

## National infrastructure for secondary use of health data: Experiences from England

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Policy paper

# Memorandum of understanding between the United Kingdom of Great Britain and Northern Ireland and the Kingdom of Sweden regarding life sciences (text only)

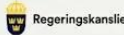
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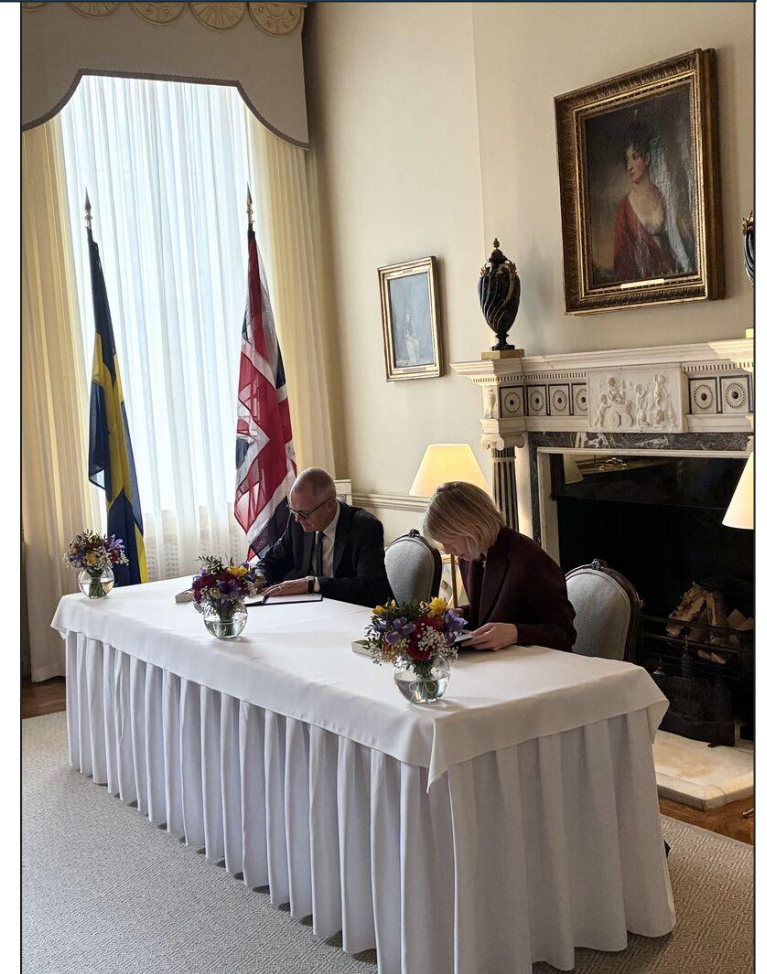
## THE ANNUAL LIFE SCIENCE LECTURE FOR THE UK-SWEDEN MEMORANDUM OF UNDERSTANDING



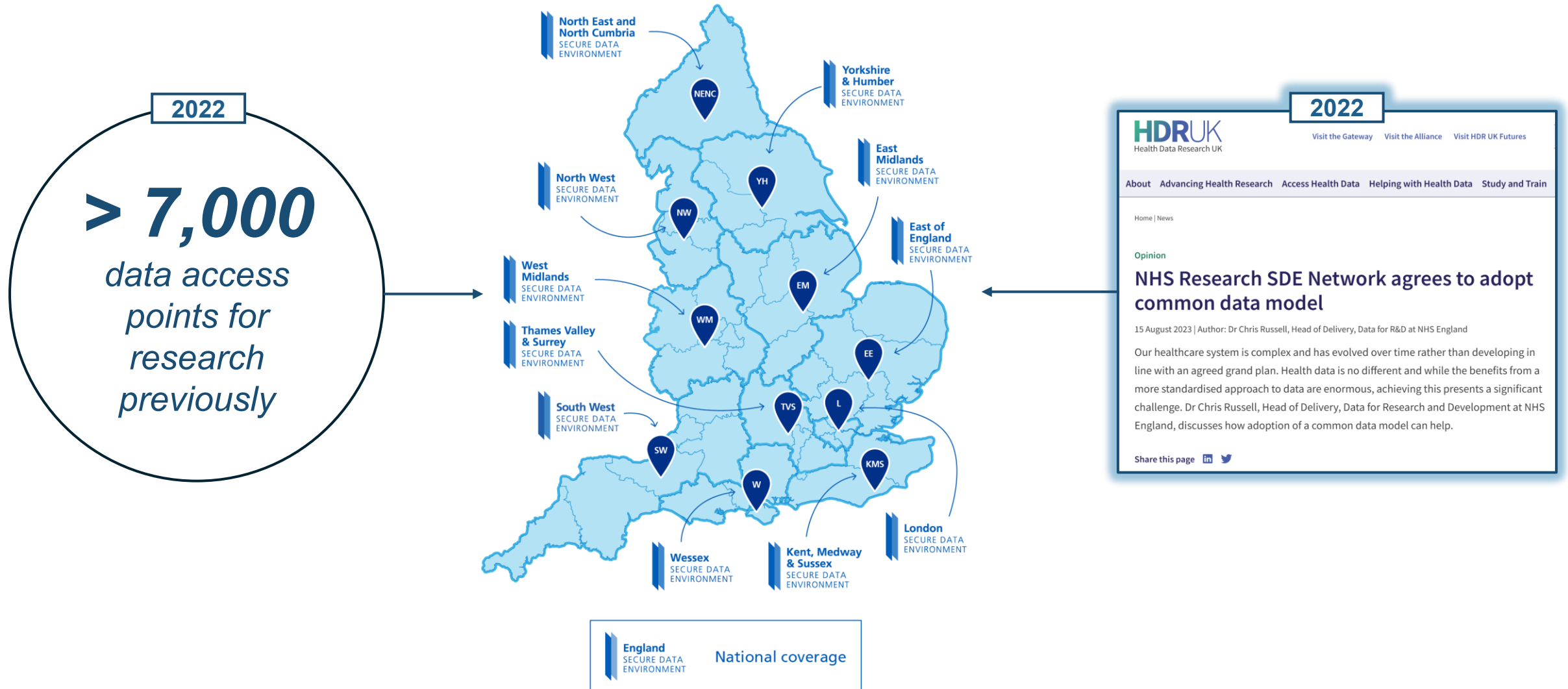
Guidance

# UK-Sweden Memorandum of Understanding for cooperation in research and innovation

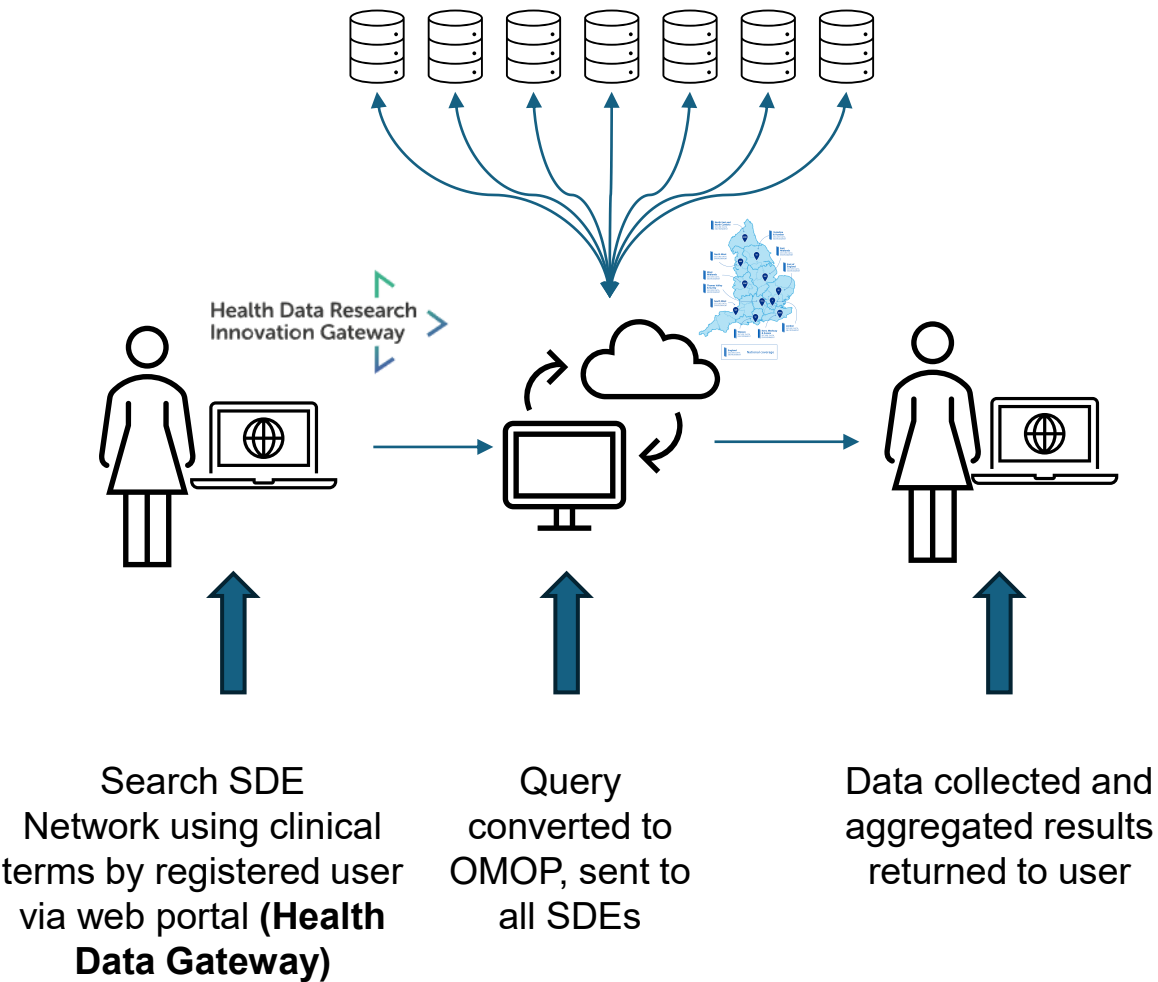
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# Secure, rapid and at-scale access to health data in England



# OMOP at scale and pace: SDE Network-wide cohort discovery



| OMOP Cohort Discovery Minimum Data Model |                                                                                                           |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| CDM Table Name                           | CDM Field Names                                                                                           |
| CONDITION_OCCURRENCE                     | condition_occurrence_id, person_id, condition_concept_id, condition_start_date                            |
| DEATH                                    | person_id, death_date, death_type_concept_id, cause_concept_id                                            |
| DRUG_EXPOSURE                            | drug_exposure_id, person_id, drug_concept_id, drug_exposure_start_date                                    |
| MEASUREMENT                              | measurement_id, person_id, measurement_concept_id, measurement_date, value_as_number, value_as_concept_id |
| OBSERVATION                              | observation_id, person_id, observation_concept_id, observation_date                                       |
| PERSON                                   | person_id, gender_concept_id, year_of_birth, race_concept_id                                              |
| PROCEDURE_OCCURRENCE                     | procedure_occurrence_id, person_id, procedure_concept_id, procedure_date                                  |
| VISIT_OCCURRENCE                         | visit_occurrence_id, person_id, visit_concept_id, visit_start_date                                        |

# OMOP at scale and pace: SDE Network case studies

## ‘Bytes, Bench, Bedside’ - genomics driver project:

- Automated extraction of data from host EPR systems (Epic).
- Automated the transformation of extracts to OMOP using omop\_es (UCLH).
- Surfacing structured clinical data alongside genomic data for federated analysis
- Automated release of results via an airlock



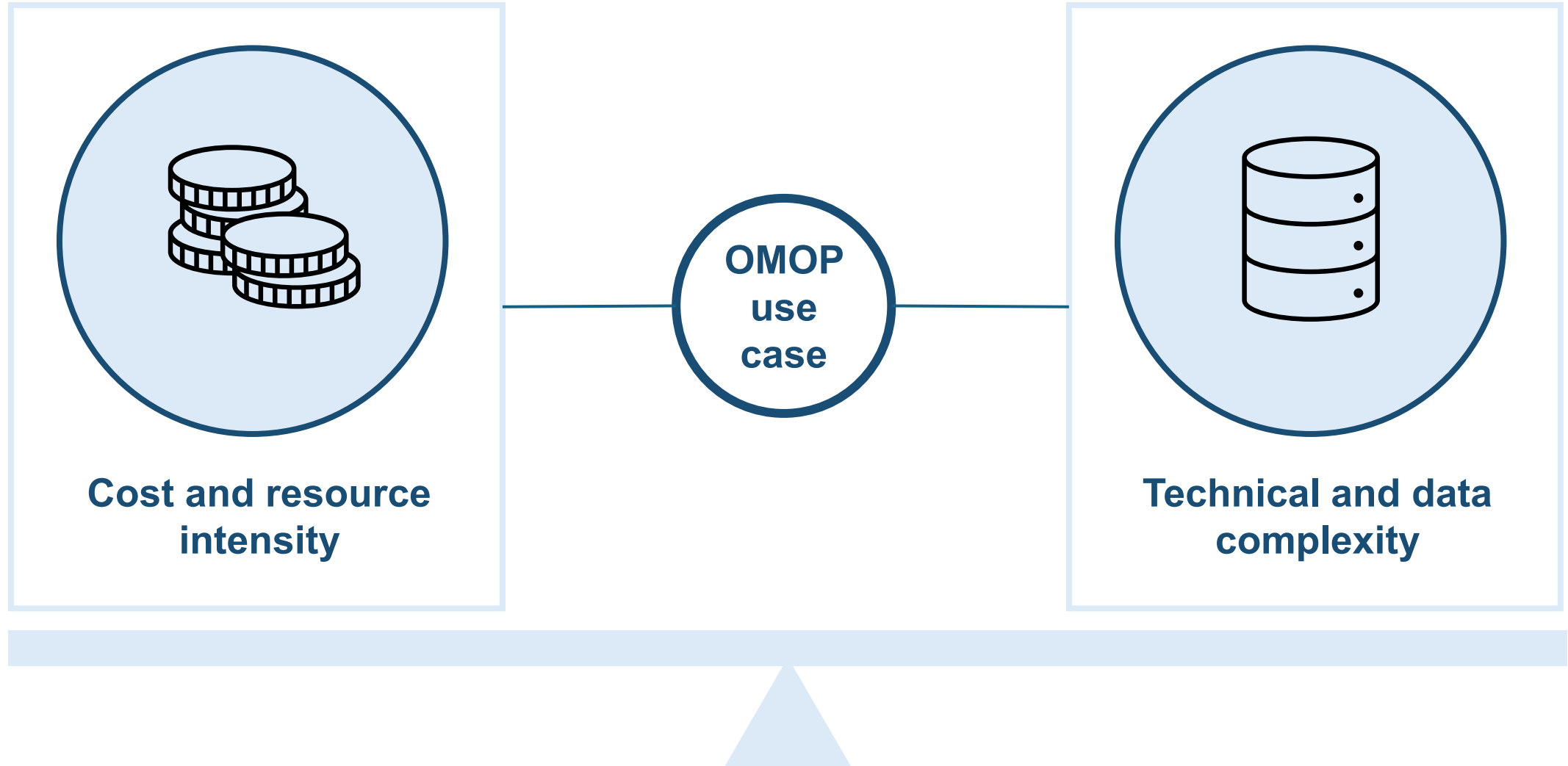
## Cancer research - expand, simplify and accelerate research into causes and treatments:

- Mapping the data into a common model to expand, simplify and accelerate research into causes and treatments
- Future links with other datasets in the SDE Network will enable use of analytic tools and AI to look at relationships between cancer and other conditions or lifestyle factors



# OMOP at scale and pace: experience from England

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# OMOP at scale and pace: recommendations for Sweden

1



**Prioritise high-value, OMOP-enabled use case(s)**

- Select use cases that are highly demanded by researchers and sustainable for scaling: maximum standardisation and reusability benefits

2



**Coordinate international, national and regional collaboration**

- Blend governance with local expertise through a national convening mechanism
- **'Specialism not duplication'**: data models, mapping and provenance documentation all accessible and collaborative

3



**Embed OMOP into a broader health data strategy**

- **Research**: Position OMOP implementation alongside wider health data access initiatives, including research infrastructure (e.g. TREs) and public engagement
- **Direct care**: Consider OMOP's role alongside national strategies for EHR uptake and maturity



# Min nya blogg!



## 'Take a Chance'...on Health Data: UK–Sweden's New Research MoU



Jake Marshall AdvFEDIP

November 4, 2025

Last month, the UK's Department for Science, Innovation and Technology (DSIT) and Sweden's Ministry of Education (Utbildningsdepartementet) signed a new [research Memorandum of Understanding \(MoU\)](#). This marks a new chapter in UK-Sweden bilateral relations, with a unique opportunity to now deepen collaboration on the secondary use of health data for commercial research. This blog explores the current strategic context on health data access across both countries, comparative strengths and valuable learning areas to ensure the MoU's success.