

# INNOVATION IN CHEMISTRY: CONTRIBUTING TO SUSTAINABLE DEVELOPMENT GOALS AGENDA IN THE CHEMICAL INDUSTRY:

*Ann Dierckx – Director Sustainability  
Suschem ES – Asamblea General 2020*



# Cefic: The voice of the chemical industry in Europe



- Based in Brussels since 1972
- Representing 29,000 large, medium and small chemical companies in Europe – 1.2 million jobs – 14,7% of world chemicals production
- We interact every day on behalf of our members with international and EU institutions, non-governmental organisations, the international media and other stakeholders
- Close cooperation with the other regions in the world through ICCA

# Cefic walks the sustainability talk



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## TEAMING UP FOR A SUSTAINABLE EUROPE

### CEFIC SUSTAINABILITY CHARTER

This Charter marks a step change in the commitment of Cefic to enable a more sustainable society, building on the Responsible Care Programme and the 2012 Sustainable Development Vision. Highlighting the role of the European chemical industry and Cefic as the related European industry association, it lays out key strategies in areas that are critical to progress in Sustainable Development and to competitiveness. For us, sustainability is business and business is sustainability. The Charter follows our understanding of Sustainable Development as encompassing economic, environmental and social aspects which all need to be addressed simultaneously.

#### The role of the European chemical industry

The European chemical industry as "the industry of industries" is a key player in the enabling of a projected 10 billion people's access to decent living standards within the boundaries of our planet.

#### The European chemical industry

- seeks long-term economic success by integrating all aspects of sustainability – economic, environmental and social – into business strategies.
- enables transformation required in end markets segments e.g. buildings and infrastructure, transport and mobility, consumer goods, nutrition, health and personal care.
- promotes sound and effective business collaborations over and across entire value chains to advance new solutions.
- responds to a society in transition by innovating, designing and offering sustainable products and sound science based solutions.
- operates in a safe way protecting people, the environment and the ecosystems around the world.
- provides safe and decent working conditions and high quality jobs.
- collaborates with relevant stakeholders to support sustainable development of European societies.

#### The role of Cefic

- Cefic will support the role of the chemical industry as a solution provider for a society in transition and assumes a leadership role towards a more sustainable future for the European companies it represents. Cefic aims to
- facilitate best practice sharing among its members to support making sustainability an integral part of their corporate strategies.
- encourage collaboration across industries, value chains and stakeholders to identify solutions for a more sustainable society.
- engage with EU policymakers, opinion leaders and stakeholders so that policies leverage the full potential of industries towards a sustainable future.
- broadly share this Charter with members and stakeholders including social partners.
- promote and showcase implementation by members.
- define key sustainability metrics for Cefic and promote their application across Europe.
- assess all Cefic programmes through a lens of sustainability, ensuring that objectives are set consistently strategies are defined and progress is tracked for each of them.

#### Roadmap to progress in Sustainable Development

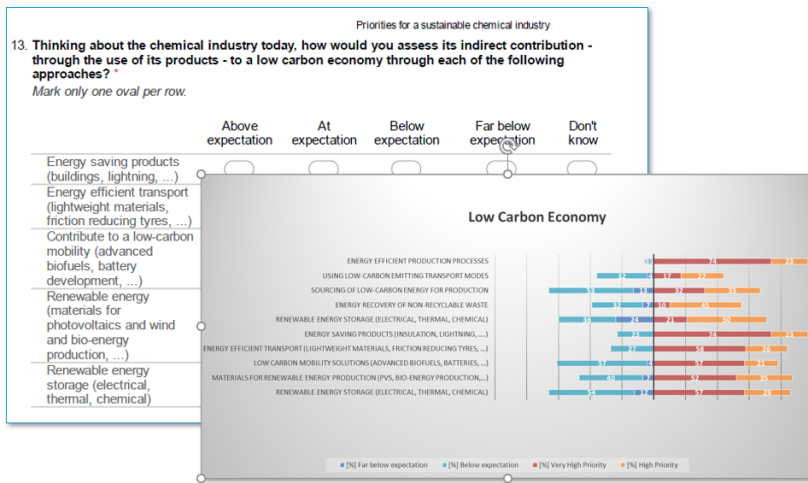


economic, environmental and social value and we are determined to make it happen.

Jean-Pierre Clamadieu  
Cefic President

Marco Meninck  
Cefic Director General

Cefic and its members will drive progress in Sustainable Development in a program way which includes reference with competent law requirements.



# Cefic walks the sustainability talk



# Chemical Sector SDG Roadmap

Overview



A photograph of a bright sun rising over a vast expanse of white clouds, with a clear blue sky above. The sun is positioned in the upper left quadrant, creating a lens flare effect.

# **Business leadership for a sustainable future .**

## **World Business Council for Sustainable Development (WBCSD)**

200 global companies united around a common vision  
creating a world in which over 9 billion people are all living well  
and within planetary boundaries by 2050



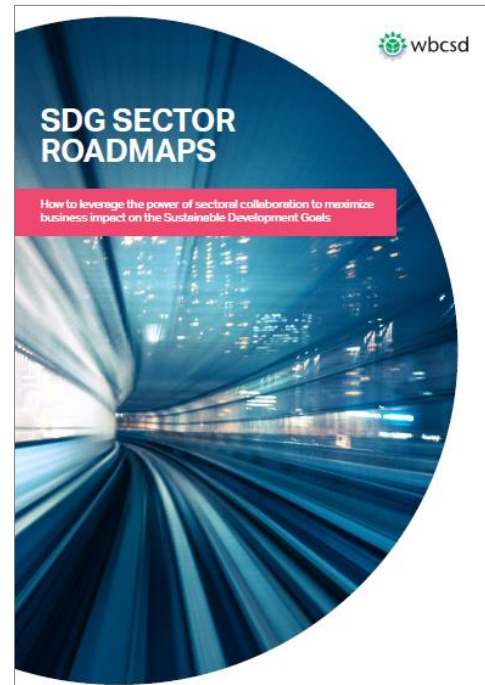
## Introduction

# WBCSD's efforts to making the SDGs actionable for sectors

*“ Players in all sectors will benefit from developing detailed “roadmaps” to guide their sector’s shift to sustainable development in line with the Global Goals.*

”

Business & Sustainable Development  
Commission, 2018

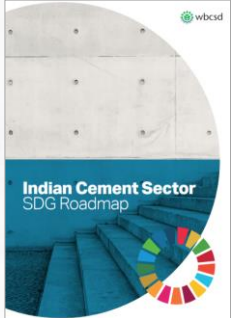


- In April 2018 WBCSD launched a framework for SDG road-mapping which is applicable across industries and geographies
- Collaborative effort with ERM and piloted by WBCSD chemical sector members.

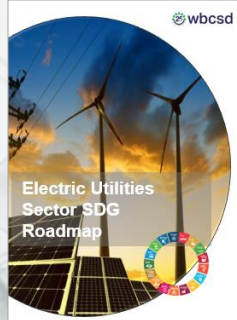
# Introduction

# SDG Sector Roadmaps

Completed



In progress



## SDG Sector Roadmaps

# Vision and platform for **action-focused collaboration**



Enhances license to operate

Helps to manage risks

Explores new growth markets

## Chemical Sector SDG Roadmap

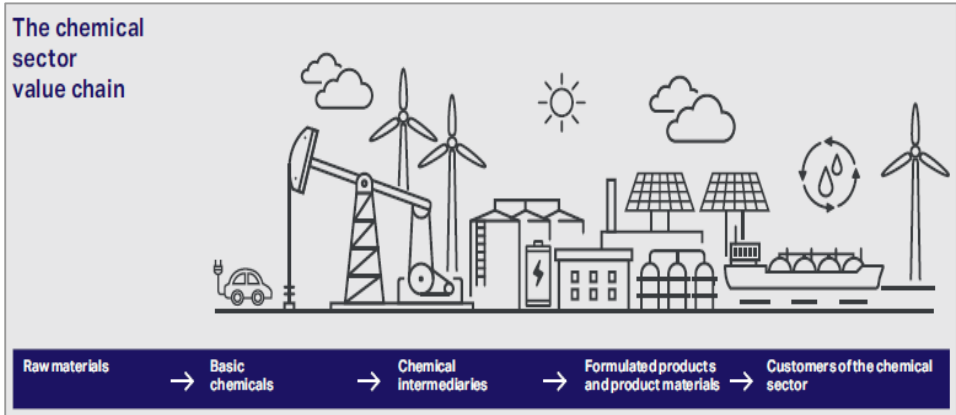
# Chemical Sector SDG Roadmap

- An initiative undertaken by a selection of leading chemical companies and industry associations **to illustrate the potential of the chemical sector to significantly contribute to the SDGs agenda.**
- The Chemical Sector piloted the WBCSD SDG Sector Roadmap Guidelines and launched their own sector roadmap in July 2018 at the High-level Political Forum in New York



## Part One: The Chemical Sector & the SDGs

Opening chapter establishing what the chemical sector is, its history of engaging in sustainability, and how it interacts broadly with each of the 17 SDGs.



### Chemical sector interactions with the SDGs

**1 NO POVERTY**

The chemical sector contributes to economic growth and improvements in the quality of life for people globally. As responsible employers, chemical companies provide living wages and benefits to their employees and uphold their supply chain responsibilities. Through investments and partnerships, chemical companies make a positive contribution to combating poverty by strengthening and revitalizing communities and improving infrastructure. Knowledgeable products directly support affordable and accessible shelter and other basic goods while creating capacity for economic growth in countries most in need.

**3 GOOD HEALTH AND WELL-BEING**

Human health and safety are among the chemical sector's highest priorities. The industry strives to minimize negative health impacts from the exposure to chemicals in the workplace, at home and in the community. Innovation and a commitment to product stewardship have increased the availability of products with health and safety benefits while reducing their environmental footprint. This includes accelerated deployment of best practices in safe production, distribution and management of chemicals in emerging markets through uptake of Responsible Care. In addition, medical breakthroughs and innovative technologies made possible by chemistry provide deeper understanding of the causes of – and better treatments for – medical diseases and ailments, enabling people to live longer and healthier lives.

**4 QUALITY EDUCATION**

Equitable quality education supports economic growth, improved public health and more stable societies. The chemical sector promotes science education through philanthropic investment and specific initiatives that target certain regions or populations, including technical apprenticeships and programs which help improve the professional skills of existing and potential employees.

**2 ZERO HUNGER**

The chemical sector has a key role in supporting a more sustainable food supply that meets the basic nutritional needs of a growing global population. Advances in chemistry help protect plants from pest infestations, improve food distribution channels, extend lifetimes of food and food packaging and maintain food quality and safety. High-yield seeds and fertilizers increase food production and slow soil erosion. Fortified crops and processed foods help combat malnutrition in areas with limited access to healthy foods.

**Case study**

Food Reform for Sustainability and Health (FRoSH) is a joint program between the EAT Foundation and nearly 40 WBCSD companies, designed to accelerate transformation in the global food system. Through jointly created business solutions, it aims to scale new pathways to reach healthy, enjoyable diets for all, produce responsibly within planetary boundaries.

Several WBCSD chemical companies are founding members of the FRoSH initiative highlighting the critical role of the sector in helping to achieve a healthy and sustainable food system.

<http://www.wbcscd.org/Projects/FRoSH>

### Chemical sector interactions with the SDGs

**14 LIFE BELOW WATER**

The chemical sector works with others in the value chain to reduce marine pollution of all kinds, including nutrient pollution and the prevention and reduction of ocean plastic waste.

**Case study**

Operation Clean Sweep (OCS), coordinated by the American Chemistry Council, the Plastics Industry Initiative and Plastics Europe, supports plastic resin handling operations to work towards achieving zero pellet, flake, and powder loss in order to keep plastics out of the marine environment. Many chemical companies have taken the OCS pledge and the program has now developed beyond its origins in the USA and established a significant global reach.

[www.opcleansweep.org](http://www.opcleansweep.org)

**16 PEACE, JUSTICE AND STRONG INSTITUTIONS**

The Gulf Petrochemicals and Chemicals Association (GPCA) established its Waste Free Environment campaign in 2013. It has evolved from being a clean-up activity to an advocacy initiative and in 2017 had 28 companies participating in initiatives to change people's attitude and mind-sets towards litter disposal.

[www.wastefreeenvironment.com](http://www.wastefreeenvironment.com)

**18 PEACE, JUSTICE AND STRONG INSTITUTIONS**

The sector is focused on maintaining standards of ethical business conduct throughout the value chain. This can be achieved through partnerships that allow industry to reduce corruption wherever it may exist in the supply chain. This sector can also engage with local, regional, national and international bodies on societal structures and laws to promote responsible business practices (including anti-bribery and corruption).

**17 PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT**

Partnerships are a key enabler to accelerate sustainable development and advance the SDGs.

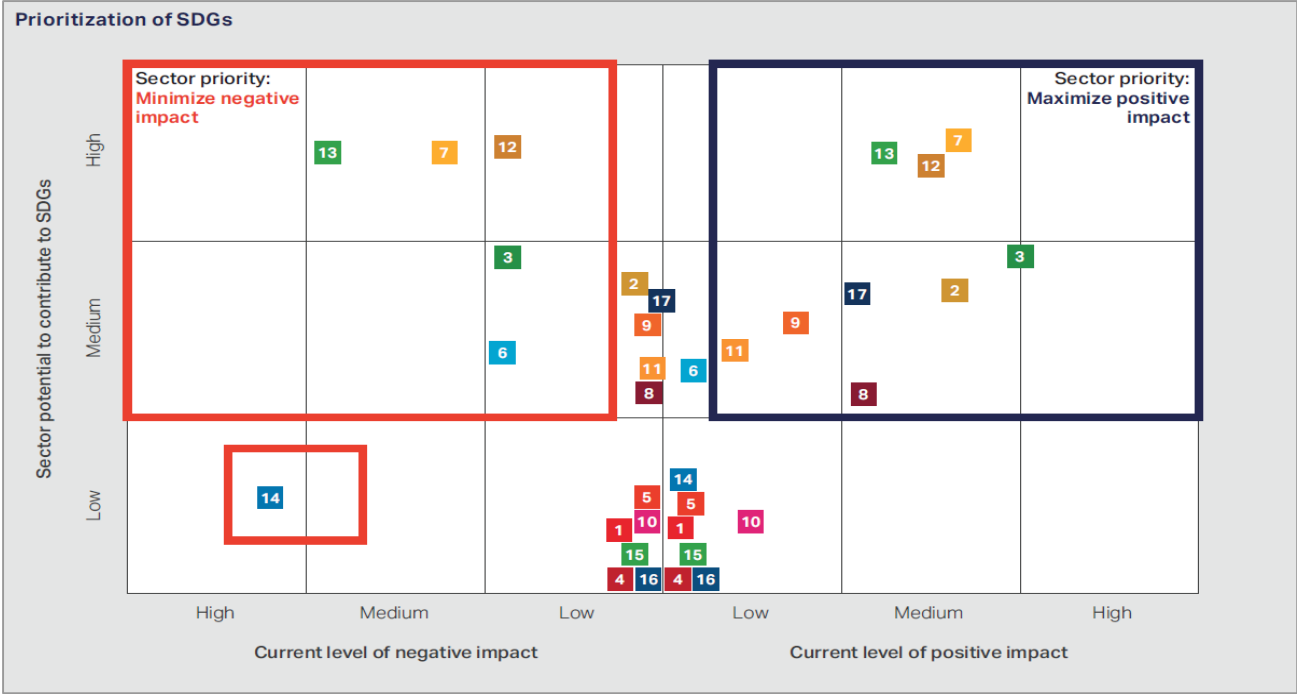
The chemical sector has opportunities to:

- Develop multi-stakeholder and cross-border partnerships and agreements to achieve sustainable development;
- Collaborate with downstream partners, government organizations, NGO groups and other involved stakeholders working towards sustainable development;
- Contribute to improving environmental and safety performance in emerging countries through capacity building;
- Incorporate collaboration as a critical pillar of sustainability efforts/programs, and share technologies/solutions with partners to enhance sustainable development globally; and
- Encourage open innovation initiatives for the sector.

# Part One: The Chemical Sector & the SDGs

Presents a view on what the key SDGs for the sector are based on where the sector has the most potential for impact vs current positive/negative impact

**Priority SDGs for the sector**



# Part 2: Impact Opportunities

Explores the most substantial opportunities for impact across the priority SDGs

**18 opportunities** identified across **5 systemic themes**

Each impact opportunity is expanded upon and tied to the SDGs at **target level**

Impact opportunities

Food	Water	People and health	Energy	Infrastructure and cities
<ul style="list-style-type: none"> <li>Contribute to sustainable and healthy food supply</li> <li>Transform food packaging to prevent food loss and waste</li> <li>Transform food additives to combat malnutrition</li> </ul>	<ul style="list-style-type: none"> <li>Increase resilience for water pipe systems</li> <li>Improve urban water treatment capabilities</li> <li>Accelerate water stewardship</li> <li>Work with others in the value chain on aquatic waste issues</li> </ul>	<ul style="list-style-type: none"> <li>Transform portfolio to have more positive impact products</li> <li>Reduce impact of operations to people</li> <li>International chemical industry capacity building</li> </ul>	<ul style="list-style-type: none"> <li>Accelerate energy efficiency in downstream sectors</li> <li>Enable production and storage of renewable energy/renewable energy infrastructure</li> <li>Continue to improve energy efficiency in own processes</li> <li>Breakthrough technologies for alternative production processes</li> <li>Increase proportion of renewable energy or innovative energy technologies used in production</li> </ul>	<ul style="list-style-type: none"> <li>Scale and evolve involvement in multi-stakeholder collaboration to make cities more sustainable and inclusive, improving lives of the urban poor</li> <li>Demonstrate benefits of industrial symbiosis</li> <li>Strengthen production assets to promote resiliency</li> </ul>

# Chemical Sector SDG Roadmap

## Part 3: Impact Pathways

Part Three

### Food impact pathways

Impact opportunity	Category	Key sub-goals	Key partners	Low, medium, high level of effort	Short, medium, long term time frame	Assessment SDGs	Assessment SDG targets and/or potential impact
1. Contribute to sustainable and healthy food supply	Product Innovation	1-1 Scale existing programs aimed at driving efficiency changes in the sustainable production of food and drink products, the reduction of waste and helping people to eat healthy and sustainably	Partners, suppliers, downstream customers, food brands, NGOs, WBCSD Food4Good program	●	○	2	● 3.1 ● 3.4 ● 12.2 ● 12.3
		1-2 Increase adoption of circular economy technologies from agriculture, food and food packaging value chains to facilitate circular food systems	Waste collectors, recycling companies, food companies	●	○	12	● 12.2 ● 12.3
2. Transform food packaging to prevent food loss and waste	Product & Process Innovation	2-1 Assess knowledge transfer and best practice of good food and food packaging performance against socio-economic, environmental and health criteria for different needs and regions to meet regional needs	Partners, WBCSD Global Smart and USA Group	●	○	2	● 3.1 ● 3.4 ● 12.2 ● 12.3
		2-2 Increase implementation of high performance packaging to prevent food safety, shelf life and nutrition while also improving recyclability	Value chain stakeholders, packaging designers, material suppliers, recycling companies	●	○	2	● 12.1 ● 12.3 ● 12.5
3. Transform food additive to combat malnutrition	Product & Process Innovation	3-1 Collaborate with multi-stakeholder platforms to improve environmental impact of food packaging value chains and improve packaging waste and food loss	Government and value chain	●	○	8	● 3.1 ● 3.4 ● 12.2 ● 12.3 ● 12.5
		3-2 Collaborate with multi-stakeholder platforms to improve environmental impact of food packaging value chains and improve packaging waste and food loss	Financial services, government, food brands	●	○	2	● 3.2

Chemical Sector SDG Roadmap 39

Part Three

### Energy impact pathways

Impact opportunity	Category	Key sub-goals	Key partners	Low, medium, high level of effort	Short, medium, long term time frame	Assessment SDGs	Assessment SDG targets and/or potential impact
11. Accelerate energy efficiency in downstream sectors	Product Innovation	1-1 Collaborate with customers with a particular focus on business construction, building and packaging sectors to increase adoption of energy efficient technologies and products with the goal of reducing energy consumption	Customers, peers, local governments	●	○	7	● 7.3 ● 12.2 ● 13.1
12. Enable clean water production and storage of renewable energy resources	Product Innovation	1-2 Accelerate the deployment of innovation centers for improve the efficiency of solar and wind power and energy storage	Government, research institutions, green building associations, and product manufacturers	●	○	7	● 7.2 ● 7.3 ● 13.1
13. Continue to improve energy efficiency in own processes	Process Innovation	1-3 Scale efforts to improve energy efficiency of technology, processes and products over the lifecycle as follows: improve and the environment through more energy efficient performance, agreements and other changes, management systems, government and other changes to design the products to improve energy efficiency and reduce waste	Peers	●	○	7	● 7.3 ● 7.4 ● 12.4 ● 12.8
14. Breakthrough technologies for alternative production processes	Process Innovation	1-4 Demonstrate recent breakthroughs in emerging technologies such as CCUS, CCU, alternative processes that can benefit from the power sector energy transition, low carbon high production and government support	Chemical sector peers, NGOs, energy sector, government	●	○	7	● 7.3 ● 7.4 ● 13.1
15. Increase proportion of renewable energy in production	Process Innovation	1-5 Increase proportion of renewable energy to technologies used in chemical production and storage to meet the energy needs of the chemical industry, regulatory framework, availability, capacity, public in production	Government, peers, startups	●	○	7	● 7.2 ● 13.1

Chemical Sector SDG Roadmap 42

Part Three

### Water impact pathways

Impact opportunity	Category	Key sub-goals	Key partners	Low, medium, high level of effort	Short, medium, long term time frame	Assessment SDGs	Assessment SDG targets and/or potential impact
4. Increase resilience for water pipes and systems	Product Innovation	4-1 Increase use of innovative piping solutions through collaboration with sustainable cities initiatives that are focused on smart solutions related to drinking water and reduced water pollution	Water utilities, local government, building/roof standard organizations	●	○	6	● 6.1 ● 6.2 ● 6.4
5. Improve urban water treatment capabilities through research and innovation	Product Innovation	5-1 Engage with water companies and other stakeholders to co-develop treatment solutions that are affordable and accessible	Downstream customers, water utilities, local governments	●	○	6	● 6.3 ● 6.4 ● 6.5 ● 6.6
6. Accelerate water knowledge	Process Innovation	6-1 Apply best practices for drinkable water management at industrial sites to assessment, fit, and water valuation	Water NGOs, government, peers	●	○	6	● 6.4 ● 6.5 ● 6.6
7. Work with others in the value chain on specific technologies (including ocean plastics)	Partnership Innovation	7-1 Collaborate to develop circular design solutions to address root causes of improper disposal and waste accumulation, encourage alternative requirements to manage plastics	Local governments, water agencies, downstream customers and stakeholders	●	○	6	● 6.3 ● 6.4 ● 14.1 ● 14.2

Chemical Sector SDG Roadmap 40

Part Three

### Infrastructure and cities impact pathways

Impact opportunity	Category	Key sub-goals	Key partners	Low, medium, high level of effort	Short, medium, long term time frame	Assessment SDGs	Assessment SDG targets and/or potential impact
16. Scale and enable investment in infrastructure	Partnership Innovation	1-1 Scale investment in and development of Public-Private Partnerships to connect value chains and business models that are inclusive and serve the needs of the urban poor	Value chain, local government, NGOs, finance agencies, local communities	●	○	9	● 3.9 ● 11.6 ● 11.8
17. Demonstrate benefits of industrial symbiosis	Partnership & Process Innovation	1-2 Define conditions for favorable cross-sector legislation and institutional arrangements to support the development of industrial symbiosis (including improved access to the feedstock)	Government, Industry Associations	●	○	9	● 9.4 ● 11.3 ● 11.6 ● 11.7 ● 12.4 ● 12.6 ● 13.1
18. Strengthen practices to promote resiliency	Process Innovation	1-3 Assess production assets and value chain climate change-related resilience and shared practices	Chemical sector, local governments, WBCSD Water Team and Climate & Energy team	●	○	9	● 5.4 ● 11.6 ● 13.1

Chemical Sector SDG Roadmap 43

Part Three

### People and health impact pathways

Impact opportunity	Category	Key sub-goals	Key partners	Low, medium, high level of effort	Short, medium, long term time frame	Assessment SDGs	Assessment SDG targets and/or potential impact
8. Transform practices to foster more products with positive impacts on health and people	Product Innovation	8-1 Identify regional/local health and safety needs and gaps to track deployment of current chemical sector products that are positive impact and to scale SDG and innovation on top of local level and track a set of affordable solutions	Sector peers, local governments, NGOs, Research, value chain (consumer product manufacturers), startups	●	○	3	● 3.9 ● 12.4 ● 12.8
9. Reduce impact of operations on people	Process Innovation	9-1 Operationalize the United Nations Guiding Principles on Business and Human Rights (UNGP) throughout the value chain. Establish a forum for engagement and collaboration with stakeholders to ensure rights due diligence in the context of the sector	Sector peers and value chain, human rights community, governments, WBCSD, associations	●	○	3	● 3.9 ● 8.1 ● 8.8
10. International chemical industry scientific and technological building	Partnership Innovation	10-1 Develop measures devoted to COA engagements to develop through leadership and technological metrics that will change the international of Responsible Care based on regional needs and where the most SDG impact can be achieved	Industry associations	●	○	3	● 3.9 ● 8.4 ● 12.4 ● 12.8
		10-2 Enhance support of UN Strategy 2030 with to International Chemicals Management (ICM) for sound management of chemicals and waste beyond 2020	Industry associations	●	○	3	● 3.9 ● 6.4 ● 12.4 ● 12.8

Chemical Sector SDG Roadmap 41

23 actions identified across 18 impact opportunities and five systemic themes



# Roadmap Implementation: Ongoing Efforts



- The chemical sector group are now **continuing efforts** to advance specific actions identified.
- The group continue to convene regularly.
- The group have also set up a **roadmap microsite** where they can report monitor and report on implementation progress

Download the Roadmap and learn more at

<https://sdgroadmaps.wbcasd.org/>

# 2019

## SUSTAINABILITY PROGRESS REPORT

of the European Chemical Industry Council



### ROADMAP TO PROGRESS IN SUSTAINABLE DEVELOPMENT: Enabling the transition to a low-carbon economy

Cefic participates in the RE-Source Platform. With its key partners, Cefic is providing corporate financing of renewable electricity and supporting the development of a better policy framework to increase corporate renewable energy sourcing.

**Cefic Lead:** Programme Council Climate Change & Energy | Key partners: SolarPower Europe, WindEurope, RE100 and World Business Council for Sustainable Development | Medium to high level of impact | Long-term effect

**Associated SDGs and SDG targets:**

7.2 & 7.A, 13.3

Cefic is reaching out to its key partners in the value chain to share best practices, collaborate and reinforce a stakeholders dialogue with the aim of achieving a 'zero emissions' transport system.

**Cefic Lead:** Programme Council Health, Safety & Environment, Transport & Logistics | Key partners: Road Transport Association (RTA), Rail Association (CER), Rail Freight Corridor (RFC), Island/Waterway Association (IWT) | Medium level of impact | Long-term effect

**Associated SDGs and SDG targets:**

11.3, 13.3

Cefic participates in the Renovate Europe campaigns to promote ambitious renovation programmes and legislation aiming at reducing by 2020 the energy demand by 80% of buildings in the EU (compared to 2005 level). Energy performance of buildings in the EU will evolve to a nearly zero-energy building (NZEB) performance level.

**Cefic Lead:** Programme Council Climate Change & Energy | Key partners: European Alliance of Companies for Energy Efficiency in Building (EACE), European Insulation Manufacturers Association (EurIMA), PlasticoEurope | Medium to high level of impact | Long-term effect

**Associated SDGs and SDG targets:**

7.3, 13.3

Cefic participated in the development of an international framework aimed at harmonising a methodology for calculating and reporting on the logistics of the GHG footprint across the multi-modal supply chain, called the GLEC Framework. A harmonised reporting system is an important first step for reducing the GHG footprint.

<https://www.chemicalindustry.org/ghg-reporting-implementation>

**Cefic Lead:** Programme Council Health, Safety & Environment / Transport & Logistics | Key partners: Smart Freight Center | Small level of impact | Long-term effect

**Associated SDGs and SDG targets:**

12.4, 13.3, 17.14



### ROADMAP TO PROGRESS IN SUSTAINABLE DEVELOPMENT: Preventing harm to humans and the environment throughout the entire life cycle

Cefic is working with SQAC 2019 Safety and Quality for Sustainability, a harmonised first-party assessment to evaluate the performance of the management systems of logistic operations (suppliers and distributors) and promote the reduction of all types of emissions (from CO2 emissions to noise emissions), as well as the reduction of fuel, energy and water consumption. The system includes new actions about management of all types of emission reduction by transport companies.

- Requirements for control of any small particles of plastic/bead/metal that are lost during transportation, handling, cleaning or storage and that have a negative impact on the environment
- Promotion of programmes aiming to reduce fuel, energy and water consumption in logistic operations

**Cefic Lead:** Programme Council Health, Safety & Environment, Transport & Logistics | Key partners: European Chemical Transport Association (ECTA), European Federation of Fuel-Carrying Organisations (EFFCO), Chemical Distribution Industry in Europe (CDICE) | High level of impact | Medium-term effect

**Associated SDGs and SDG targets:**

11.3, 12.4, 13.3

Cefic is engaging in capacity building activities in African countries, focusing on Ghana and Kenya. Cefic is supporting the implementation of the Label Hazard' Globally Harmonized System of Classification and Labeling of Chemicals (GHS), which provides a common basis for globally uniform physical, environmental, and health and safety information on hazardous chemical substances and mixtures. A globally harmonized system is important to safeguard safety and to ensure the environmental sound management of chemicals across the globe.

**Cefic Lead:** Programme Council Product Stewardship | Key partners: International Council of Chemical Associations (ICCA), United Nations Institute for Training and Research (UNITAR), German Federal Ministry of Environment, Nature Conservation and Nuclear Safety (BMN) | Medium level of impact | Long-term effect

**Associated SDGs and SDG targets:**

12.4, 13.3

The European Scientific Industry Group (ESIG) provides members big data on scientific research (ESIG) used to monitor progress, which are shared back to humans and the environment. ESIG's most recent publications (2019 numbers) show that their research R&D expenditure for the EU-28 was just under two billion euros, which means they have stabilised since 2013 expenditure by 40% over 2005.

**Cefic Lead:** ESIG | Key partners: Scientific Industry Association and other stakeholders | High level of impact | Small-term effect

**Associated SDGs and SDG targets:**

13.3



### ROADMAP TO PROGRESS IN SUSTAINABLE DEVELOPMENT: Driving resource efficiency across global value chains and in our operations & promoting adoption of circular economy principles to prevent waste and to achieve a low-carbon economy and enhance resource efficiency

SasChem, the European Technology Platform for Sustainable Chemistry, is driving innovation towards developing technological solutions to sustainability challenges in the plastics value chain. SasChem, alongside its key partners developed a 'Plastics Strategic Research and Innovation Agenda in a Circular Economy', which identified innovation needs to increase circularity along the plastics value chain.

**Cefic Lead:** Programme Council Innovation | Key partners: SasChem, PlasticsEurope, European Plastics Converters (EUPC) & European Composites, Plastics and Polymer Processing Platform (ECP4) | High level of impact | Long-term effect

**Associated SDGs and SDG targets:**

9.4, 12.5

Cefic participated in the RESYNTEX Project (under Horizon2020), which had as an overarching goal to promote technologies which will increase circularity along the textiles value chains. Cefic, alongside key partners from the textiles value chain and academia, developed policy recommendations on how to best design policies which address the full value chain from textile waste collection through to the generation of new feedstock for chemicals and textiles and improve the collection of textile waste. The concept of 'industrial symbiosis' was used as an underlying principle, where the waste of one sector becomes the feedstock of another to develop business models for the chemical and textile industries and demonstrate a complete reprocessing line for basic textile components, including liquid and solid waste treatment.

<http://www.resyntex.eu/>

**Cefic Lead:** Programme Council Innovation | Key partners: Industry & Academia | Medium level of impact | Long-term effect

**Associated SDGs and SDG targets:**

9.4, 12.5

Petrochemicals Europe is participating in the PHMA20 project (SPINE-401/ Horizon2020). The project aims at improving Polymethyl methacrylate (PMMA) recycling technology by recycling post-industrial and end-of-life PMMA waste into second-generation MethylMethAcrylate (PMMA) raw material. By doing so a more circular consumption model is being promoted.

<https://www.pma20.eu/>

**Cefic Lead:** Cefic/ Petrochemicals Europe's Methacrylate Sector Group | Key partners: The PHMA20 consortium consists of partners representing every step of the PHMA value chain | Medium level of impact | Long-term effect

**Associated SDGs and SDG targets:**

12.5

**THANK YOU!**  
*questions & answers*

