ELLEN MACARTHUR FOUNDATION
Rethink the future
THE GROWING GAP OIL, DISCOVERY AND PRODUCTION

BILLION BARRELS OF OIL PER YEAR (Gb/a)

PAST DISCOVERY
FUTURE DISCOVERY
PRODUCTION

PAST DISCOVERY BASED ON EXXONMOBIL (2002) REVISIONS BACKDATED ROUNDED WITH A 3 YEAR MOVING AVERAGE
RAW MATERIALS

How many years left?

If we consumed at today's rate

If we consumed at ½ the USA rate

Source: infographics blog
Founding Principles

RAW MATERIALS

How many years left?

- If we consumed at today's rate
- If we consumed at ½ the USA rate

<table>
<thead>
<tr>
<th>Raw Material</th>
<th>Years at Today's Rate</th>
<th>Years at ½ USA Rate</th>
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<tbody>
<tr>
<td>Phosphorus</td>
<td>142</td>
<td>345</td>
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<tr>
<td>Platinum</td>
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<td>360</td>
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<tr>
<td>Silver</td>
<td>29</td>
<td>9</td>
</tr>
<tr>
<td>Tantalum</td>
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<td>20</td>
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<tr>
<td>Tin</td>
<td>40</td>
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<tr>
<td>Uranium</td>
<td>59</td>
<td>19</td>
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<tr>
<td>Zinc</td>
<td>46</td>
<td>34</td>
</tr>
</tbody>
</table>

Source: infographics blog
Population, water use, motor vehicles, GDP, fisheries exploitation...

THE CIRCULAR ECONOMY

NATURAL CAPITAL

ENERGY

MAKE

BIOLOGICAL NUTRIENT

TECHNICAL NUTRIENT

CONSUMER

USERS

LOST

WASTE

RENT OR LEASE

UPCYCLE

QUALITY MATERIAL RECOVERY

BACTERIA/FUNGHI

BUILD NATURAL CAPITAL

ELLEN MACARTHUR FOUNDATION
'Design for disassembly'
<table>
<thead>
<tr>
<th>Founding Principles</th>
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<tbody>
<tr>
<td>Waste is food</td>
</tr>
<tr>
<td>Diversity is strength</td>
</tr>
<tr>
<td>Energy must come from renewable sources</td>
</tr>
<tr>
<td>Prices must tell the truth</td>
</tr>
<tr>
<td>Thinking in terms of systems is key</td>
</tr>
</tbody>
</table>
FIGURE 6 The circular economy—an industrial system that is restorative by design

1 Hunting and fishing
2 Can take both post-harvest and post-consumer waste as an input

Source: Ellen MacArthur Foundation circular economy team
FIGURE 9 Cascading keeps materials in circulation for longer—textile example

1 Furniture stuffing material can be reused several times
2 Examples of reuse include donation, exchange, resale

Source: Ellen MacArthur Foundation circular economy team
Video
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