

# Surgical Scorecards – Data Quality Project

NHS Trust (NHST)

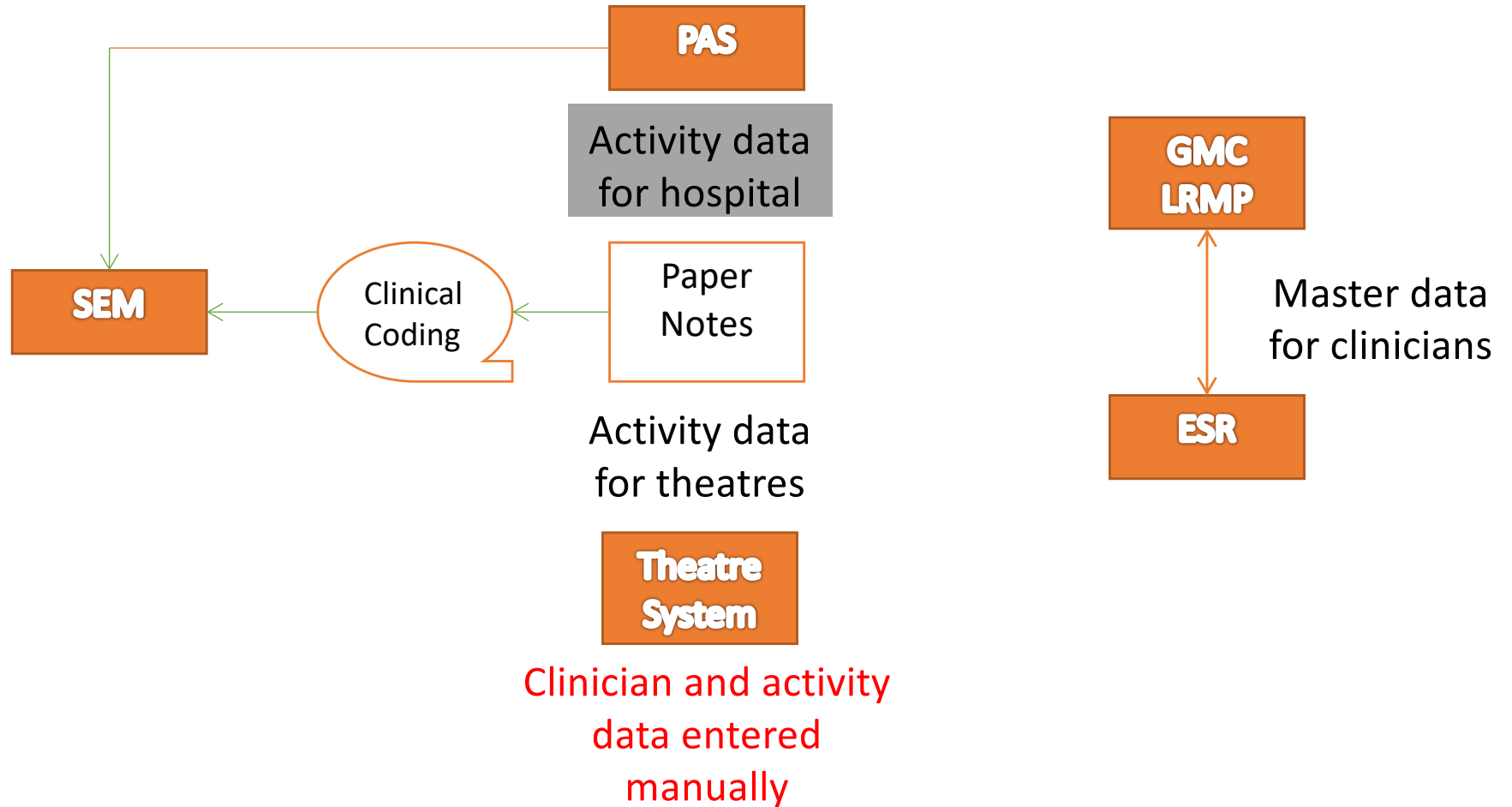
# Aims and Objectives

The aim of this project is to improve data quality for the subset of theatre system data that is required to produce the Surgical Scorecards.

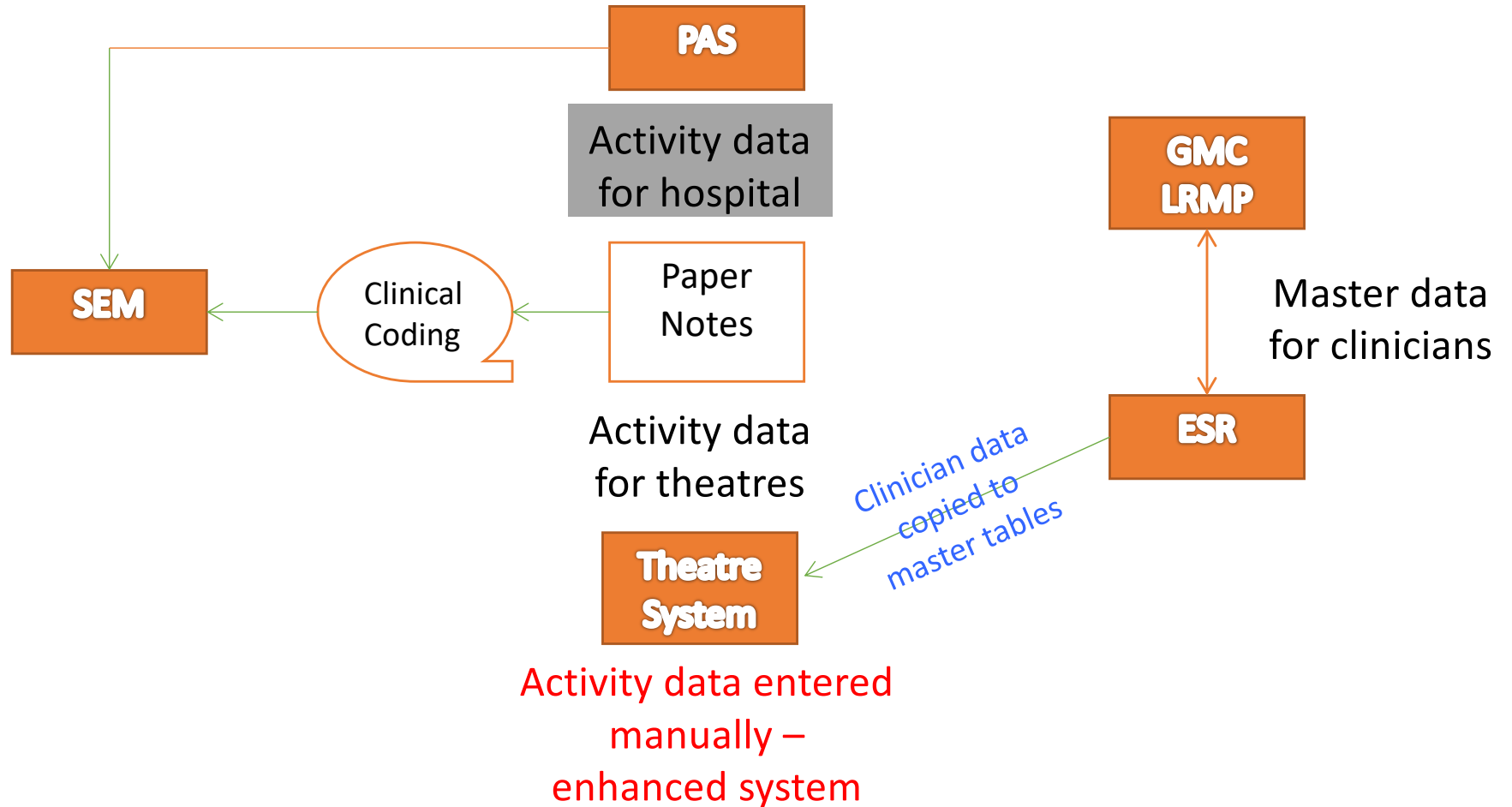
Objectives include:

- Data quality to be above 95% within 6 months
- Processes in place to ensure continuity of data quality
- Identification of inaccuracies where data quality is below 100%
- Flexibility to extend the scope of high data quality to other areas
- Assess options for obtaining accurate and reliable historical data

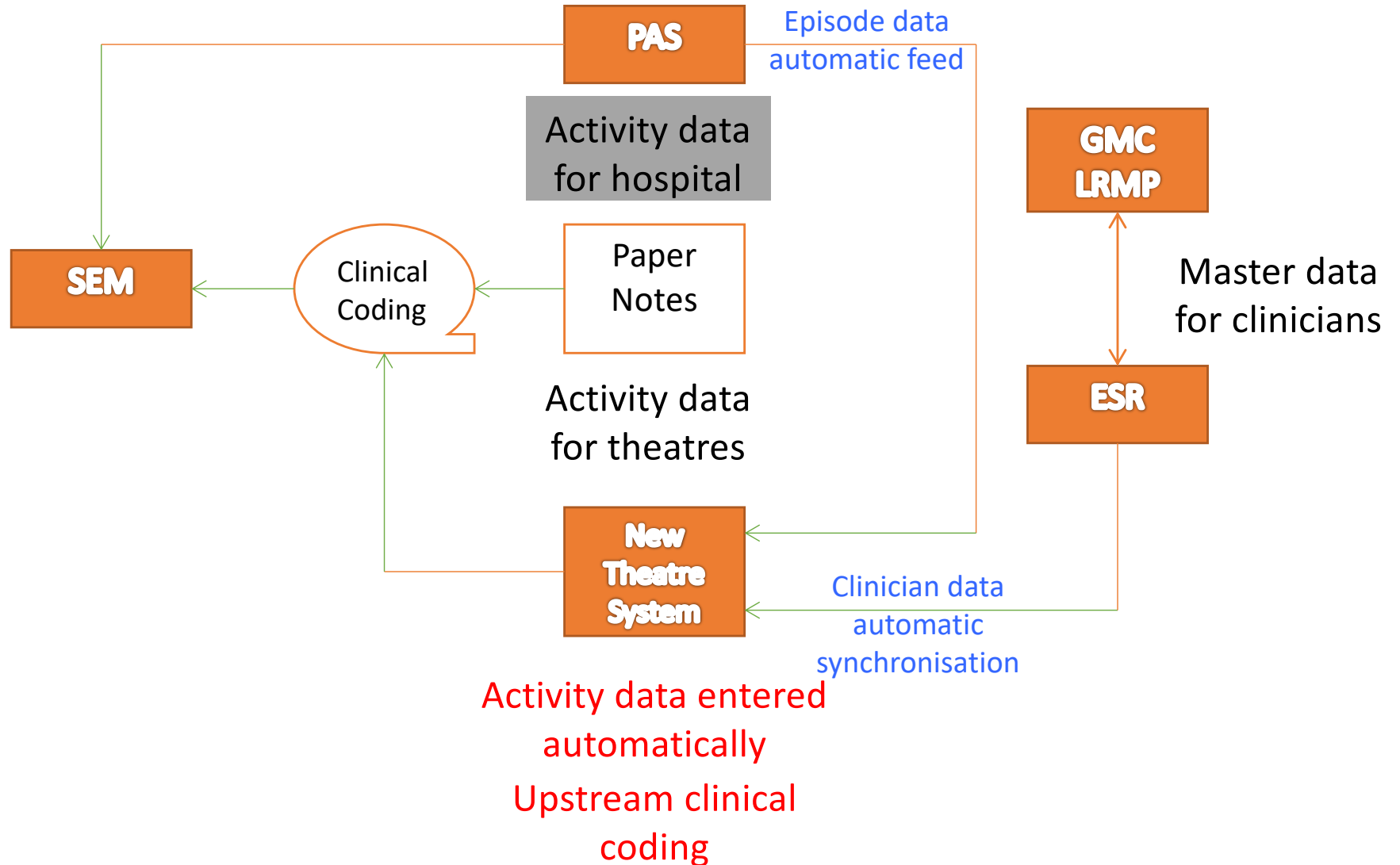
# Data Architecture: Current



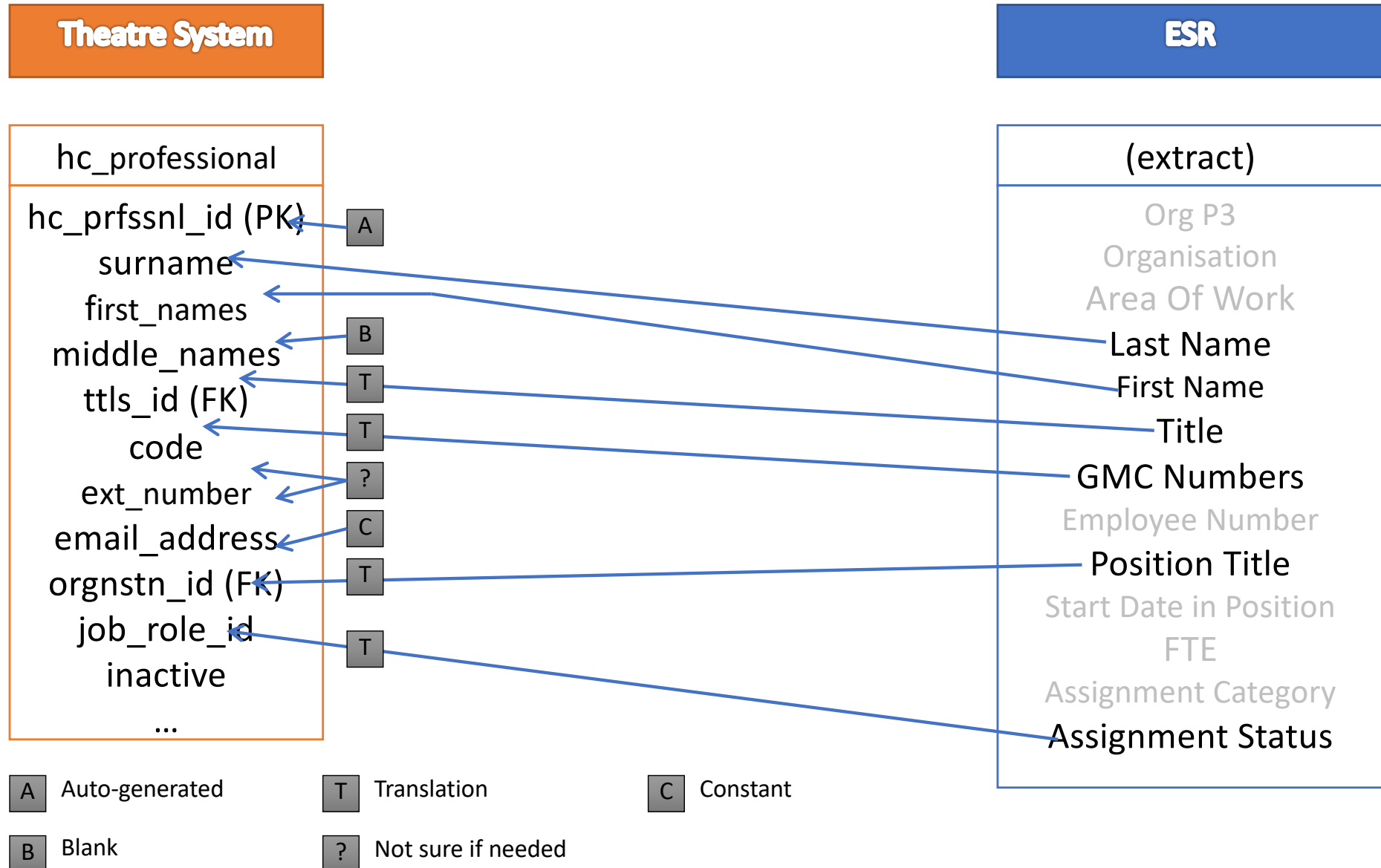
# Data Architecture: Intermediate



# Data Architecture: Target



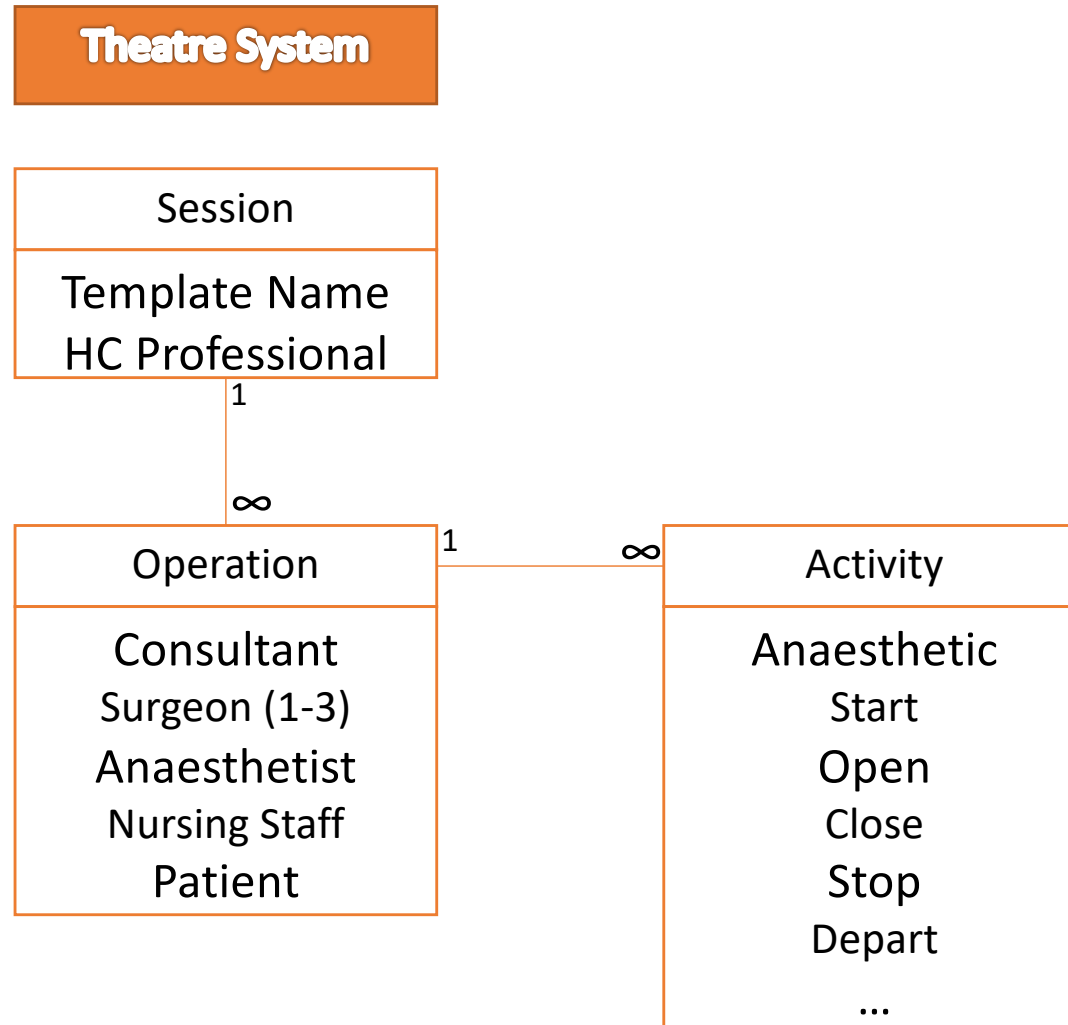
# Data Architecture: HC\_Professional – field mapping



# healthcare\_professional table Data Cleansing

- Outer Join:
  - `ESR.[GMC Numbers + Last Name] = healthcare_professional.[code + surname]`
- If record in ESR but not healthcare\_professional then add to potential INSERT list
- If record in healthcare\_professional but not ESR then add to potential DELETE list
- Check both lists for match on GMC Numbers = code in case there has just been a name change and if so move to UPDATE list
- Add INSERT list to table as new entries
- Use DELETE list to mark records as inactive
- Use UPDATE list to update first\_names and surname fields
- Then we need some way to update their resource\_type\_id to be consultant, surgeon or anaesthetist – to do this we need to know:
  - If this can be obtained from ESR
  - How it is stored in Theatre System

# Data Architecture: Current





# Project Actions

The changes to data capture at NHST will involve a combination of data cleansing, information system changes and business process changes

Actions include:

- Cleansing master clinician tables in Theatre System so users can only choose current consultants and surgeons
- Regular manual update of clinician names, grades etc. from ESR
- Clinical staff fields mandatory in Theatre System
- Surgeons confirming clinical staff names when signing operation notes in Theatre System
- Surgeons agreeing log book for previous week
- Timestamp data collection simplified – touchscreen where possible e.g. anaesthetics room
- Requirements captured for replacement system