



CPHC Workshop: Essential knowledge & skills for entry to computer science degrees

Julia Adamson, MBE FBCS

Niel McLean, OBE FBCS





Workshop Purpose

Students enter Computer Science degrees through multiple routes,. This workshop will explore whether there is a core set of essential knowledge and skills regardless of the route to entry that all students should have in this collaborative workshop.

Today: To identify the essential prior knowledge, skills, attitudes and experiences needed for undergraduate success.

To use this to influence the shape of 16-18 qualifications .in the future.



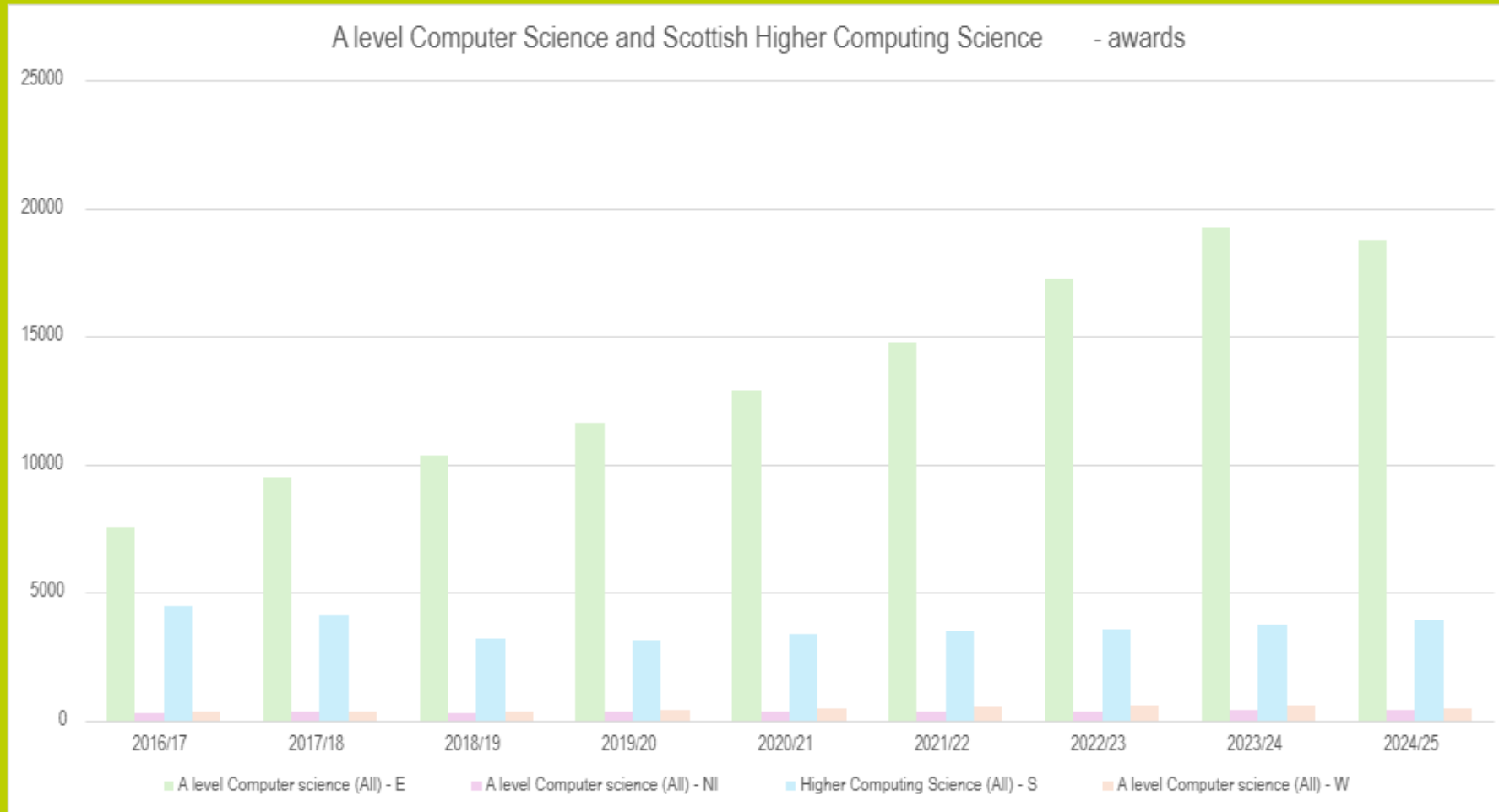
Why now?

- Changes in education across the UK.
- In England , V levels as a new route.
- Wider environment.
- Misunderstanding about AI

Degree Applications in 2025

- Computing applications declined, but unique applicants remained stable.
- Female participation is steady, with growth in AI & Information Systems.
- AI & Information Systems are the fastest-growing fields.
- Computer Science remains the most popular, despite declines.

16-18 Academic Qualifications





Task 1: what are pre-requisite:

- Knowledge
- Skills
- Attitudes
- Experiences

<http://tiny.cc/boy1101>



Task 2: prioritisation

- If you could have five of these.....?





Immediate next steps

- We will work this up into a discussion document and share via CPHC .

