

# Cross-Government Sustainable ICT In Practice

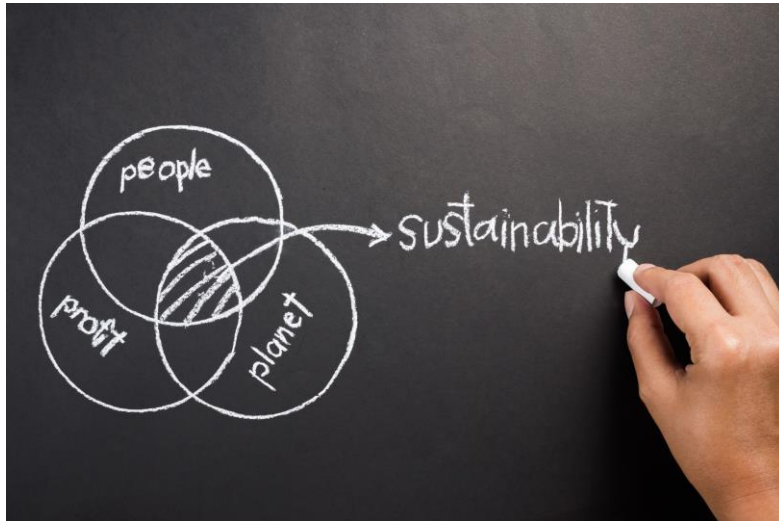
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# What is Sustainable ICT?

*“We need to make sure that ICT/digital/data are part of the solution, and not part of the problem, in meeting our sustainable commitments and goals”*



## How?

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We baseline our digital carbon footprint and impact of our services (including social and economic)

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We design and procure for sustainability and hold our supply chain to account ?

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We use the sustainability lens as we migrate from legacy and inform digital transformation, lowering energy use and improving user experience

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We ensure we capture, measure and report our successes and challenges working in partnership with our suppliers.

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# Two Sides to the Challenge



## Sustainable ICT

Lowering carbon, cost and negative social  
Impacts from our ICT

Removing waste from the system (i.e replication,  
under utilisation, reuse of ICT)

Improving efficiency



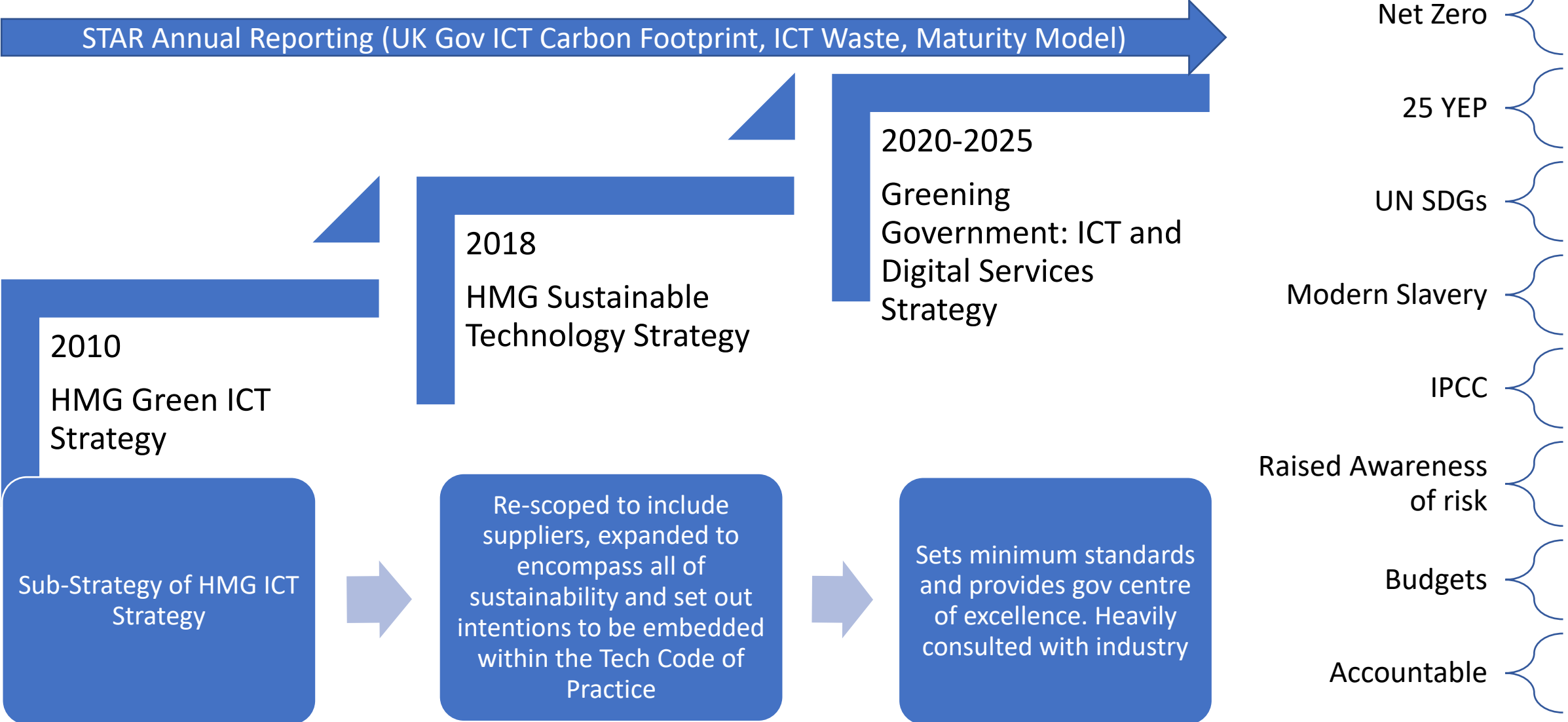
## ICT for Sustainability

Using technology to meet  
government/departmental sustainability goals  
and commitments.

Promoting and utilising innovation

Maximising value of data

# This is not new - Strategies, Policies and Drivers



# Sustainable ICT Policy and Guidance Already Exists

## GGC ICT and Digital Services Strategy 2020-2025

- Defined minimum procurement/design standards
- Commits to the publication of guides, tools and support
- Delivery of government annual reporting

## Technology Code of Practice – Point 12 – Sustainability

- Adherence to the sustainability principle is now mandated for spend controls and the STAR are on hand as the internal consultancy to assist all government departments projects and programmes and have published the supporting guidance.

## Greening Government Commitments 2021-2025

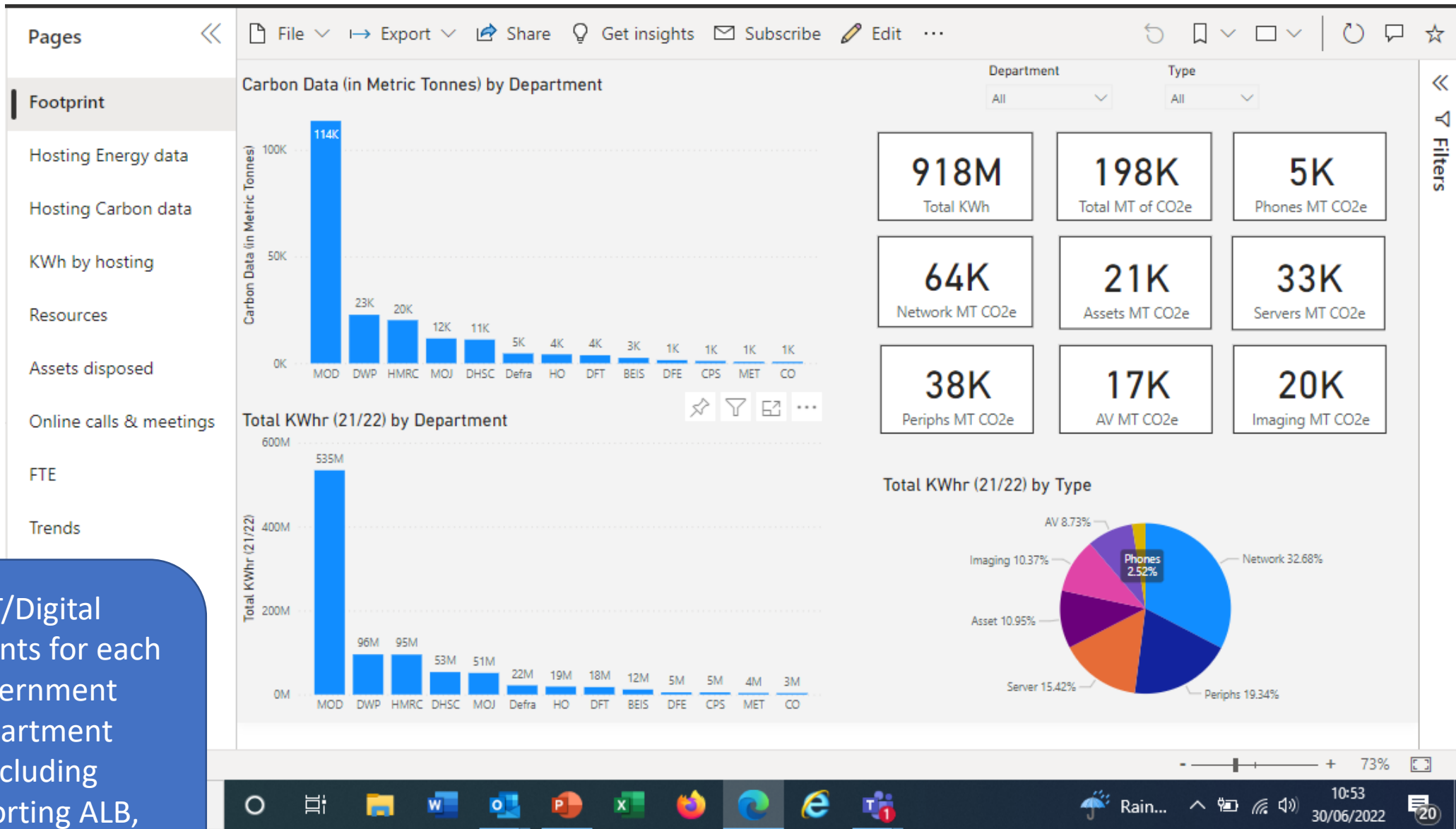
- UK Government sustainability **mandated reporting**
- ICT/Digital reporting is now mandated for ALL government departments, agencies and bodies through engagement in the STAR reporting and activities.
- A step change in culture and visibility



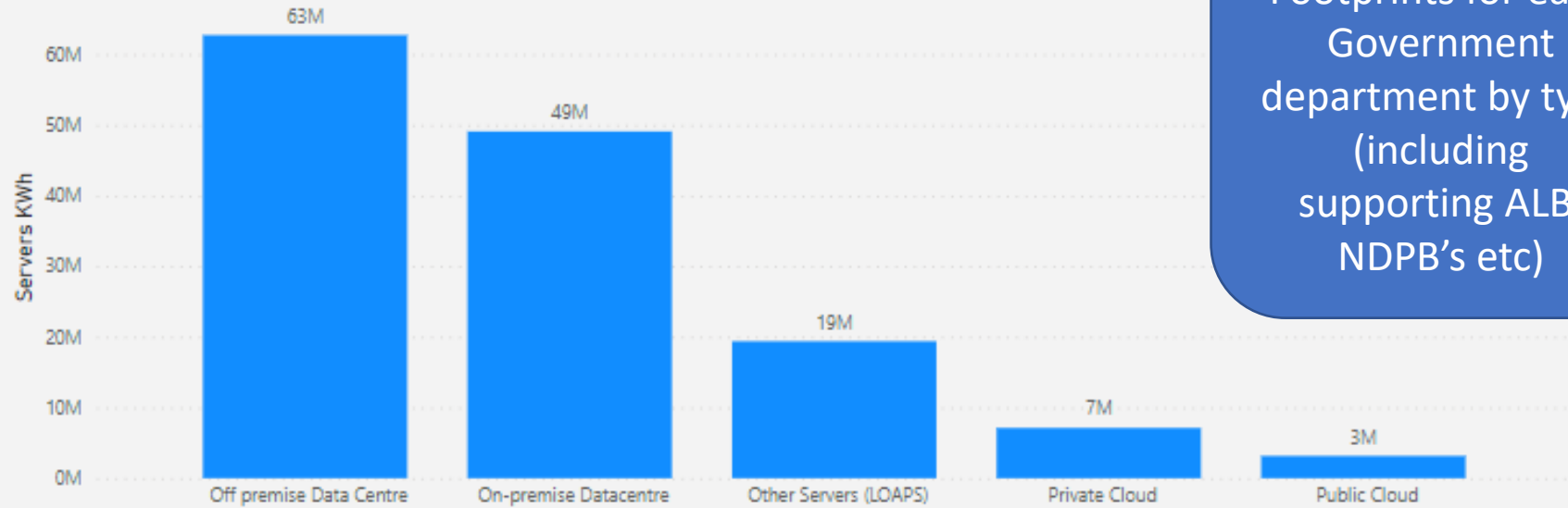
# Government Sustainability Technology Insight Dashboards

Using the STAR Data we have created bespoke departmental digital carbon footprint dashboards for every department.

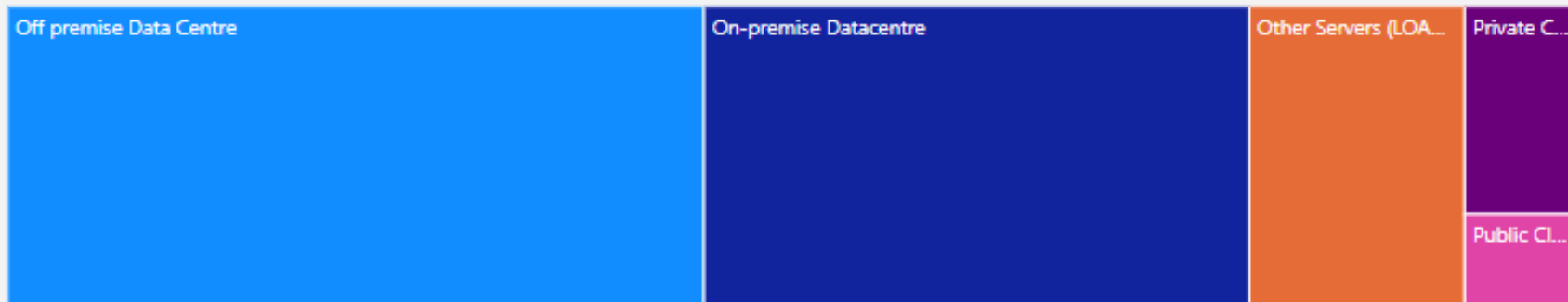
ICT/Digital Footprints for each Government department (including supporting ALB, NDPB's etc)



## Energy consumption by hosting



Specific Hosting  
Footprints for each  
Government  
department by type  
(including  
supporting ALB,  
NDPB's etc)

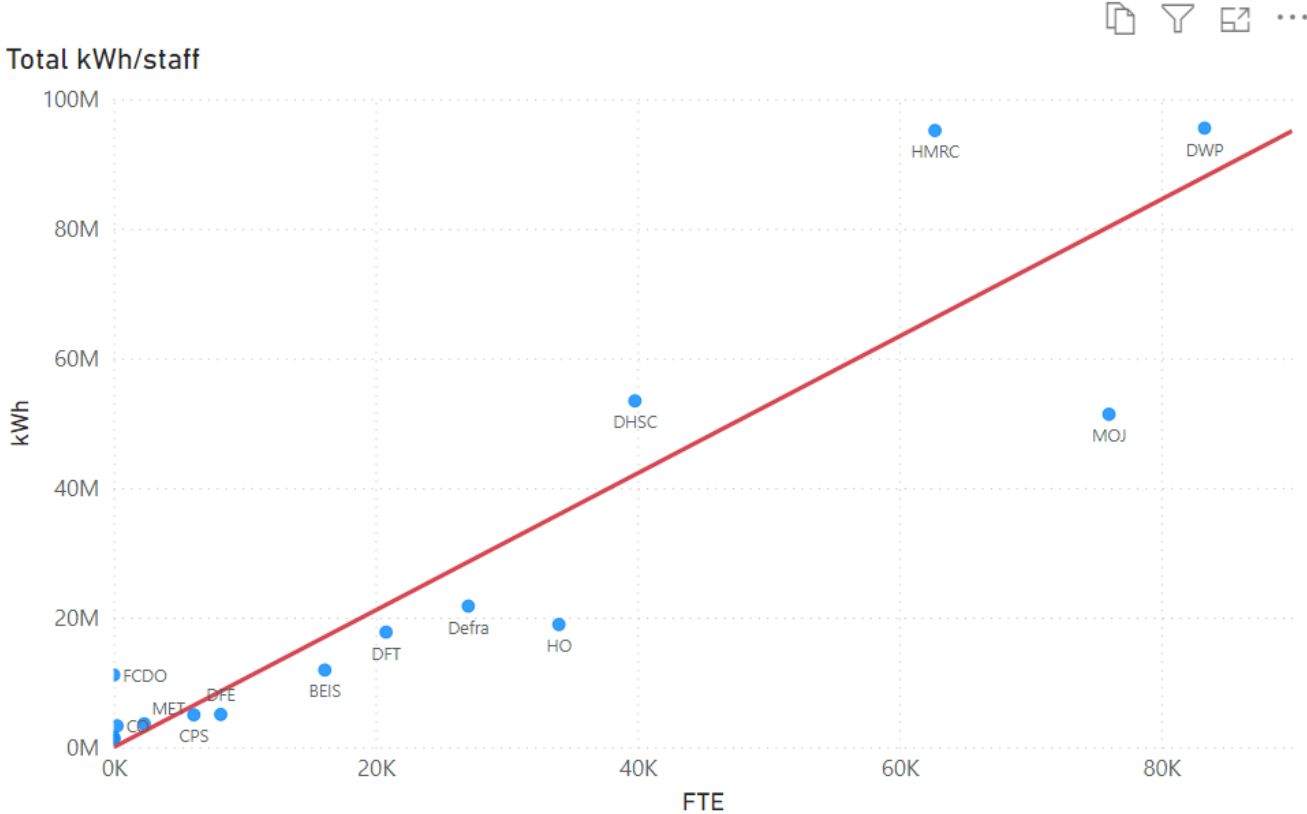






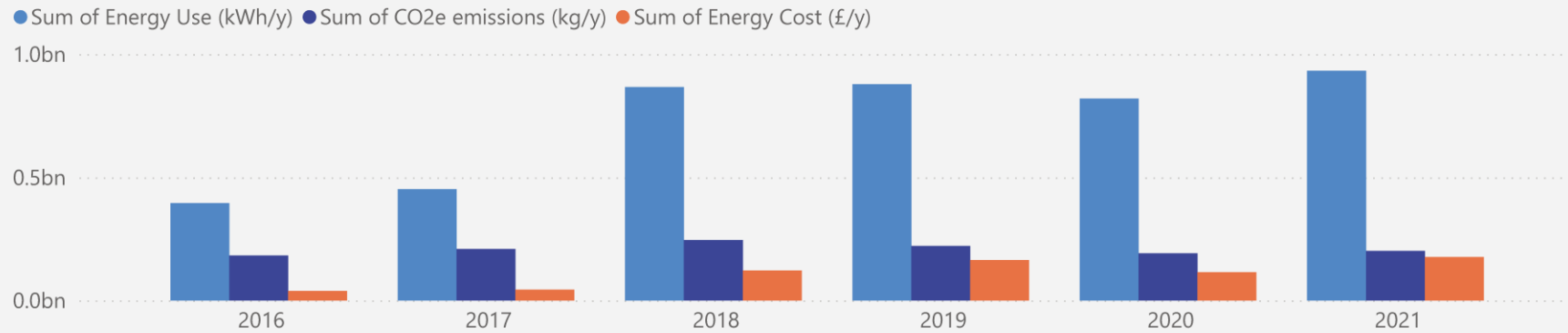
# Standard ratio

Department	FTE	kWh
BEIS	16,120	11,916,544
CO	260	3,300,741
CPS	6,118	5,002,169
DCMS	0	1,471,260
Defra	27,077	21,776,332
DFE	8,169	5,059,595
DFT	20,798	17,763,130
DHSC	39,799	53,445,724
DLUHC	0	1,119,356
DWP	83,298	95,538,973
FCDO	0	11,149,438
HMRC	62,710	95,163,136
HMT	0	1,421,945
HO	33,997	18,939,376
MET	2,327	3,611,959
MOD	220,564	534,715,042
MOJ	76,000	51,382,950
<b>Total</b>	<b>597,237</b>	<b>932,777,670</b>

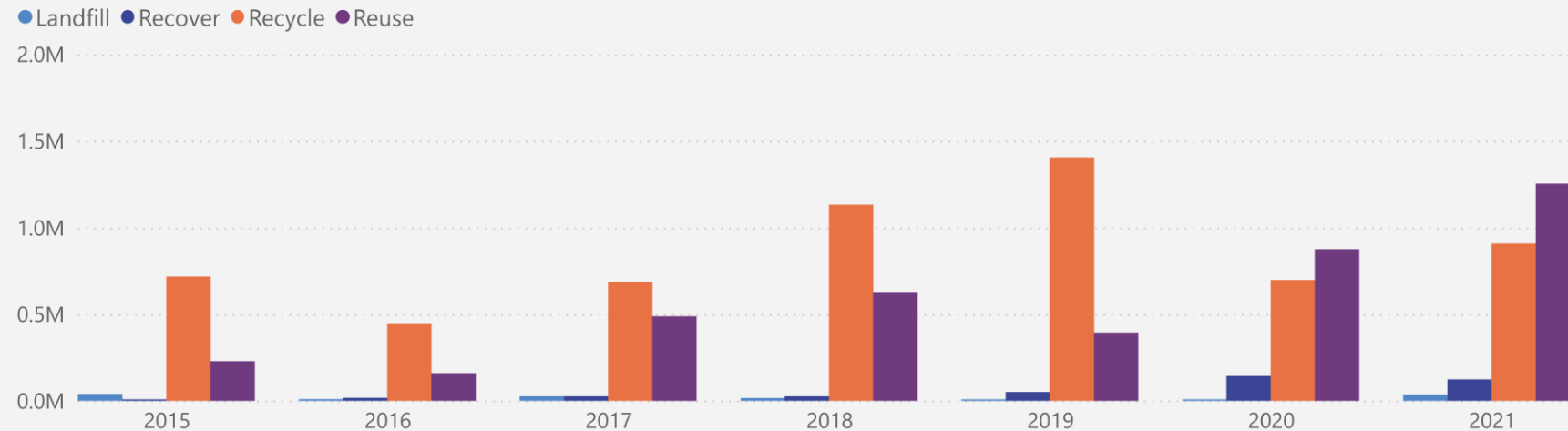


# Trends

Sum of Energy Use (kWh/y), Sum of CO2e emissions (kg/y) and Sum of Energy Cost (£/y) by Year



Landfill, Recover, Recycle and Reuse (kg) by Year



# Utilising STAR Data and Methods with QBR's and Spend Controls

NET ZERO 2030/40/50 and other Government Sustainability Commitments

Cross-Government Digital and Data Strategy



Departmental, Agency and Body and Government Baseline Data

Informs

New Digital and Data Projects and Programmes

- Legacy Migration
- Digital Transformation
- Movement to the Cloud
- etc

TCoP Service Assessment Spending Reviews?

Improves

QBR Reporting



Government Annual Reporting for GGC's, ARA and OECD, Environmental Audit Committee, NAO etc.

# Summary

- **Sustainable ICT is already being delivered across Government through the STAR. The inclusion within the TCoP and the Spend Controls Process and the new Digital and Data Roadmap further strengthens the cause and ensures consistency.**
- Visibility of CDIO and CTO's Sustainability performance (from the STAR data) is increasing focus and action. Especially as Departments are looking to CDIO's to deliver departmental sustainable outcomes through Tech.
- **Every Dept (acting on behalf of their ALB's, NDPB's) has an empowered Sustainable ICT rep on the STAR. Increasingly these are Hd Digital Sustainability for XXX**
- Digital transformation provides a golden opportunity to improve sustainability performance but is hindered by lack of transparency from suppliers.
- **CDDO/GDS are enforcing, through Spend Controls, the sustainability requirement as a "must have" to ensure that digital, data and technology are part of the solution and not part of the problem.**





Questions?