

Medicines Net Zero

Great North Pharmacy Research Collaborative Conference 2022
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Delivery of net zero now embedded into legislation:

- Requirements for **all NHS Trusts, Foundation trusts and Integrated Care Boards** to meet net zero and tackle air pollution
- **Net Zero report and Supplier Roadmap now statutory guidance**

9	NHS England: duties in relation to climate change etc After section 13NB of the National Health Service Act 2006 (inserted by section 8 of this Act) insert—
13NC	Duties as to climate change etc (1) NHS England must, in the exercise of its functions, have regard to the need to— (a) contribute towards compliance with— (i) section 1 of the Climate Change Act 2008 (UK net zero emissions target), and (ii) section 5 of the Environment Act 2021 (environmental targets), and (b) adapt to any current or predicted impacts of climate change identified in the most recent report under section 56 of the Climate Change Act 2008. (2) In discharging the duty under this section, NHS England must have regard to guidance published by it under section 13ND.
13ND	Guidance about discharge of duty under section 13NC etc NHS England may publish guidance about the discharge of— (a) the duty imposed on it by section 13NC; (b) the duty imposed on integrated care boards by section 14Z44; (c) the duty imposed on NHS trusts by section 26B; (d) the duty imposed on NHS foundation trusts by section 63B."

100% Green Plans Announcement



Every NHS Trust has a green plan

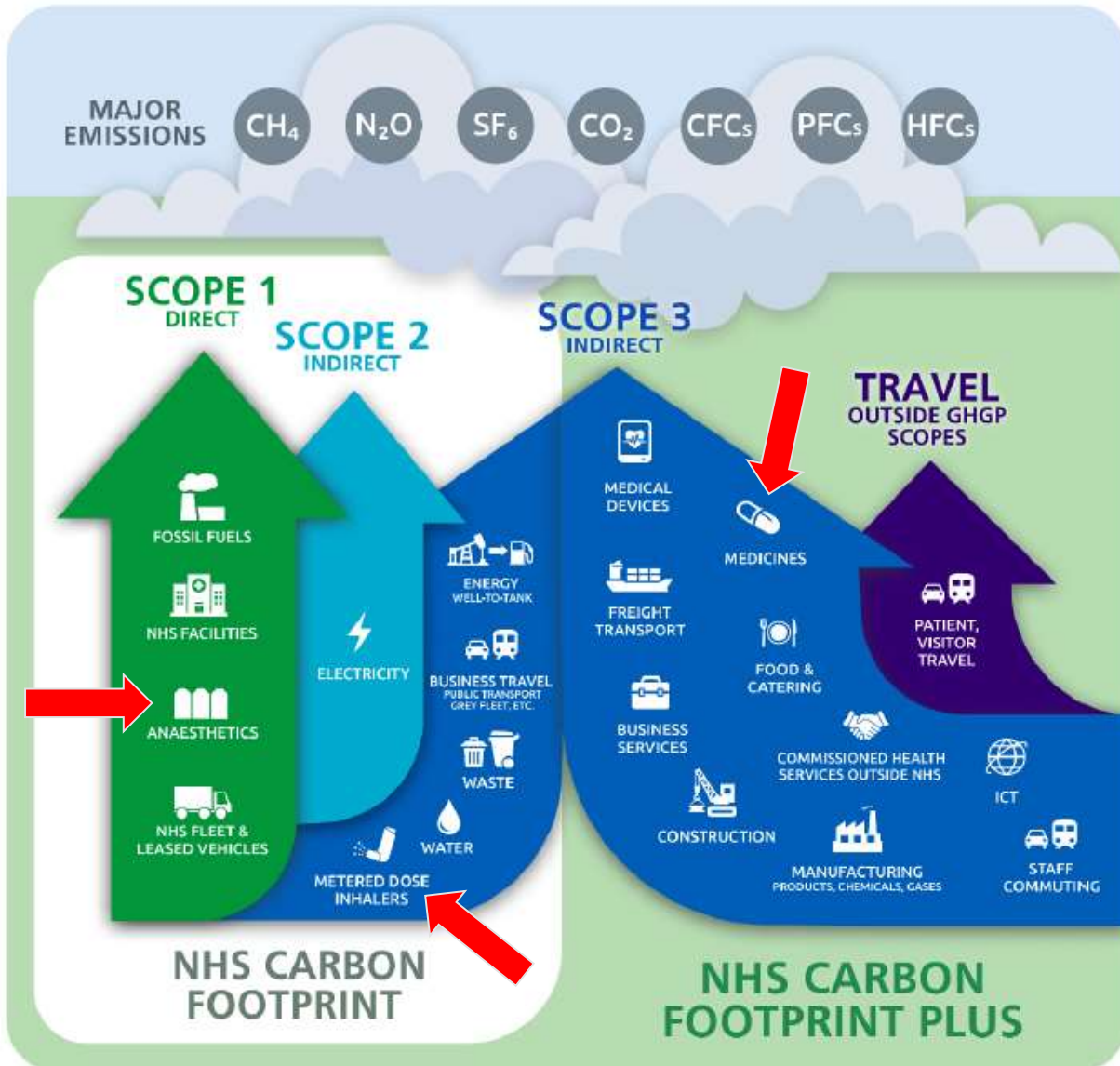
Together, these plans will reduce carbon emissions equivalent to taking half a million cars off the road.

#GreenerNHS

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The NHS Net Zero targets



NHS Carbon Footprint (emissions we control directly):

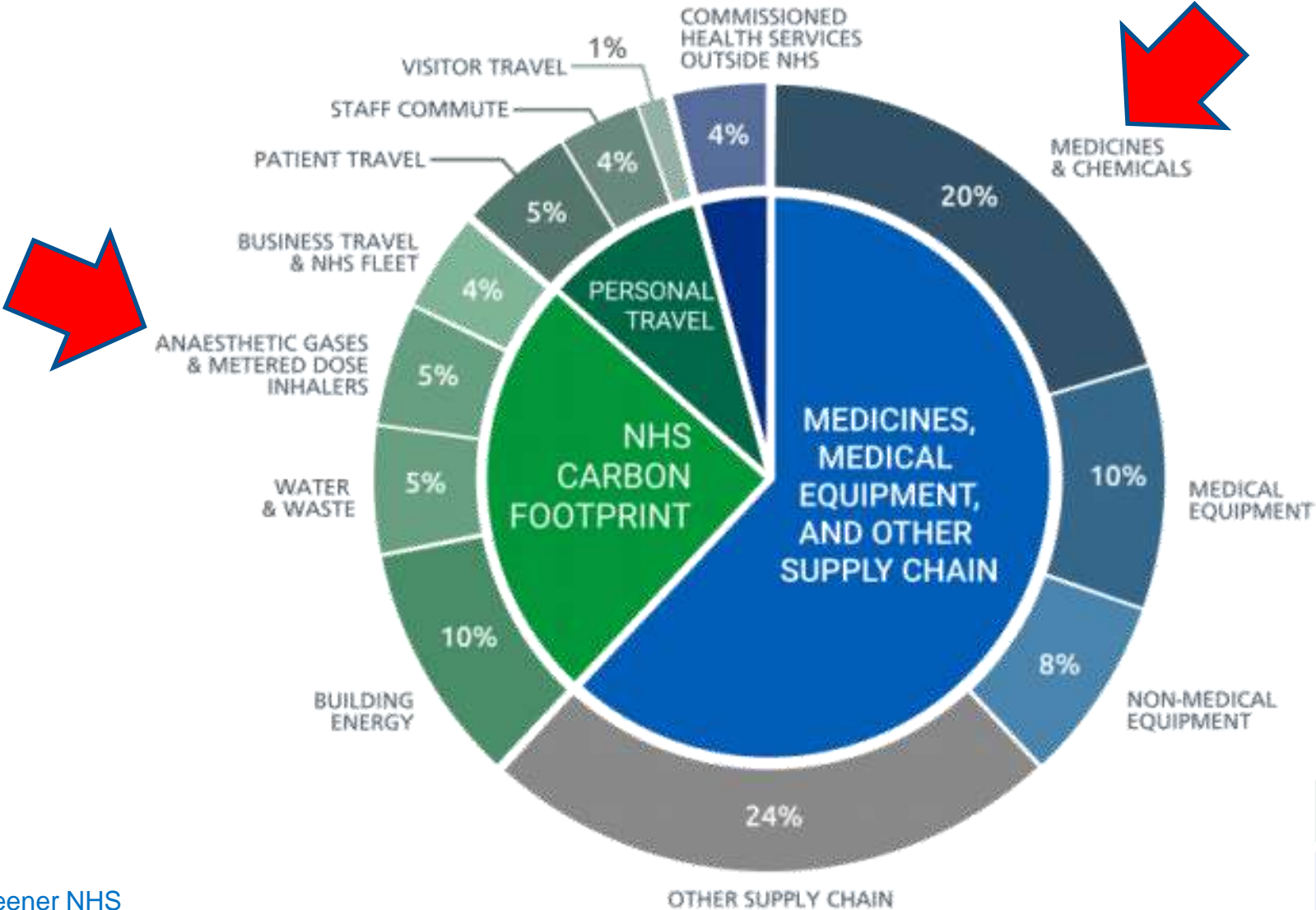
- Net zero carbon by **2040**
- **80% reduction**, compared with a 1990 baseline, by **2028 to 2032**.

NHS Carbon Footprint Plus (all emissions, including those embedded in the supply chain):

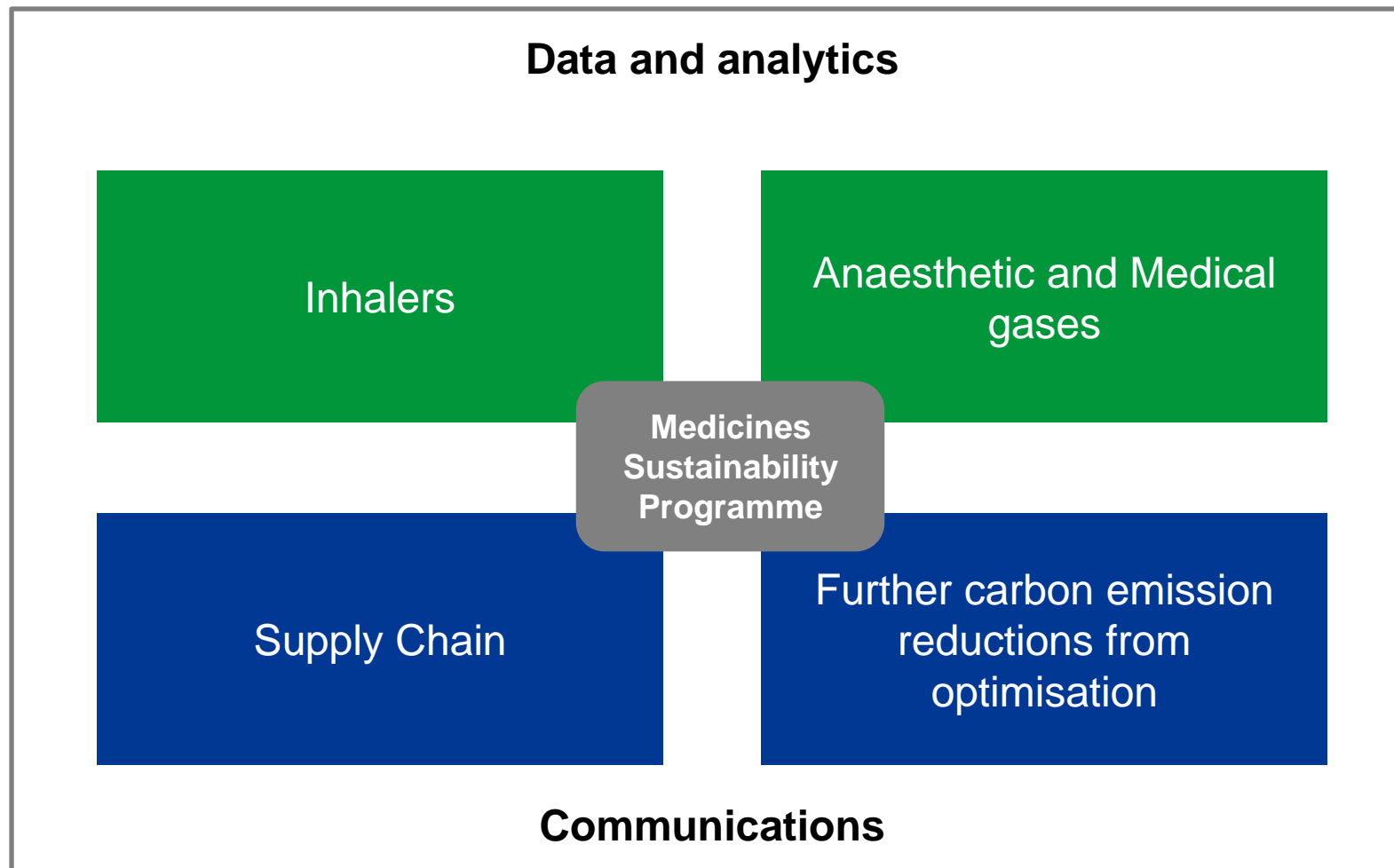
- Net zero carbon by **2045**
- **80% reduction**, compared with a 1990 baseline, by **2036 to 2039**.

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How Medicines contribute



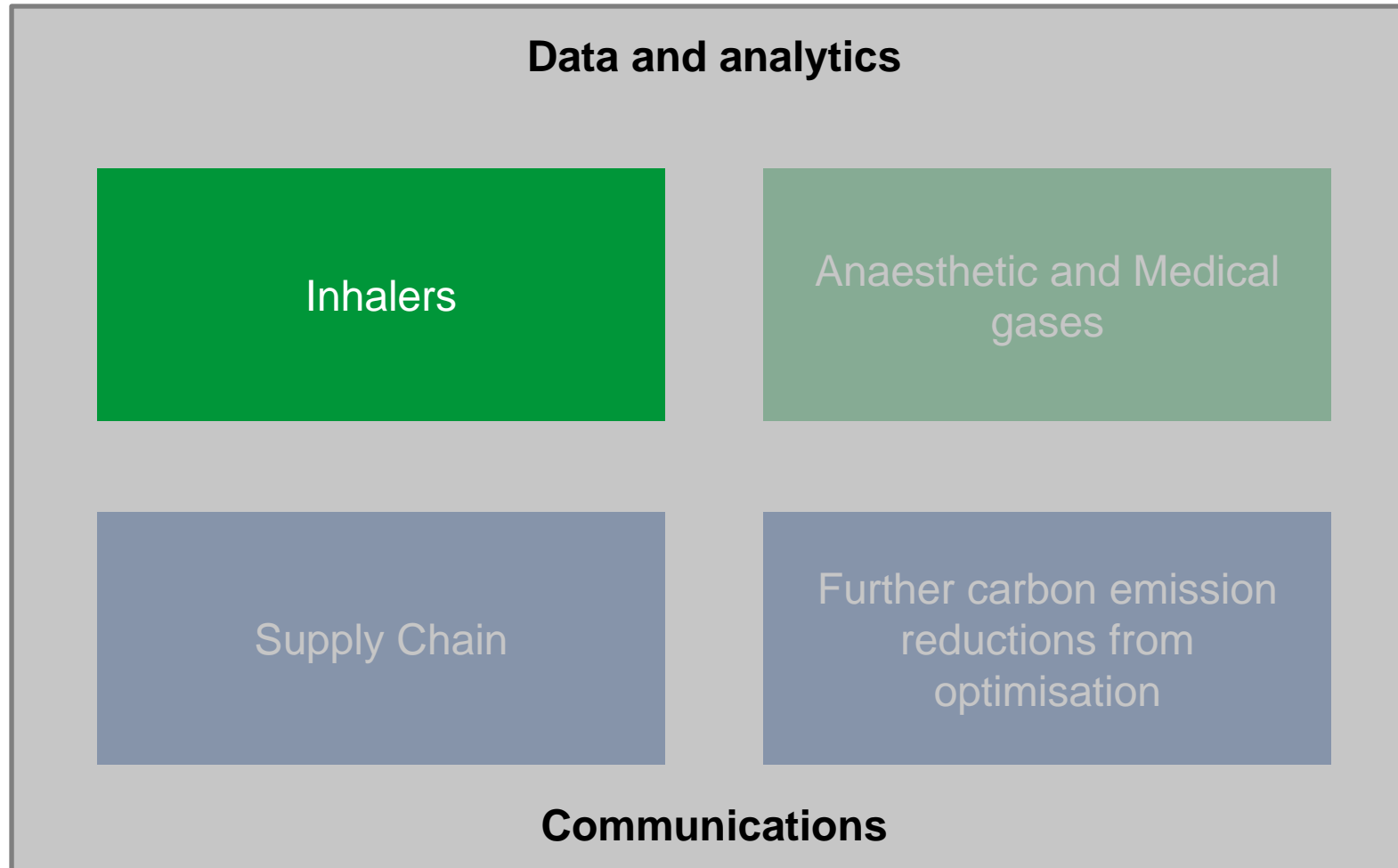
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Direct emissions

Indirect emissions

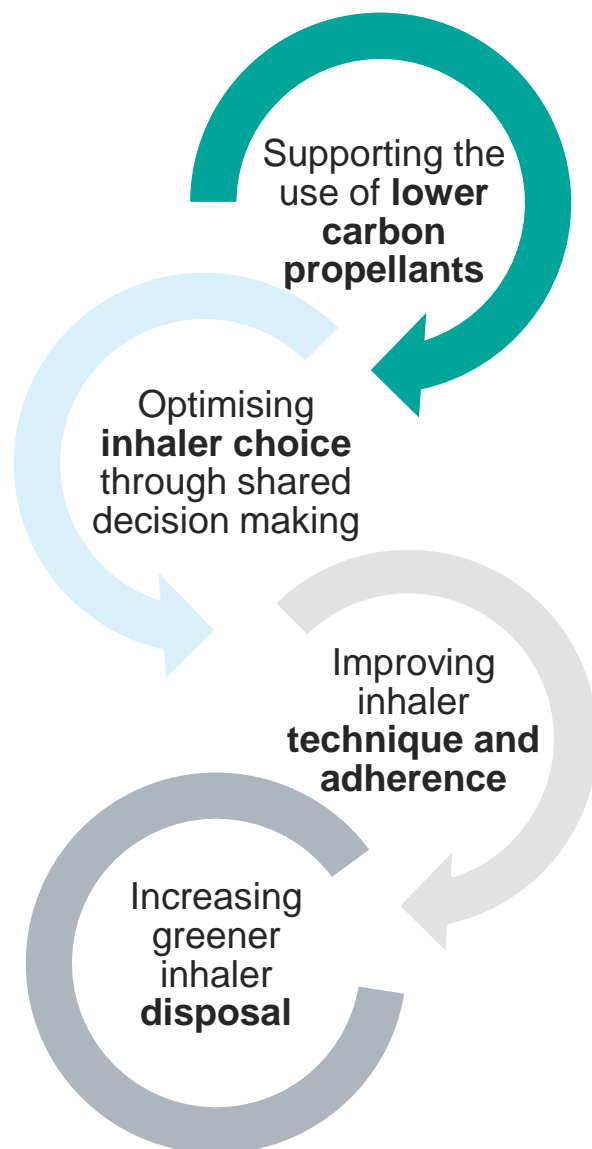
An update on Medicines Sustainability



Direct emissions

Indirect emissions

Optimising inhaler use to improve patient outcome and reduce carbon emissions



Policy developed with the support of the **NHSEI Inhaler Working Group**

includes members of the British Thoracic Society (BTS), the Primary Care Respiratory Society (PCRS), Asthma UK and the British Lung Foundation, the International Pharmaceutical Aerosol Consortium

Key references:

BTS Position Statement: The Environment and Lung Health 2020

PCRS Position Statement: Environmental issues in respiratory disease management

NICE Patient decision aid: Inhalers for asthma

UKIG Inhaler Standards and Competency Document



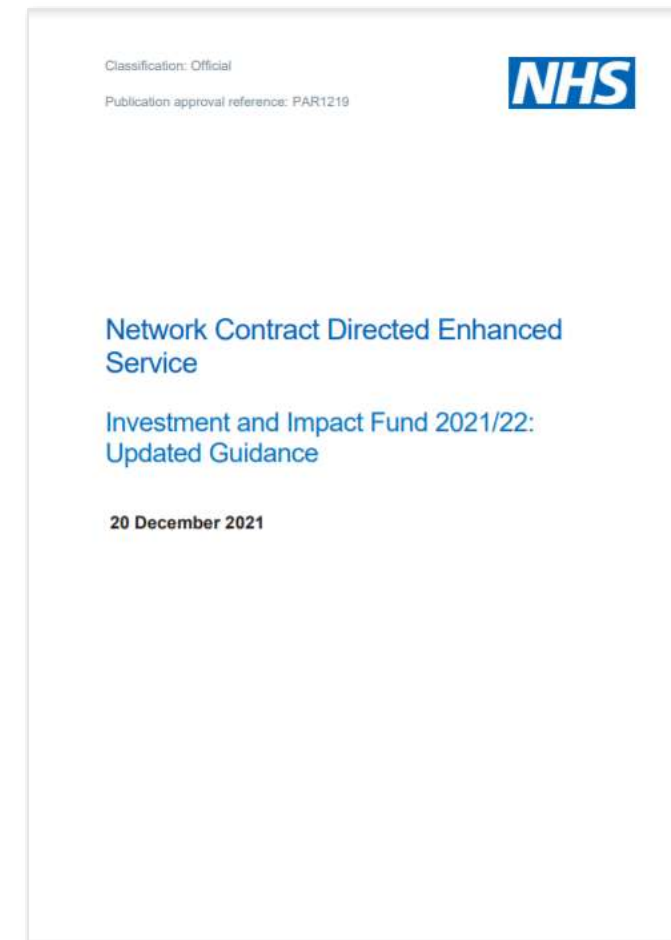
Overview of new incentives (1/2)



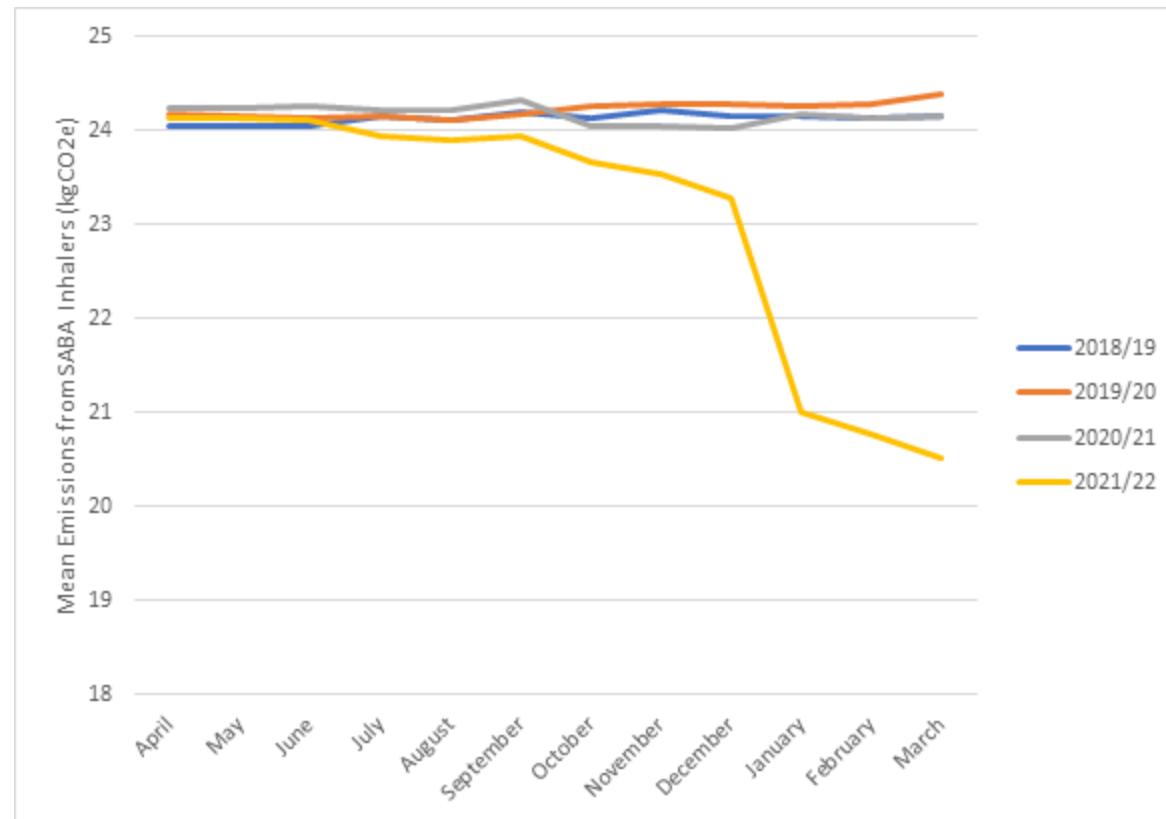
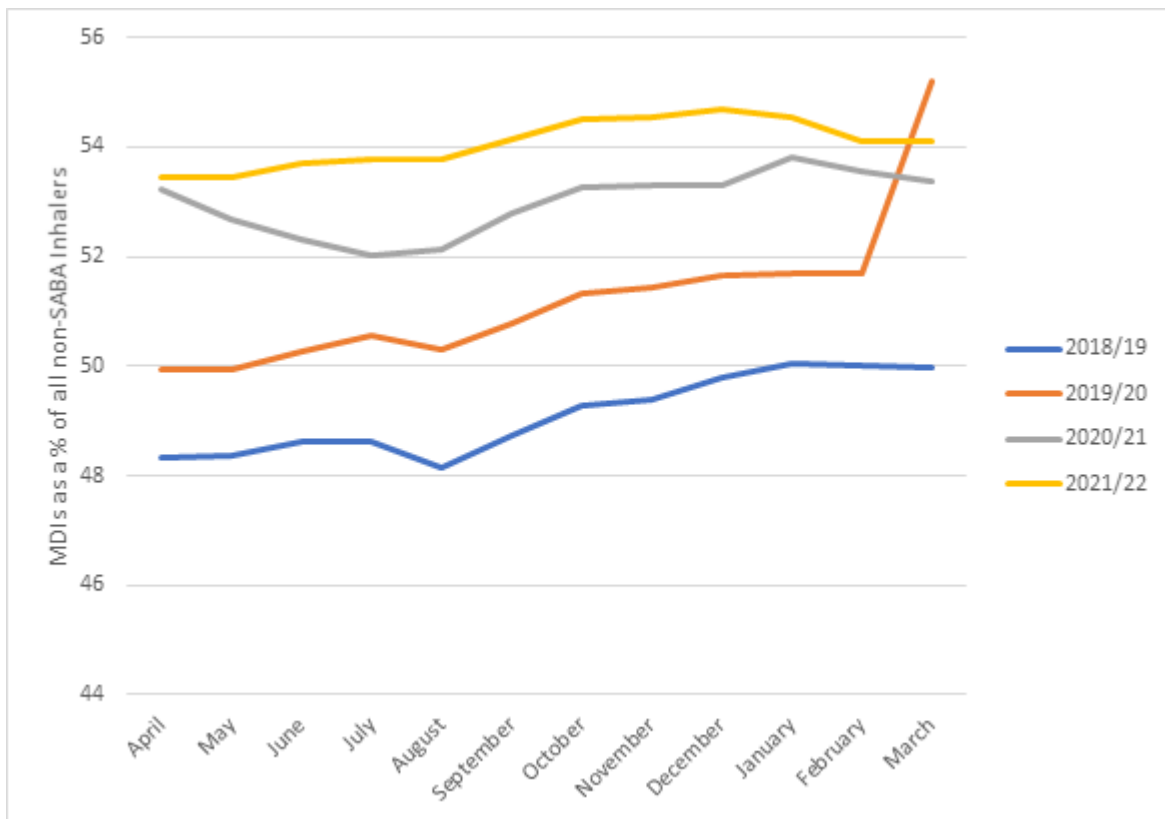
Primary Care Network Investment and Impact Fund 2021/22 and 22/23 (and beyond)

Area of focus	Incentive	Timescale
Reduce carbon emissions from MDIs amongst all inhaler users	<i>ES-01 Metered Dose Inhaler (MDI) prescriptions as a percentage of all non-salbutamol inhaler prescriptions – <u>for patients aged 12 and over</u></i>	Restart April 22
	<i>ES-02 Mean carbon emissions per salbutamol inhaler prescribed (kg CO2e) – all ages</i>	Restart April 22
Support implementation of clinical best practice in prescribing and asthma management, and reduce over-use of SABA	<i>RESP-01 Percentage of patients on the asthma register who were regularly prescribed an inhaled corticosteroid (received three or more inhaled corticosteroid prescriptions) over the previous 12 months</i>	April 22
	<i>RESP-02 Percentage of patients on the asthma register who received six or fewer SABA prescriptions over the previous 12 months</i>	April 22

<https://www.england.nhs.uk/publication/investment-and-impact-fund-2021-22-implementation-guidance/>



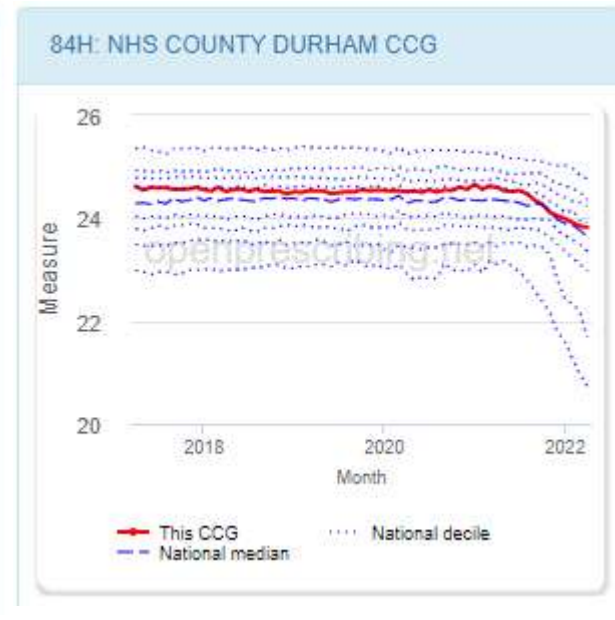
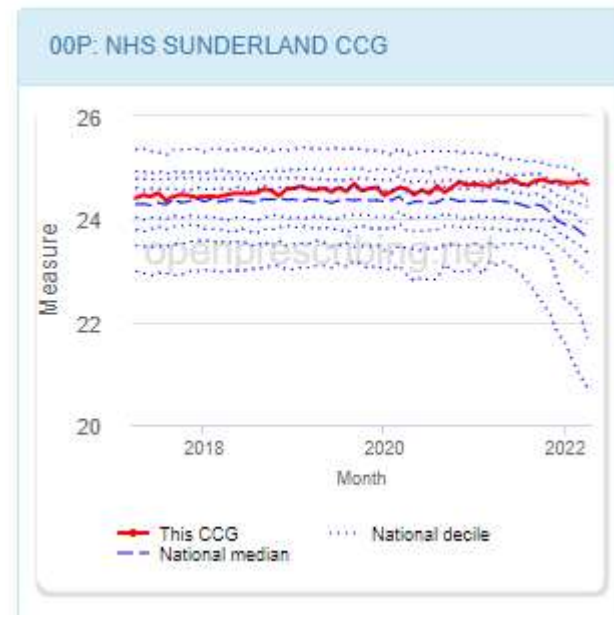
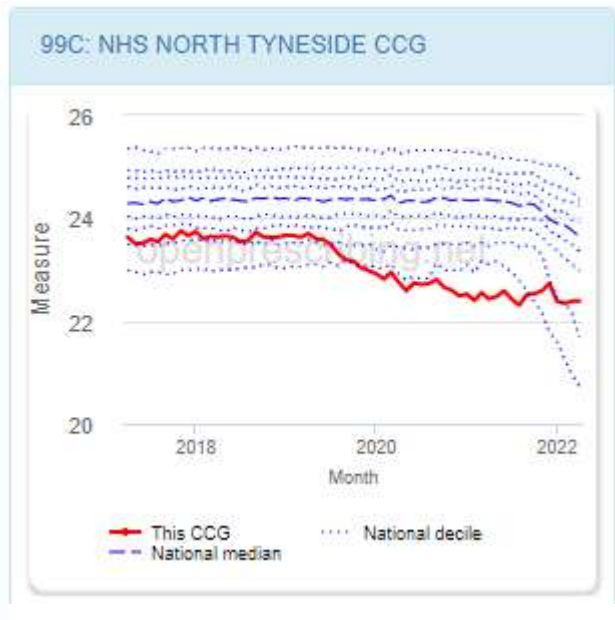
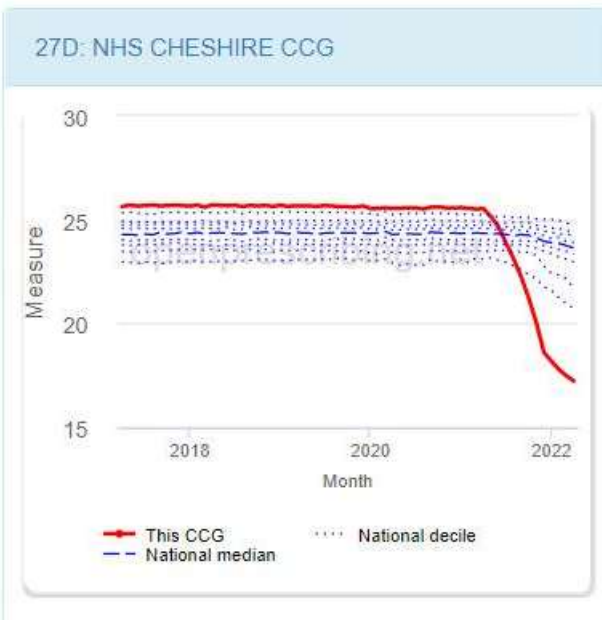
Primary Care Network Investment and Impact ES-01 and ES-02



Environmental impact of inhalers - average carbon footprint per salbutamol inhaler



Openprescribing



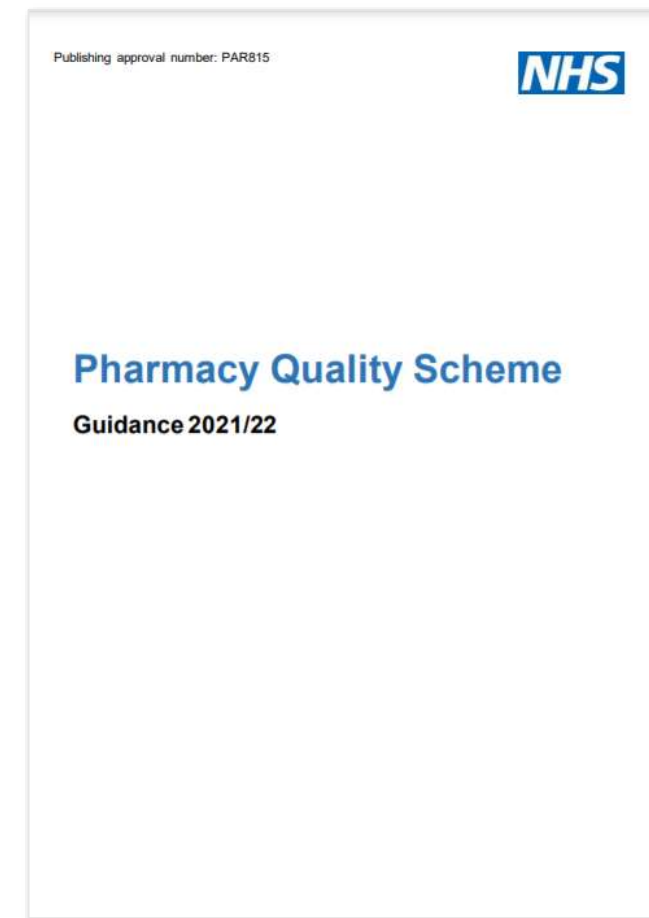
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Overview of new incentives (2/2)



Pharmacy Quality Scheme 2021/22

Area of focus	Incentive	Timescale
Inhaler technique checks and personalised asthma action plans	<i>Inhaler technique checks for patients prescribed a new inhaler with asthma or COPD during the COVID-19 pandemic – includes need to satisfactorily complete CPPE training</i>	1 st September 21 - 31 st march 22
	<i>Personalised asthma action plans and promoting spacer device use in children (5-15) prescribed pressurised metered dose inhalers (pMDIs)</i>	
Return of unwanted and used inhalers	<i>Total number of patient-facing pharmacy staff trained in this area and total number of conversations with patients / carer / representatives on safe and environmentally friendly disposal</i>	



<https://www.england.nhs.uk/publication/pharmacy-quality-scheme-guidance-2021-22/>

These incentives are in addition to the **New Medicines Service**, **Structured Medications Reviews** and **QOF incentives** on regular reviews for people with COPD and asthma.



Supporting resources



Patients are equipped to make a positive choice about initiating treatment with or moving to a **greener inhaler** and know the **importance of adherence / technique** and **inhaler return**.

Healthcare professionals know that **greener options** are available and when they're clinically appropriate, and are equipped to actively **involve patients in the decision**, effectively discuss **adherence and inhaler technique**, and promote **return of inhalers**.

Reasons your asthma medicine might change

Switching to a greener, low carbon inhaler

The NHS is encouraging everyone on a Metered Dose Inhaler (MDI) to switch to a Dry Powder Inhaler (DPI) if they can. DPIs such as Accuhaler, Laxiphaler and Duettohaler are lower carbon inhalers and better for the planet.

The switch is good for environmental reasons. Metered Dose Inhalers use propellants that add to global warming and add to the NHS's carbon footprint. Research has so far shown that switching to a greener, environmentally friendly DPI inhaler works well for most people.

As long as your DPI or asthma medicine shows you how to use your new inhaler, and you can use it well, changing from an MDI to a DPI is not linked to symptoms getting worse or asthma attacks.

Most people find dry powder inhalers easier to use than MDIs because it's easier to get the technique right. Dry powder inhalers are breath-actuated though, which means you need to be able to breathe in strongly to inhale the powder. Not everyone can do this well.

If you're asked to switch to a more environmentally friendly inhaler it's worth giving the new low-carbon dry powder inhaler a try. Your medicine will continue to work in the same way. But if it really doesn't suit you, you can ask to switch back.

ASTHMA + LUNG UK BLOG

Inhalers and the environment

Advice + Support
11 May | Written by Dr Andy Whitburn

Did you know that there are four simple actions you can take to manage your long condition well that will help the environment at the same time? In this blog, our in-house GP Dr Andy takes us through these top tips.

[Read on now](#)

[Inhalers and the environment — Asthma + Lung UK Blog \(asthmaandlung.org.uk\)](https://asthmaandlung.org.uk).

Take it back Return your inhaler to any local pharmacy when it is no longer usable or needed, to help the environment

Return your inhaler to any local pharmacy when it is no longer usable or needed, to help the environment

Partners: NHS Pharmacy, IPAE, Asthma UK, British Lung Foundation, GSK, AstraZeneca, Boehringer Ingelheim, Hivers, Teva

How to Reduce the Carbon Footprint of Inhaler Prescribing

A Guide for Healthcare Professionals in the UK

GREENER PRACTICE

Partners: NHS Pharmacy, IPAE, Asthma UK, British Lung Foundation, GSK, AstraZeneca, Boehringer Ingelheim, Hivers, Teva

PrescQIPP resources

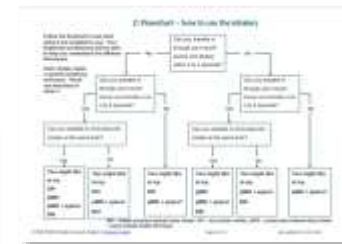
October 2021

Inhaler carbon footprint

By NHS Pharmacy, IPAE, Asthma UK, British Lung Foundation, GSK, AstraZeneca, Boehringer Ingelheim, Hivers, Teva



Upcoming QI toolkit



NICE decision aid

PrescQIPP resources

October 2021

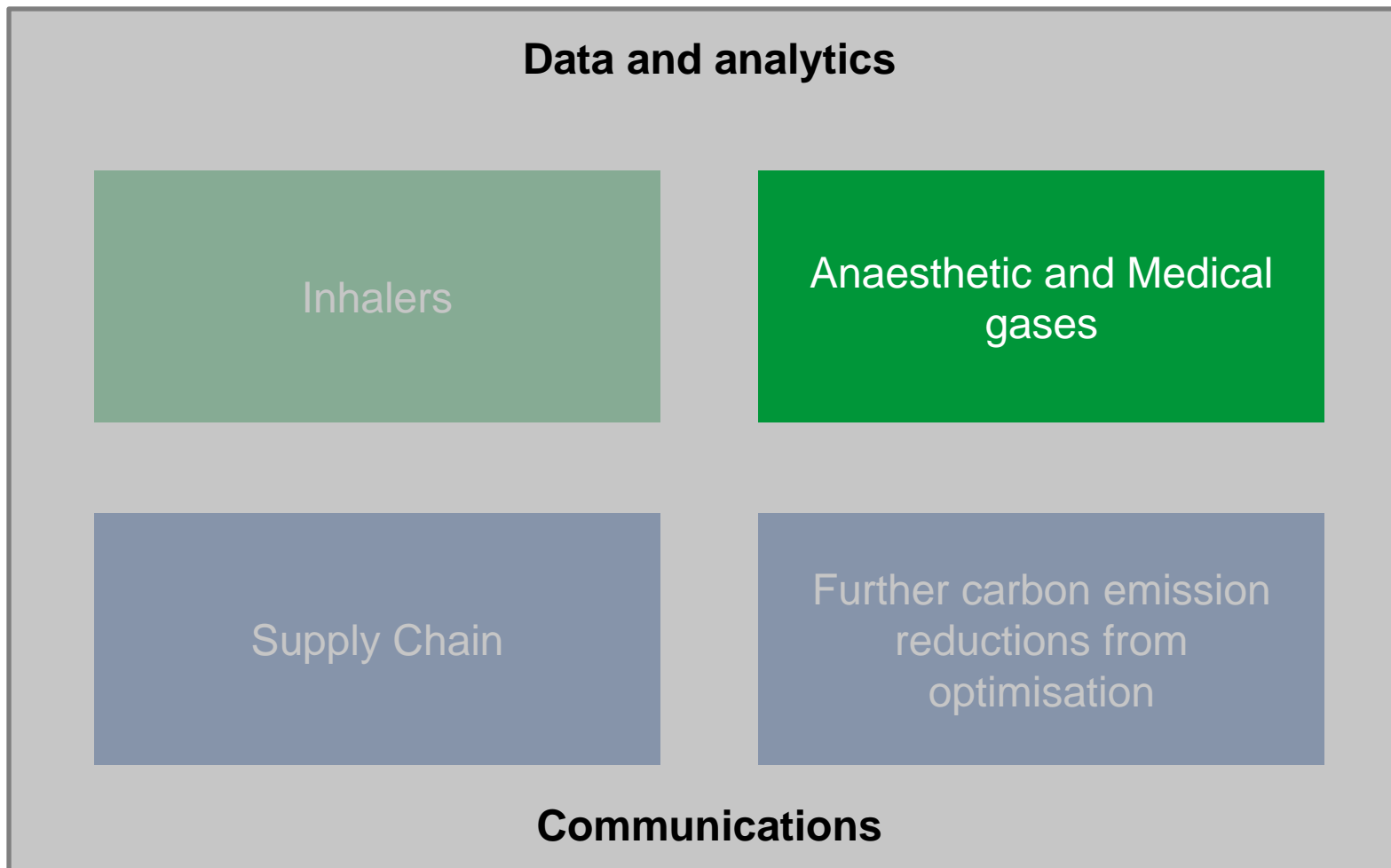
Inhaler carbon footprint

By NHS Pharmacy, IPAE, Asthma UK, British Lung Foundation, GSK, AstraZeneca, Boehringer Ingelheim, Hivers, Teva

FutureNHS

Greener NHS Knowledge Hub

An update on Medicines Sustainability

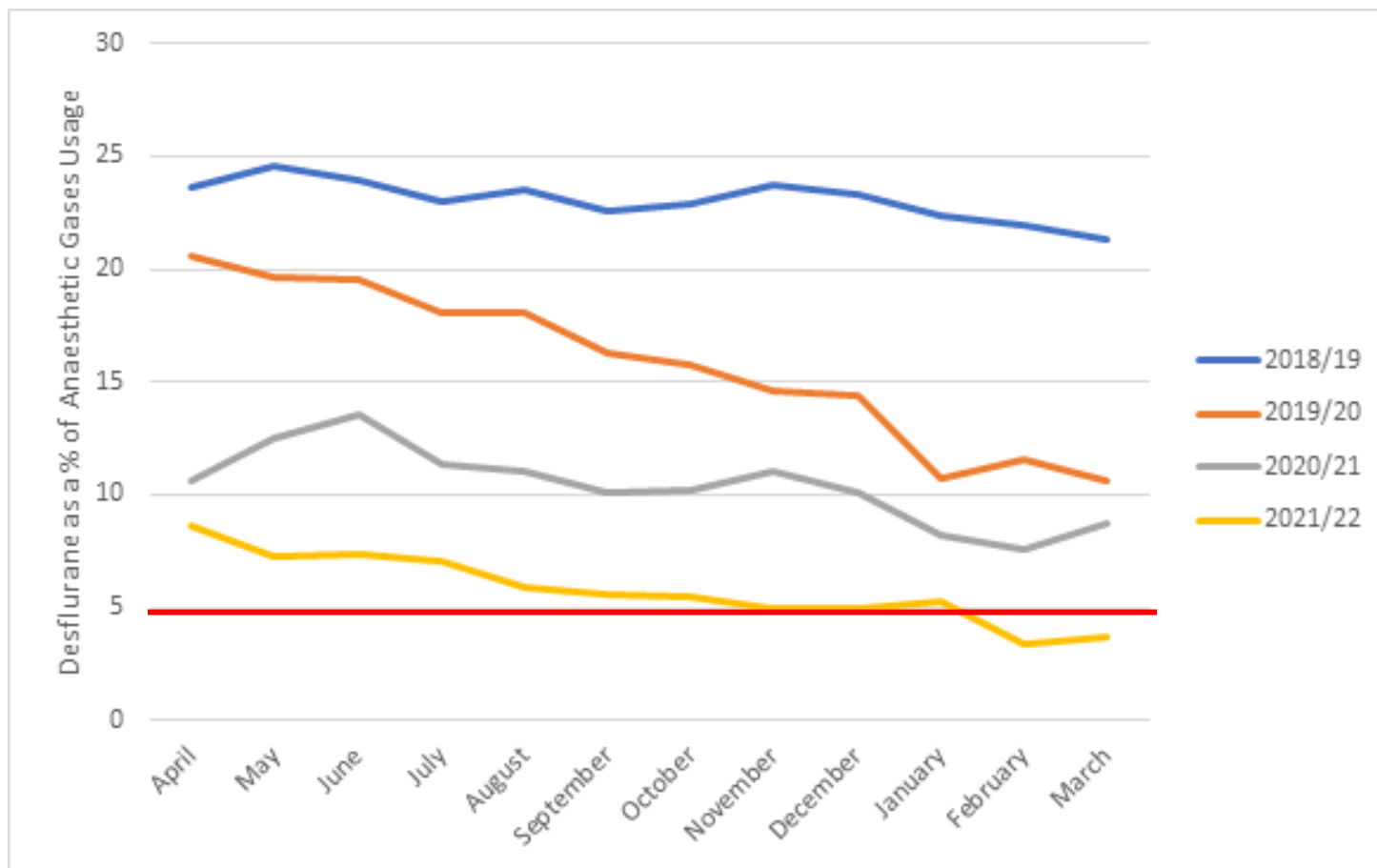


Direct emissions

Indirect emissions

Anaesthetic gases – Desflurane

Desflurane use as a percentage of all halogenated anaesthetic usage (2020/21)



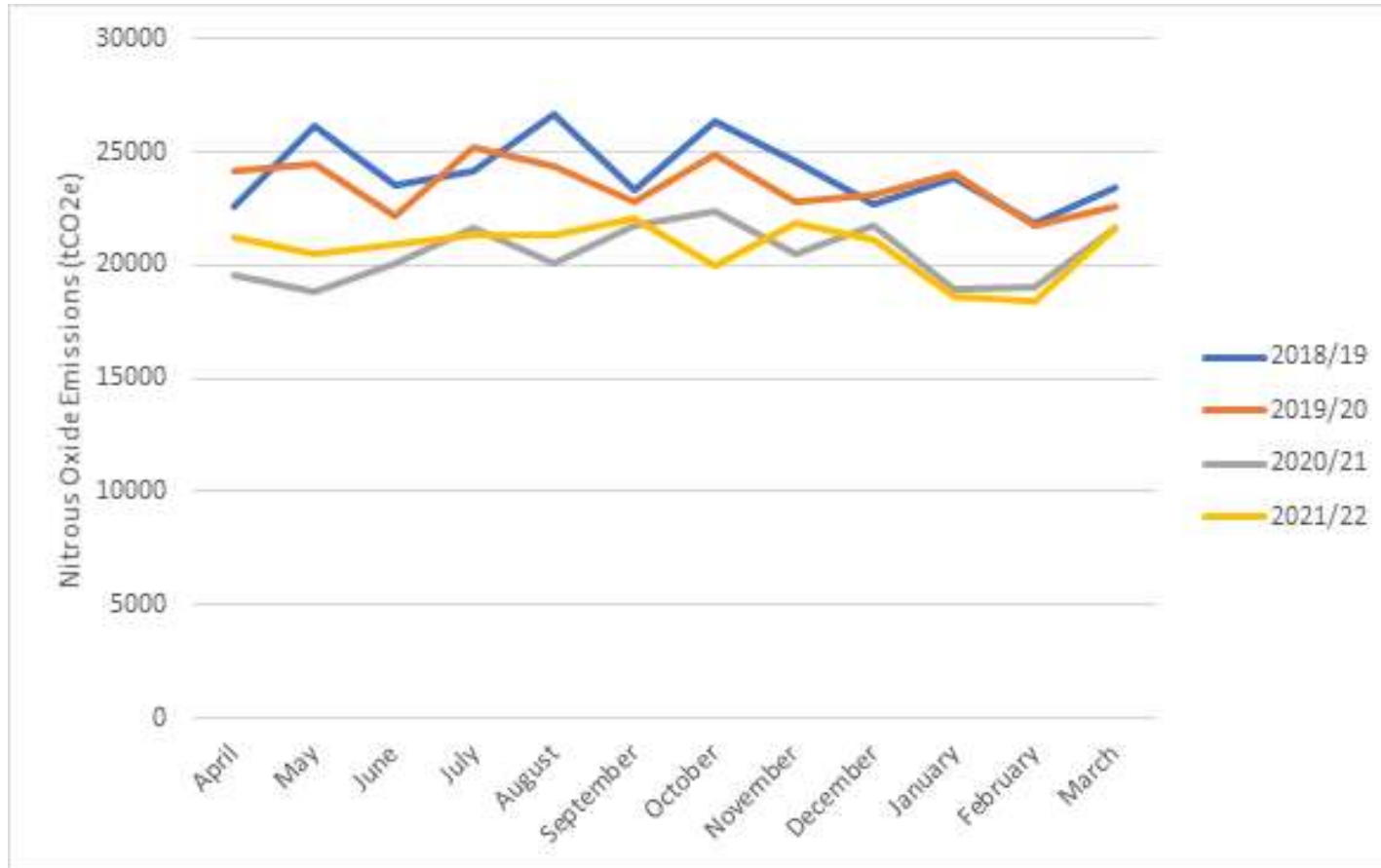
Source: Define®



Nitrous Oxide



Carbon emissions from nitrous oxide (ktCO₂e)



Reducing waste emissions from piped nitrous oxide products:

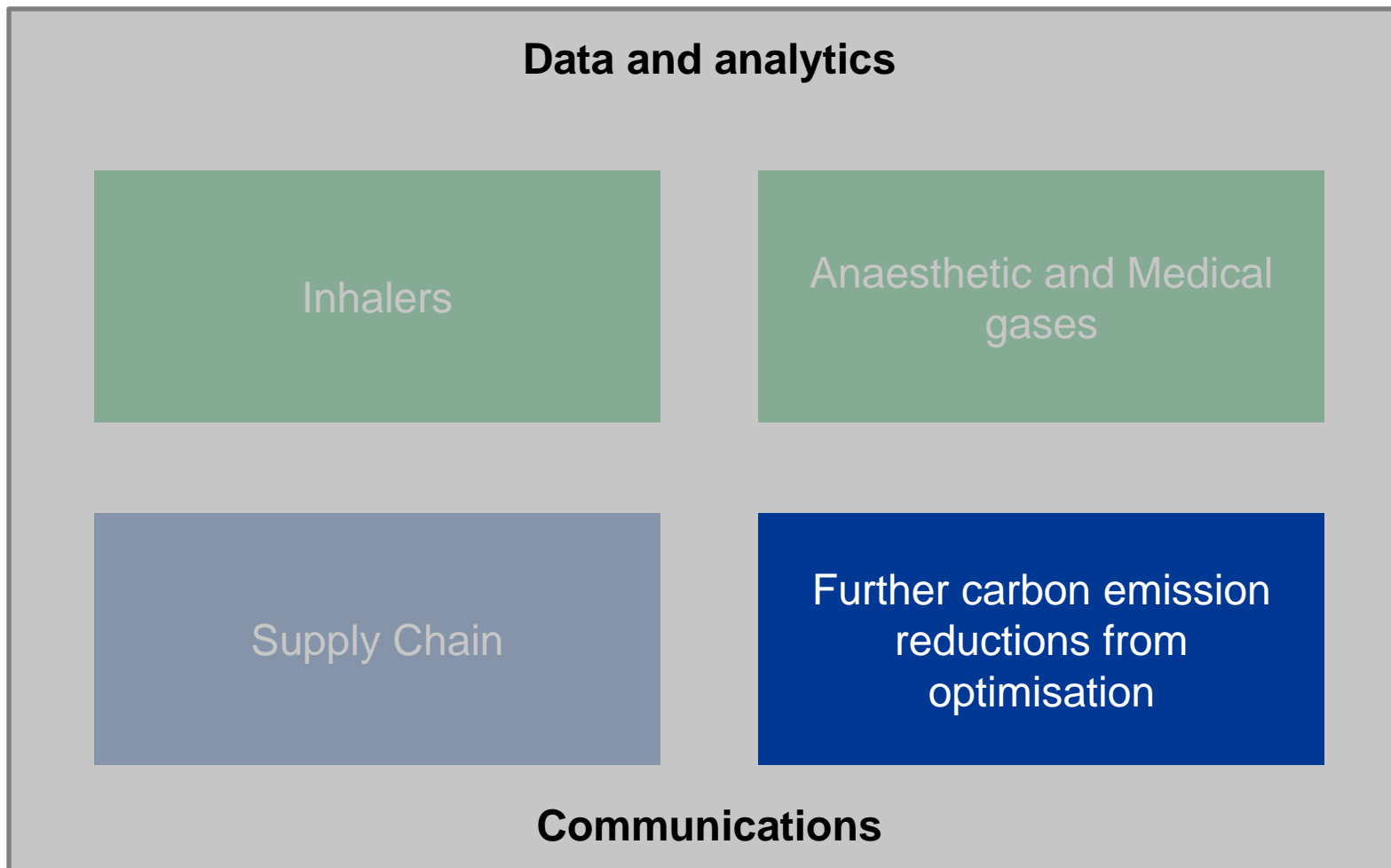
A toolkit for acute NHS hospitals



NHS England and NHS Improvement

Source: Medical gas suppliers have provided data extracts of secondary care nitrous oxide usage

An update on Medicines Sustainability



Direct emissions

Indirect emissions

Further carbon emission reduction



Department of Health & Social Care

Good for you, good for us, good for everybody

A plan to reduce overprescribing to make patient care better and safer, support the NHS, and reduce carbon emissions

Published 22 September 2021

Identifying High Greenhouse Gas Intensity Prescription Items for NHS in England

Sustainable Development Unit
Working across the NHS to reduce health and social care carbon

Final Report

February 2014

ERM



NHS

Medicines sustainability focus groups
23rd July and 30th July

Summary of key discussion points

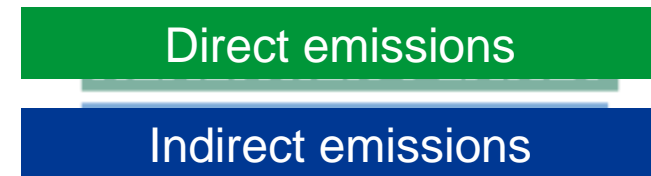
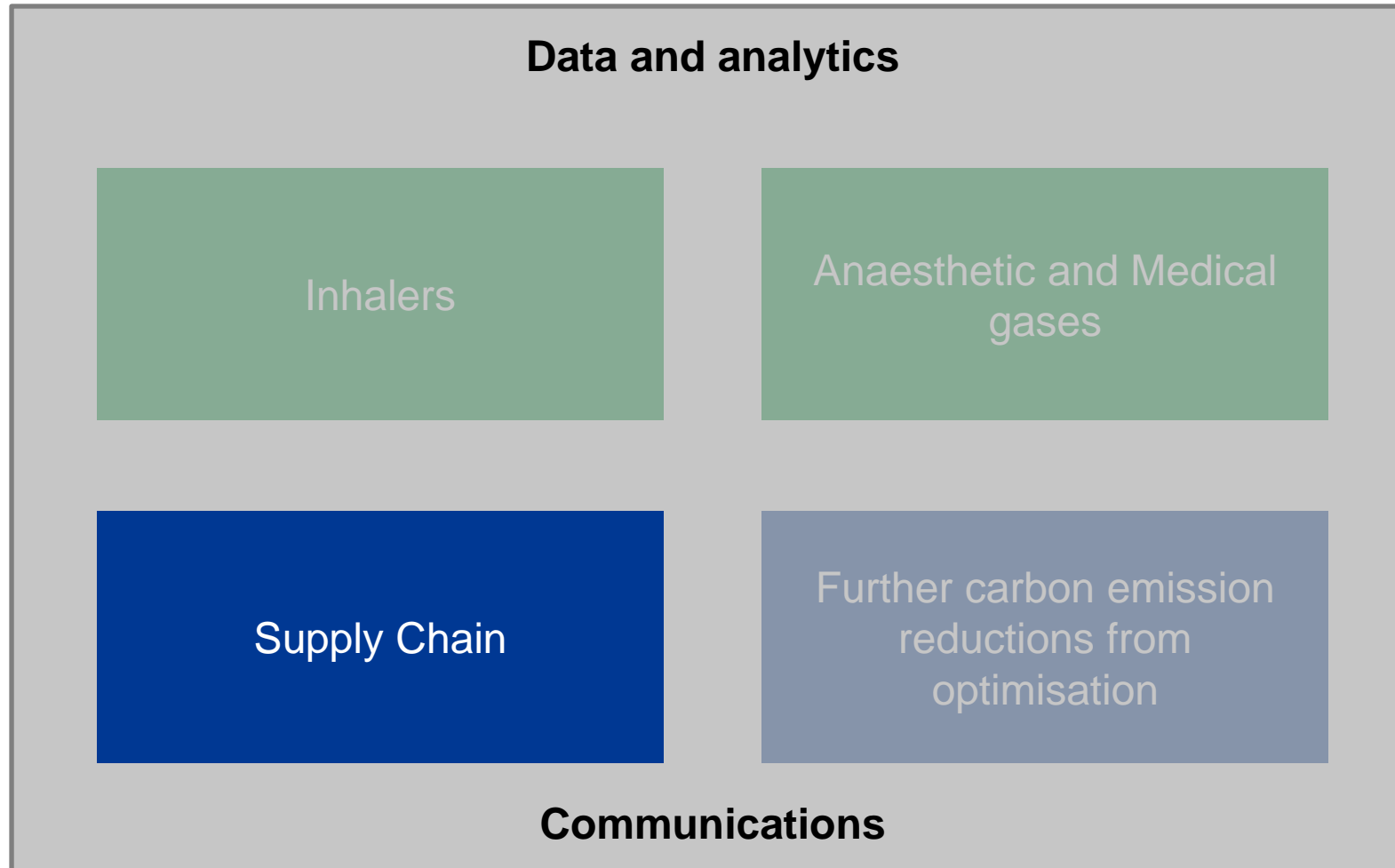
Instructions & Requirements Document

NHS England and NHS Improvement Commercial

Identifying high carbon footprint medicines in the NHS

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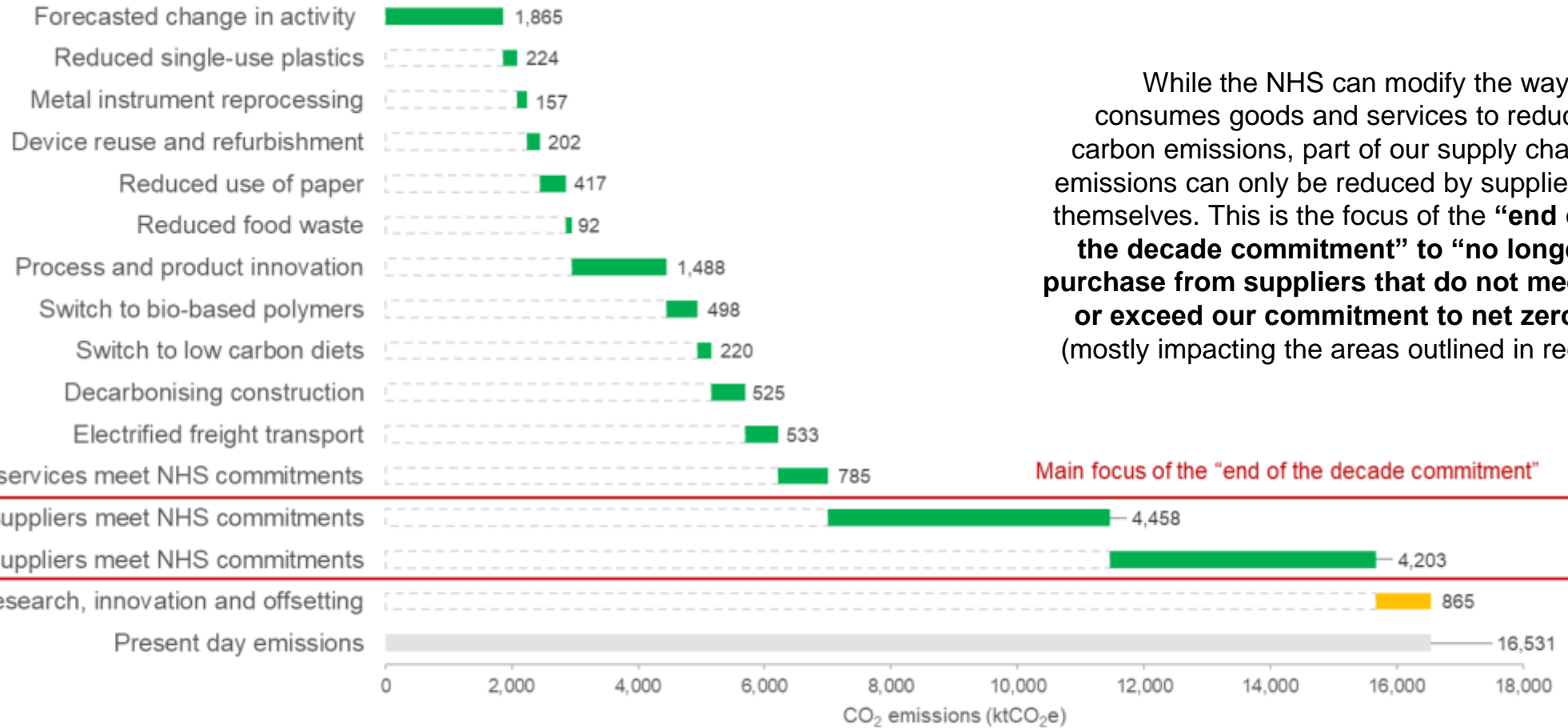
An update on Medicines Sustainability



Suppliers are key to achieving our ambition

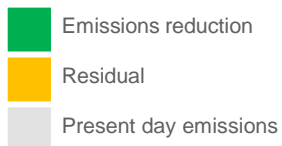


In the Net Zero report, 13 interventions were identified within the Supply Chain workstream. These form the foundation of the sustainable procurement and supply chain workstream programme plan for the next five years.



While the NHS can modify the way it consumes goods and services to reduce carbon emissions, part of our supply chain emissions can only be reduced by suppliers themselves. This is the focus of the **“end of the decade commitment” to “no longer purchase from suppliers that do not meet or exceed our commitment to net zero”** (mostly impacting the areas outlined in red)

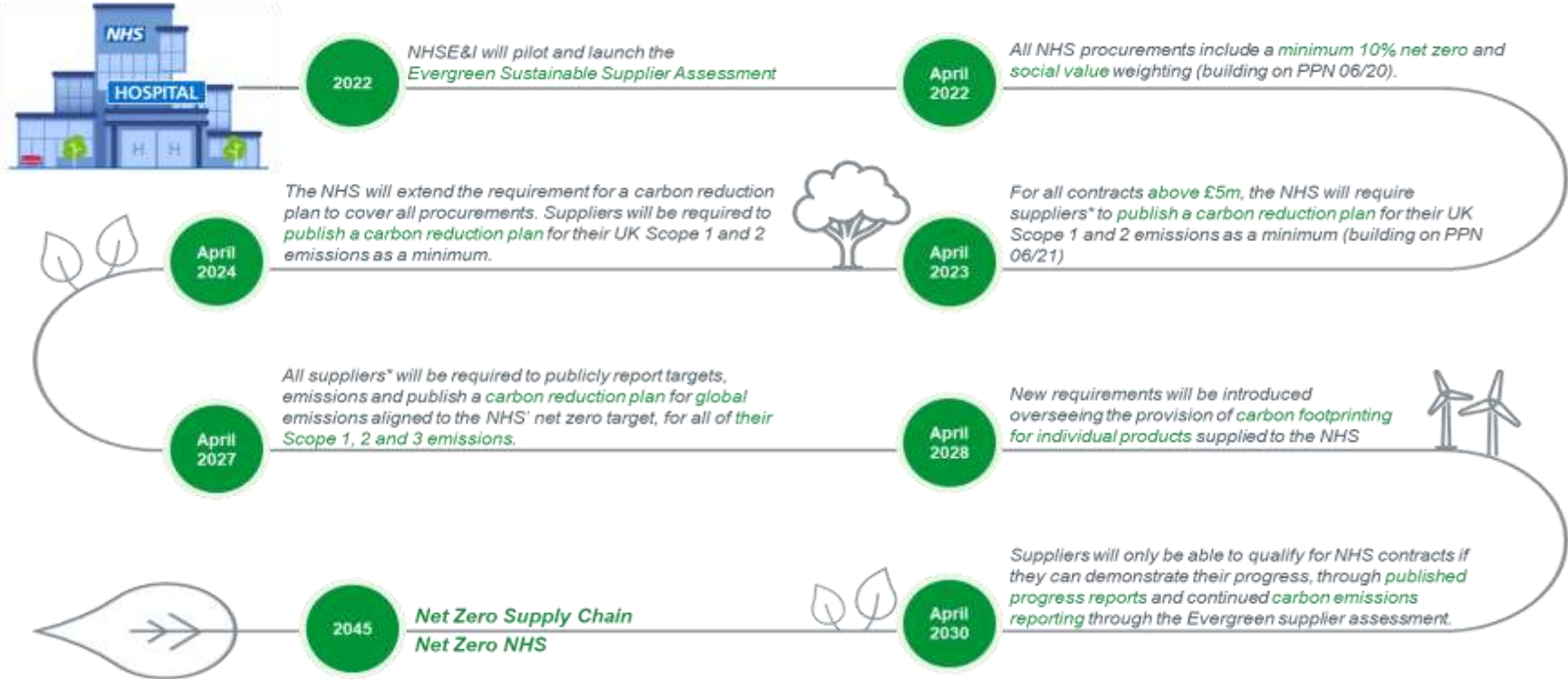
Main focus of the “end of the decade commitment”



Building net zero into NHS procurement – Supplier Roadmap and 10% social value



Building net zero into NHS procurement – the Supplier Roadmap



**To account for the specific barriers that Small & Medium Enterprises and Voluntary, Community & Social Enterprises encounter, a two-year grace period on the requirements leading up to the 2030 deadline, by which point we expect all suppliers to have matched or exceeded our ambition for net zero.*



The NHS Net Zero Supplier Roadmap



2022

From April 2022, all NHS procurements will include a minimum 10% net zero and social value weighting. The [net zero and social value guidance for NHS procurement teams](#) will help unlock health-specific outcomes (building on [PPN 06/20](#))

2023/24

From April 2023, for all contracts above £5 million, the NHS will require suppliers to publish a carbon reduction plan for their UK Scope 1 and 2 emissions as a minimum (building on [PPN 06/21](#)). From April 2024, the NHS will extend this requirement to cover all procurements.

2027

From April 2027, all suppliers will be required to publicly report targets, emissions and publish a carbon reduction plan for global emissions aligned to the NHS net zero target, for all of their Scope 1, 2 and 3 emissions.

2028

New requirements will be introduced overseeing the provision of carbon foot printing for individual products supplied to the NHS. The NHS will work with suppliers and regulators to determine the scope and methodology.

NB: A two-year grace period on the 2023, 2024 and 2027 milestones will apply for [small and medium-sized enterprises \(SMEs\)](#) and voluntary, community and social enterprises (VCSEs).



NHS
England

Healthier Futures Action Fund

Applications now open

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- For **individuals and teams within NHS organisations**, to **kick-start innovative initiatives or ideas** that will improve health and patient care, reduce inequalities, and deliver value, while supporting a more sustainable health service
- Bids with a suggested range of between £3,000 - £15,000
- Closing 19th August

THANK YOU

What questions do you have?