





INTRODUCTIONS



Dr Anne Holdoway

Webinar Host





Ross Primmer

Presenter

actionsustainability



Ruth Chalke

Presenter



Rosa Holt

Presenter



SUSTAINABILITY IN DIETETICS

CONTENT











Analysing a product

Facilitating change

Questions







WHO ARE

ACTION SUSTAINABILITY?







SUSTAINABILITY

DRIVERS





Achieve net-zero greenhouse gas emissions by 2050

NHS

- NHS Carbon Footprint: Net zero by 2040
- NHS Carbon Footprint Plus (including supply chain emissions): Net zero by 2045
- NHS Clinical Waste strategy: 100% of NHS trusts and foundation trusts to have waste managers by 2023
- NHS BSA:
 - Reduce water consumption by 40% from 2025
 - Achieve a biodiversity net gain across its estate by 2025
- NHS Procurement: From April 2022 all NHS procurements must include a minimum 10% net zero and social value weighting

Industry / BSNA

Companies are committed to producing recyclable packaging and producing as little waste as possible working towards becoming 100% recyclable.





UNDERSTANDING SUSTAINABILITY

Sustainable development:

"Meeting the needs of today without compromising the needs of tomorrow"

Brundtland 1987¹



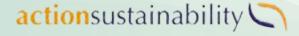


UNDERSTANDING SUSTAINABILITY

THE THREE PILLARS

- People / Social
- Planet / Environmental
- Profit / Economic





UNDERSTANDING SUSTAINABILITY

SUSTAINABLE GALS DEVELOPMENT GALS





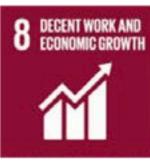


































United Nations: Department of Economic and Social Affairs Sustainable Development https://sdgs.un.org/goals



UNDERSTANDING SUSTAINABILITY

PRIORITISATION IS KEY









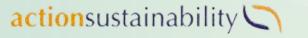






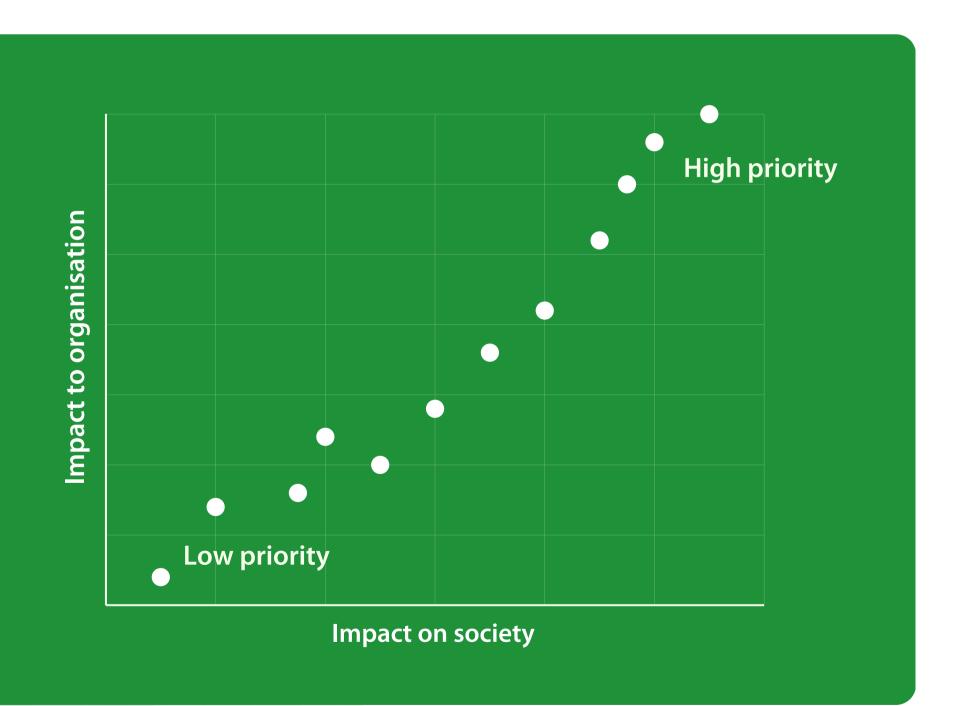


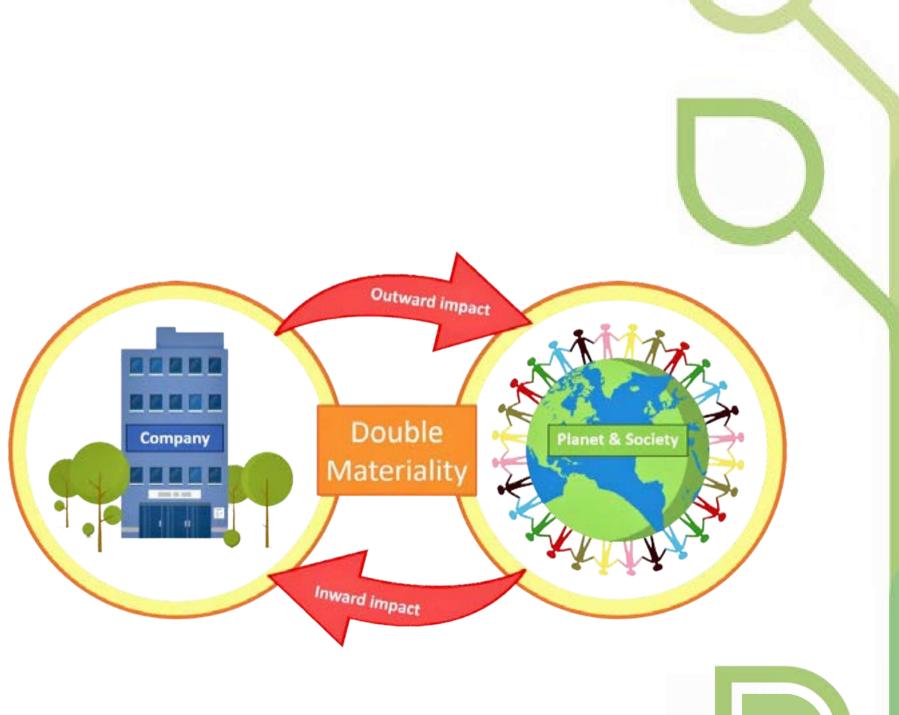


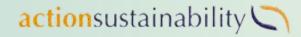


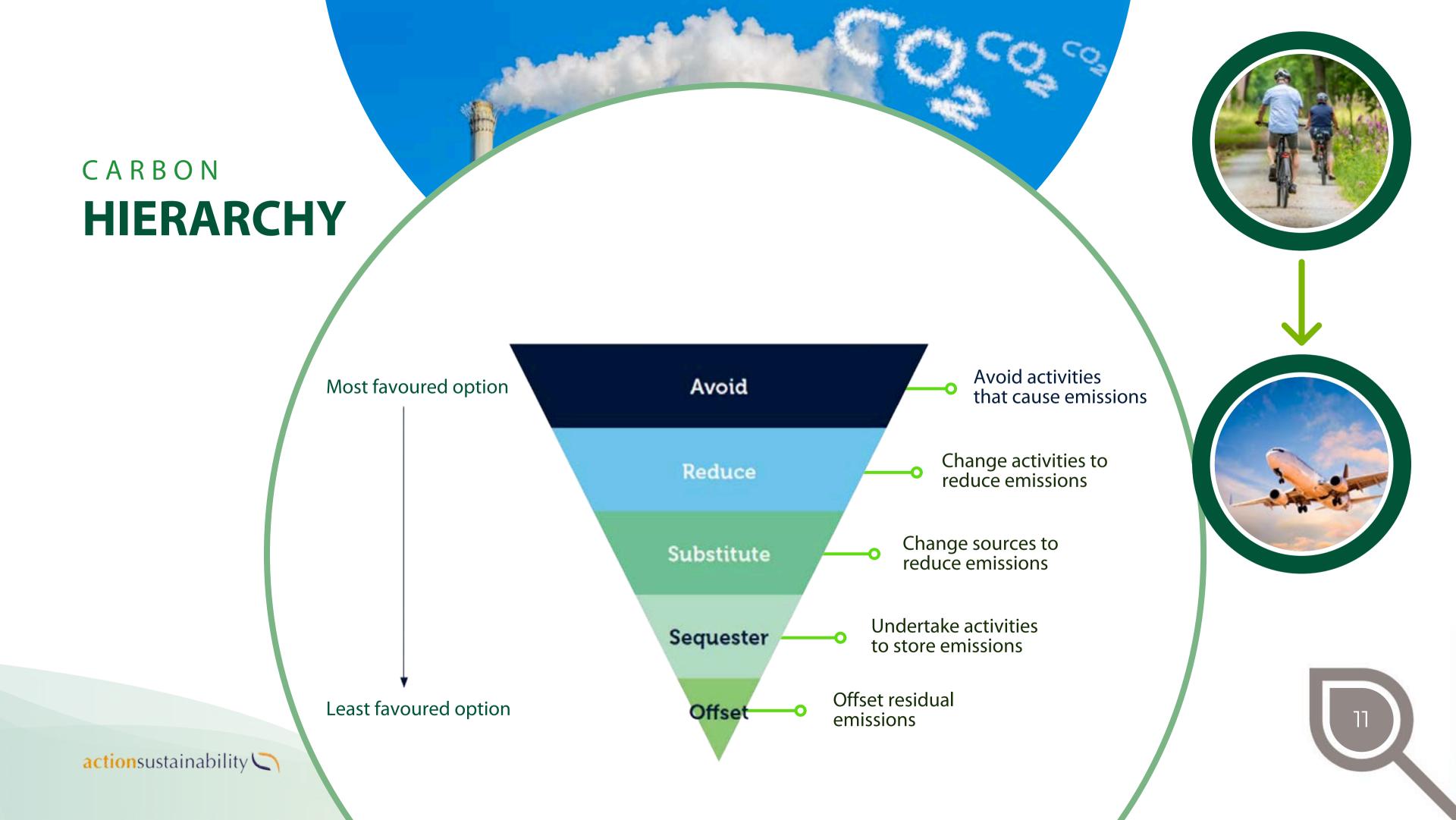
UNDERSTANDING SUSTAINABILITY

PRIORITISATION



















actionsustainability

Business of Recycling : WRAP

Image source: https://businessofrecycling.wrap.org.uk/recycling-guide/why-your-business-needs-to-recycle/the-benefits-of-reducing-food-waste

PRODUCT ANALYSIS

PACKAGING

Product example:



SOCIAL

Providing essential nutrition for patients with serious illness

Easy to use / administer for any demographic



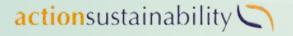
ECONOMIC

Packaging best aids longevity of product – reducing the possibility of waste product.

Space efficient, reducing shipping costs.



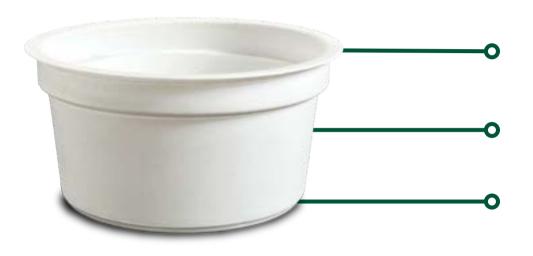




PRODUCT ANALYSIS

PACKAGING

Product example:



ENVIRONMENT

Recyclable plastic container

Cup >50mm aiding recycling²

Lightweight container reduces carbon 'cost' of shipping





Recyclable waste processing

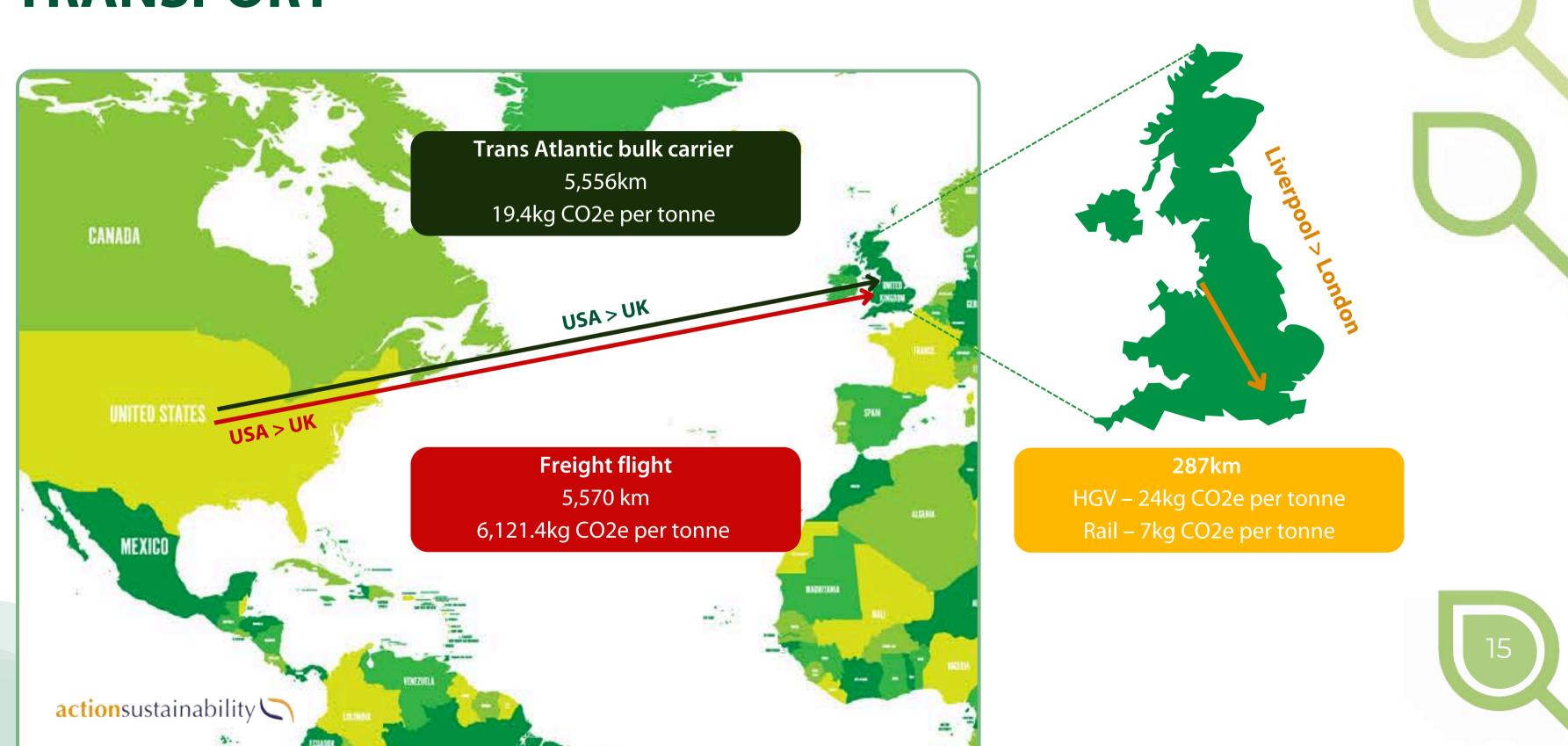
A Trommel screen uses a cylindrical drum with perforated holes of varying sizes, through which materials are sorted by size as the drum rotates.

Items with a diameter >50mm typically go to landfill or are incinerated for energy.



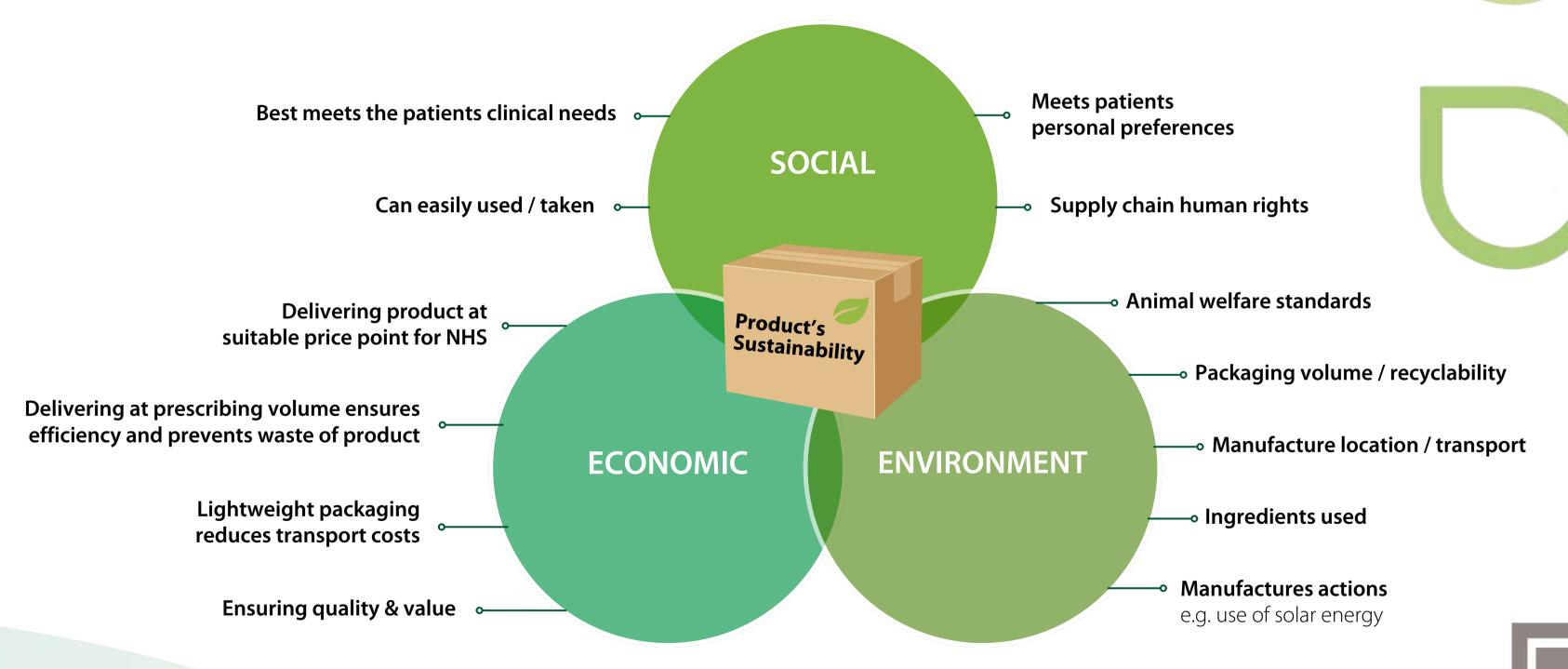
PRODUCT ANALYSIS

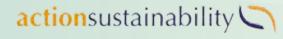
TRANSPORT



THINKING THROUGH THE LENS OF

THE THREE PILLARS





SUSTAINABILITY

SUMMARY



A sustainable approach considers environmental, social and economic impacts

Sustainability presents business opportunities and risks



Prioritisation is key



There are various ways to define sustainability such as the 3 pillars and UN SDGs

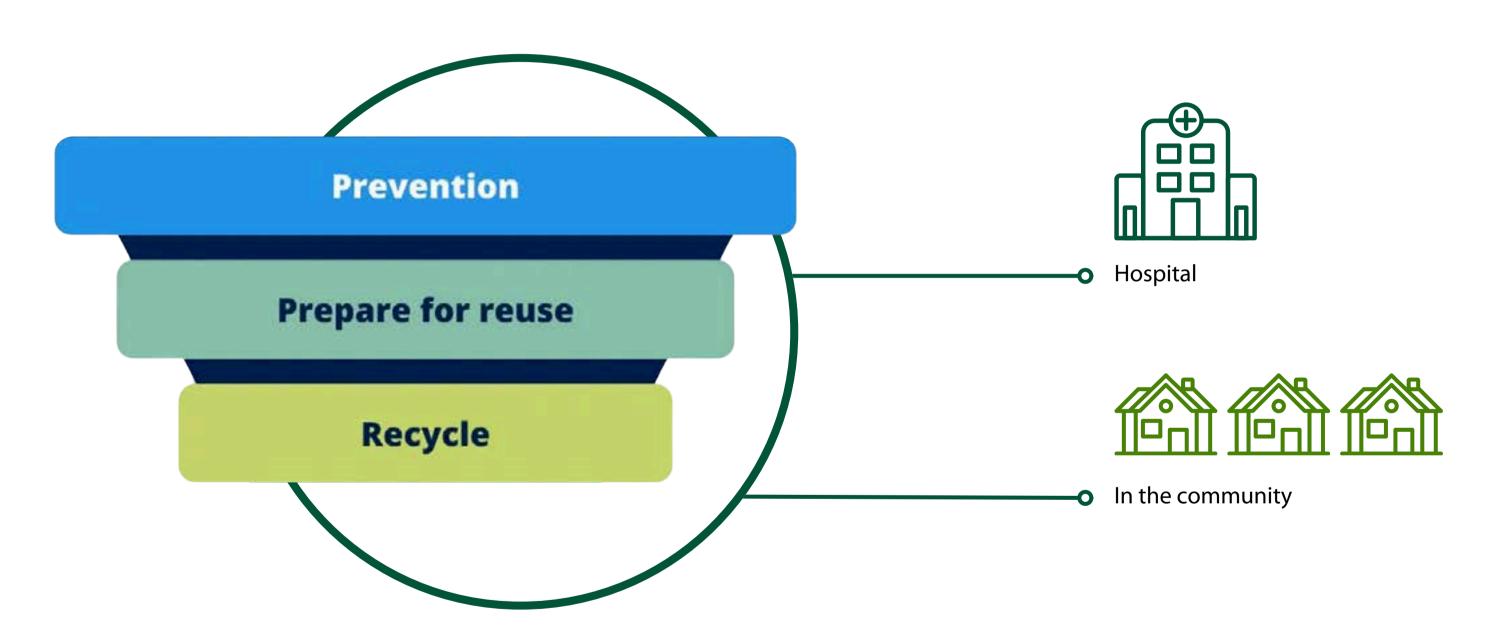


A decision making hierarchy is a good way to structure your approach

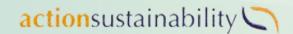


MAKING AN INSTANT IMPACT IN

DIETETIC PRACTICE









RUTH CHALKE

BDA SUSTAINABLE DIETS GROUP

About Ruth:

Ruth is a dietitian who has worked in the NHS for 10 years across various specialisms, including Upper GI Surgery and Prescribing Support. She co-leads the Green Team for her department and is a member of a 'Reducing Single-Use Plastics Working Group'. She is Resource Officer for the BDA Sustainable Diets Group, and wrote an article for Dietetics Today magazine, looking at the environmental impact of Oral Nutritional Supplement packaging.



ORAL NUTRITIONAL

SUPPLEMENTS

Oral Nutritional Supplements (ONS)

Address nutritional deficiencies

300,000

Prescribed each year



Multiple components











Lids: hard / peelable

Seals (under lids)







Pots



Cups







PLASTIC

RESIN ID'S

Materials used for each component varies between manufacturers

Resin ID's categorise plastic into 'types'

- Ensures consistency in manufacturing and recycling ability
- Numerical indicators (1-7) indicate plastic material used





COMMON PLASTICS IN

MEDICAL NUTRITION





ONS



PET (Polyethylene Terephthalate)

Uses: Bottles for liquid nutrition, sterile packaging. Widely recycled: Can be recycled 1-2 times



HDPE (High-Density Polyethylene)

Uses: Bottles for nutritional supplements, containers for medical liquids. Widely recycled: Can be recycled 7-10 times



PP (Polypropylene)

Uses: Syringes, caps, containers for medical liquids. Widely Recycled: Can be recycled 5-7 times

Other



LDPE (Low-Density Polyethylene)

Uses: Flexible tubing, squeezable bottles. Moderately recyclability: Can be recycled 4-5 times with quality loss



PVC (Polyvinyl Chloride)

Uses: IV bags, tubing, blood bags. Limited Recyclability: Can be recycled 7-8 times - but with significant challenges



COMMON PLASTICS IN

MEDICAL NUTRITION



Not locally recycled



'Other'

Plastic Packaging:

- Single-use containers for enteral nutrition
- Plastic film wrapping for sterile products

Blister Packs:

 Used for packaging of supplements and medications

Composite Materials:

- Nutritional supplement sachets combining plastic, foil, and paper
- Tetra Pak bottles



Sachets

Ready-to-use and powdered

ONS

- Paper, aluminium, plastic laminate coatings
- Preserve, seal, brand

However

Some accepted in 'soft plastics' recycling bins

Life Cycle Analysis

- Less energy, raw materials and water
- Weigh less
- Smaller volumes vs liquid supplement
- Reduced transport costs, carbon emissions, waste volume



CORRECT DISPOSAL OF

ONS PRODUCTS





Discard seals





Remove labels / collect sachets —> 'soft plastics' recycling bin



Avoid recycling contamination

Non recyclables:

- Clinical waste
- Items contaminated by food e.g. oil on cardboard
- Small items with a diameter of <50mm



OTHER

CLINICAL CONSIDERATIONS



Reduce Waste

- Sample services
- Acute scripts
- Measurable outcomes



Patient communication

• Advise best way to dispose of products



On pack recycling

- Coming soon...
- On pack recycling guidelines & logos (QR code)



Useful resources

Recycle Now - Recycling Locator³







RECYCLING

WHICH BIN DO WE USE?

Most clinical settings will have a variety of different coloured bins to separate different types of waste.



Clear (or white) bin bags = Recycling!

- Empty plastic cups, bottles and containers
- Empty aluminium and steel drinks and food cans
- Clean wrappers and packaging, most soft-density plastics
- Paper and card



Black bin bags = General Waste

General waste should contain no recyclable materials, batteries or electrical equipment



Orange, yellow or 'tiger' (striped black and yellow) bin bags = Infectious Waste

Infectious waste only - such as dressings, swabs and used PPE



Blue Bin bags = Non-Hazardous Medicinal Waste

Non-hazardous pharmacy and medicinal waste such as surplus medicines





ROSA HOLT

BDA SUSTAINABLE DIETS GROUP

About Rosa:

Registered Dietitian and BASiS registered Environmental Advisor. Focused on sustainable dietary diversity and agroecology



@foodandfarmingdietitian









RECYCLE PLASTIC, IT'S FANTASTIC





'THE CLIMATE AND ECOLOGICAL EMERGENCY IS A HEALTH EMERGENCY'

NHS Scotland Climate Emergency and Sustainability Strategy 2022-2026 Scottish Government Plan for NHS Scotland being a net zero healthcare service by 2040

NHS Grampian Plan for the Future 2022 – 2028 ⁵

Legislative requirement to deliver net zero carbon service, recycling can be a simple and effective way to achieve this.



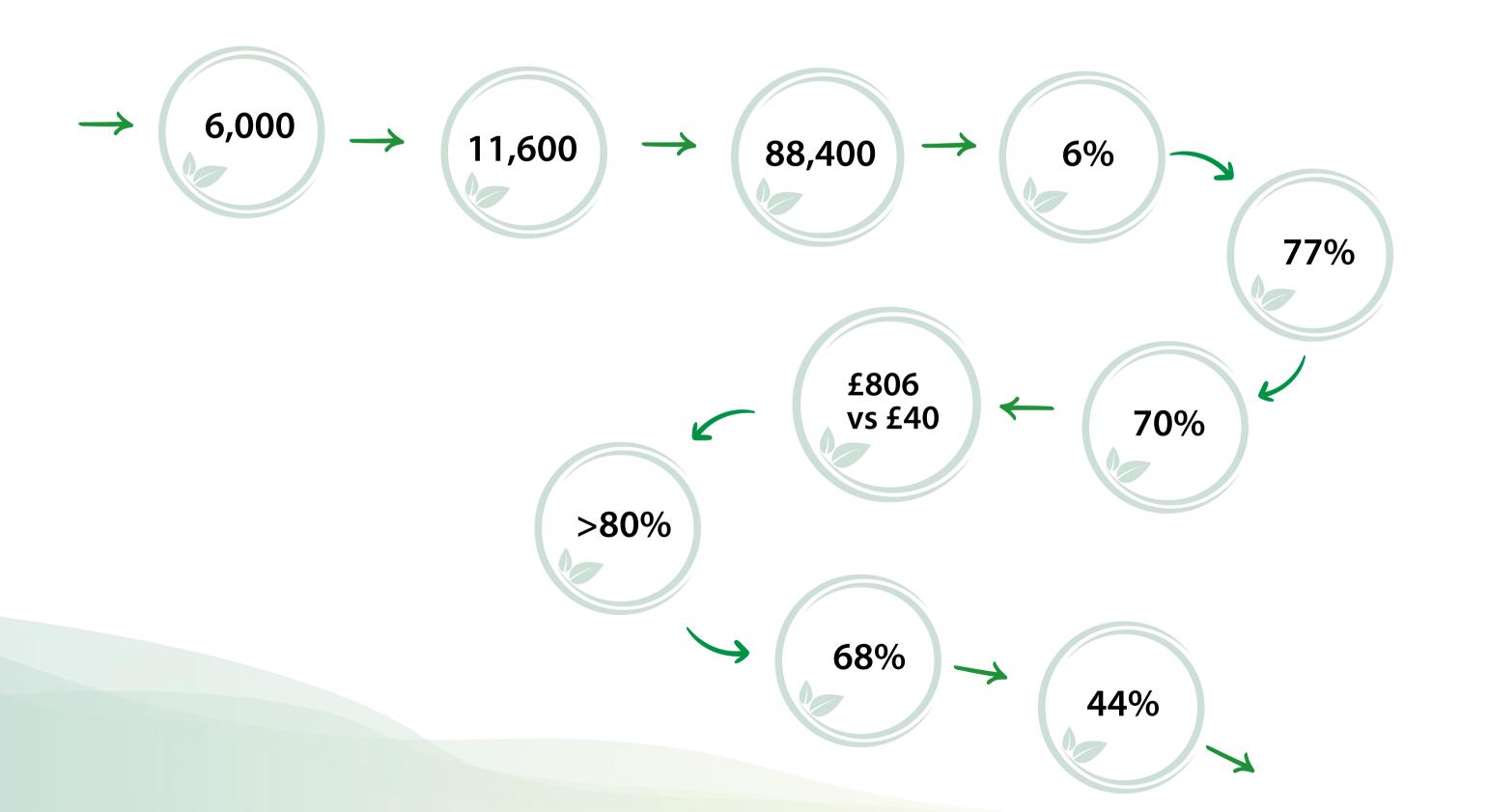


^{4.} https://www.gov.scot/publications/nhs-scotland-climate-emergency-sustainability-strategy-2022-2026/ 5. https://www.nhsqrampian.org/about-us/planforthefuture/





A STORY WRITTEN BY NUMBERS







SIGNPOSTING CHANGE IN THE

HOSPITAL

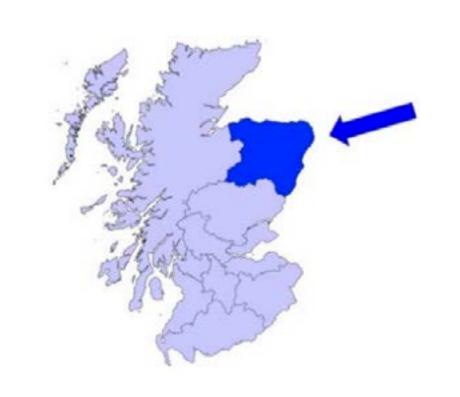
Working with companies to develop recycling posters and signposting.







https://www.youtube.com/@nhsgrampian/videos









DIETETIC

SUMMARY

One of the easies ways in which we can make an immediate difference on environment is by reducing any unnecessary waste and by increasing how much we recycle.

REDUCE

- Use product samples and sample services prior to prescribing
- Consider utilising products that mitigate the need for additional ancillaries
 - such as single-use cups for decanting
- Utilise acute scripts

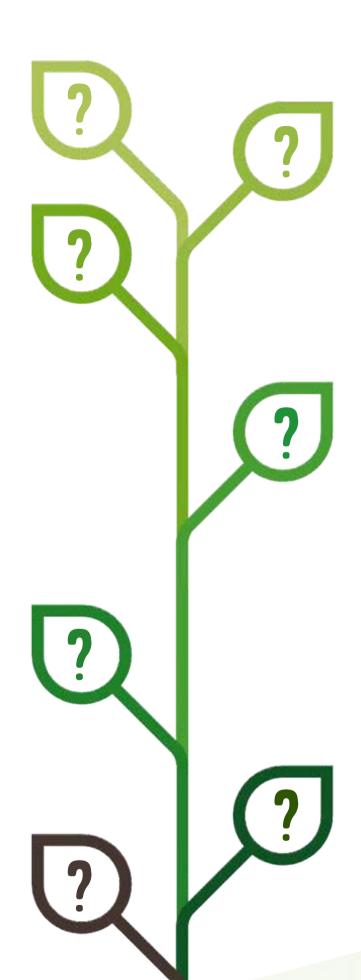
RECYCLE

- If you do not currently have recycling facilities in wards, consider contacting your local waste management team.
- Where recycling is possible, remember...
 - Check it's recyclable plastic type
 - Avoid recycling contamination product residue or <50mm
 - Remove labels & seals
 - Collect up soft plastics and take to local recycling point



www.recyclenow.com/recycling-locator

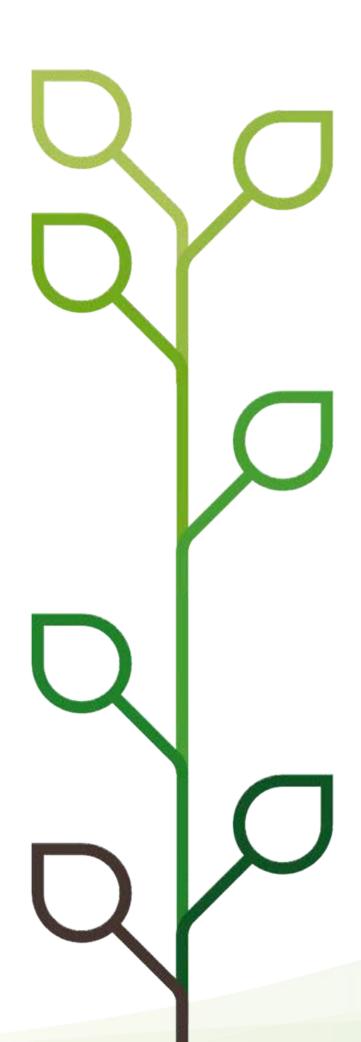






QUESTIONS & POLL

REVIEWED BY OUR EXPERT PANNEL



THANK YOU

nutrinovo.com/sustainability

