

Resource not Waste. Supporting the circular economy post pandemic

planzerocarbon.com

@Mitie Plan Zero



Welcome

Nick Carter Commercial Director - Waste and Environmental, Mitie



08:30-08:35 | Welcome by Nick Carter

Agenda

08:35-08:50 | Nick Carter – Mitie: The circular economy - re-imagining a world without waste

08:50-09:05 | Kevin Green – Mitie: Waste Match - re-establishing the value of unwanted assets

09:05-09:20 | Peter Mather – Mitie-MMC: Sustainable return to the office - rightsizing the estate through re-use

09:20-09:35 | Jon Wyss - Steelcase: Sustainable procurement - in with the new and with the old

09:35-10:00 | Discussion / Q&A

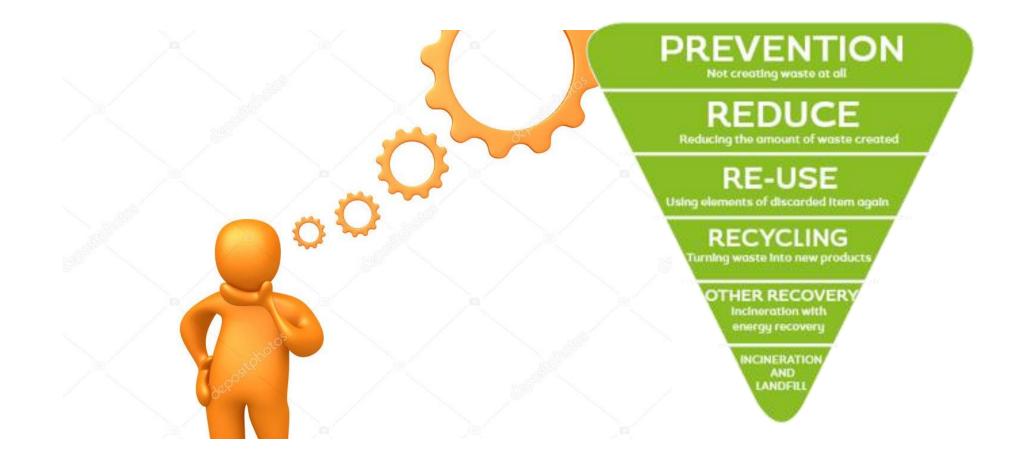


Re-imagining a world without waste

Nick Carter Commercial Director - Waste and Environmental, Mitie

The Waste Hierarchy





Single Use Cups







| 482.1 | Plastic Items Removed 2019/20 | Saving Per Annum | Converted to tonnes** |
|--|--|------------------|--------------------------|
| | Disposable cups from Keep Cups (vending and café) | 21 million | 378 |
| tonnes of plastic waste saved so far | Condiment Sachets | 14.4 million | 4.4 |
| | Plastic Cutlery Items | 4.3 million | 12.9 |
| | Cold Water Machine Cups | 10 million | 70 |
| 2019/20* | Foam Sanitiser | 6221 kg | 6.2 |
| | PVA sachets | 596 kg | 0.6 |

*Single use items such as cups and cutlery have been temporarily reintroduced as a result of CV19

Cardboard Boxes



It takes roughly 17 trees to produce just one tonne of Cardboard Boxes.



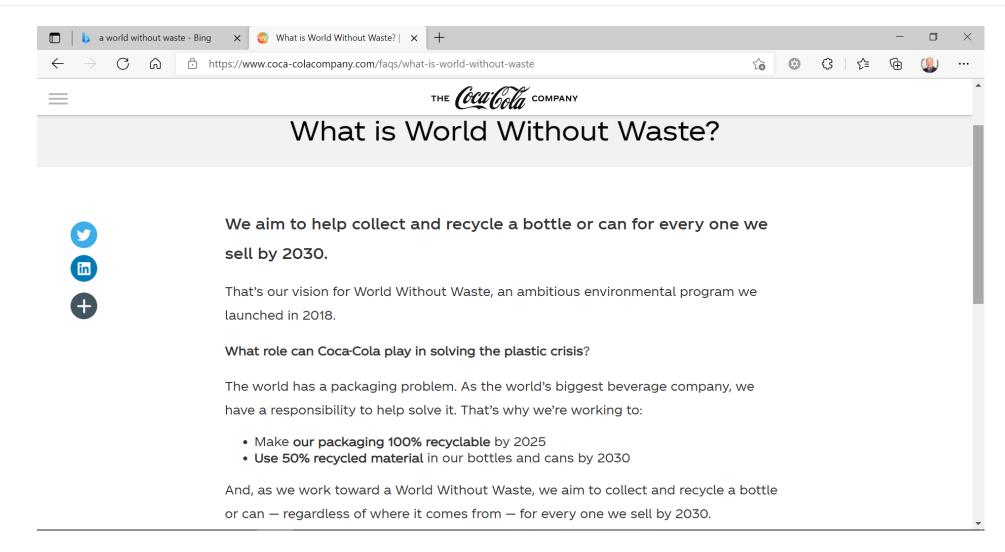
Effluent Treatment Sludge





Turning it into an opportunity...







Waste Match - re-establishing the value of unwanted assets

Kevin Green Waste Match Director, Mitie

Think Differently



Waste V Assets

Assets only become waste when they become inconvenient:



Time/Timing

Space

Money

WasteMatch - Linking Resources on Vimeo

"Time constraints can be mitigated through planning asset disposal as an integral part of any projects." "Off site storage and just in time collections can mitigate the inconvenience of limited space" "Realising the value of an asset should always result in a cost saving if properly planned"

More Than Furniture



Waste Streams







Industrial EquipmentClothingCateringFurnitureIT EquipmentLab EquipmentVehiclesConsumablesSchool Assets

Supporting Homeworkers



QHSE – Reusing safely

Implications of providing office/contract chairs for employees who are working at home during and after the Covid-19 Pandemic

On behalf of its members, the Furniture Industry Research Association has sought clarification from the OPSS (Office for Product Safety Standards) via the Hertfordshire Trading Standards Office (TS), to determine if the office chairs in use in the home environment are required to comply with the UK's Furniture and Furnishings (Fire) (Safety) Regulations 1988 (FFFSR-1988 Regulations) in circumstances where they have already been tested to BS 7176: 2008 + A1; 2011.

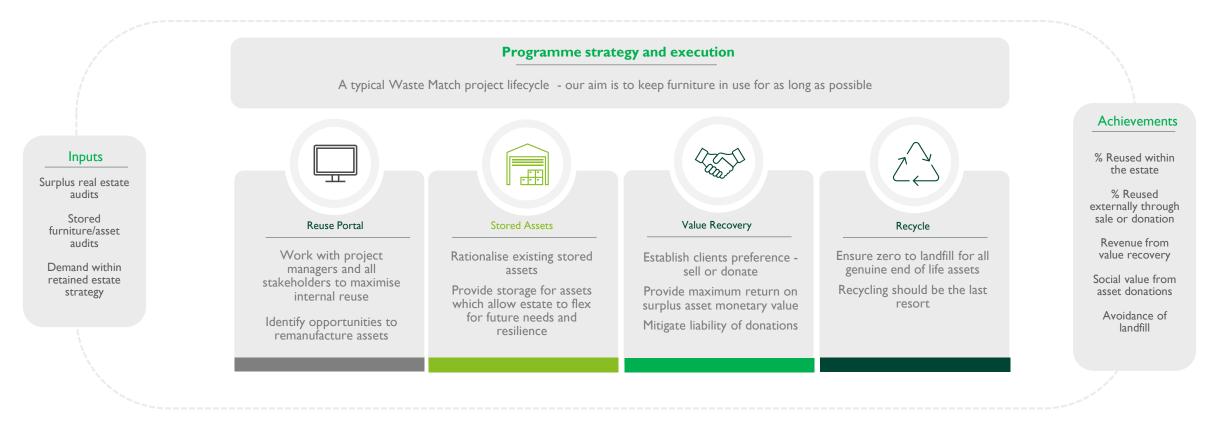
The response from OPSS (Office for Product Safety Standards) and Hertfordshire Trading Standards was clear as follows:

"The Furniture and Furnishings (Fire) (Safety) Regulations 1988 set fire safety requirements for upholstered domestic furniture sold in the UK and it is important that fire safety provisions are upheld and maintained. We are not in the position to relax the requirements of the FFFS Regulations or grant an easement as a result of COVID-19. Therefore, office furniture ordinarily intended for use in non-domestic settings would need to fully comply with the requirements of the FFFS Regulations if it is supplied for private use in a dwelling."

What to do with Surplus Assets?



Reuse, Store, Sell, Donate, Recycle



Create better visibility of assets from across the estate, including those currently in storage Identify opportunities to reuse surplus assets within your estate

Achieve best social and financial outcomes for any genuine surplus assets with zero to landfill and full reporting

"Consider selling surplus assets and donating money to support preferred charities rather than office furniture that they can't use"

"Furniture can be remade to get the asset you need from the one you already have"

"Mitie Waste Match charity process has always been at the heart of what we do"

their own work from home and office refit strategies. We engage our charity network

deeply to ensure we are meeting their current needs

Selling assets and donating the money may suit most struggling charities better than assets that they can't use.

Charity Engagement

Charities are stretched to support



Mitie Waste Match

Outcomes

Mitie Waste Match works with our clients to keep assets in use for as long as possible

Minimising need for virgin material + energy to make new £ |.9m

Savings against strip out costs and costs of change management for clients

315,000

Individual items of furniture reused



Tonnes of assets reused equivalent to over 1.000 London buses

21,000

Tonnes of CO2 saved - equivalent of 2.6billion smart phones charged

fl.2m

Value of donations to charity



Sustainable procurement - in with the new and with the old

Jon Wyss Strategic Account Director, Steelcase

OR SUSTAINABLE PROCUREMENT @ IE & STEELCASE



Post COVID:

How is our market changing? New Sustainability targets and goals being adopted by clients A new ESG Mindset

There is a new Focus on the environment, social values, employee health.

All these things tie directly into something called 'ESG' (Environmental, Social and Governance). This is a way of thinking about business that emphasizes the environmental, social and governance impact of everything we do. _____

Environment Carbon neutral now – and reduce emissions by 50% to 2030



Social Social innovation



Governance Distributed decisionmaking meets empathetic leadership









Certifications



BREEAM®

SKArating

Enterprise Performance

Building certification guidance documents: WFII

1. Introduction and overview



WELL Building Standard* and the spectree firms on

2. WELL Credit Categories



S



3. Product / Application Contribution guidance (Table)

STEELCASE CONTINENTIONS

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Steelcase

COMMUNITY

SUSTAINABLE PROCUREMENT BULLET POINTS



Re-use

Review existing product stock

Restore – validate if existing products can be repurposed e.g. desks reconfigured, soft seating reupholstered etc.

Is buying used an option?



Review

Review manufacturers

Are they using renewable energy for their factories, what is their net zero roadmap?

Review their waste management approach.

Review product transportation and packaging.

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Advise

Advise on product selection & specification

Select natural renewable materials like wood, natural fibres for fabrics, cork, bamboo, etc. from our vetted suppliers' ranges. Favour products with a high recycled and recyclable content. Review if products are easy to disassemble to ensure recycling of parts is possible.

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Product Documentation

We collate product and supplier certifications, EPDs, PEPs, HPD, product fact sheets that list materials used, recycled material content, recyclability, carbon footprint and other environmental information.

> **SKA**rating[®] BREEAM[®]



| $\overline{\Omega}$ | $\overline{0}$ | |
|---------------------|----------------|---|
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Warranty

Select products that are durable and easy to maintain.

Does the manufacturer provide extended warranties, spare parts, repair options?

Review product continuity.



WELL

Example of project specific product specification

1A

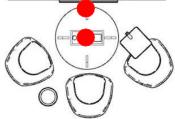
Curated Cabin





Visual needs updating





Recommended floor grommet locations



£ xxx

Dia 1200mm x H660mm Extron cubby ready

Finishes:

Top: Standard laminate colour Large range of laminate colour options available Base: Oak





<u>Finishes:</u> Fabric: Steelcut Trio 3 range Legs: Oak veneer base black stained

| Colour to be project specific | Colour to be project specific |
|----------------------------------|-------------------------------|
| Kvadrat Steelcut Trio 3 0686 | Kvadrat Raas 0942 |
| T | £ xxx |

X-LT-01 Fusion Connection



£ xxx

£ xxx

H660mm x D470mm x L460mm

<u>Finishes</u>: Oak Veneer Plywood Square Top Textured Black Metal Base

X-CH-06 Bob stools Modus



H440 x W335 x D335 H440 x W335 x W35 x W3





OAK

All images are indicative

SUSTAINABLE STEWARDSHIP ON EXISTING & NEW FURNITURE



FINASTRA

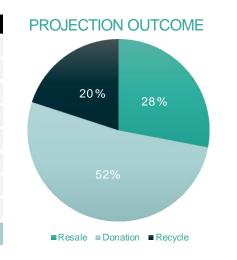
Click here + To watch the case Study of the UK

Bank proiect

- ✓ 300,000 sqft @ £4M
- ✓ WELL Platinum
- ✓ 40+ suppliers vetted
- ✓ Developing asset strategy for multiple sites

 \checkmark 42,710 sqft @ £1.2m \checkmark Refurbished existing furniture saving & reused to the saving of £200k

| ITEM | QTY | WEIGHT | PROJECTED OUTCOMES |
|----------------|------|--------|---------------------------------------|
| Task Chair | 2366 | 83 | Resale 90% Donation 10% Recycle 0% |
| Desks | 2366 | 118 | Donation 80 % Recycle 20 % |
| Pedestals | 225 | 8 | Donation 40%Recycle 60% |
| Lockers | 436 | 13 | Donation 80 % Recycle 20 % |
| Cabinets | 378 | 24 | Donation 20%Recycle 80% |
| Meeting Chairs | 466 | 16 | Donation 80 % Recycle 20 % |
| Meeting Tables | 119 | 5 | Donation 70 % Recycle 20 % |
| Soft Seating | 35 | 3 | Donation 100% |
| | | | *A zero to landfill policy will apply |



UK BANK PROJECT

- ✓ FY19 650,000 sqft @ £3m p.a.
- ✓ SKA Silver achieved
- ✓ Contract saving £750k
- ✓ 20% furniture reused
- ✓ FY20 529,359 sqft
- ✓ 6 buildings across UK
- ✓ 5000 desks installed, including 2000 up-cycled desks

NEW DESIGN PROPOSAL



TEST PLAN RE-USE & NEW



3rd party supplier commitment example

All Frövi products are certified SCS Indoor Advantage Gold



As reputable source of knowledge, Frövi aims to educate and

create awareness of the benefits of wellbeing, sustainability

As we grow and learn more so will we share our expertise

and understanding with you to support you in your

Whatever the need or budget rest assured that we

and the WELL Building Standard™.

wellness journey.

have a solution for you.

This means that our products have been certified to have low hazardous VOC emissions that can help to reduce impact on indoor air quality.



SUSTAINABLE PROCESSES

Reducing or recycling any waste products and components. Using environmentally kinder processes like our EPD powder coating and natural, untreated materials where possible.



SUSTAINABLE MATERIALS We are consciously choosing sustainable materials when

designing new products and looking at our existing portfolio or how we can improve.



create space by separating



high-back for an added barner

Environmentally conscious certifications

At Fridvi, we care about the environment and not only recognise review and assessment to ensure that it evolves to suit the but appreciate that our operations may have an impact locally and ever-changing needs of the environment and our business. ultimately, globally. We don't claim to be saving the world with a few

we do realise that we can make a difference.

demonstrate we are taking our environmental and corporate social

generic environmental statements but as a company and individuals In addition to our direct efforts, we are registered with regulatory bodies such as FISP and FSC, that endorse our processes and

We address the latest environmental issues through our ISO14001 responsibility obligations seriously. Environmental Management System, which is under continual

FISP



manufacturing process.

Frövi have been taking great strides towards the reduction of our environmental impact during the

We have increased our FISP [Furniture Industry Sustainability Programme] score from 56% in 2016 to 90% in 2020.

Our main areas of improvement were in the following areas:



VOC TESTING

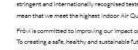
As part of Frövi's push for sustainable production and accountability for our designs and processes, we have partnered with SCS Global Services (SCS) Indoor Advantage^m. Their stringent and internationally recognised tests on VOC emissions the peace of mind in all Frövi products. mean that we meet the highest Indoor Air Quality standards.

Frövi is committed to improving our impact on the environment. To creating a safe, healthy and sustainable future for us all. This important testing not only contributes to better and more healthy buildings but is a great help for those undertaking WELL or LEED Green Building Certification.

ISO ACCREDITATION

Frövi is a registered ISO 9001:2015 and ISO 14001:2015 company. These quality assurance and environmental management accreditations give customers and clients





Carbon Highlights

Carbon Neutrality and Science-based Targets

teelcase | Sustainability

ECO DESIGN PRINCIPLES IN ACTION: THE EXAMPLE OF THE THINK CHAIR



Product of certified environmental quality and low emissions made for the circular economy with verified environmental information available.

- Available certifications: C2C, NF Environment, SCS IAQ Gold
- Verified environmental information (EPD)
- Product environmental profile available (PEP)
- Choice of Oeko-Tex/EU Ecolabel fabrics available
- Recyclability: 95%
- Recycled content: 28%



Asset interception and redeployment

With Eco'services, available in the French Speaking Markets, Steelcase is acting at each step of the product life cycle. **2008** Creation of Eco'Services

60 000 Number of processed workstations

180 000 m³ Volume of collected furniture

~30% of furniture were reused





How a new Steelcase fabric is reinvigorating the office and the ocean

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Every year, 12 million tons of plastic are dumped into our oceans. Much of that waste takes decades and even centuries to biodegrade*. Now, Intersection, a new and compelling screen and panel fabric made from Upcycled Marine Plastic has been developed by Steelcase, bringing new life to the office and removing ocean waste in the process.



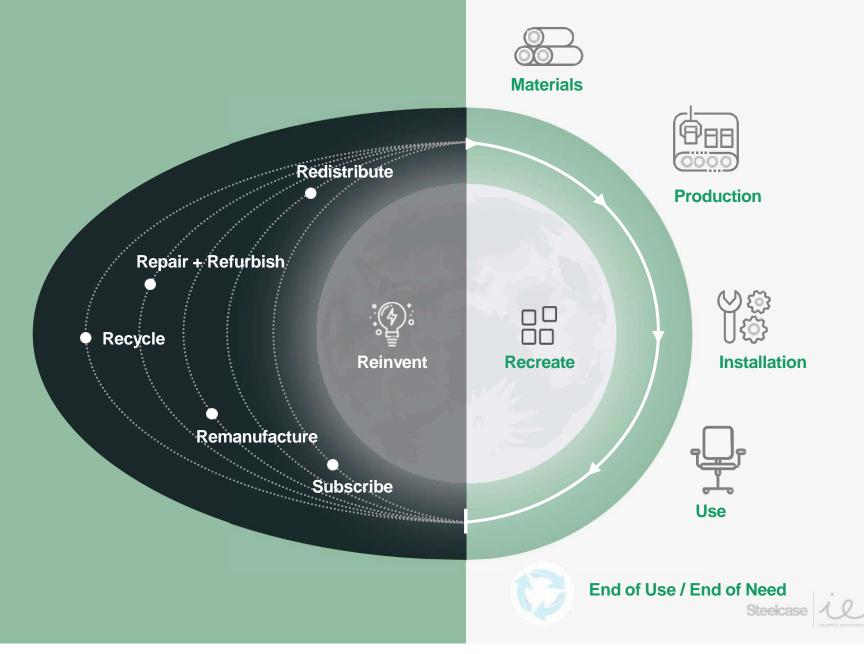




What next?

Rethinking Business

How does our business model change in a circular economy?





Strategic And Add and

Q&A

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Thank you

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