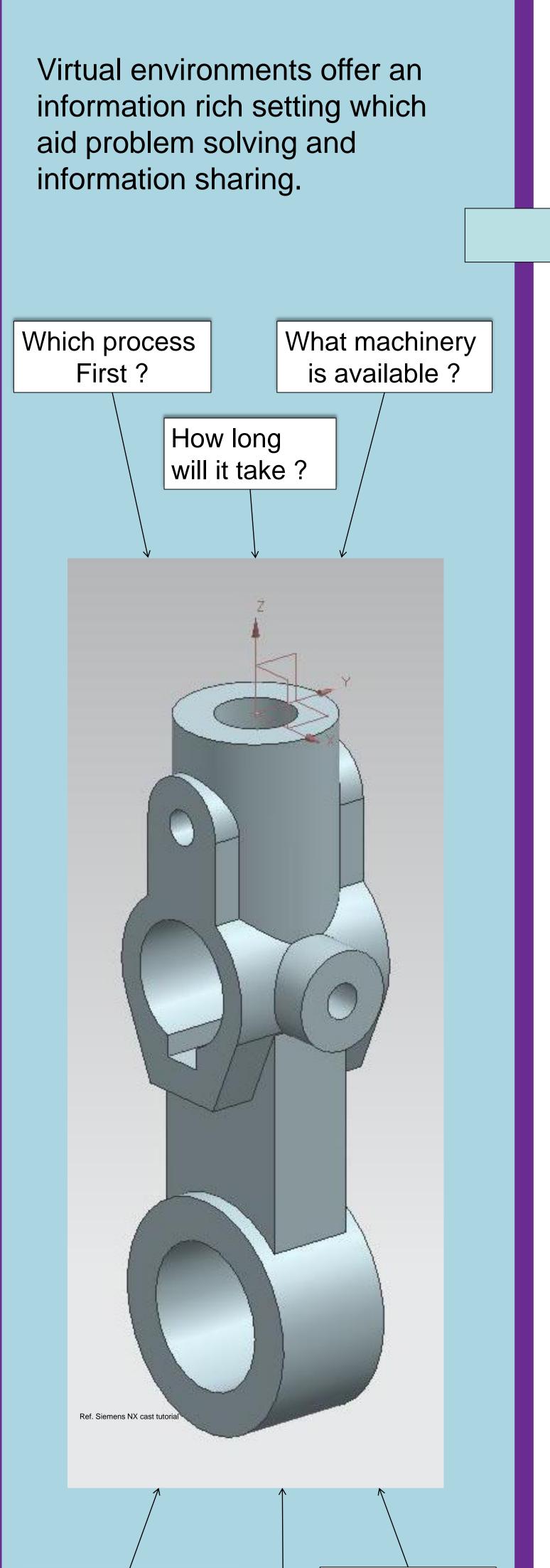


High Value Manufacturing

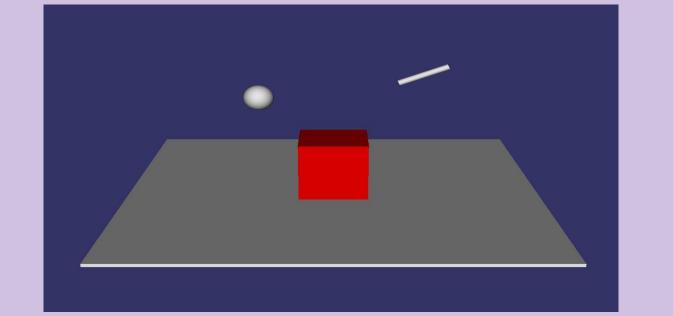
Haptic Devices and Virtual Machining Craig Fletcher

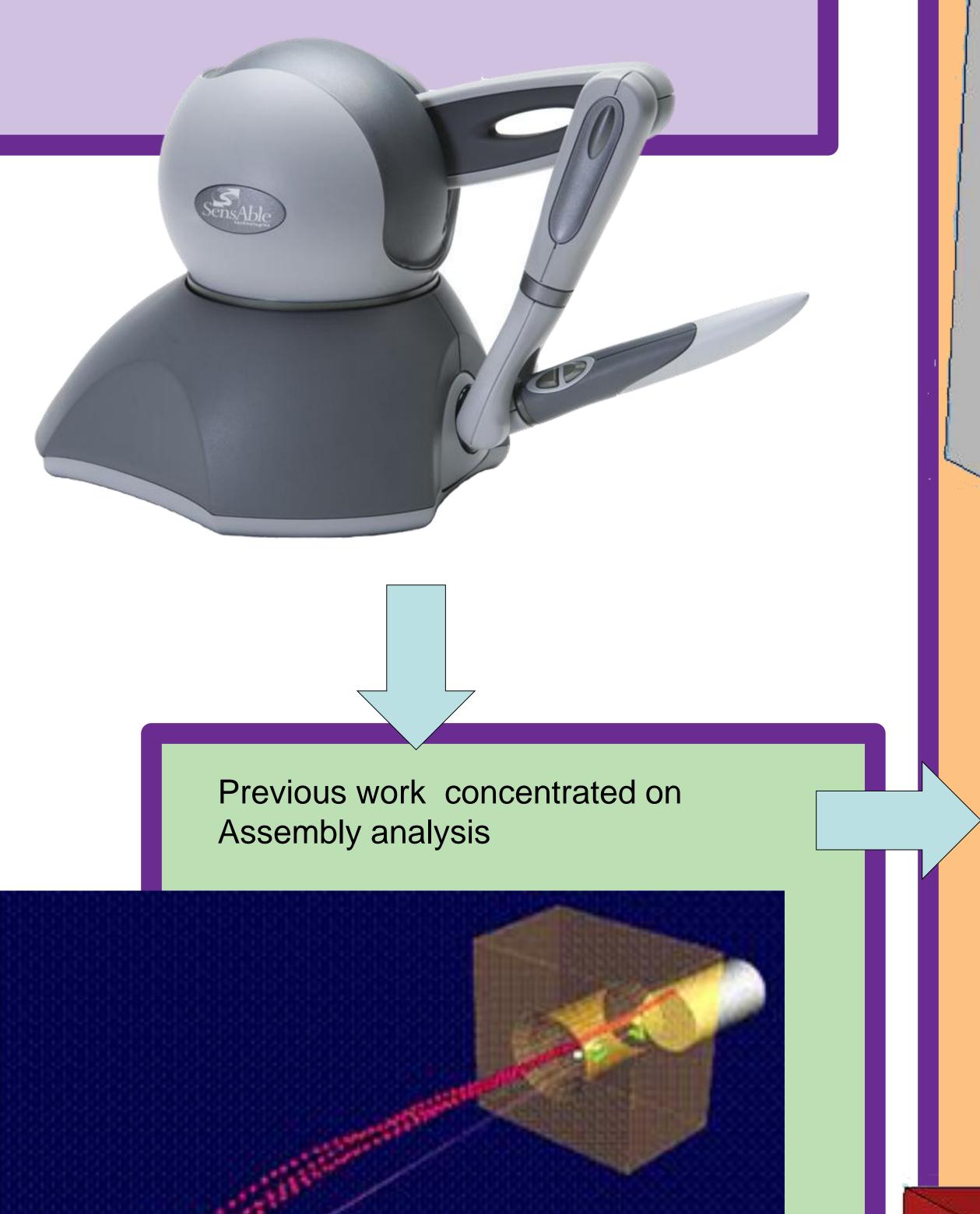
HERIOT WATT UNIVERSITY

This project will focus on exploiting haptic technology and virtual environments to capture expert user knowledge by simulating machining and set-up processes. This information will then be reused downstream in a Computer Aided Process Planning (CAPP) environment.



Haptic devices enhance virtual environments by conveying computer generated forces back to the user creating a sense of feel, thus allowing the user to touch objects in the virtual environment.





This is now being extended into material removal



The ability to rapidly prototype product manufacture in a virtual environment will lead to a better understanding of the manufacturing issues before committing to the manufacture.

A better understanding of the manufacturing issues will lead to more optimised machining strategies and less downtime.

