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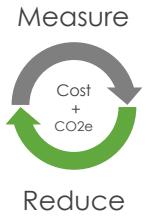
Green Software Optimisation

Combine the reduction of IT costs on cloud and reduction of environmental footprint

January 2024

Green Software Optimisation



Are you a CIO or CDIO?

Do you have substantial monthly cloud spend?

Do you have challenging Net Zero/Sustainability goals?

Are you concerned about digital sustainability?

Our Green Software Optimisation aims to realise service-by-service,

10% cost reduction

30% carbon emissions reduction

Increased green maturity for teams

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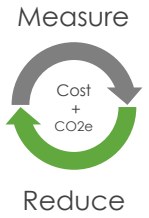
Approach to greener digital services



1.

Measure by service

Analyse spend and utilization to calculate carbon footprint baseline. Internal teams can then re-measure to identify trends.

2.

Assess green maturity

Assessment of maturity of software delivery team and service artefacts from the perspective of sustainability. Deliver recommendations for improvement.

3.

Realise savings

Apply the recommendations to realise cost and carbon emission reduction.

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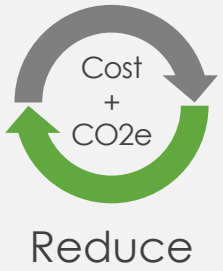
Reduce the footprint of your IT estate

Meet Net Zero and digital sustainability goals for IT while optimising cost

- *What is the carbon footprint of my digital services?*
- *How can I reduce the impact of my IT estate on the planet?*
- *Are my IT policies sustainable?*
- *Can I reduce cloud costs while reducing carbon emissions?*
- *How can I integrate sustainability into my software design?*



We assess digital for sustainability by measuring the carbon footprint by service, rating the maturity of software teams and advising how to reduce impact.

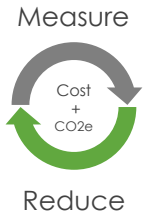
Reducing the footprint of your whole IT estate will be necessary to meet Net Zero goals and Green policies. Building this into your operational procedures will allow continuous reduction.

The hidden footprint of IT

- IT emissions are equivalent to air, rail and shipping combined
- Irish data centres used 18% of the electricity supply in 2022 (up 31% in one year)
- 190,000 litres of water is used to produce one laptop
- An iPhone contains 22 metal elements that need to be mined.
- Mining is responsible for 7% of deforestation in developing countries

To learn more follow the Kainos Green Software series.

Helping customers achieve greener digital



Who did we delight?	Solutions	Outcomes
IOM UN MIGRATION	FINOPS + GREENOPS	**$300k** annual savings in VM costs with estimated **92% reduction** in carbon emissions following data-centre closure
UK Central Govt Dept.	FINOPS + GREENOPS	Identified potential **20-50% carbon emissions** reduction and **15% cost reduction** for one service
New Day	FINOPS	**60%** potential reduction in costs identified

Kainos has 100+ certified Green Software practitioners and is on track to meet its SBTi Net Zero goal in 2025. We have signed the Climate Pledge and made a Green Software Commitment to all our customers.

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