

# Waste and Resource Use Category Group

Tuesday 18<sup>th</sup> February 2020

Bouygues, London

# AGENDA

## 1. Welcome and Introductions

*Matt Nichols, Divisional Director, Reconomy*

## 2. Notes of last meeting

## 3. Progress against actions

- *School Waste landing page refresh*
- *Resource review*
- *Plastics waste –survey of Partners’ practices: working with UKGBC and Zero Waste Scotland*

## 4. MEP Mapping Progress

- *Demonstration by Matt Dewsbury*
- *Discussion*
- *Input from Tim Reading, Volunteer it Yourself*

## 5. Resource exercise

- *Exercise to consider opportunities for new content*

## 6. Business planning for 2020/21

- *Draft business plan*
- *Homes and Construction focus on packaging waste*
- *Engaging clients, architects and designers*

## 7. Prospective actions

- *ICE opportunity*
- *Plastics waste survey – practical survey of Partner projects: Working with Zero Waste Scotland, Reconomy, Barratt Homes, Multiplex, Morgan Sindall*
- *Procurement and supply chain engagement*

## 8. AOB

## 9. Summary, actions and next steps

- *Date of next meeting(s)*

## 10. Close

# ATTENDEES

**Matt Nichols (Reconomy), Mark Turner (Action Sustainability), Imogen Player (Action Sustainability), Robyn Conway (Action Sustainability), Emma-Jane Allen (Action Sustainability), Julia Messenger (BAM), Helen Wickham (Berkeley Group), Leila duToit (Canary Wharf Contractors), Michelle Grisdale (EMCOR), David O'Hagan (Graham), Karen McWalter (Hochtief), Stephen Livingstone (Jackson Civils), Rachel Newell (Kier), Sally Fraser (McLaren Group), Helene Wright (National grid), Emma Davie (NG Bailey), Nikolaos Sapounas (Osborne), Sarah Jane Davies (Sisk), Matt Dewsbury (Skanska), Anthony Lavers (Taylor Wimpey), John Dwyer (Telford Homes), Tim Reading (Volunteer It Yourself), Amy Billingham (Wilmott Dixon).**

# SUMMARY OF PREVIOUS MEETING AND APPROACH

The last meeting of the Waste Category Group was held on **12<sup>th</sup> December 2019** at National Grid’s offices, Warwick.

Discussed progress against the plan and had presentations from:

- *Jim Riley – Protec*
- *Rebeca Fleet – National Grid*
- *Nicole Costantini - Valpak*

Workplan divided into three ‘horizontal’ sub-sets as indicated below, maintaining representation from all the Schools Markets (Infrastructure, Homes, Construction, FM)

Mapping and materials	Procurement and supply chain engagement	Measurement and reporting
Engage and map existing waste and resource initiatives	Presentations from suppliers, manufacturers, clients, designers	Survey Partners on practice in handling/reducing plastics packaging.
Review current School learning materials		Develop visual Material Exchange Platform map for School membership.
Engage client, design, manufacturer and supply communities		
Survey School membership		

# PROGRESS AGAINST ACTIONS

## 1. School Waste Landing Page – Updated – see demonstration

- *Figures updated – partners to pass over more recent facts should they have them*
- *Resources shown are now the top accessed resources*
- *Case studies*
- *Meeting notes*
- *Partner logos*

## 2. Resource review - Updated

- *All resources have now been reviewed*

## 3. Plastic Packaging Survey – Updated – see demonstration

- *Plastics packaging waste –survey of Partners’ practices: working with UKGBC and Zero Waste Scotland*
- *Created, reviewed by SCSS, UKGBC, ZWS and now ready to go live*



# PROGRESS AGAINST ACTIONS

## Introduction to waste e-learning – now being updated

*This is our top accessed resource*

- *3 x 2 minute films required for the update, filming on 12<sup>th</sup> March am, London.*

### **Waste: An Introduction;** to cover:

- Importance of waste in the construction industry
- Relevant statistics
- Impacts of waste arising from construction
- How waste arises on site
- Drivers for reducing waste
- Supply Chain Benefits to reducing waste

**ACTION: Lewis Chenery, Bouygues to cover this**

### **Waste: A Contractors' View;** the old video is a case study essentially:

- Lend Lease's programme (Zero Waste) for engaging with construction sites on waste management
- How the programme was rolled out and developed
- Results, outcomes, lessons learned

**ACTION: Reconomy to cover this and provide a case study**

### **Waste: The Hierarchy;** to cover:

- Why understanding the hierarchy is important to a Supplier
- Details of the tiers: Reduce, Reuse, Recycle, Recover, Dispose
- Some ways to embed principles of the hierarchy

**ACTION: Matt Dewsbury, Skanska to cover this**

# MEP INTERACTIVE MAPPING

## Interactive Demonstration from Matt Dewsbury, Skanska

### Discussion

- Who do you know that can use this?
- What other benefits can we get from this tool? *Carbon, community, procurement*
- Invitation to discussion:

### Tim Reading – CEO and Founder of Volunteer it Yourself

Tim provided an overview of his organisation, their purpose and how they could use the MEP map in their day-to-day business. VIY challenges young people aged 14-24 to learn trade and employability skills through helping to fix local youth and community facilities in need of essential repairs and improvements. For example VIY has previously used leftover PPE from a completed site on a new project. It was discussed that social enterprises could be a different coloured layers on the map to make them easily identifiable.

### Input from partners

- Consider putting waste take-back schemes also on the map
- Consider how best to establish a feedback mechanism where partners can keep the SCSS up to date with any outdated or new MEPs
- Consideration of waste regulations
- The links to volunteer and third sector projects were very well received

**ACTION:** Partners to follow up with any insights that assist the above points

# RESOURCE EXERCISE

**Aim:** Partners to provide a '2020 refresh' of the waste and circular economy resource library, detailing items and topics that should be present.

**Objective:** To brainstorm topics, ideas, suggestions and resources for our waste resource library



What could be missing?

What can I/my organisation offer?



What resources do I/my organisation use regularly?



What should everyone have an understanding of?



Could I recommend any specific resources?

Currently we have **181** waste and resource efficiency resources in the library



# EXERCISE OUTPUT: CIRCULAR ECONOMY

Have previously requested resources and materials on:

- Designing out waste
- Plastic waste streams
- Community Wood Recycling Enterprise – case study
- Construction methods & disassembly at end of life e.g. modular buildings. ‘Deconstruction’ companies rather than ‘demolition’
- Use of BIM for building maintenance and deconstruction
- PQQ process – examples of case studies around CE
- Innovation in materials
- Material/company CE ratings: cradle to cradle (C2C); Ellen MacArthur circularity toolkit
- Library/matrix of alternative materials
- Workshops & e-learning for design teams
- Draft London Plan circular economy statement
- Case studies of builds using recycled materials
- ‘Library’ of companies who will accept materials
- Take-back schemes: highlight and communicate these including due diligence and storage regulations, requirements and legislation
- Case studies of engaging contractors earlier in the design stage; specifically during the planning, design, specification and procurement stages.
- Reducing options for non-recyclable materials (e.g. banning plastic straws so only paper/no straw options)

# EXERCISE OUTPUT: FACILITIES MANAGEMENT

- The benefits of good facilities management
  - 'Green gas' to power homes
  - ORCA – food waste disposal
- Training for procurement teams in FM
  - Matrices of sustainable alternatives
  - Full lifecycle: embodied to disposal (e.g. vegware disposal: if a new waste is created, need to have the correct waste disposal stream)
- Case study template
- Electrical waste recycling streams and schemes (local and national)
- Procurement specifications for waste – how to influence behaviours
- Regular training specific to cleaning teams
- Mapping process for local regional facilities
- Fluorinated gases regulations; refrigeration gases and air conditioning emissions

# EXERCISE OUTPUT: REGULATIONS

Have previously requested resources and materials on:

- Waste transfer notes
  - Codes of practice
  - Duty of care
  - Segregation of materials onsite
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- Clear examples of waste transfer notes, as well as good and bad examples.
  - Soils: testing processes and requirements as well as what can or can't be transferred and reused
  - Waste donor & receiver regulations and legislation
  - WEEE regulations overview
  - Beginner's guide to waste regulations
    - Flow chart examples
    - Crib sheets (beginner resources for operatives at site-level)
  - Regular regulation updates: ensure SCSS users are aware if there are any changes
  - Duty of care basics
  - Waste exemptions and responsibilities e.g. transport of waste plasterboard to NGO, where there is a clear link to social value
  - Liabilities
  - Guides for principal contractors on how to manage and plan for sub-contractor waste streams
    - Integrated site/project waste segregation and management
  - Q-flow (Canary Wharf Contractors case study of automated WTNs): bringing waste transfer notes back to the producer
  - BIM to help pre-plan the logistics of bin segregation

# EXERCISE OUTPUT: STRATEGIES AND GUIDELINES

- Strategies for managing waste streams with respect to road planings
- CL:aire code of practice – simple steps/overview
- Quality protocol for aggregates
  - British European Standards for Materials
  - FCPs (Forward Commitment Procurement)
- Visual diagrams of strategies and guidelines
  - Flow chart diagrams
- Early stage guidance – what to be aware of – e.g. CL:aire, permits etc.
- Guidance as to what is relevant at different phases
- Example SWMPs, RMPs and DWMP
- Lessons learnt feedback
- Linking BIM to waste predictions
- Highlight networks, take-back schemes etc.
- Whole life cost of carbon – LETI guidance on embodied carbon
- Toolkits for certification standards e.g. BREEAM
- Integration of waste management companies – audit and review
- EA Position Statements – including how and where to find them
- Targets and benchmarks
  - Examples for different audiences
  - How to set useful targets
- A simple summary/overview of relevant strategies and guidelines to simplify the process for users and to increase understanding

# Waste and Resource Use Category Group: *Business Plan for 2020-21*

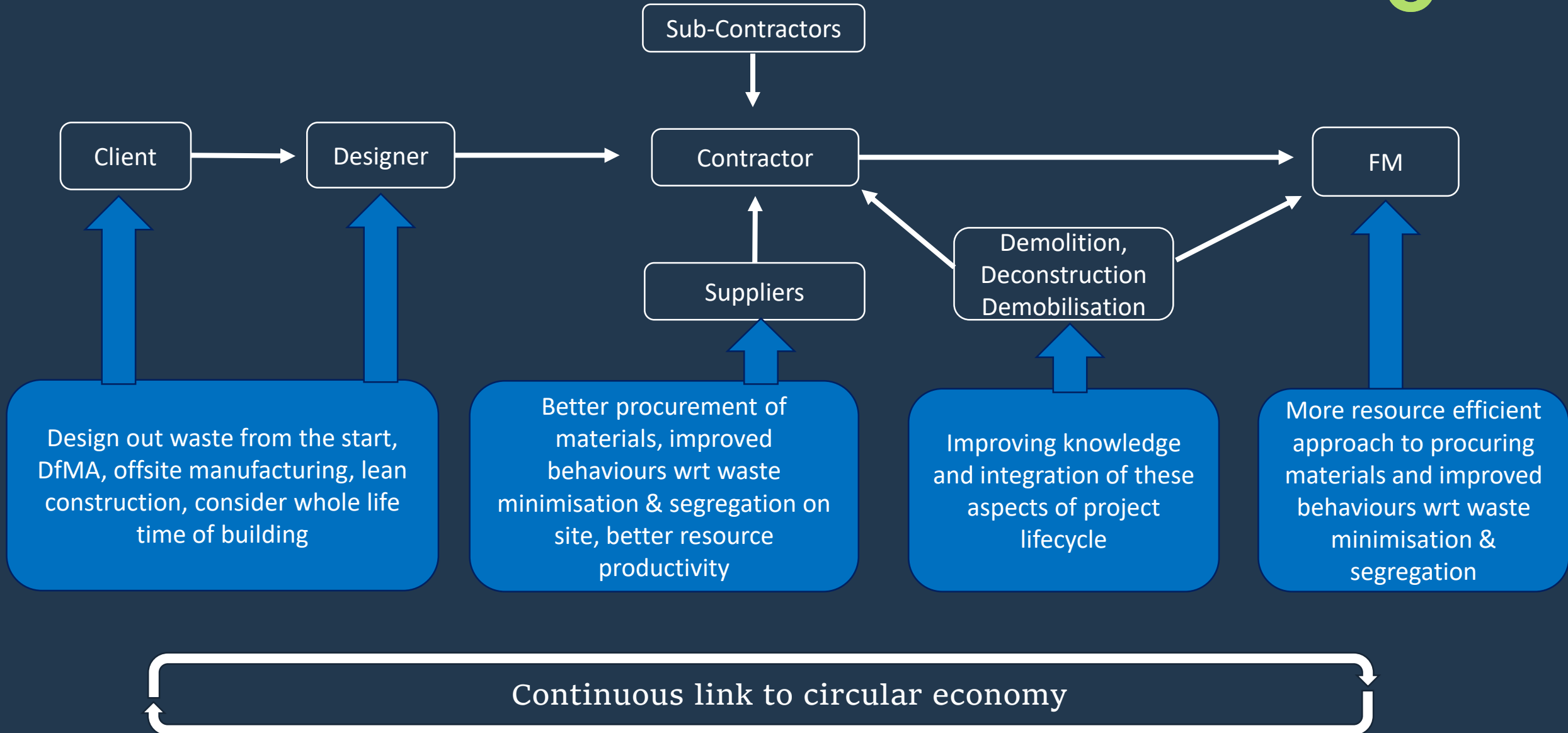
Mark Turner, 3<sup>rd</sup> Feb 2020



## Terms of Reference: Objectives

- Address the challenges of delivering effective waste management and more efficient treatment of resources across the whole built environment
- Adopt three main areas of focus, these to run concurrently according to opportunity and need assisting all actors within the built environment value chain:
  - Mapping and materials development – to include development of user friendly materials addressing waste compliance, site practice, and adoption of the circular economy
  - Procurement and supply chain engagement - engaging the wider value chain from clients to contractors as well as other stakeholders including suppliers and manufacturers – develop an Ambassador network
  - Measurement and reporting - demonstrating change over time by development of a roadmap / maturity matrix and associated KPIs
- Collaborate effectively with relevant built environment stakeholders to ensure best learning outcomes and use of School's resources.

# INTERVENTION POINTS



# Terms of Reference: Outputs achieved or in development

- Summary of all significant waste and resource efficiency initiatives developed – complete, live document to be kept updated
- Ownership and development of School web landing pages
- Survey of School membership to ascertain the waste and resource efficiency support and resources they would find most useful and effective - complete
- Summary of all current Material Exchange Platforms - complete, work is in progress supported by Skanska to now develop this into a live searchable map
- Forum provided for School Partners, manufacturers, suppliers and other stakeholders to present on key issues of benefit – includes to date;
  - Mathias and Sons - reducing single use plastic packaging
  - Neverwaste – new recycled content board to replace MDF
  - Protec – successful circular business model for Proplex product
  - National Grid – Saving Evie’s Whale – summary of their successful in house plastics reduction campaign
  - Valpak - measurement and management of plastics waste
- Structured online survey of current practice in treatment of waste plastics - in partnership with UKGBC and Zero Waste Scotland – in development . At present there is very little publicly available statistical or even anecdotal built environment industry evidence of practice and performance in treatment of waste plastics
- Detailed collaborative survey of practice in plastics waste segregation and treatment within Homes/Fit Out markets in Scotland – in development/proposal stage with support from ZWS and Valpak. Potential collaborating School and external Partners include Morgan Sindall, Bellway, Barratt, Taylor Wimpey, and Multiplex. Project will also link with School Homes Group.



# Prospective Actions

## ICE OPPORTUNITY

- Coordination with other initiatives
- Resource management
- Circular economy
- Plastic packaging

## ZERO WASTE SCOTLAND SURVEY

- Review of practice and performance around plastic packaging in Scotland
- Project life cycle and procurement focus
- Focus on homes and fit-out

## PROCUREMENT AND SUPPLY CHAIN ENGAGEMENT

- **Now is the time to start bringing in procurement and supply chain engagement (as per the original 3 strands)**
  - *How we can combine and be consistent on packaging requirements, off the back of the surveys and data collection?*
  - *Consideration of impending changes in legislation and taxes on plastics?*
  - *What other key procurement questions should we be asking?*

## NEXT MEETING

To be held 10:00-13:00 Wednesday 13<sup>th</sup> May, Bouygues offices, London.



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