

North Thames Genomics – Estimates for Modelling Work

Cancer Dataset

Initial analysis of the dataset has resulted in the following modelling requirements:

1. A total of 63 archetypes are required:

a. New simple archetypes	10 (16%)
b. New complex archetypes	2 (3%)
c. Simple modifications to existing archetypes	12 (19%)
d. Complex modifications to existing archetypes	8 (13%)
e. Existing archetypes	31 (49%)
2. These will be compiled into 15 templates.

Based on these figures we estimate that the modelling work itself will require a total of 14.5 days' effort.

In addition to the modelling work itself, extra time is required for further analysis, reviews and clarifications. This is estimated to be 5.5 days.

Based on our usual daily rate of £695 + VAT, the total estimated cost is £13,900 + VAT.

We estimate that we can deliver the models over a six-month period.

It should be noted that according to our analysis, 68% of the required models are based on straight re-use of existing archetypes or making very simple modifications to existing archetypes.

Rare Diseases Dataset

Initial analysis of the dataset has resulted in the following modelling requirements:

1. A total of 81 archetypes are required:

a. New simple archetypes	36 (44%)
b. New complex archetypes	6 (7%)
c. Simple modifications to existing archetypes	13 (16%)
d. Existing archetypes	26 (32%)
2. These will be compiled into 15 templates.

Based on these figures we estimate that the modelling work itself will require a total of 21 days' effort.

In addition to the modelling work itself, extra time is required for further analysis, reviews and clarifications. This is estimated to be 7 days.

Based on our usual daily rate of £695 + VAT, the total estimated cost is £19,460 + VAT.

We estimate that we can deliver the models over the same six-month period as the Cancer models.

It should be noted that according to our analysis the percentage of archetype re-use (i.e. either straight re-use or simple modifications) is 48% for the Rare Diseases models, i.e. somewhat lower than for the Cancer models. This is due to the following factors:

1. Any new archetypes or modifications to existing archetypes are already accounted for in the Cancer models, these amount to a total of 10 new or modified archetypes which are shared between the two areas.
2. By definition, the Rare Diseases models require 'rare' content which has not yet been covered in any existing modelling work, particularly in the area of scales, scores and unusual investigations.

Basis for calculation of effort

The following estimates are used to calculate the number of hours required for the modelling work:

New simple archetype	2 hours
New complex archetype	4 hours
Simple modification	1 hour
Complex modification	2 hours
Template design	4 hours

Analysis

The links below provide access to the mind maps which were produced to illustrate how the datasets can be mapped to openEHR models.

Cancer Dataset:

<http://www.xmind.net/m/enGk>

Rare Disease Dataset:

<http://www.xmind.net/m/ZvDB>



Archetype exists



Needs further analysis



Needs new archetype



Needs modification