# IAB Combined Notes - 26/2/2020

**Discussion points re potential MSc areas:**
Table 1 (Roberto and Thomas)

- why hire MSc? no impact on companies - year in industry much more valuable
- more practical aspects offered in MSc? 2 year MSc with 1 year in industry
- group liked MSc "predictive in vitro models for medical innovation & research" - something that's need in industry, not only buzzwords, needs no explanation - as opposed to e.g. advanced biomaterials or biomedical engineering and materials (not clear what this means)
- bio - big changes in regulatory aspects. big challenge for approval of devices, equivalence rules (i.e. similar devices will still need to go through clinical trials) from next years onwards
- 3D printing - how to characterize/measure properties etc? again related to regulations
- 10 year lifetime of course makes sense and is well marketable

Table 2 (Ollie & Andy)

- not enough systems engineers coming out of UK > systems engineering MSc!
- (advanced) product development MSc? combination of systems engineering, design and optimisation, will create people who can introduce disruptive technology - can go through product conception to launch
- advanced mat for future transports - no problem with content - but adv mat for sustainable transport might work better

Other notes from sheets re skill sets:

- lots of skills hard to measure - especially soft skills (e.g. creativity) but also others, e.g. technical - "awareness of coding" (what languages will be taught?)
- design testing protocols, experiments is good - what software will be used? align with what is used in industry

Other notes re MSc areas (in addition to the many notes annotated on the print outs):
Materials Science: why not renewable and sustainable materials?
Advanced Materials for Product Development > formulation/composites
Sustainable energy and materials > small product development company perspectives