



Nitrous oxide project

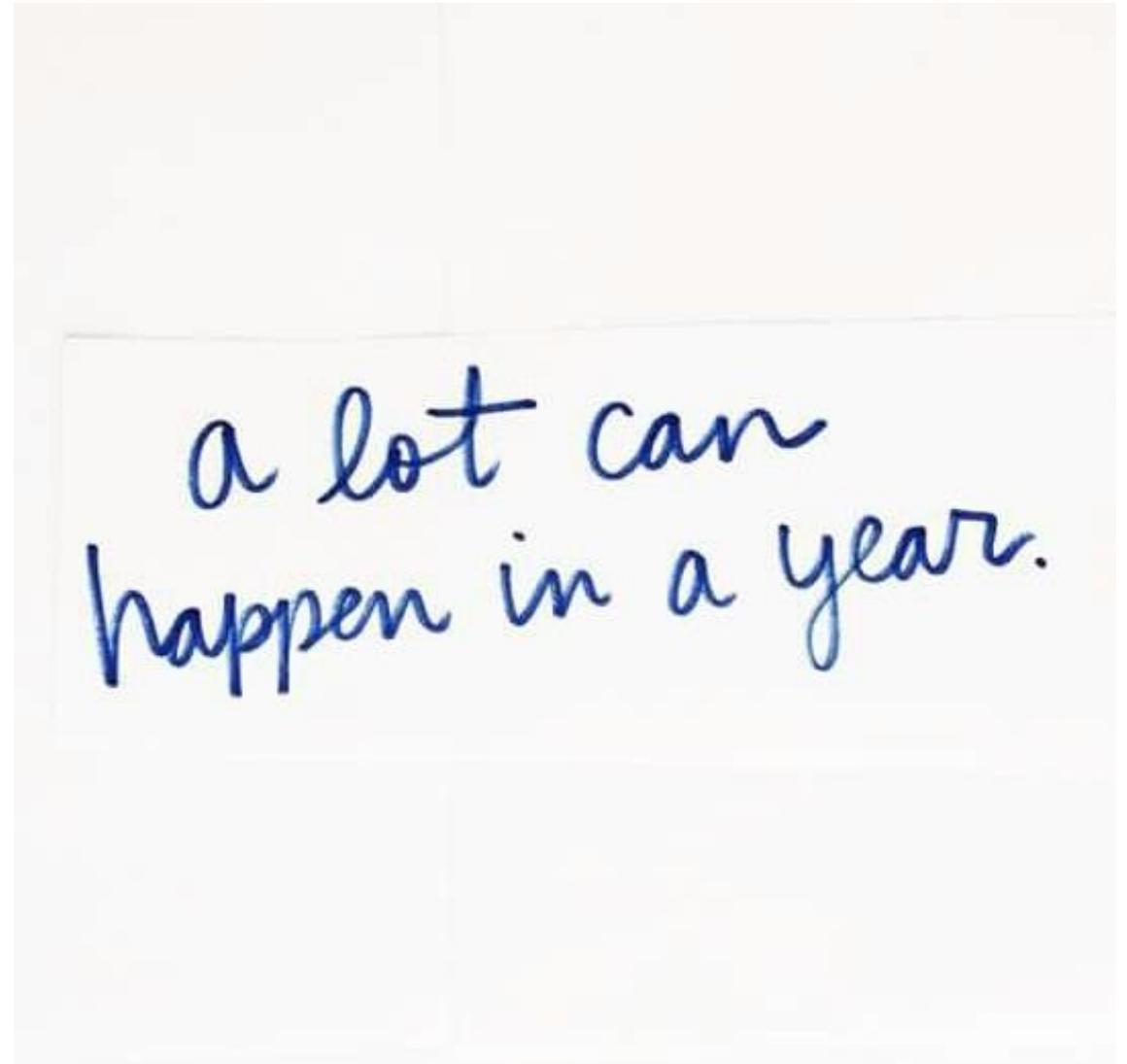
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Introduction

I'm back!

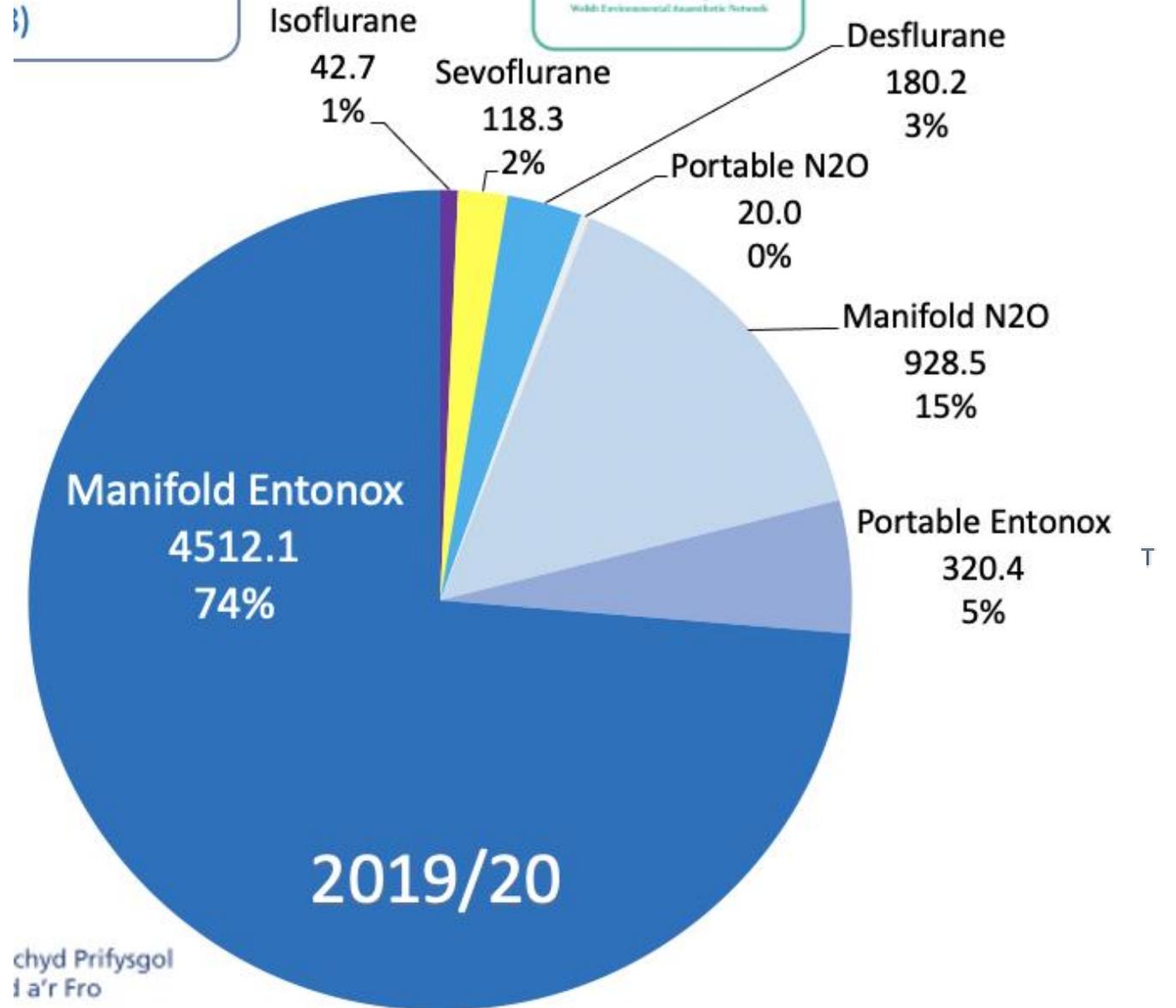
- Pilot solution had been spread to one site
- First manifold closed



What is the problem with nitrous oxide?

GWP 300 greater than CO₂

Wales.NHS.uk



How is nitrous oxide used?

Nitrous oxide (N₂O)



Small cylinder

Anaesthetics

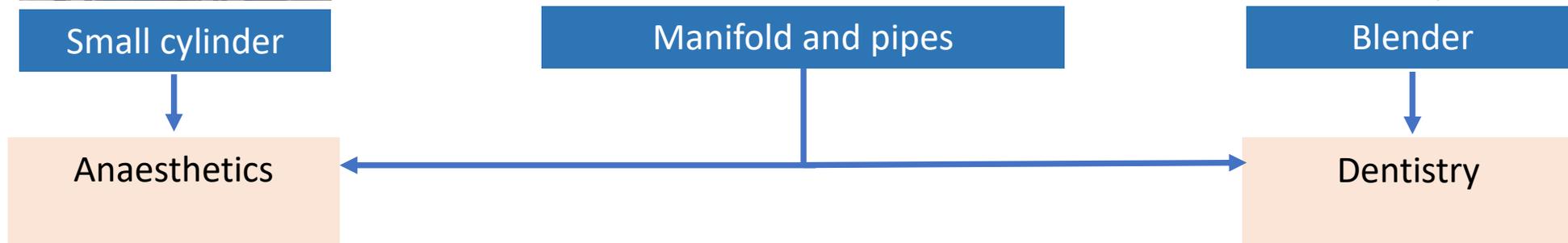


Manifold and pipes



Blender

Dentistry



How is nitrous oxide used?

Entonox (50% N₂O 50% O₂)



Small cylinder



Manifold and pipes

Maternity

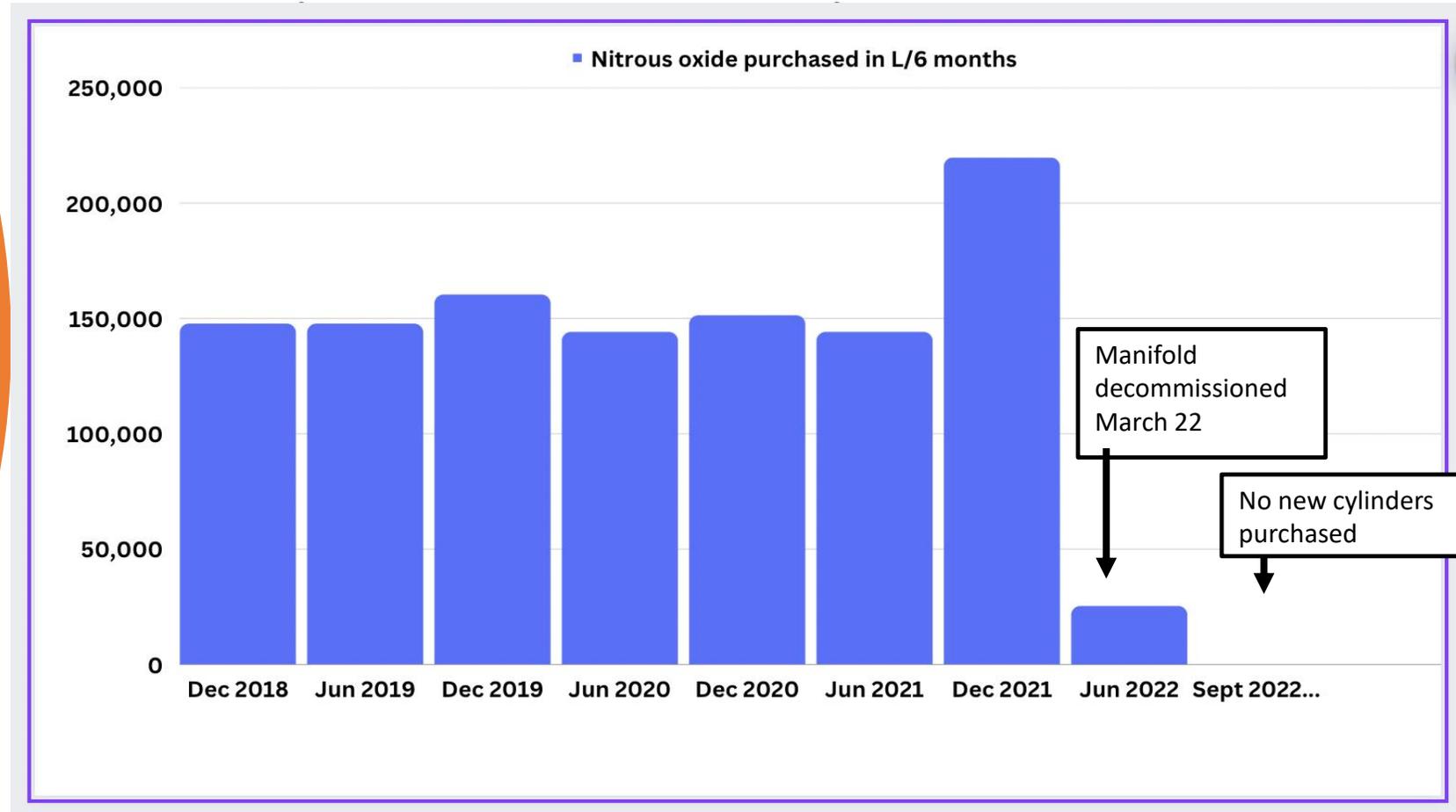
Emergency department

Endoscopy

Aanesthetics: Close manifolds and move to small cylinders

How can we reduce emissions 1?

Manifolds closed:
UHL, UHW, Wrexham,
Neville Hall



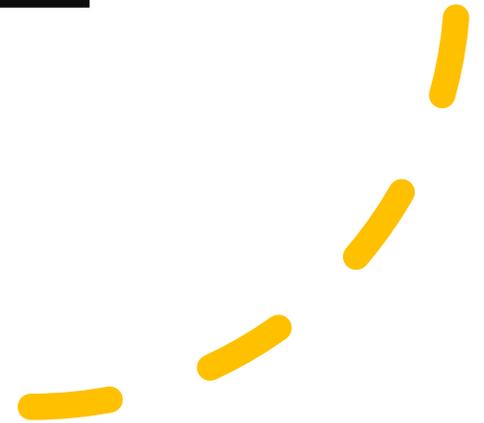
waste 97.5%
(1.1.million litres/year)



How can we
reduce
emissions 2?

Maintain manifolds

- Audit purchasing and manage leaks



How can we
reduce
emissions 3?

Dentistry: Close manifolds and use
blenders

- UHW dental hospital
- St Davids



How can we
reduce
emissions 4?



CANOLFAN
RAGORIAETH SBRI
SBRI CENTRE OF
EXCELLENCE



- Entonox cracking technology
 - Medclair MDUs
 - Medclair CDUs
 - SBRI project



In summary

- Close all nitrous oxide manifolds
- Evaluate the need for Entonox manifolds
- Maintain all remaining manifolds
- Implement cracking technology

- Big thanks to the whole CAV team, Welsh Govt Approach to Health and SBRI for all the project support

