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• Commercial goals:
  – Short-term ➢ Thin-film metrology
  – Medium-term ➢ 3-d surface metrology
  – Long-term ➢ BIL, surveillance

Leading to products with an established demand
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• A range of research goals of various nature

- Incremental
  - improving wfs precision
  - relationship to national standard of length

- Non-incremental
  - wfs on discontinuous and rough surfaces
  - optical µ-manipulation
  - fs lasers

- PPARC interests
  - OWL/segmented/space optics

- EPSRC interests
  - bio-medical and engineering
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• Project about to start
  ➢ Legal collaboration agreement signed
  ➢ 3 research students in place
    ➢ Heather Campbell (PhD CASE student ATC)
    ➢ Clare Dillon (EndD student BAE SYSTEMS)
    ➢ David Faichine (EngD student Scalar Technologies)
  ➢ RA applicants interviewed - offers being made
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• Work to date
  ➢ Risk-reduction work on laminate structures
    (Scalar
      ➢ $+20\mu \text{m}$ interface location in structure $150\mu \text{m}$ to $8\text{mm}$ thick
      ➢ $+10^{-4}$ rad. on angle (parallelism) of interfaces
  ➢ Generalisation of phase-diversity wfs
    ➢ sufficient conditions established for generalised phase diverse functions (EOARD)