The implementation stage began by implementing a client-server application and then integrating Microsoft’s SEAL library to allow HE data transmission, satisfying the first core success criterion. Then, an investigation into optimising the network stack by implementing the \textit{seam carving} algorithm and \textit{graph representations} of images to reduce video size and \textit{parallelisation} to increase the transmission rate.

Afterwards, a novel investigation into adapting moving object detection algorithms for the HE domain was completed. This required modification of algorithms to reduce the number of operations required, development of HE Boolean circuits for more complex operations, and implementation of unsupervised machine learning models.

Finally, a bespoke HE scheme was implemented from first principles following the CKKS scheme initially integrated. This developed understanding and enabled investigation into specialising the implementation as an opportunity for optimisation.