning Status



# Education Team Update

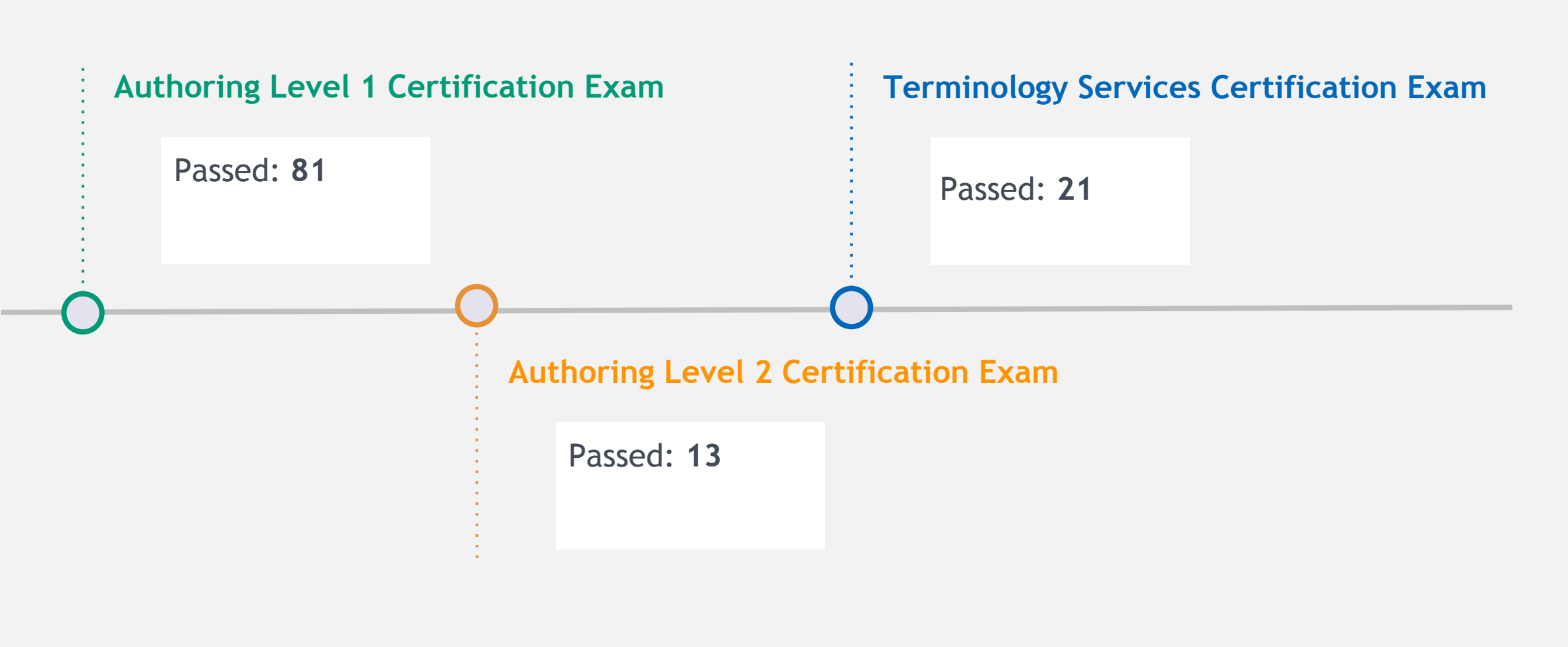
## E-Learning Status





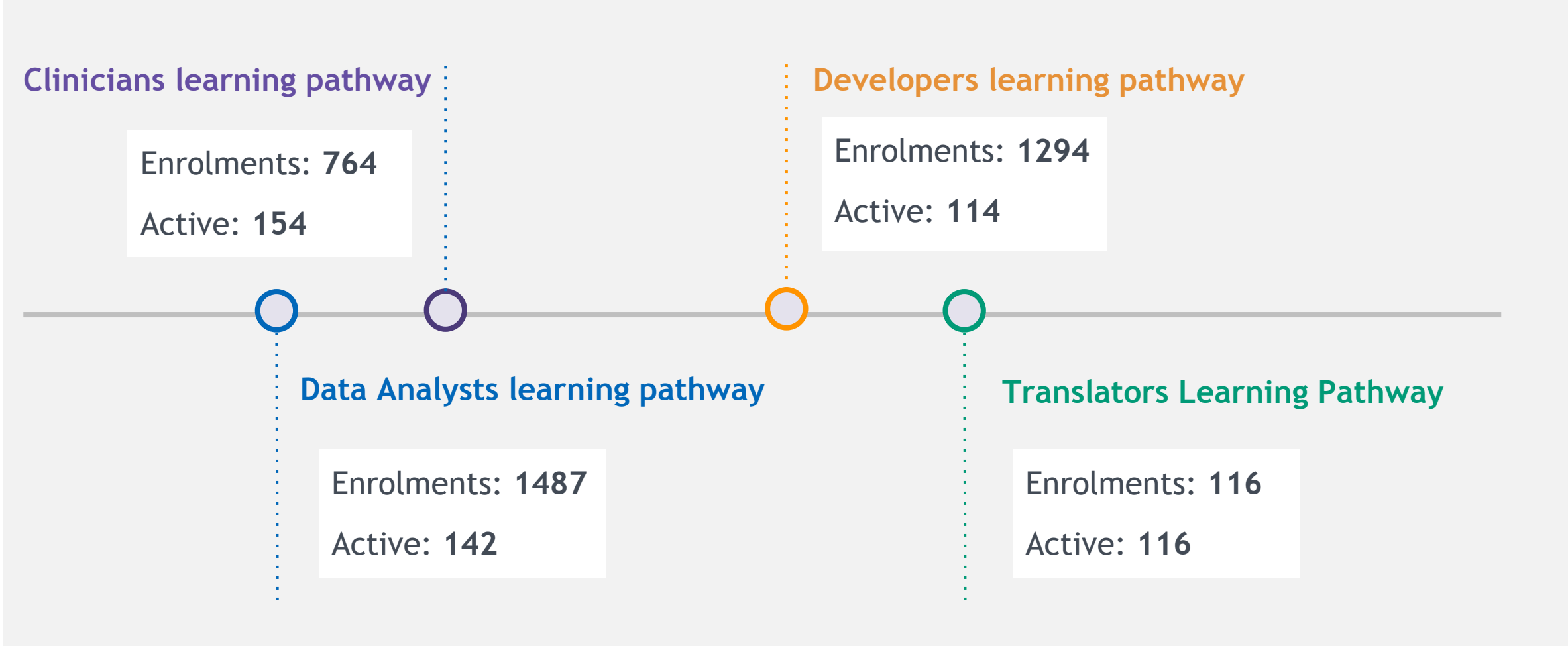
# Education Team Update

## E-Learning Status



# Education Team Update

## E-Learning Status



# Education Team Update

## E-Learning Course Ratings

Overall, how would you rate the course? 1-5

Course	Average Score	Score of 3 or above (%)
Foundation	4.3	100%
Foundation Spanish	4.2	98%
Implementation	4.3	98%
Terminology Services	4.3	98%
Authoring Level 1	4.4	98%
Authoring Level 2	4.6	100%

# Education Team Update

## Implementation Course Changes

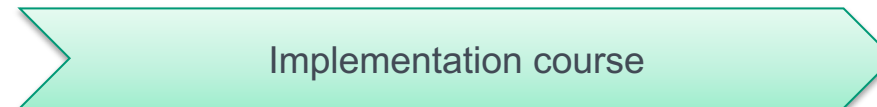
### Before



Complete within 12 months  
Flexible schedule

- **6 modules**
  - Presentations
  - Practical exercise (+4)
  - Assignment
  - Assessment
- **3 webinars (2 hour)**
- **Final assessment**

### Now



Complete within 9 months  
Flexible schedule

- **6 modules**
  - Presentations
  - Practical exercise (+4)
  - Assignment
  - Assessment
- **3 webinars (1 hour)**
- **Final assessment**

# Education Team Update

## Current Implementation Course - Feedback

Strengths	Weaknesses	Suggested Improvements
Flexible nature of the course being able to fit around work and family life	Presentations are <b>extremely boring</b> , too much unnecessary technical detail and explained too slowly	Information about <b>Terminology Servers</b>
Practical exercises and assignments	Some of the presentations were difficult to listen to and concentrate on	More on the <b>benefits of SNOMED CT to the patient</b> and selling SNOMED CT to <b>clinical audience</b>
Different users were picked up by the implementation course	Some presentations <b>felt repetitive</b>	<b>More examples</b> of implementation in health system
Self-paced nature and well structured content.	Topics to reduce: Compositional grammar, OWL, Refsets, RF2, Clinical Decision Support, Logical Model	How to use SNOMED CT in context of HL7 CDA FHIR
Webinars were really helpful and liked the practical exercise examples	More students on webinars, would have liked to speak to more peers across the globe, often only 1-2 people on the webinars	Prefer to <b>split the implementation course</b> into two or three different parts because I <b>found it very long</b>
Inspires by presenting many features and possible use cases of SNOMED CT	Some topics are quite challenging and may be better off in <b>short courses</b>	More hands-on <b>exercises/assignments</b>

# Education Team Update

## Implementation Course Change Proposal

	Current Implementation Course	Proposed New Implementation Course
<b>Structure</b>	6 modules	~15 subcourses/units
<b>Requirements</b>	All modules are mandatory	1 to 3 core, mandatory subcourses/units the rest are all optional
<b>Activities</b>	Presentations, Videos, Exercises, Assignments, Lessons, Practical exercises, Module Assessments and course final assessment, Demonstrations	Lessons (videos and questions) Practical Exercises, assignments
<b>Webinars</b>	3 mandatory webinars	None, but Implementation Webinar promotion
<b>Prerequisite</b>	Foundation Course	Foundation Course
<b>Accreditation</b>	CPD Points available on completion	CPD points available on completion of all units
<b>Duration</b>	~ 80 hours	~ maximum 45 hours
	Self paced within 9 month time frame	Self paced, no time limit
<b>Recorded material</b>	~ 26 hours	~ Maximum 15 hours
<b>Exam</b>	One pr. module and one final assessment	None?
<b>Certificate</b>	Certificate of completion	Badge/completion certificate pr. unit Certificate of completion of all units + assessment?
<b>Other</b>		Learning plans to guide role specific learning eg informatician, clinician, developer

# *Education Team Update*

## Implementation Course - Benefits of Change

- Self paced course
- No time limitation
- Select subcourses/units relevant to requirements or role
- CPD points for completing the whole course
- Access resources when required
- More flexibility to update with new implementation developments - students access new subcourses/units
- No restrictions/dependencies on completing other modules or attending webinars
- No requirement to complete the full 45 hours only complete the subcourses/units needed
- Potential to improve maintenance management of course content

# Education Team Update

## Implementation Course - Potential Subcourses/Units

<b>Introduction to Implementation</b>	<b>SNOMED CT Content and Features</b>	<b>Expressions and Expression Constraints</b>	<b>Subsets and Value sets</b>	<b>SNOMED CT and Information Models (including Terminology Bindings)</b>
<b>Maps</b>	<b>Logical Design, Release Files and Versioning</b>	<b>Data Analytics with SNOMED CT</b>	<b>SNOMED CT Logical Foundation</b>	<b>Search and Data Entry</b>
<b>SNOMED CT Extensions</b>	<b>Maintenance</b>	<b>Clinical Decision Support</b>	<b>Language Preferences and Translation</b>	<b>Terminology Services</b>
<b>Developer Services and Tools</b>	<b>Data Exchange</b>			



# *Education Team Update*

## Discussion

- What are your initial thoughts on the potential changes?
- Completion assessment - is this required?
- Would this meet the learning requirements you see in your country?

# *Education Team Update*

## Education partnerships

SNOMED International is interested in Education partnerships

Please send enquiries to [elearning@snomed.org](mailto:elearning@snomed.org)



# Education Team Update

## E-Learning Sharing

SNOMED International can share course content with members to enable reuse and translation of material

Please send enquiries to [elearning@snomed.org](mailto:elearning@snomed.org) and we can provide the material



# Education Team Update

## E-Learning Sharing

The screenshot shows the SNOMED International website's Member Education area. At the top left is the SNOMED International logo with the tagline "Leading healthcare terminology, worldwide". To the right of the logo is a navigation menu with items: ABOUT, ENROL, LEARN, VIEW, CONTACT, and English (en). Below the navigation menu is a breadcrumb trail: Home / My courses / Member Education. A dropdown menu is open under the "VIEW" menu item, listing: Document Library, Presentation Library, Starter Tutorials, Member Education Resources, and 中文基础课程. Below the navigation is the main heading "Member Education" and a sub-heading "Welcome to the Member Education Area". A paragraph of text states: "This area contains links to SNOMED CT education services and materials developed and provided by SNOMED International Members. For links to presentations from previous SNOMED CT Expos please refer to <http://snomed.org/expo>." Below this text is a grid of ten country flags, each with a label above it: Australia, Belgium, Canada, Finland, India, Netherlands, Republic of Korea, Switzerland, United Kingdom, and Uruguay.



## *Agenda*

1. ELAG Administration
2. Education Team update
3. **Member Reports**
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# Member reports

- Review and discuss
  - National Education Activities
  - Priorities and Requirements for Education
  - Feedback on SNOMED International Courses
  - Potential Education Delivery Partners
  - Topics, you would like us to discuss



# Member Reports

## Questions in Focus - Thank you for responding to the ELAG survey

- What **SNOMED CT education activities** have been planned or introduced in your region since our last meeting?
- What are the **priorities and requirements** for SNOMED CT education offerings in your country?
- Any Feedback on **SNOMED CT eLearning Experiences**?
- What are the **languages** required for education to drive adoption of SNOMED CT in your region?
- Any Potential **Education Delivery Partners**?

### Objective

- Share experiences and discuss education activities and approaches
- Identify approaches to support national stakeholders in acquiring the knowledge required to implement and use SNOMED CT

# Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

## Belgium (David)

- Infosessions organised by NRC on SNOMED CT: Introduction to SCT for stakeholders of (other) eHealth projects
- Infosession for all stakeholders of Primary Care
- Planning of French translation of SCT Foundation Course (part II); translations will take place at March-April

## Finland (Mikko)

- Start to build up new SCT Foundation Course in Finnish (Finland)



# Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

## Argentina (Marina)

- Data analytics course
- SNOMED CT in integrated health history
- Implementation of the National Dictionary of Medicines
- Implementation

## Estonia (Rutt)

- For actual education, we rely on SNOMED International courses. Only introduction is provided by the NRC staff. These introduction conference presentations, short lectures, meetings are available for anyone who's interested: universities, hospitals, specialised working groups, etc.

# Member Reports

## What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

### Netherlands (Inge)

- May 2023: Launch of the education pathway to become a medical terminologist outside of Nictiz. This includes more than only SNOMED, but it is a big part of it)
- Online escaperoom has been launched and played by several health care institutes and has been adopted in the Health Informatics study of the Amsterdam University Medical Center.
- We collaborate with two other serious games: 'Registration at point of care' and 'the 5 layers of exchanging health care information' to connect to the role that terminology, and specifically SNOMED CT, plays in this.
- May/June 2023: Education for developers, and specifically on how to use the national terminology server, since the server at that point will be stable and ready for use.
- We made animation videos on Semantic Unification, SNOMED CT and the possibilities of innovation with SNOMED CT.
- Creating content (videos / blogs / interviews) of examples of how SNOMED is already being used and what the advantages are of SNOMED.

# Member Reports

## SNOMED CT education priorities and requirements?

### Finland (Mikko)

- it is important to support education in Finland, both in the Finnish language and through training provided by SNOMED International. This will also help to raise awareness of the benefits of SNOMED CT.

### Denmark (Louise)

- Denmark refers to the SNOMED International e-learning-site when asked for education material.

### Sweden (Keng-Ling)

- Foundation Course, the Authoring courses and the Implementation course are highly appreciated - nice to know if others outside the NRC are taking the terminology services course and certification

# Member Reports

## SNOMED CT education priorities and requirements?

### USA (Nick)

- Most of our users want to learn about what SNOMED CT is, how it can be implemented, and how to use it/query it. We have no specific educational requirements besides to provide basic background material and access to SI provided education material.

### Argentina (Marina)

- Terminology binding
- Mapping ICD 11
- Data analytics and implementation tools

# Member Reports

## SNOMED CT education priorities and requirements?

### Belgium (David)

- Hosting of French translations of the SCT Foundation Course (so the translations are effectively being used) and establish a process to keep the translations in line with future evolution/changes of the Foundation course
- Make access (starting/boarding moments) to Authoring course more flexible.
- A pathway or course that combines parts of the Authoring and the Implementation course would be very useful.

### Cyprus (Vasos)

- Slides and/or document (basic) in Greek language

# Member Reports

## SNOMED CT education priorities and requirements?

### Estonia (Rutt)

- More introductions and workshops in universities. We continue to use SNOMED International education platform for more thorough education.

### Netherlands (Inge)

- From this year on we will focus on implementation and the practical use of SNOMED.  
We want to do this with hands-on courses and how to videos for developers,. next to providing an implementation kit / guide. Providing examples of how SNOMED is already used and can be used will be of high value for increasing the adoption of SNOMED.

# Member Reports

## Feedback on SNOMED CT eLearning Experiences?

### Finland (Mikko)

- The improvements made so far, for example in the Foundation Course, have been positive. The shorter videos are more enjoyable to watch and the mid-course exercises have been interesting.

### Denmark (Louise)

- In the NRC we have by now only taken the Foundation Course. We find that the new course covers the information needed as an introduction to SNOMED CT.

### Belgium (David)

- We participated in the elaboration of the pathway for translators, good and efficient project and course
- The Foundation course is much better than the original one
- No specific feedback on the Authoring and Implementation course apart from the remarks mentioned in the requirements paragraph

# Member Reports

## Feedback on SNOMED CT eLearning Experiences?

### Argentina (Marina)

- "New implementation course", "SNOMED CT for Developers" and "Terminology services" were very useful. It would be better if they were in Spanish to be able to spread it to the users of our country.

### USA (Nick)

- Many of our SCT staff have taken SI eLearning courses, certifications, and other services. A lot of us have taken the Authoring course and certification, in addition to other courses.



# Member Reports

## Feedback on SNOMED CT eLearning Experiences?

### Sweden (Keng-Ling)

- The courses are very much self learning and passing the assessment. - There are some feedback from those who had taken the SNOMED International courses but who still required further explanation and discussion. Perhaps some kind of discussion forum would be a way to get people to understand more and give room to ask real-life experience questions not dealt with in the courses.

### Estonia (Rutt)

- Very happy with the courses and services.

# Member Reports

## Feedback on SNOMED CT eLearning Experiences?

### Netherlands (Inge)

- For both the Authoring Level 1 as Authoring Level 2 course we feel the live webinars could be more interactive. Often everyone, including the tutor, have their cameras switched off, which makes it impersonal.
- Also we feel there is not so much new content being discussed in the webinars. Therefore a 2 hour webinar seems relatively like a big investment compared to what you learn from it.
- Otherwise we are very positive about the communication, way of learning, and value to our day-to-day work!

### Cyprus (Vasos)

- Had participated to the auditing the new Foundation course (all modules), May 2022

# *Member Reports*

## What are the languages required for education to drive adoption of SNOMED CT in your region?

**Finland:** Finnish, English, perhaps Swedish

**Netherlands:** Dutch and English

**Belgium:** Dutch and French (Mainly French - Dutch speaking healthcare professionals master English)

**USA:** English and Spanish

**Argentina:** Spanish

**Denmark:** English

**Sweden:** Swedish - In Sweden there has been request for courses to be in Swedish. This has been outside the scope of the NRC to provide. We have had and will continue to pursue the idea of providing workshops and courses in person which will then be held in Swedish.

## *Member Reports*

What are the languages required for education to drive adoption of SNOMED CT in your region?

**Netherlands:** Dutch and English

**Estonia:** English content for education. However, we would like to see more translation-specific content in the education path, because this is a very big part of our SNOMED use. Especially now with the specialised path for translators, we feel it should cover the issue deeper.

**Cyprus:** Greek Language

# Member Reports

## Potential Education Delivery Partners

### Finland (Mikko)

- NRC Finland is developing the SNOMED CT New Foundation Course in cooperation with the University of Eastern Finland. Our aim is to have the new Foundation Course available in Finland from autumn term 2023. For other courses, NRC Finland recommends the courses offered by SNOMED International.

### Sweden (Keng-Ling)

- Universities, NRC, organisation for the regions.

### Denmark (Louise)

- We have not recently been in contact with potential education delivery partners in our region, but we know that there has earlier been some education activity at a couple of universities.

### USA (Nick)

- NLM is the US NRC and has it's own Office of Education Training but does not provide SCT education courses. I am unaware of any other stakeholders conducting SCT training. We point all our users to SI eLearning courses, pathways, and other material.

# Member Reports

## Potential Education Delivery Partners

### Estonia (Rutt)

- NRC only, or a few individuals who cooperate closely with the NRC.

### Netherlands (Inge)

- Universities, hospital groups, HealthRI (national program on infrastructure for research data), quality registries.

# Member Reports

## Topics, you would like us to discuss

**Belgium (David):** Collaboration with an education hosting partner: setup process + experience (from Finland?)

**Argentina (Marina):** Spanish translation

**USA (Nick):** I think more training and education material on ECL use would be beneficial

**Finland (Mikko):** what is the easiest way to get statistics on students who have completed courses in your region? Is it still by email requests or could it be shared internally e.g. via Confluence? ([Email, can ask for country stats](#))

**Sweden (Keng-Ling):** Would like to take the Terminology Service course but I do not have programming background as understanding of terminology service APIs – states must have an understanding of retrieving, querying and updating data via REST APIs using JSON. What is your advice?

# Member Reports

## Topics, you would like us to discuss

Denmark (Louise)

Material that is suited for use in awareness campaigns and workshops.

It could e.g. contain

- a) short 5 minutes presentations/videos with authentic use cases where SNOMED CT has made a difference in real life (like the demo "Powering clinical data analytics with SNOMED CT", but shorter ) or
- b) a more catchy introduction like the escape room that the Dutch NRC presented in Lisbon, but in English

Netherlands (Inge)

- I am curious about whether you already have trained external terminologists to create new concepts.
- I know you also developed a training program like that, and I am curious about the results / how independent can these trained terminologists work? Any difficulties you have had that we can learn from?





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Quality Data, Informed Healthcare

# Call for Abstracts

Submit your abstract online at [snomedexpo.org](https://snomedexpo.org) before April 17, 2023



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Thank You

SNOMED  
International