



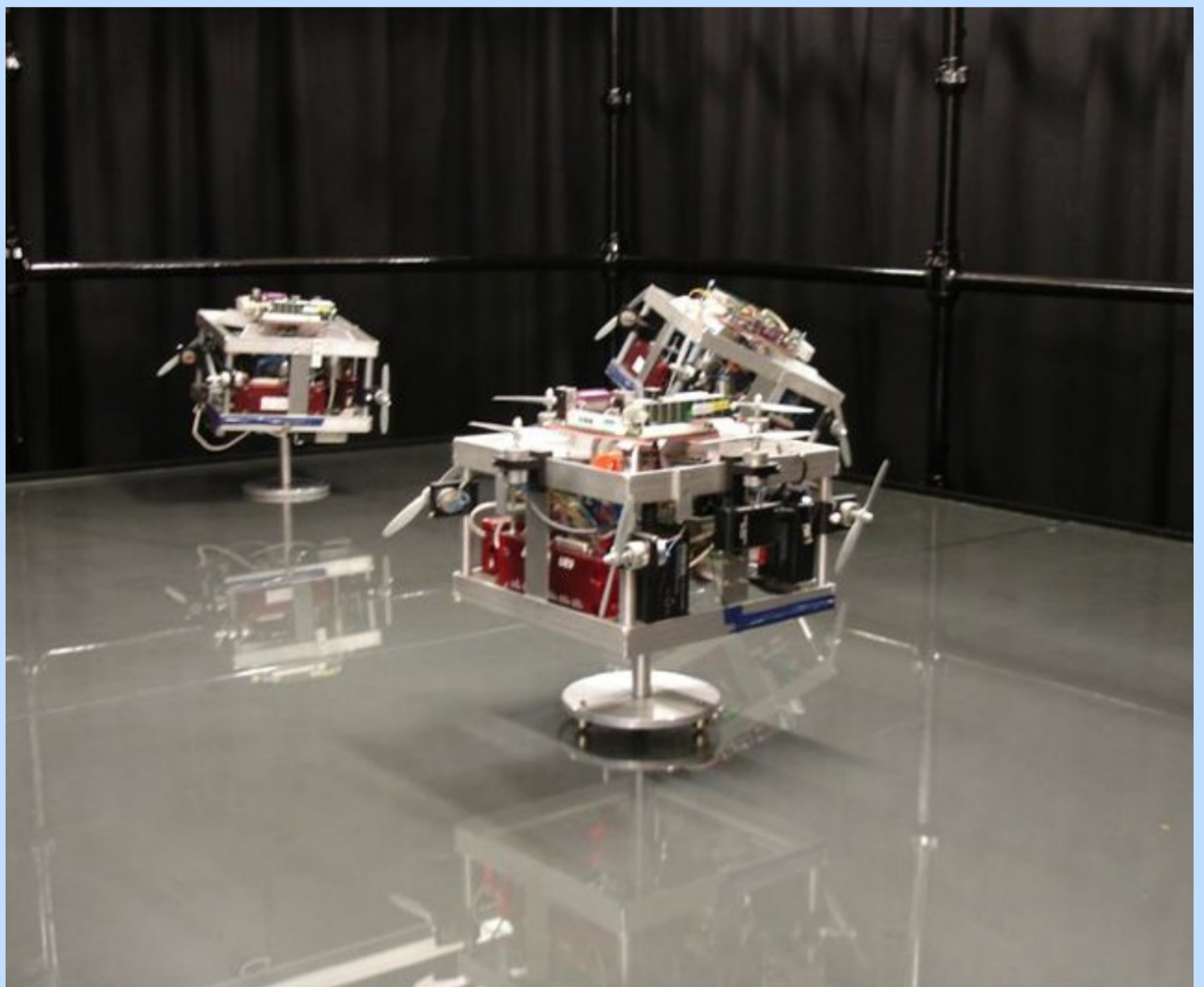
UNIVERSITY OF
LIVERPOOL

EPSRC
Engineering and Physical Sciences
Research Council

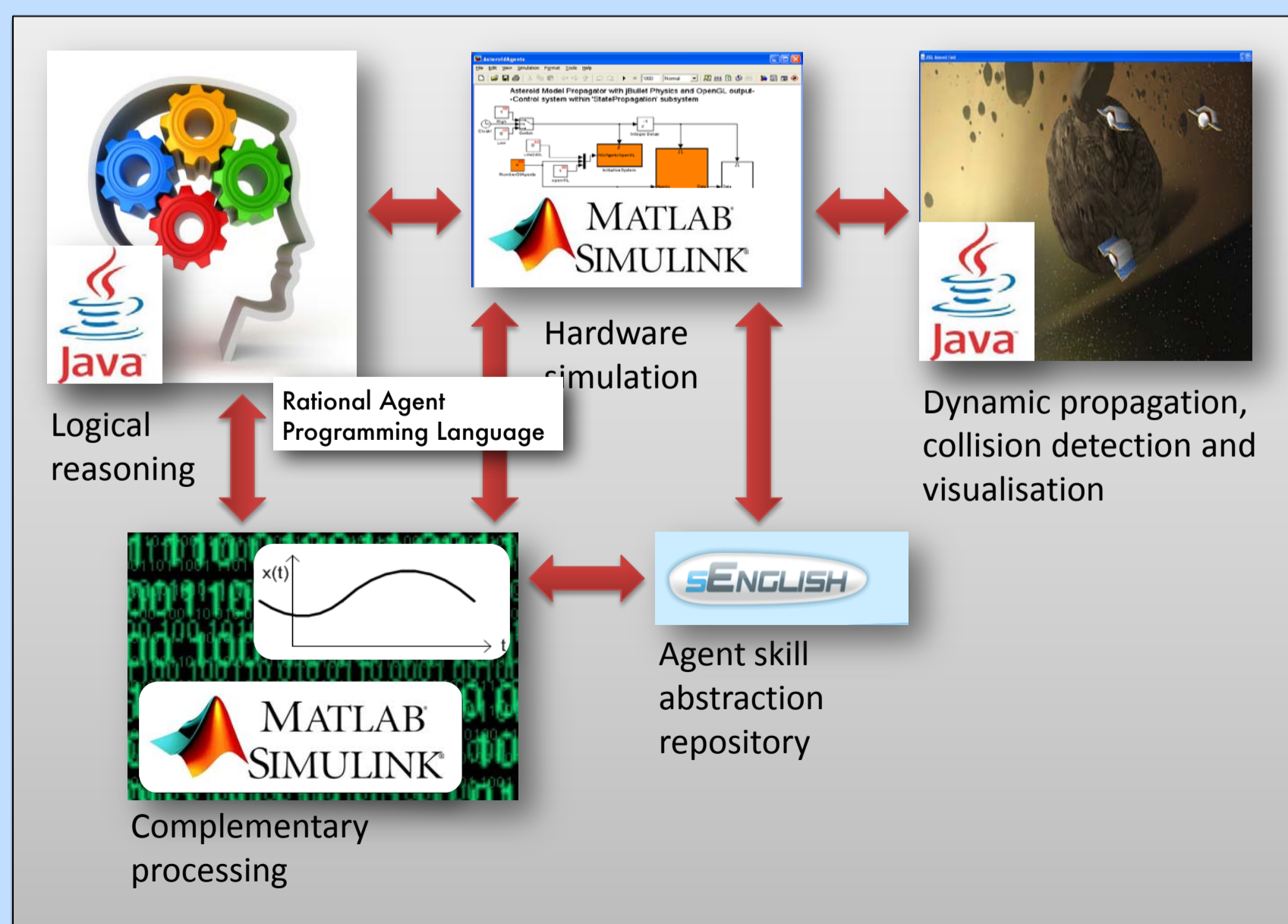


University
of Southampton

Engineering Autonomous Space Software



The EPSRC-funded *Engineering Autonomous Space Software* project aimed to combine current state-of-the-art control systems technology with rational agent technology in order to produce a system that could both perform fine-grained monitoring and adjustment of behaviour and make large-scale decisions about, for instance, obstacle avoidance.



We have done theoretical work to describe such a system in a general mathematical way which does not depend upon specific languages or technologies.

An actual system has been implemented and tested both in a simulated environment and on a hardware test bed at the University of Southampton.

This system includes a number of experimental sub-systems such as a simulation engine, which can be used to assist in decision making by simulating possible outcomes of actions and events, and an abstraction engine which monitors incoming sensor data and can use it to deduce general facts such as "all the thrusters are working correctly".

TO LEARN MORE: <http://cgi.csc.liv.ac.uk/EASS>

LIVERPOOL CENTRE FOR AUTONOMOUS SYSTEMS TECHNOLOGY:
<http://cgi.csc.liv.ac.uk/~michael/Centre for Autonomous Systems Technology>