



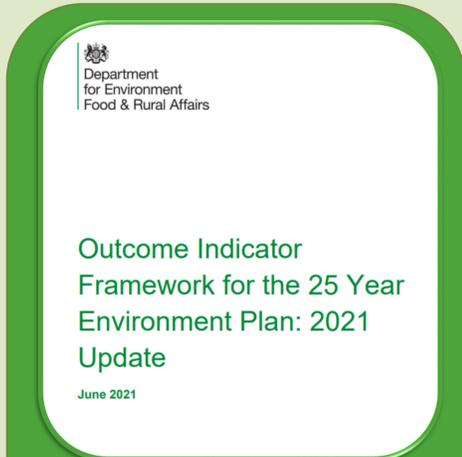
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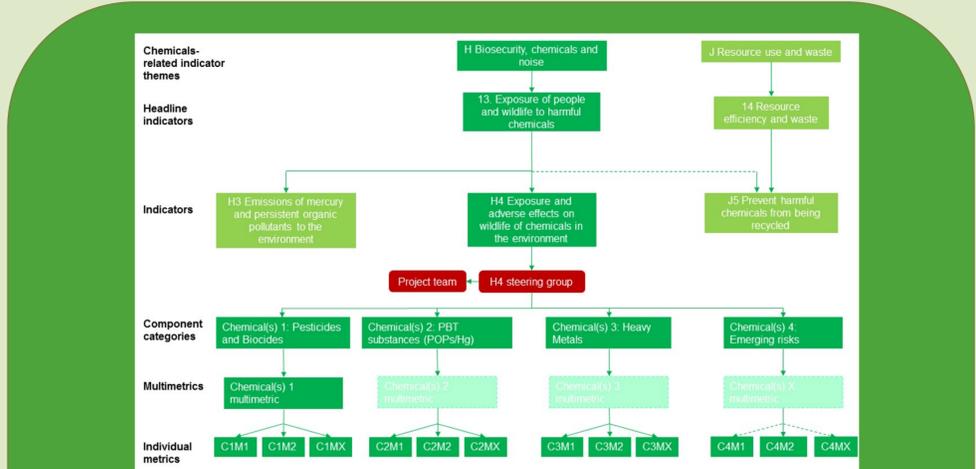
The UK Government's 25-Year Environment Plan was published in 2018 and one of the goals within the plan is 'managing exposure to chemicals'. To assist the monitoring of progress against commitments within the plan Defra established a suite of indicators under an Outcome Indicator Framework. Within the suite is the H4 indicator "Exposure and adverse effects of chemicals on wildlife in the environment" which aims to show how exposure of wildlife to harmful chemicals is changing and to see impacts over time.



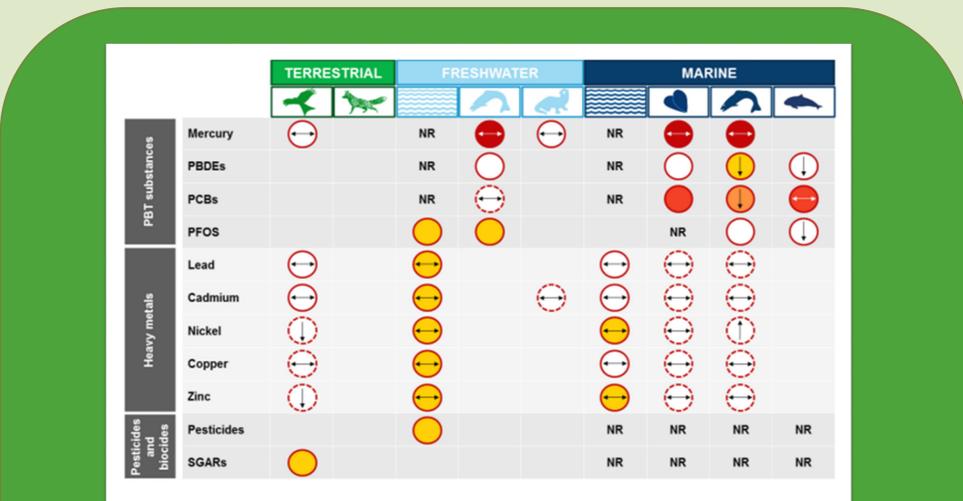
**1.** The UKGov document "A Green Future: Our 25 Year Plan to Improve the Environment" sets out 10 goals for improving our environment.



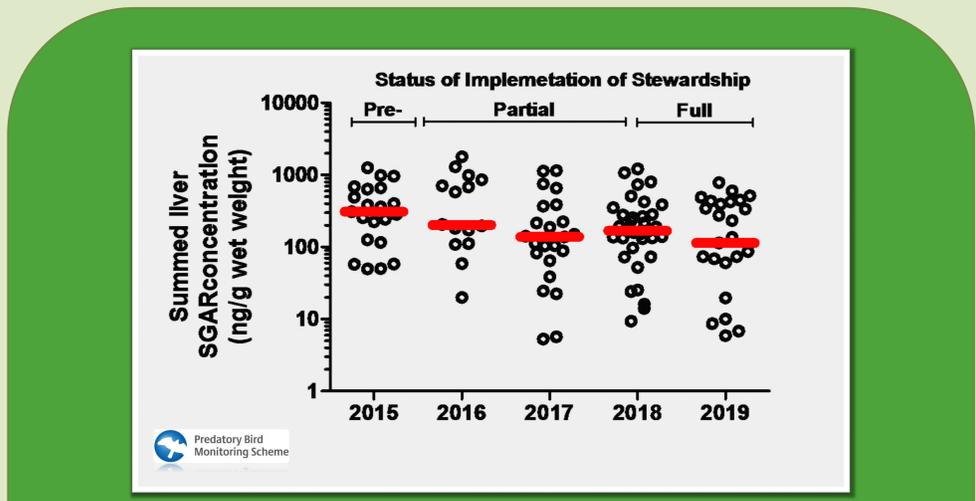
**2.** To assist implementation of the 25 Year Plan the Defra 'Outcome Indicator Framework' identifies 45 indicators of success.



**3.** The structure of the Outcome Indicator Framework, focussing on success indicator H4 'Exposure and adverse effects on wildlife of chemicals in the environment'. UKCEH has representatives on working groups for all component categories.



**4.** UKCEH has led in the development of a dashboard to represent the status and trends in contaminant exposure and effects. The terrestrial environment is currently under represented and some UKCEH monitoring platforms will be expanded to begin to fill these gaps.



**5.** The Predatory Bird Monitoring Scheme measures rodenticides in red kites. This is an example of UKCEH monitoring data that is being used in the dashboard. The data is also used by UK government to assess performance of stewardship to reduce wildlife exposure to rodenticides.

### Development Needs

**UKCEH will, as part of H4 monitoring:**

- ❖ Expand monitoring programmes to begin to fill data gaps
- ❖ Develop approaches to assess impacts of and within chemical class mixtures
- ❖ Harmonise statistical methods to enable the design of cost-effective monitoring programmes
- ❖ Develop approaches to identify chemicals of emerging concern
- ❖ Assess critical residues associated with effects in individuals or populations

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<p><b>Receptors</b></p> <p>Soils  <small>Achieving Sustainable Agricultural Systems</small></p> <p>Predatory Birds </p> <p>Honey </p>	<p><b>Pollutants</b></p> <ul style="list-style-type: none"> <li>❖ Per-Fluorinated compounds (PFAS)</li> <li>❖ Pesticides &amp; Biocides</li> <li>❖ Persistent, Bioaccumulative, and Toxic chemicals (e.g. flame retardants)</li> <li>❖ Metals</li> </ul>
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Receptors and pollutants monitored by some UKCEH monitoring platforms