

An ITEA Smart Engineering project

GreenCode



GreenCode: AI/ML Driven Software Optimisation to Reduce Cost and Climate Impact

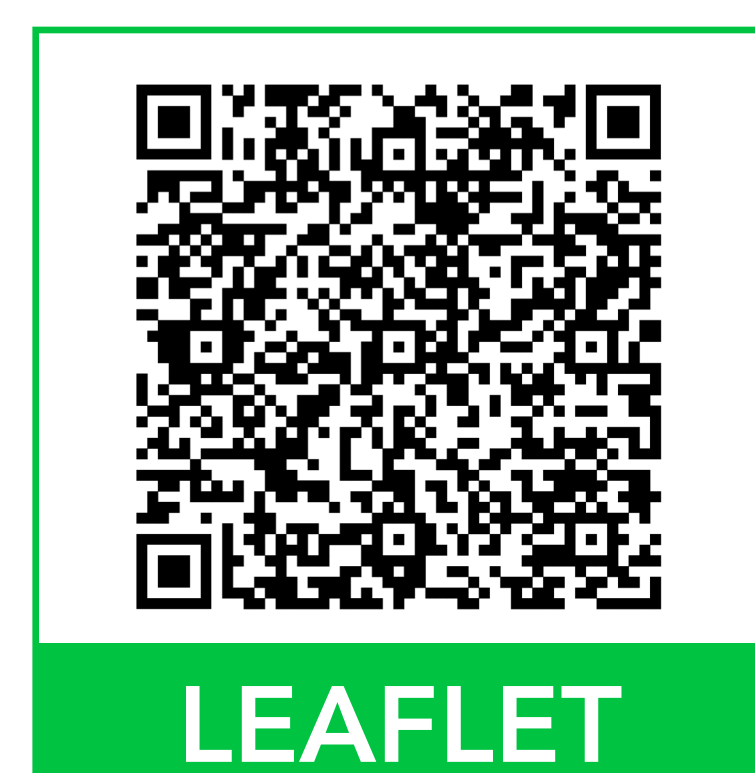
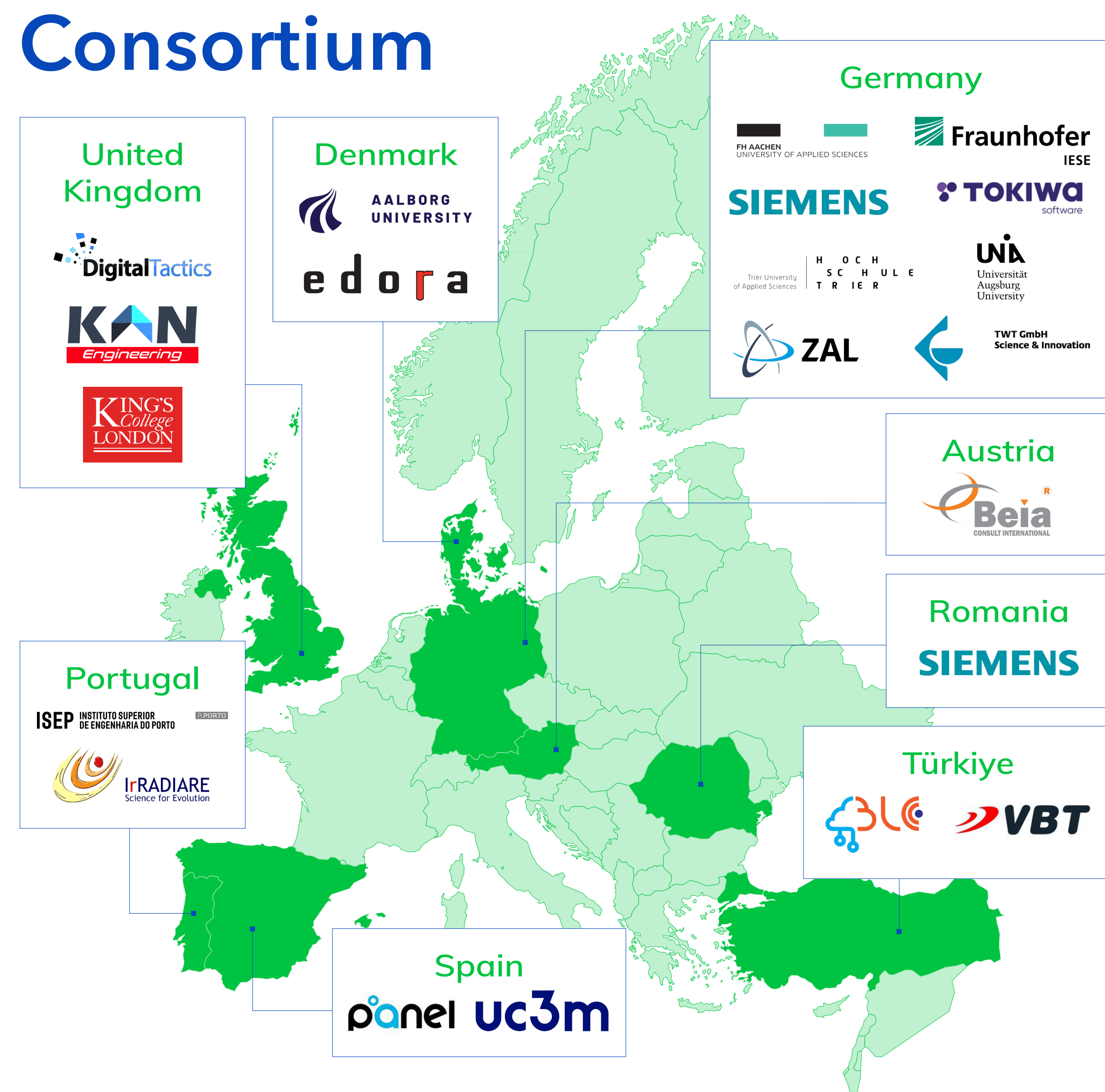
Project summary

Uniquely combining state-of-the-art Generative AI with detailed software quality, energy expenditure, and performance analysis, the ITEA project GreenCode will reduce the cost and carbon footprint of the IT sector at scale, by automating the optimisation and modernisation of inefficient software systems.

Project duration

October 2024 - October 2027

Consortium



LEAFLET



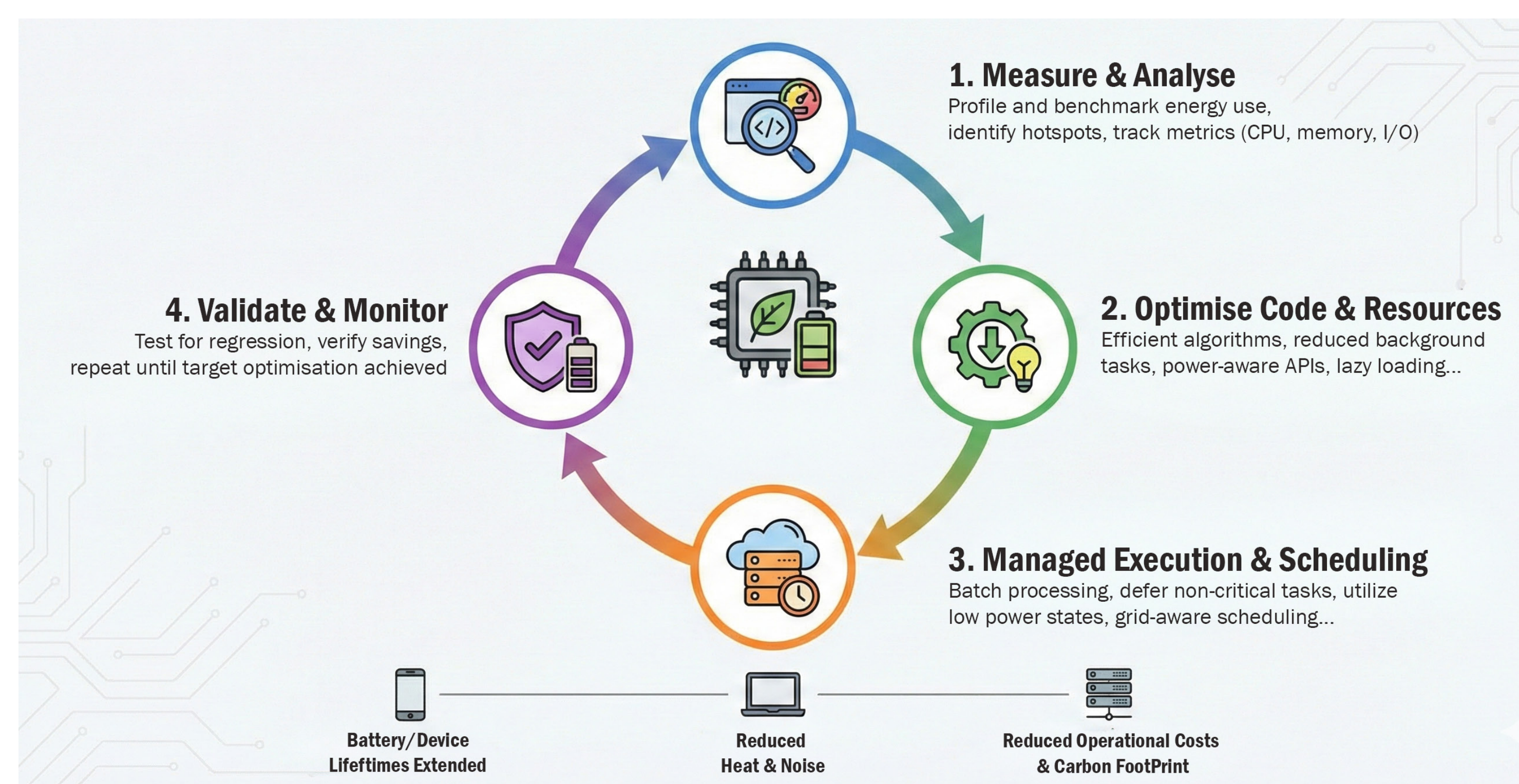
WEBSITE

<https://greencode.ai/>

Expected key results and USPs

- > Closed-loop AI automated software (inc. IaC) optimisation pipeline
- > Focusses on energy expenditure as a first-class quality metric
- > Reduces operational energy use and carbon footprint of software (and by implication servers, datacentres)
- > Minimum 15% energy reduction targeted for most applications; seeing 50-80% reductions in some tests
- > Delivers tooling, skills and techniques for legacy application optimisation, modernisation and future green software builds by AI

Software energy optimisation process



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