IHE EUROPE CONNECTATHON

BRUSSELS 2026 MARCH 23/27



# SNOMED CT as semantic foundation for secondary use of health data

SNOMED International Leading healthcare terminology, worldwide

Licínio Kustra Mano

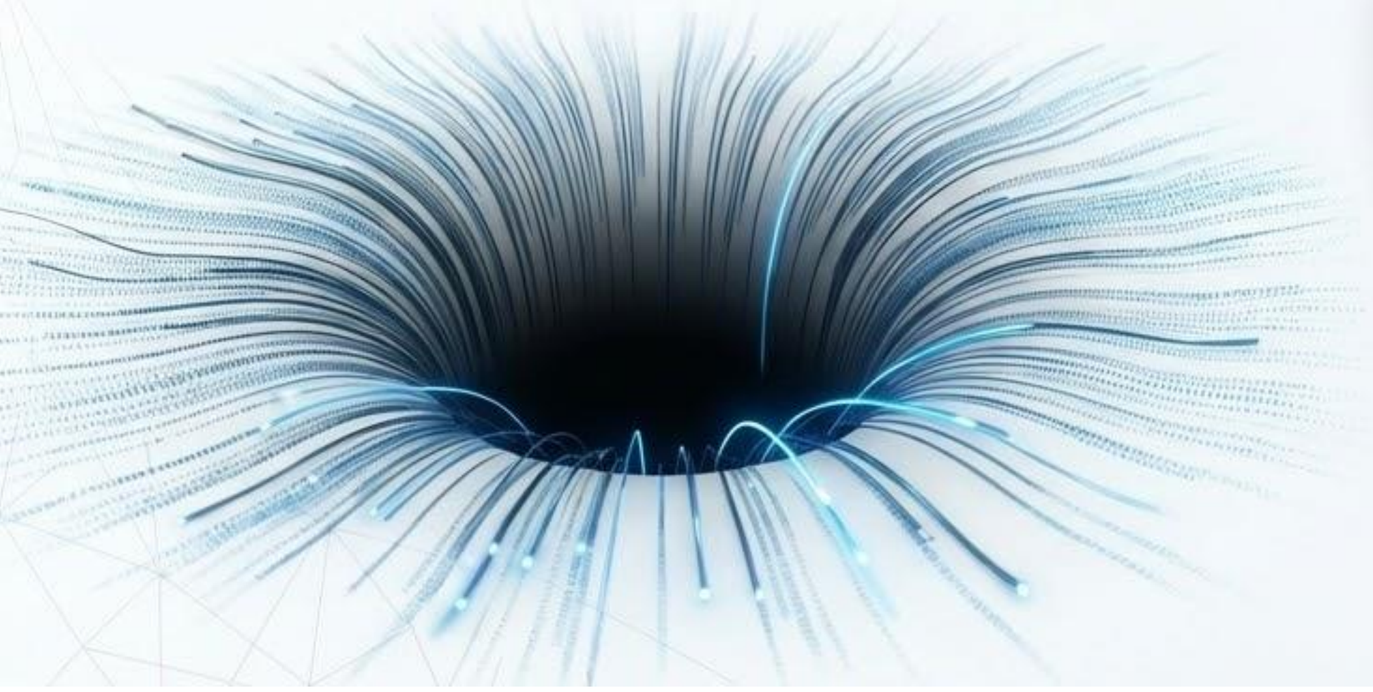
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# The Data Paradox

The healthcare industry generates approximately 30% of the world's data volume. Despite this massive influx, healthcare systems remain **data-rich** but **insight-poor**.



## Hospital Data Utilization




Unused Hospital Data

Analysed Data

Source: World Economic Forum 2024

# Known limitations

## Legal Uncertainty



Complex Regulations
& Ambiguous Policies

## Poor Data Quality



Incomplete, Inaccurate
& Inconsistent Data




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# EHDS enablement — Legal & ethical framework

enable safe and scalable value creation




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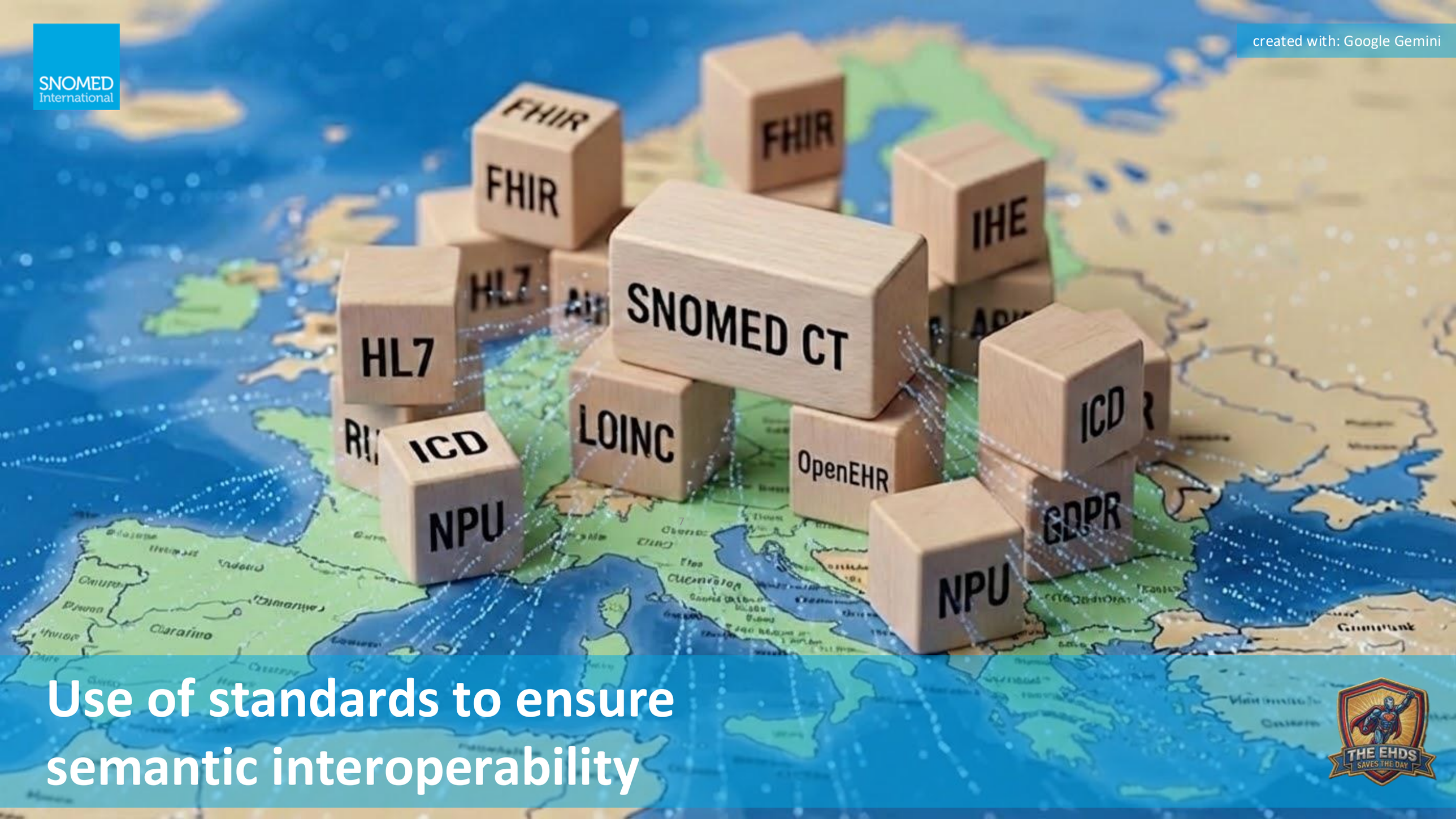
# Empowering precision at the point of care.




**Comprehensive Records:**
Create structured,
Re-usable data.

THE EHDS SAVES THE DAY

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# Use of standards to ensure semantic interoperability

# SNOMED CT: What is it?

## CLINICAL VOCABULARY, CREATED BY HEALTH PROFESSIONALS




A comprehensive, structured terminology developed by medical experts for accurate clinical documentation.

## LOGIC-BASED



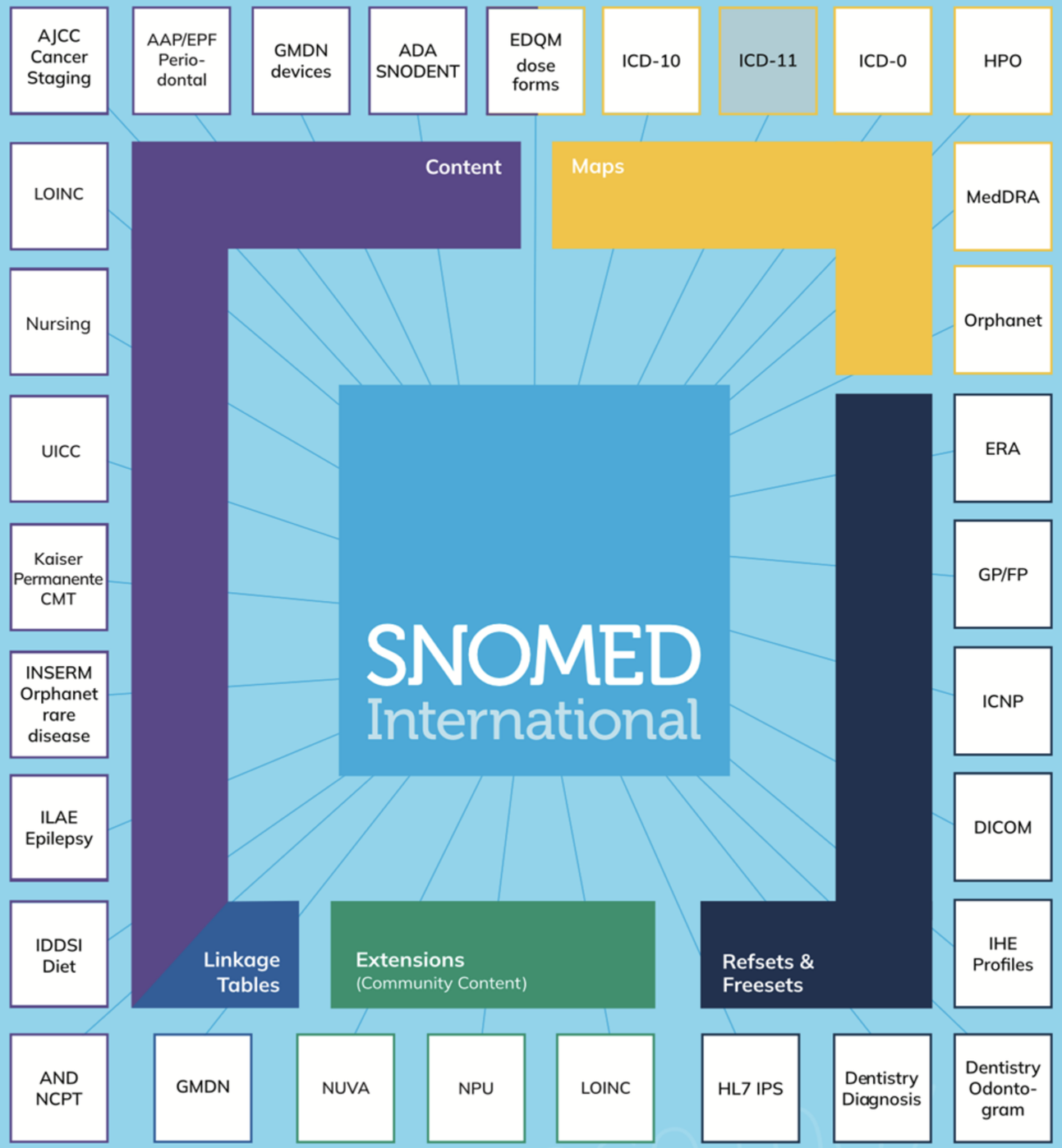
Built on a formal logical model, enabling advanced data analysis, reasoning, and decision support.

## MULTILINGUAL




Supports global use with translations into multiple languages, facilitating international data sharing.

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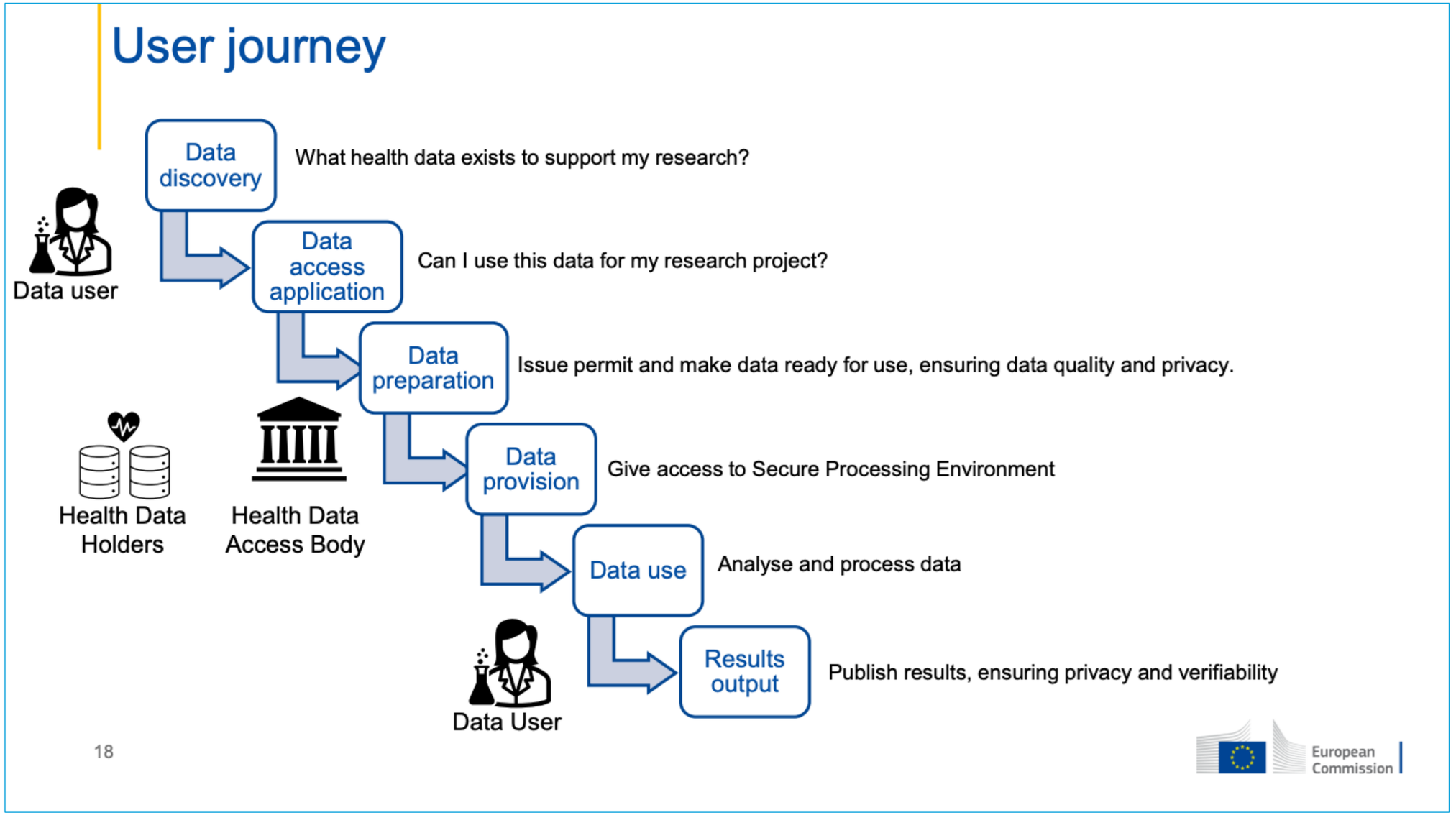



# Terminology integrator

***Collect once,***

***reuse many times***

# What is **Secondary** use of health data in the EHDS?




source: European Commission - Webinar

SNOMED International: Delivering SNOMED CT

# What is the role of SNOMED CT in **Secondary** use of health data in the EHDS?

**SNOMED, OHDSI Finalize Five-Year Collaboration Agreement To Open New Opportunities For Research Communities**

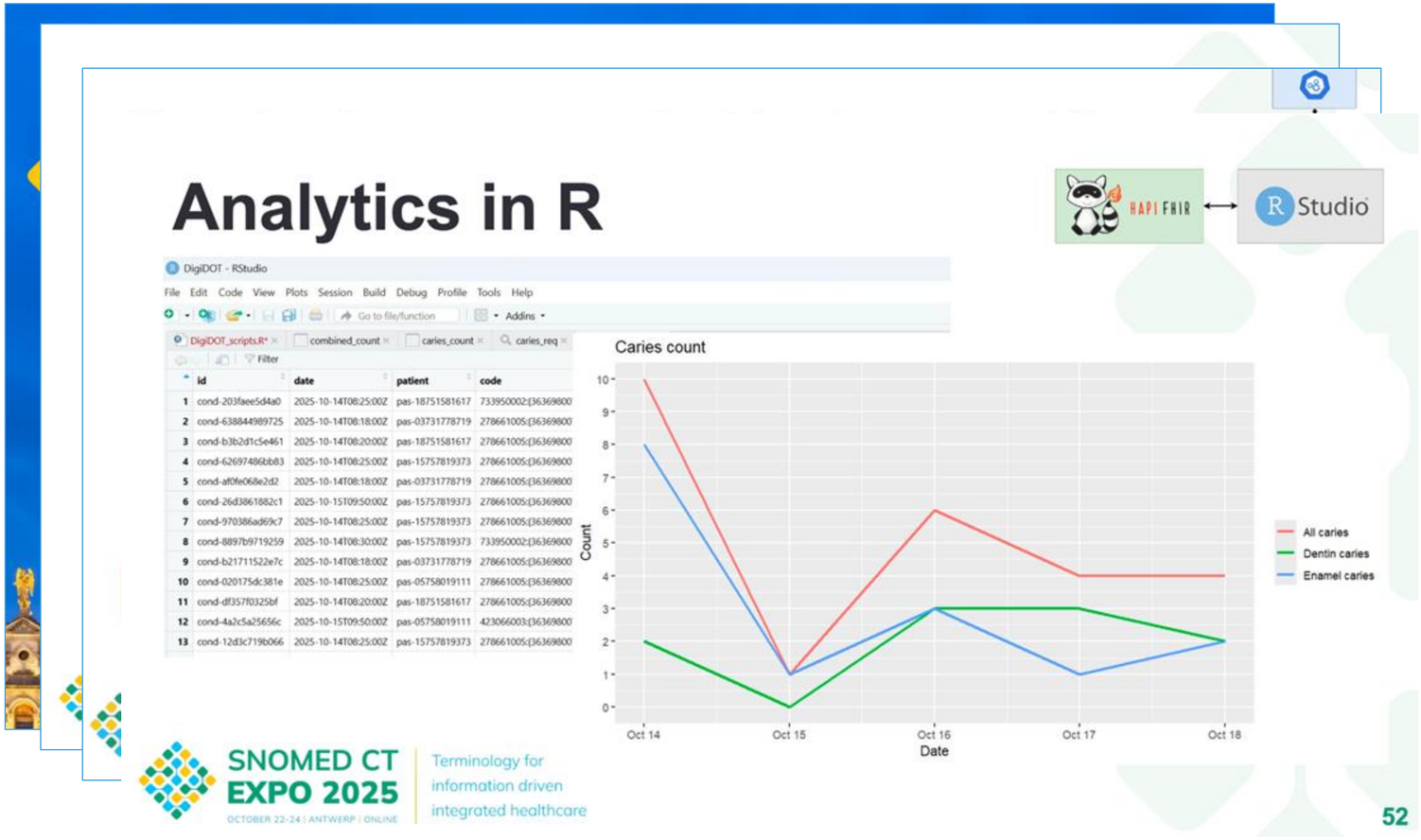
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OHDSI

EHDS specifications for secondary use **do not define** a standard for datasets

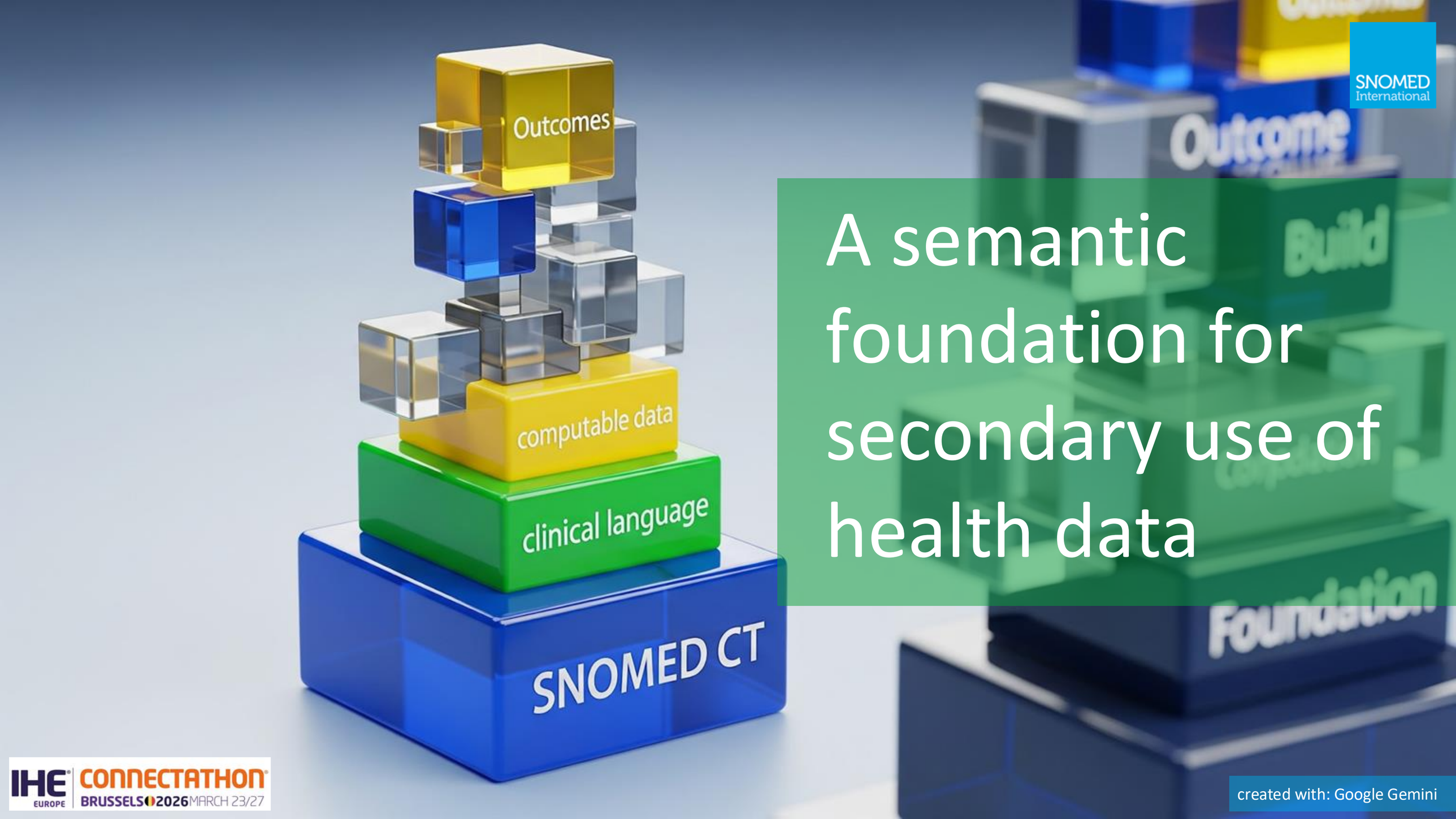
However, a practice gaining traction in data analytics is adopting the OMOP Common Data Model, which relies on SNOMED CT

# Demonstrated value through secondary use




See more at: https://youtu.be/sKfPkHtb2w0?si=gAJNhk4DrJ3BvK-o

The Norwegian Public Dental Service showed a **potential €6 million nationwide gain** by using SNOMED CT–based risk assessment to optimise mandatory dental examinations, **by reducing time spent on low-risk patients while maintaining quality of care.**

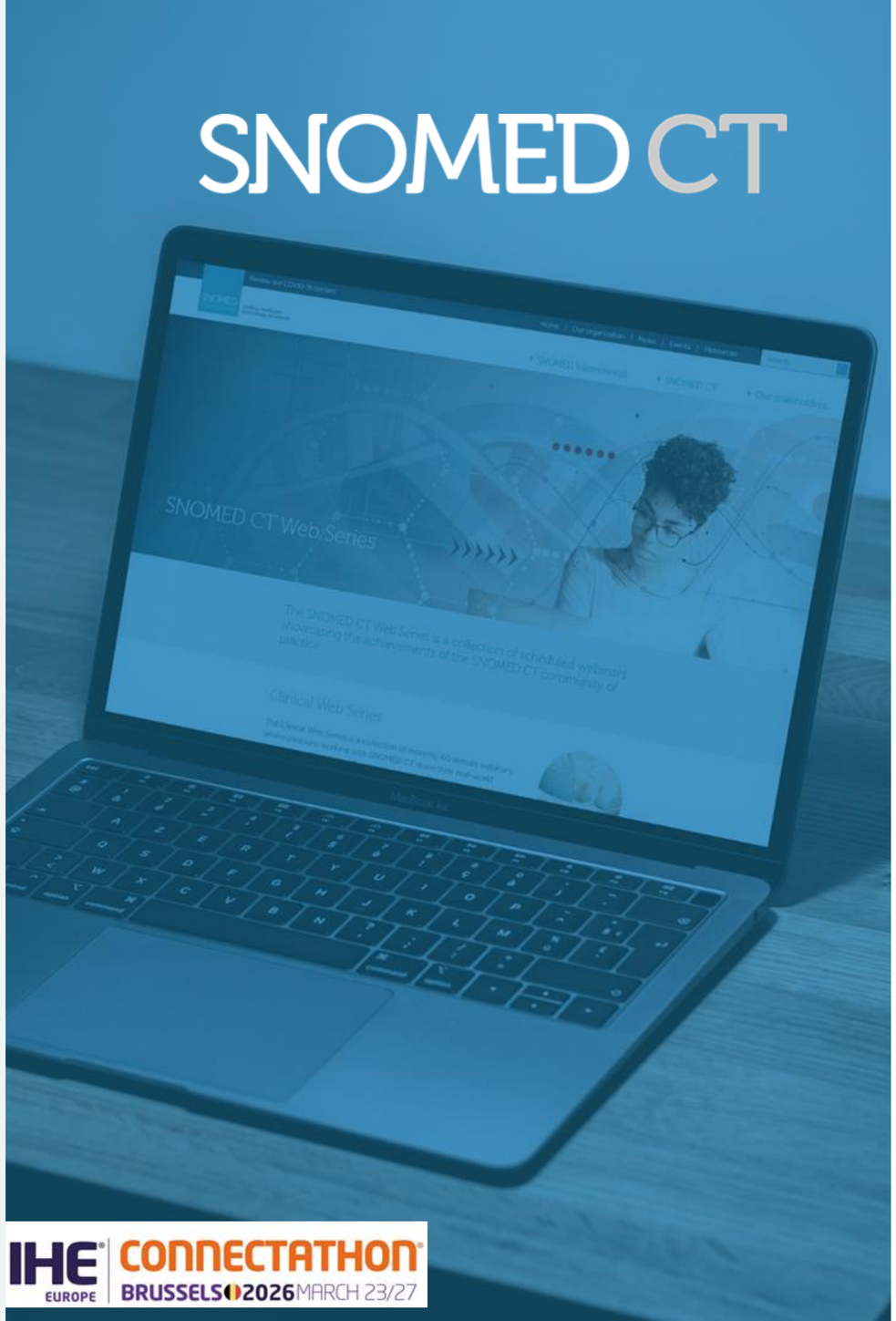



# A semantic foundation for secondary use of health data

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# Thank you for your attention


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