



ComplianceMap

Your Environmental Partner



Circular Economy & Extended Producer Responsibility



Supply Chain Transparency



Chemical Management



Sustainability



Global RoHS, REACH, Prop65



Circular Economy, Extended Producer Responsibility, WEEE, Packaging, Batteries



Supply Chain Assessment & Origin Determination



Risk Management and Analytics



Conflict Minerals

Bicester Innovation Centre,
Telford Rd, Bicester, OX26 4LD.
T: +44 1869 328 944

2443 Fillmore St # 380-3154,
San Francisco, CA 94115.
T: (800) 450-2403



Next Generation Compliance and Supply Chain Platform

The Compliance Map are developers of solutions to help businesses manage all areas of environmental compliance (such as RoHS, REACH, Prop65, WEEE, Packaging, Batteries) and Supply Chain Management relating to Conflict Minerals, Origin Determination, Supply Chain Transparency (Forced Labor) and Sustainability. We provide a “1 stop shop”, single platform to automate and manage your obligations and due diligence processes.



Intelligent, all-in-one
environmental compliance solutions
to drive all of your regulatory obligations

<https://www.thecompliancemap.com>





Extended Producer Responsibility

WEEE, Packaging, Batteries, Sharps, Oil, Beverage & Tires

What is the challenge



The Extended Producer Responsibility (EPR) strategy is to associate environmental impacts of products in each stage of their lifecycle from cradle to grave and aims to reduce both the environmental and societal effects of product waste and packaging. Global Packaging, WEEE and Battery directives concern the identification of this waste placed on the market and through reporting and fee paying of this waste, fund recycling initiatives to meet environmental targets.

A major challenge to complying with EPR directives is that each state and scheme have different tariffs,

reporting requirements, fee structures and schedules to comply against.

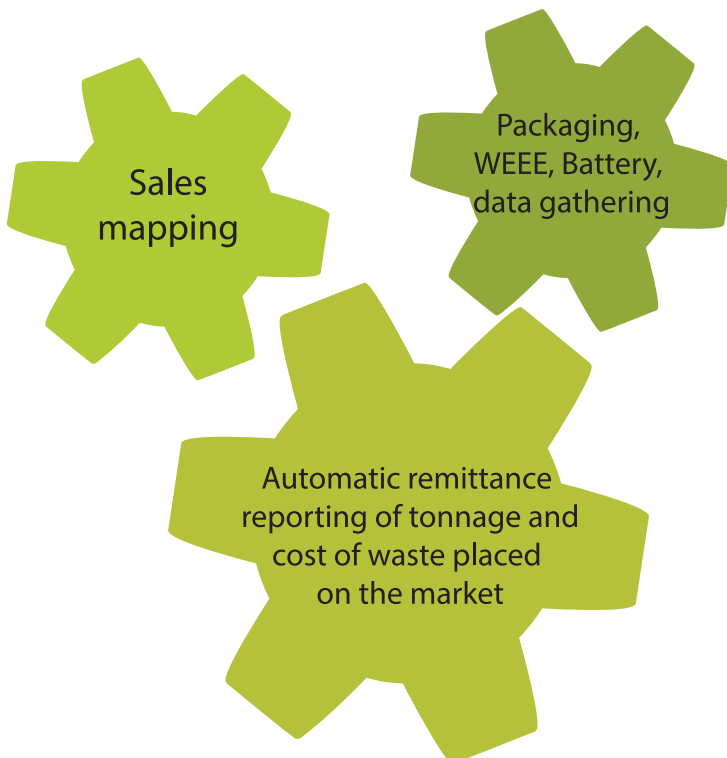
Why choose us



To reduce the significant cost and resources of managing EPR obligations, Compliance Map Enterprise offers a robust and automatic solution to build and publish scheme reports each month, quarter and year of the waste placed on the market with little to no user intervention needed. Combined with our Data Exchange solutions, Compliance Map provides you with a complete product environmental compliance solution.

Features of our Product Stewardship EPR module include:

- ✓ Automatic building of WEEE / Packaging / Battery / Oil / Paint / Beverage / Sharp reports in the format of your registered scheme. Schemes from all countries are supported from Stewardship Ontario to Eco-Emballages.
- ✓ Automatic mapping of sales data from your source systems with product data to produce WEEE reports
- ✓ Compliance Map monitors all of your registered schemes and delivers changes to forms, tariffs, reporting schedules automatically and notifies you of these changes
- ✓ Data Collection Solutions to gather packaging information from your supply chain and merge with SKUs/products for report production





Global Reporting Initiative

Sustainability, Labor Rights and environmental reporting

Many organizations are currently reporting on corporate social responsibility through voluntary standards including the Global Reporting Initiative (GRI). These standards provide guidelines and help businesses to understand and communicate issues such as climate change, sustainability, human right and corruption.

From 2017, certain large companies across the EU will be required to report on environmental impacts, human rights and corruption under Directive 2014/95/EU.

How can Compliance Map help



The Compliance Map Enterprise platform is designed from the ground up to collect, calculate and report compliance and sustainability data for publication in annual and financial reports in accordance with GRI guidelines. This includes automatic reporting and data crunching for:

- ✓ Efforts in complying with human trafficking legislation
- ✓ Environmental performance in relation to Compliance due diligence in relation to material compliance such as RoHS, REACH, Prop65, etc...
- ✓ End of Life Waste management and efforts to reduce waste, such as Packaging, WEEE and batteries
- ✓ Survey reports and results for supply chain performance in meeting environmental and labor rights

All outputs produced provide clear traceability and audit-ability of data, allowing for automation of many reporting items.

Compliance Map helps to clearly identify business' due diligence and efforts in product stewardship, but also its understanding of itself as global citizen with a shared responsibility for improving the health and wellbeing of people and the environment.





Circular Economy Module

The global economy has been built on a linear model of make, use and dispose, which relies on an abundance of cheap materials and natural resources. This model is inherently unsustainable and is reaching its physical limits as demand for goods increases. The circular economy provides an alternative in which goods are kept in use as long as possible, used to their optimal value and then reused as components or materials in new products.

What is the Challenge ?

The adoption of a circular economy business model is an opportunity for industry to reduce costs, improve productivity and build resilience against resource scarcity and volatile, rising prices. Increasing material productivity through continual reuse of products, components and resources is economically viable and scalable for diverse products regardless of service life.

Innovative companies are designing products for regeneration. This includes using renewable energy, removing toxicity and optimizing reuse. They are also leasing, renting and sharing durable goods or providing incentives to ensure their return at the end of each individual product's life.

The key challenges are identifying circular economy opportunities and measuring the impact of their adoption throughout the product lifecycle.

How can Compliance Map help ?

Evaluating product design in a circular economy context requires the identification of existing and potential material loops and the quantities and qualities of resource inputs and waste.

The Compliance Map platform can support this evaluation in a number of ways:

Track design changes and review cycles

The evaluation of product design can be time-dated and any documentation stored for review. Managers can monitor innovation and identify key areas for improvement.

Verdicts on key circular economy indicators

The solution returns verdicts on a range of design for environment parameters including reuse opportunity, ease of disassembly and repair, modularity, durability and recyclability. The quantity and use of virgin, reused and recycled materials is rolled up through the BOM based on different material types.

It also integrates with other Compliance Map modules to:

- indicate the presence of toxic substances which can impede material recovery
- track the use of renewable energy used in the manufacturing process



- monitor energy and water use as well as greenhouse gas emissions
- quantify packaging materials and their recyclability
- determine weights of waste subject to extended producer responsibility legislation e.g. Waste Electrical and Electronic equipment (WEEE), Batteries, Oil, Paint and Beverage containers

The module also integrates with sales and return logistics data to monitor parameters such as % products leased, return incentives and % products recovered.

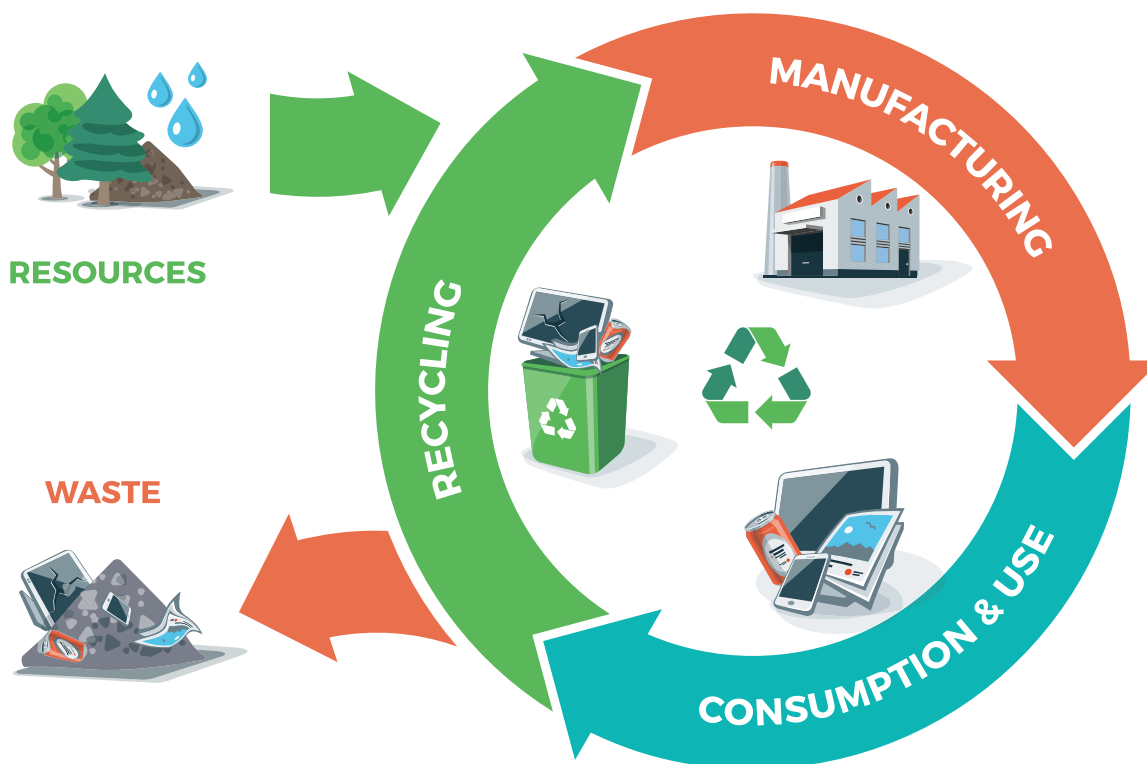
Data gathering and reporting

Information regarding the use and reuse of materials, components and products can be requested from your supply chain using the Data Exchange Manager. Any associations identified between resource providers, including recovery organizations and recyclers can be mapped against the product BOM.

This information can be easily integrated with other sources of product lifecycle data into the module.

Users can customize reports to show how circular economy features currently operate for their products and identify potential collaborations to establish additional material loops.

CIRCULAR ECONOMY





Enforcement of the WEEE Directive: a case for compliance ?

Of all the many topics we are asked about, enforcement is of most concern to companies who do not have a comprehensive compliance management system in place. They are keen to evaluate the risk of prosecution for potential compliance breaches against the costs of changing their current practices, but many fail to recognise the opportunities that an effective compliance system offers. In respect of compliance with the Waste Electrical and Electronic Equipment (WEEE) Directive, although the risk of enforcement may be considered low, companies who meet its requirements can not only reduce costs but also access alternate revenue streams.

The WEEE Directive aims to prevent electronic waste and promote its reuse, recovery and recycling as well as improve the environmental performance of all operators involved in the product lifecycle. For manufacturers and distributors of electrical and electronic equipment (EEE) this means designing and labelling products to facilitate recycling and reuse of components and materials; financing the collection, treatment, recovery and environmentally sound disposal of their products and providing free take back of WEEE. Implementation and enforcement of the WEEE Directive varies between EU Member States. In the UK, the requirements have been transposed into The Waste Electrical and Electronic Equipment Regulations 2013 as amended. Brandholders, importers and distance sellers are required to register as producers and, if placing more than 5 tonnes of EEE on the market annually, join a producer compliance scheme to finance collection, recovery and recycling. Joining a compliance scheme requires reporting of

EEE placed on the market and payment of fees based on the reported weight of EEE. Producers must also mark products with the crossed out wheeled bin symbol and a date mark and provide information on reuse and treatment of waste products and components. Distributors of EEE are required to take back WEEE free of charge in-store or join the Distributor Take Back Scheme (DTS).

Enforcement of the registration, reporting, recovery and recycling provisions is by the Environment Agency. Only two enforcement actions for WEEE are recorded on the Environment Agency public register. The most recent of which was a case in August 2015, where an online company was fined £14,000 for non-compliance with the WEEE regulations.

Enforcement of the product labelling and take back provisions was historically the duty of the Vehicle Certification Agency, who were active in undertaking store inspections. Their approach was to inspect stores to identify compliance levels, carry out formal enforcement inspections on those with poor performance, work with distributors to achieve compliance and issue formal enforcement notices on distributors who failed to do so. Between April 2014 and March 2015, 3,224 inspections were undertaken, five enforcement notices were issued and all companies complied, avoiding potential prosecution. In 2015, responsibility for enforcement of these provisions was handed over to the National Measurement and Regulation Office. No enforcement statistics or incidents have since been published but the enforcement approach and level of enforcement



activity is unlikely to change. Although the WEEE regulations allow for fines up to £5,000 at a magistrates court (unlimited from a Crown Court), due to the administrative burden, inspections and issuing of warning letters are likely to remain the preferred method of enforcement.

A recent update on enforcement of the WEEE regulations in Ireland suggests a similarly participatory approach. In 2015, 60 audits were carried out on B2B producers, 102 on retailers and 80 on distance sellers and instructions given on necessary compliance actions to be taken. 30 out of 32 non-compliant B2B producers, 50 out of 81 non-compliant retailers and 11 out of 80 non-compliant distance sellers were subsequently reassessed as compliant.

Although the risk of enforcement may appear weak, conformity with the WEEE Directive's design requirements supports product innovation and reduces costs. For example, reducing the size and weight of EEE not only reduces material costs and weight-based compliance costs, but it also reduces transport costs in terms of the number of products that can be transported per load and the fuel consumption per product transported.

The reuse of working components and use of recycled materials from WEEE including graphite, cobalt, antimony, tantalum, silver, gold, platinum, copper and aluminium, as opposed to using virgin materials, also represents costs savings to producers and mitigates risk of supply chain disruption as a result of resource scarcity. Components and materials can be recycled back into inputs for new EEE or sold for other uses. It is therefore important to design products to facilitate component and material extraction.

Distributors with significant quantities of WEEE can also access gate-fees by Approved Authorised Treatment Facilities and receive revenues from selling evidence to Producer Compliance Schemes. Distributors who are also producers can also use the collection of WEEE in-store to offset their compliance scheme fees. In 2013, an economic assessment by the UK Department for Business, Innovation and Skills estimated total revenues to distributors over 10 years at £67m.

In order for producers of EEE to realise the benefits of reuse and recycling, they must have a system in place to identify components and materials in their products which can currently be or have the potential to be reused and recycled and implement design innovations. Distributors must also collaborate with producers, the waste industry and government to improve the collection and reprocessing of WEEE to maximise economic returns.

The EU has committed significant funds to support reuse and recycling as part of the EU circular economy strategy, which was released in December 2015. This includes over €650 million to its research and innovation financing programme, Horizon 2020. The European Commission is also funding a €2.1 million project to demonstrate innovative new methods to enable the recovery of critical raw materials from WEEE.

The UK's enforcement of the WEEE Directive does not appear to represent a strong case for compliance, but a company with an effective WEEE compliance system can identify opportunities for innovation that as well as reducing costs can access recycling markets and government funding.






About the Compliance Map Platform


Services


The Compliance Map offers a unique service to allow companies to manage their regulatory and business obligations in the world of compliance. Our platform tracks compliance directives and visualizes the impact based on your data, providing you with a global, easily digestible understanding of your compliance exposure using reporting and process tools to take the next step in managing your regulatory responsibilities. The different areas that may be affecting you could range from substance control directives such as RoHS & REACH, EPR (Packaging, WEEE, Battery), Fee Paying directives to Conflict Minerals, Carbon foot printing, MDD and much more.....


Software Solution Features


Compliance Map Enterprise includes full support for ERP integration (Oracle/Agile, SAP, PTC, and more..) and facilitates the roll-up and reporting of regulatory compliance indicators. To assist the reporting requirements of Fee paying directives, integration with data warehouses for the purpose of sales mapping is also automated.


 The BOM & preparation module synchronizes product, part and AVL/AML level Bill of Material data with the Compliance Map system to enable the roll-up of compliance verdicts for RoHS, REACH, Phthalates, Low Halogen, etc... Manual data entry is also provided should this information be missing from source systems.

 Compliance Map supports all major PLM/ERP systems and offers a bi-directional interface for the transmission of Sales/BOM/AML/Vendor information as well as reporting back compliance calculations.

 Build packaging, WEEE, Battery and fee paying reports automatically. The Compliance Map will combine Sales data mirrored from your ERP/warehousing systems with BOM data to produce remittance forms and reports. Production of these reports are automatically scheduled and results archived to meet regulatory requirements.

 Customize your due diligence process by implementing the lifecycle management module. Mark components for inspection and obsolescence and flag items requiring more data. You can also track parts based on completeness of information and mark suspect data sources along with visualizing your data through compliance analytics.

 The Compliance Map can automatically build data collection forms, meeting your corporate standards and collection strategy for substance & CoC/FMD information gathering and publish by email, FTP or web services to your suppliers. Leverage data collection statistics and reminders/escalations to manage your data collection campaign with ease with full support for industry standards (such as IPC1752A, IEC 62474, EICC CMRT).

 Compile checklists and due diligence processes



using the Compliance Map Process Manager. Ideal for new product introductions or simply verifying the steps required to identify a cost effective packaging system.

reporting deadlines, expiration of RoHS exemptions and official timetables for enactment of new directives and regulations. All events can be synchronized to your mail client, such as Outlook

☞ Access a complete list of reporting deadlines and regulatory milestones within the Compliance Calendar. Included as part of the calendar is a breakdown of extended producer responsibility

A modular design

There is no need to address all areas of environmental compliance and supply chain initiatives at once. Simply pick and choose the areas of compliance based on your most urgent requirements with the flexibility to expand at the most convenient time for you.





About the Compliance Map Team

We are a team of regulatory compliance experts specializing in business process re-engineering and information systems implementation. Our 20+ years in the arena of environmental compliance has been fed into our software solution platform, creating a holistic approach to managing obligations businesses face in today's regulatory climate.

Our Compliance Map solution range offers services suited to any organization size (from SME to large corporations) requiring anything from a knowledge-base of current compliance details in the world of regulations to an enterprise wide solution managing due diligence and mission critical integration of obligation impacts into the organization. Our aim is to assist in your search for compliance information around the world and software systems to allow you to stay one step ahead of your competitors. We understand the fast paced nature of regulatory proliferation and seek to make our services part of your core competency and competitive edge. The sophisticated technology behind the Compliance Map Enterprise service extends the solution offering

into your business allowing you to manage roll-ups of compliance verdicts in your bill-of-materials, automate data collection from your supply chain, measurements of KPIs, and much more. Whether you are looking for a solution to stay on top of obligations for RoHS, REACH, EPR, Conflict Minerals, Carbon reporting or wish to pro-actively remain ahead of emerging legislation, our solution is here to help you.





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