Tim Reid
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• Data analysis and modelling
• Markets analysis and forecasting
• Collaborative research
• Strategic advisory
Waste data applications

- Performance benchmarking
  - Waste Composition

- Policy & Strategy
  - Deposit Return Scheme
  - Residual Waste Capacity

- Procurement
  - Market analysis
  - Due Diligence

Source: Zero Waste Scotland
Site return data: applications

- DMR Reprocessing: Business Models, Economics and Investment Opportunities
  - Quantification of key DMR materials available to potential Scottish re-processors
  - Value chain mapping
- Impact of China Import Restrictions on Scottish Paper and Plastic Market
  - Assessment of Scottish market
  - Impact of reduction in demand

Source: SEPA
Site return data: limitations

- Availability of data
  - Permitted sites only
  - Site inputs and outputs only
- EWCs
  - Insufficient nuance (e.g. DMR, paper & card, 20 03 01, 19 12 12, etc.)
  - What is commercial waste?
  - No indicator of grade or quality
- Application
  - Double counting
  - Coding (and on-site transformations)
  - Understanding of end-of-waste criteria
  - Regulatory, not market, data
  - Communication with other data sets (e.g. WDF, WDI, etc.)
# EWC codes

<table>
<thead>
<tr>
<th>Material</th>
<th>EWC code</th>
<th>EWC description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper and cardboard</td>
<td>15 01 01</td>
<td>paper and cardboard packaging</td>
<td></td>
</tr>
<tr>
<td></td>
<td>19 12 01</td>
<td>paper and cardboard</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20 01 01</td>
<td>paper and cardboard</td>
<td></td>
</tr>
<tr>
<td>Plastics</td>
<td>02 01 04</td>
<td>waste plastics (except packaging)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>07 02 13</td>
<td>waste plastic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 01 02</td>
<td>plastic packaging</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16 01 19</td>
<td>plastic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17 02 03</td>
<td>plastic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>19 12 04</td>
<td>plastic and rubber</td>
<td>Includes rubber and non-packaging plastic.</td>
</tr>
<tr>
<td></td>
<td>20 01 39</td>
<td>Plastics</td>
<td>May contain non-packaging plastics</td>
</tr>
<tr>
<td>Mixed</td>
<td>15 01 06</td>
<td>mixed packaging</td>
<td>Can be used for co-mingled DMR (uncertainty w.r.t. glass and paper)</td>
</tr>
<tr>
<td></td>
<td>20 03 01</td>
<td>mixed municipal waste</td>
<td>Used for kerbside residual waste, DMR and Recycling Centre residual waste from both household and commercial sources, and sometimes used for rejects from a sorting process</td>
</tr>
</tbody>
</table>
Waste data wish list

- Waste tracked into and out of exempt sites
- A standardised nomenclature for more nuanced material categories
- Account taken of on-site transformations between EWC chapters
- Industry-wide understanding of end-of-waste criteria (and hence, more accurate and consistent regulatory submissions)
- A harmonised UK-wide register of all waste destinations
  - Re-coded waste facilities / permits for activities
- Carrier's licence number for consignments
- A codeless submissions portal
- Nested EWC codes, including quality and composition
- Harmonisation of site return and WDF submissions process
  - Identifiable LA tonnage
  - Detailed destination information
Thank you

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