

# IHI Call Days | Call 9

## ● Enhanced European Cardio-Thoracic Surgery Data Platform

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Link to the [IHI brokerage platform](#):

- [Proposal sharing tool](#)
- [Participant profile](#)



**EACTS**  
EUROPEAN ASSOCIATION FOR  
CARDIO-THORACIC SURGERY

**ihi** innovative  
health  
initiative

# The Challenge

- Heart and lung diseases among the first cause of death in Europe
- Many of the patients with these conditions undergo a surgical procedure
- Understanding how surgery is performed and managed in healthcare settings is key to improve quality of care



<https://ec.europa.eu/eurostat/web/products-eurostat-news/w/ddn-20231024-3>

Using routinely collected surgical data provides an opportunity to inform decision making, patient management, research and improve clinical practice. However, the clinical registry landscape is fragmented, and information and data are not used to the maximum potential.

# Our objectives



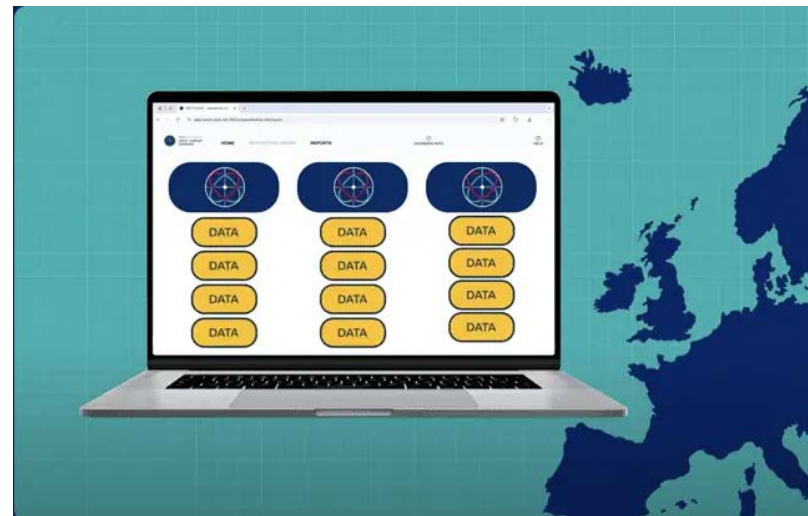
**EACTS**  
EUROPEAN ASSOCIATION FOR  
CARDIO-THORACIC SURGERY

## Building an enhanced European Cardio-Thoracic Surgery Data Platform

*Addressing IHI SO2*

We propose an **Enhanced European Cardio-Thoracic Surgery Data Platform** to

- ✓ bring together cardio-thoracic surgery data from different European hospitals
- ✓ demonstrate the feasibility of a multi-centre data system governed by a harmonised data access process
- ✓ enable data standardisation and provide the foundations for federated data analyses.



Will inform implementation of the European Health Data Space

**Better data for  
better outcomes**



# Our approach



By bringing together surgeons, researchers, clinical registries and national societies to drive consensus on standards

- Key priority datasets
- Data mapping to established interoperable standards
- Standardised data dictionaries

- Key requirements for technology platform
- Harmonised governance
- Automation
- New tech/AI and statistics

- Deliver pilot projects using data from multiple hospitals
- Demonstrate utility of multi-centre platform
- Inform decision making

# Suitability for IHI

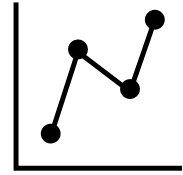
- ✓ Addressing a key public health need: to **improve outcomes of patients who undergo cardio-thoracic surgery** and inform **best practice in quality of care**, with the aim to reduce burden on healthcare systems in Europe by connecting data systems.
- ✓ Will require **key private-public partnership**
- ✓ Will need a **strong collaboration** of research organisations, patient groups, clinicians, hospitals, industry, and medical device companies
- ✓ Industry will play a key role:
  - Provide **technical solution** for connected data platform
  - Facilitate **data curation, mapping, automation**, data flows
  - Support **training** for clinicians



# Outcomes and Impact

## HIGH QUALITY DATA

The data platform will provide the first European resource of curated and high-quality cardio-thoracic data, using new technology



## DELIVERING PUBLIC BENEFIT

Healthcare professionals, researchers and industry will use this data for quality improvement, research and innovation, medical device regulation



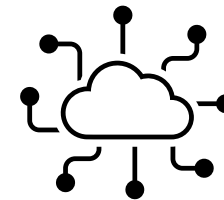
## OPTIMISING ECONOMIES

Potential to reduce burden on healthcare systems in Europe by connecting data systems



## INFORMING THE FUTURE

A proof of concept and a use case for EHDS implementation at larger scale





# Expertise and resources

- **We have:**

- **More than 4000 EACTS members**, experts in cardio-thoracic surgery
- **Convening power & Influence**
- In house expertise in **data science, epidemiology, programme management and communication**
- **In kind contribution** to provide to consortium (bot IKOP and IKAA)

- **We are looking for:**

- A **technology partner** to provide a solution for the European data platform
- **Industry experts/SMEs** to provide resources for data mapping and data curation efforts
- **Legal expertise** to facilitate agreement with hospitals
- **Hospitals** interested in providing access to cardio-thoracic surgery data for quality improvement and research

# Thank you!

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