

# Computer Science @ York — Track Record

- Safety-critical research in defence, aerospace, rail, automotive
- RSSB projects
  - Failure Modelling for Railway Signalling Systems
  - Security-Informed Safety
- INESS FP7 rail project
  - Modelling, safety analysis, requirements validation, simulation
- Tech transfer to industry via many EU projects
  - MONDO, OSSMETER, OPENCROSS, D-MILS...

# Computer Science @ York — Expertise

- Large-scale systems modelling (with domain-specific languages)
- Automation of engineering tasks (e.g. analysis, code generation, traceability)
- Failure modelling, simulation, dynamic safety and risk assessment
  - Model-based safety assessment
- Safety and security assurance cases
  - Model-based assurance cases