Microsoft 2020 Science

Creating Tomorrow's Scientists

Anthony Finkelstein

Computational Science ⟷ **Education**
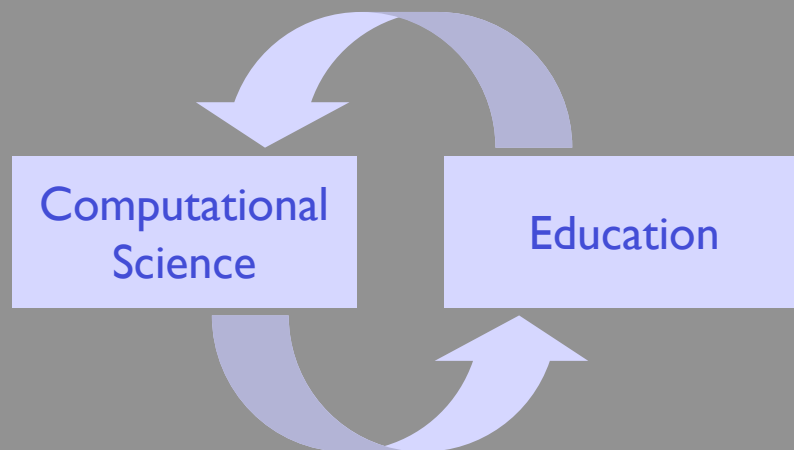
An obvious message … education is critical to an economy whose success depends on innovation

Science-based innovation is critical not simply to technology industries but to service industries too

Computing

Skills *and* Understanding

Rethink the balance. The need to see past the immediate problem!

Continue and enhance efforts devoted to interest children in science

Ensure that the most able children are intellectually challenged and given the tools to engage with scientific problem solving

New science demands new kinds of scientists …

Capable of working in a multi-disciplinary environment and computationally literate

Policy Suggestions

Recognise that computing education is central to the STEM agenda

Support experimental science and engineering oriented computing education

Encourage 'complementary' or 'conversion' Masters degree programmes & PG discipline-hopping

Policy Suggestions

Gender

Develop a response to the drop in applications for computer science and to the shortage of UK applicants for postgraduate education

A personal comment freedom