**Statement of Work for *Her2* Breast Cancer Imaging**

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| **Summary of changes** | First draft |

**Background**

Samples were obtained 80 Chilean patients from National Cancer Institute and the tissue was cut, stained for cell structure and *Her2*, and put onto microscopy slides. Large numbers of slides were scanned by a microscope and loaded onto proprietary software. Individual cells were identified in these images and must be classified into 3+, 2, 1, or 0 based on severity.

**Problem statement**

Goal:

Preprocessing of 20GB images

Identification of regions of interest among sparse tissue sample

Classification of images into multiple groups using machine learning

Resources available:

Cancer tissue data

Good internet at all times

High performance cluster

**Deliverables**

A working pipeline in Python to classify images into cancer groups.

**Project timeline**