

# Green Supply Chain Radar - 2023

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**WAVESTONE**

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- Enabling Supply Chains to **contribute to a sustainable world** for the planet, people and performance
- Reinforcing the impact of the Supply Chain on company **competitiveness**
- Promoting Supply Chain professions to **develop their attractiveness and recognition**

450

Member **companies** and **schools**

4900

Members

5

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Self-help **communities**

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# Foreword



IN A CONTEXT WHERE ENVIRONMENTAL CHALLENGES ARE BECOMING A MAJOR SOURCE OF CONCERNS, COMPANIES ARE ADDRESSING IMPLEMENTATION OF MORE SUSTAINABLE ORGANIZATIONAL MODELS



The assessment is relentless: supply chain world is seeking to **accelerate its transformation towards more sustainable organizational models**.

Indeed, the architecture of the regulatory and legislative framework now imposes itself on everyone: « Green Deal », « Fit for 55 », « CRDS », are the new compass for many Supply chain stakeholders.

If the “problem-solving” approach to supply chain decarbonization is clearly inadequate and cannot replace more profound consideration of remodeling organizational models, it remains essential to achieve the targets that many companies have set.

The 2nd edition of the Green Radar Supply Chain by **Wavestone’s Supply Chain practice and France Supply Chain**, aligns with the transformational thinking of companies and aims to assist them by offering **a scan of the solutions available on the market** that can be integrated within their Supply Chain.



# At a glance



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# 01

## Perspectives around the radar



# Supply Chain decarbonization : a deployment of essential technical solutions but is part of a much broader issue...



## THREE LEVELS OF STAKEHOLDERS' INVOLVEMENT AND RESPONSIBILITY



For Supply chain decarbonization to be efficient, **each of the actors involved must play their part:** from governments to companies

Government and EU act at a **strategic level** by investing in infrastructures evolution, and by developing a legal frame for a low carbon transition

*E.g. : Hydrogen plan, European Green Deal.*



Company acts at **tactical level** by including in its strategy goals and action plan to align with the legislation's evolution

*E.g. : Decarbonization plan, CSR strategy, GHG inventory*



Company action plan execution happens at **operational level** and relies on the **technical solutions presented in this publication**

*E.g. : Implement measures to reduce GHG inventory such as diversifying the transport fleet*

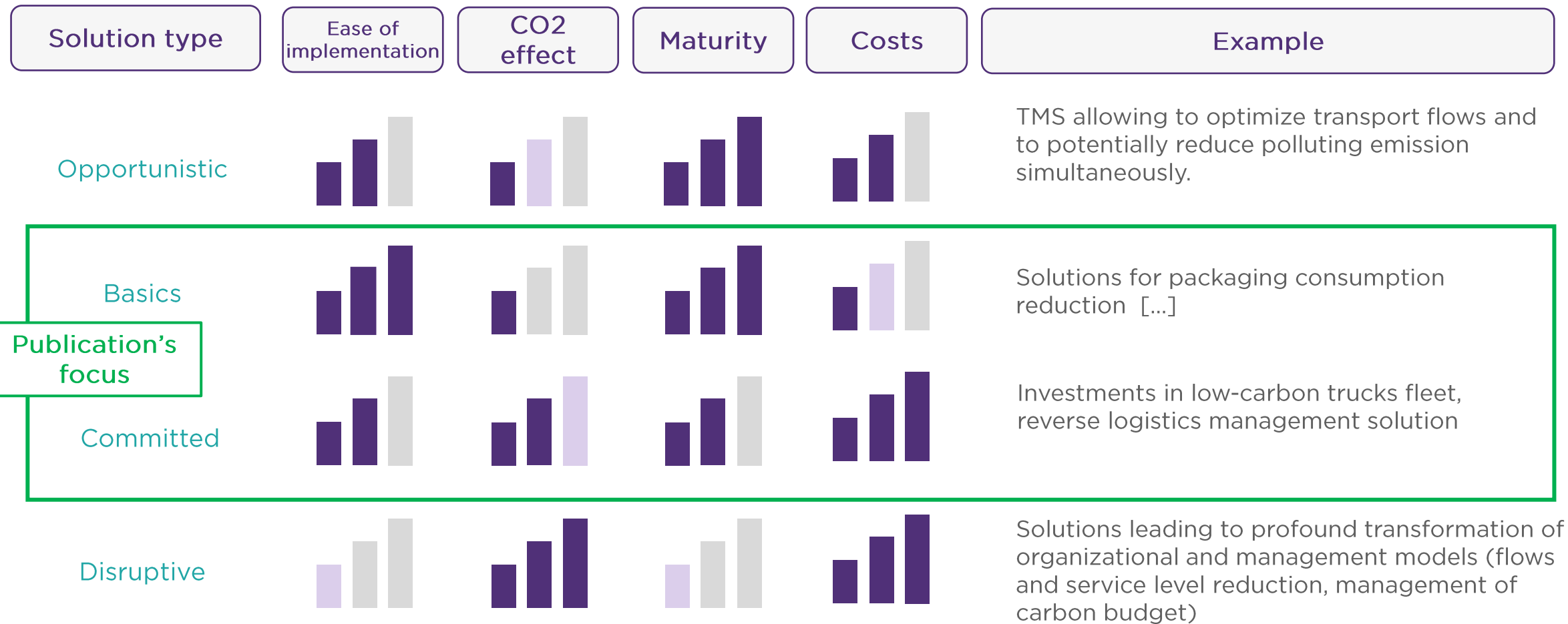




# The effects of the solutions implemented by companies to reduce carbon footprint are not equivalent

## A FOUR-LEVEL CLASSIFICATION

Green radar aims at promoting solutions that are directly targeting decarbonization. For this reason, the companies listed in the Green Radar predominantly offer "primary" and "committed" type solutions based on the proposed classification.



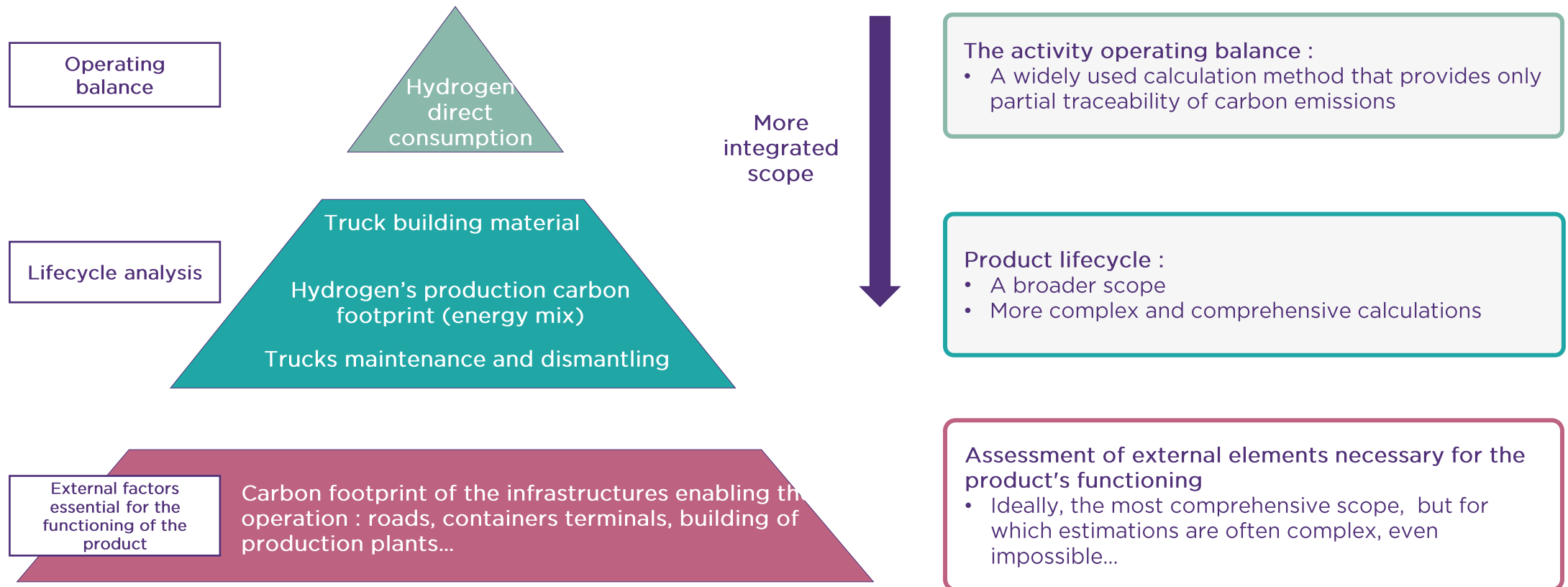
Publication's focus



# Although there have been more precise analysis of carbon footprint, they remain flawed

EVEN THOUGH CARBON FOOTPRINT ANALYSIS PRECISION IS IMPROVING (OPERATING BALANCE AND LIFECYCLE), THE INTEGRATION OF THE EXTERNAL FACTORS THAT CONTRIBUTE TO THE SOLUTION IS OFTEN OVERLOOKED

## Example of the hydrogen truck





# Overview of the radar



# Methodology



Our guideline to build this radar : seeking for solutions with a sustainable objective, an innovative component and that impact Supply Chain



## Green

Deployment of a solution (product or service) in the market with an environmental and sustainable target.



## Innovation

Innovative technological dimension: digitalization, innovative processes, disruptive offers and services



## Supply Chain

Integration into a specific block or across the entire Supply Chain of major players

# Methodology



Some insights into methodology and choices made for building this radar

Research conducted in specialized literature on **Supply Chain and sustainable development**

An inclination of research mainly focused on **France** and occasionally **European** topics

Companies with **marketable** solutions or **inspiring** initiatives

A **radar** that cannot be **comprehensive**



Specialized written literature :  
Supply Chain Magazine, Voxlog...



Solutions highlighted by The industry's reference organizations :  
France Supply Chain, ADEME...



Conferences and seminars: Annual Conference and Transit Show...



Dedicated labels : Solar Impulse foundation...



Are listed in this radar:

- Start up ↔ big companies
- Pure players actors
- Marketable products
- Services
- Initiatives within some companies that can inspire you

The subject is constantly changing and evolving, with numerous actors emerging quickly and frequently

# Radar categories



Our goal : list and classify companies ranging from start-ups to large corporations, offering sustainable solutions or services according to these eight fields



## Carbon emission measurement

Tools to analyze and monitor greenhouse gases emissions (and other emissions) across the whole Supply Chain



## Green Equipment for logistics

Technical solutions to reduce the environmental impact of intralogistics



## Green Vehicles

Vehicle or means of transportation (utility and heavy-duty) equipped with technology to reduce the carbon footprint of a journey



## Mutualization platforms

Technologies or services that promote increased mutualization within the supply chain (last-mile delivery, empty transport reduction...)



## Packaging

Technical solutions to reduce packaging environmental impact (excluding primary packaging)



## Reverse logistics

Services or systems enabling to implement and operate circular flow logic (return flows monitoring,...)



## Building & energy efficiency

Tools for tracking and optimizing the energy efficiency of logistics buildings to reduce their environmental impact

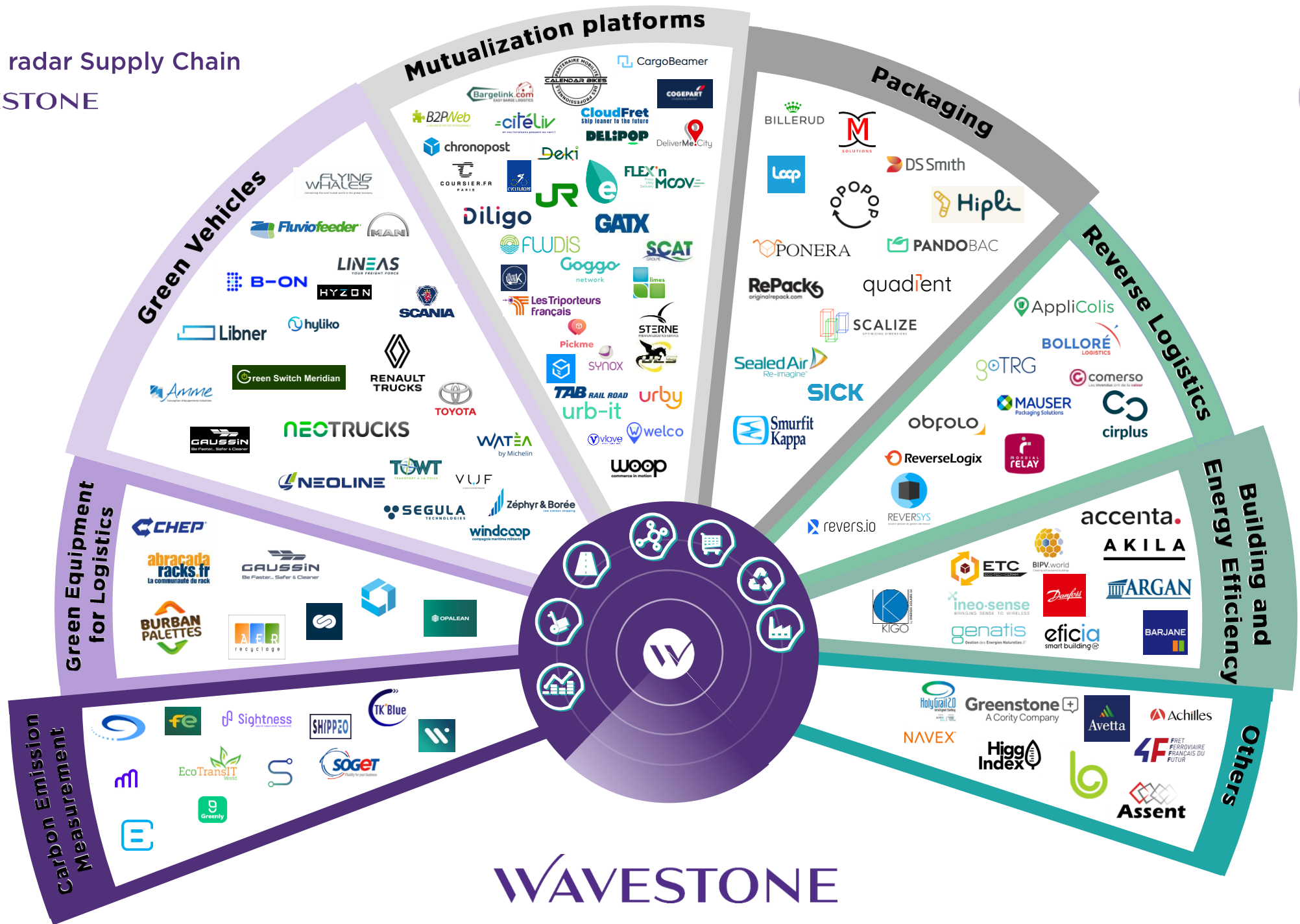


## Other

Solutions that are not included in previous categories but are offering significant advantages in the context of green supply chain

# The 2023 Green radar Supply Chain

By WAVESTONE



WAVESTONE













**Focus on the solutions**  
presented in the radar













# Carbon Emission Measurement



	Company	Comments
BuyCo		SaaS platform dedicated to maritime shippers integrating the calculation of CO2 emissions in order to measure emissions over time, visualize total emissions and evaluate emissions by carrier, line or container.
CarbonMaps		SaaS environmental accounting platform: collects and analyses data at all stages of the food chain to assess the environmental footprint of products, ingredients or raw materials using scientific models (GHG protocol, ISO 14040 and 14044, IPCC) and AI algorithms.
EcoTransit		Calculator that evaluates the GHG emissions and pollutants generated by a freight transport, but also to make comparisons between modes of transport (road, air, rail, sea, river).
FleetEnergies		SaaS solution for real-time measurement of heavy vehicle fleet consumption to identify unproductive behaviour and optimize activities.
Greenly		Platform combines intelligent data collection with advanced functionality to create a carbon accounting solution. You can integrate your company's physical and monetary flows into the platform, monitor your CO2 emissions live and define your reduction path.
SeaRoutes		SeaRoutes has developed an eco-calculator that allows shippers and forwarders to select the most environmentally friendly routes for their shipping partners. This tool measures and compares CO2 emissions.
Shippeo		CO2 emissions measurement tool for upstream and downstream transport activities (Carbon Visibility module).
Sightness		An automated tool for calculating GHG emissions based on company's transport activity, and for displaying these emissions to make it easier to manage its action plan.
Soget		A freight transport rating and certification agency, enables users to receive reports on the environmental impact of their transport operations (nitrogen oxide, fine particles, sulphur dioxide, CO2 emissions, etc.).
Solar Impulse		Carbon accounting software that allows professionals to measure carbon emissions related to their activities.
TK Blue Agency		Extra-financial rating and labelling agency for the transport sector that measures, rates and values eco-responsible performance, in compliance with legislative and regulatory requirements relating to CO2 emissions and CSR.
Wakeo		Platform acting as a unified control tower for all transport flows with real-time, end-to-end visibility including a carbon footprint calculator.














# Green Equipment for Logistics



Company	Comments
Abracadarak	 <p>Collaborative platform for connecting buyers and sellers of racks, doing audit, consulting, assembly and dismantling, transport, delivery and maintenance service.</p>
AER Recyclage	 <p>AER Recyclage is a specialist in the purchase, repair and sale of pallets in the West of France.</p>
Burban Palettes	 <p>Burban Palettes ensures the recycling of all wooden pallets and handling supports. Their job is to recover, sort and repair them in order to give them a new life in an industrial and logistic sector.</p>
Chep	 <p>Rental service provider of rented pallets with reuse and recycling proposal.</p>
Energy observer	 <p>Prototype zero-emission container ship &gt; for 2025 (5000t capacity) with electric propulsion and using hydrogen as fuel.</p>
GAUSSIN	 <p>Zero emission vehicles (electric and hydrogen), autonomous and connected: ATM, TSBM, AGV, hydrogen tractor...</p>
Ipcube	 <p>Manufacture of cardboard pallets with very specific dimensions that you can assembly directly when needed.</p>
Opalean	 <p>The OPATRACE solution connects shippers and carriers around the management of their recyclable pallet pool.</p>













# Mutualization Platforms



	Company	Comments
B2BWeb		Provides computerized tools to transportation professionals to enable companies to complete their loads.
Bargelink		Marketplace for inland navigation in Europe.
Calendar Bikes		French manufacturer of cargo bikes for professionals, the only two-wheeler with rear load for intensive use and adapted to our urban roads.
Cargobeamer AG		We offer intelligent solutions in the field of intermodal traffic, in order to ensure the environmentally friendly transport by rail of not only cranable but also non-cranable semi-trailers. The unique CargoBeamer terminals allow up to 36 semi-trailers to be loaded horizontally onto a single freight train.
Chronopost		Chronopost is extending its low-emission vehicle deliveries (cargo bikes, electric or NGV vehicles, etc.) to 24 new French cities. 360 new vehicles are being deployed. The goal is to extend this initiative to 225 European cities by 2025.
Citeliv		Specialist in ecological delivery: transport, organization and follow-up, warehouse and storage.
Cloudfret		Proposes a digital platform to put shippers and carriers in touch with each other, with the aim of eliminating empty truck returns between the two shores of the Mediterranean.
Cogepart		Specialist in last mile delivery, with more than 2,800 vehicles equipped with state-of-the-art technology, 20% of which are "green energy" vehicles (electric and NGV vehicles, bicycles).
Coursier.fr		Decarbonized delivery of the last mile and desire to relieve congestion in the heart of cities.
Cycleurope Industries		CYCLEUROPE is a creator, manufacturer and distributor of electrically assisted bicycles, Cargo, e-tricycles and muscle bikes.
Deki		SaaS for the optimization and management of carbon-free transport of goods in urban areas, working on the decarbonization of the last mile to offer 100% carbon-free urban logistics.
Delipop		Multi-brand merchandise collection points.
DeliverMe.City		Start-up specializing in responsible, flexible and carbon-free last mile delivery in urban areas / adapted for BtoB deliveries.


# Mutualization Platforms



Company	Comments	
Diligo		Responsible urban logistics solution (storage space in Paris + deliveries by cargo bike).
East Japan Railway		Rail freight solution (TGV) that uses the vacant passenger space.
Ecolotrans		Ecological last mile delivery; Home delivery, professional, order preparation and vehicle rental. Fleet of refrigerated vehicles running on CNG and electricity.
Flex'n Moov		Electric delivery transport solution, part of the Gruau Group.
Fludis		Articulation between river and land modes for the massified routing/exit, followed by the dissemination and/or collection in "milk-run" of goods flows, by means of a decarbonized and optimized system. A warehouse boat with 100% electric propulsion is used as a vehicle for entering and leaving the city. A mobile agency is able to handle all the preparation stages of the delivery rounds, to host the logistics teams, and to transport the Cyclofret® (cargo bikes) used for the last mile.
GATX Rail France		GATX is a full service railcar rental company with a young and diversified fleet of railcars in more than 20 European countries.
Goggo Network		Last mile delivery solution dedicated to creating autonomous mobility networks.
Groupe SCAT		The SCAT group is a transport organizer and a force of proposal for any project of massification of maritime flows on the French river network, of modal transfer or simply of new river flows.
Instafret		Mobile application that connects freight shippers and freight forwarders in real time with available space to reduce environmental impact.
K-Ryole		Manufacturer of electrically assisted carts and trailers dedicated to last mile delivery.
Les triporteurs français		Deliveries are made via two electrically assisted three-wheel-drive cargo vans, each of which travels 25 km per day and delivers to an average of 20 customers in the city center.
Limes		Last mile delivery with eco-responsible vehicles (electric three-wheelers) Shared delivery center (relay point for parcels) / Delivery for individuals and professionals.












# Mutualization Platforms



Company	Comments	
Pickme		Pickme avoids delivery failures and facilitates the optimization of the carriers' last mile routes by relying on its community of 110,000 relay-neighbors. Pickme is available to individuals, offering them an income of up to 300€ per month, and to professionals.
Sterne		The transport and logistics group Sterne recently presented a tri-temperature cargo bike put into service by its subsidiaries Novéa and ATS Santé and intended for urban deliveries of sensitive products such as medicines.
Stuart		Decarbonized last-mile on-demand delivery solutions, using Decarbonized last.
Synox		the <i>E-Logurba</i> project aims to connect micro-depots to pool the intermediate land reserves of cities through a common metropolitan platform to maximize the use of soft modes in the last mile.
TAB Rail Road		Specialist in combined rail-road transport aiming to reduce GHG emissions through its transport solutions.
ULS		Geodis has joined forces with Urban Logistic Solutions in Strasbourg to decarbonize last mile delivery. ULS implements delivery by boat and (electrically assisted) bicycles.
Urb-it		Cyclologistique, delivers the last mile of e-commerce orders by bicycle.
Urby		Urby is launching a waste collection service associated with its delivery service, for companies producing more than 1,100 liters of recyclable waste per week. These companies are required to sort their waste into the following 5 main types: paper, cardboard, plastic, wood, glass and non-ferrous metals. Urby weighs and stores the waste in its mutualization centers and then transmits it to Recygo and Veolia.
Vlove Cyclologistique		Ecological delivery solutions for last mile delivery (electric bikes).
Welco		Welco is a collaborative parcel collection solution between neighbors and offers the possibility to become a private relay point.
Woop		Specialized in the optimization of the last mile delivery, offers an application for planning and optimization of routes.












# Green vehicles



	Company	Comments
Amme		This one proposes the Fludis urban delivery solution combining an electric warehouse boat and a fleet of cargo bikes.
Libner		Truck acting as a mobile warehouse (integrating an electric vehicle with a load capacity of 800kg) to deliver to downtown businesses while limiting pollution and noise. Optimization of the last km.
B-on		Car manufacturer specializing in 100% electric LCVs, with a range of vehicles covering the entire chain and the electrification of LCV fleets.
Fluiofeeder		Fluiofeeder is specialized in the transport of containers on the Seine axis.
Flying Whales		Air transport by airship using recyclable materials and hydrogen propulsion.
Gaussin		Manufacture of 100% electric tractors dedicated to the handling of road trailers on logistics sites.
Green Switch Meridian		River freight at iso-cost with road freight.
Hyliko		Manufacturer of carbon-negative hydrogen trucks, their solution runs on hydrogen and their battery destroys carbon for every kilometer driven. Decarbonization of vehicle fleet / Retrofit trucks (change of motorization).
Hyzon Motors		Company offering hydrogen-powered vehicles, zero-emissions and specialized in retrofit, that is to say the replacement of combustion engines of vehicles in electric engines or hybrid electric - hydrogen.
Lineas		Rail freight operator also offering door-to-door delivery from road to rail, in Europe.
MAN Truck & Bus		Manufacturer of vehicles and transport service, offering a range of 100% electric trucks.















# Green vehicles



	Company	Comments
Neoline Armateurs		Velo-propelled freighters (with sail).
NeoTrucks		100% electric logistics trucks from the circular economy that do not require a heavy goods vehicle licence, they can move trailers on a logistics site.
Renault Trucks		Electric trucks for urban transport.
Scania		Supplier of trucks, buses and electric motors with a sustainable offer of decarbonization and circular economy.
Segula Technologies		Hybrid bio-GNC/electric river pusher and connected logistics barge (hybrid gas-electric motorization, photovoltaic panels, batteries and light materials that allow a reduction in energy consumption).
TOWT		Offer of logistic maritime transport with cargot Sailboat.
Toyota		Hydrogen-powered trucks (25 tons, 600 km range) and retro-fit of their fleet.
VUF		Manufacturer of professional cargo bikes (2500/year) with a capacity of 1400L and a maximum load of 150kg.
Watèa by Michelin		Fleet electrification with an all-in-one subscription for professionals, including the provision of vehicles and charging stations.
Windcoop		Claims to be the first carbon-free shipping company organized as a cooperative, and has just launched a call for tenders for the construction of its first sailing cargo ship: it should provide a link between France and Madagascar in 30 days and transport more than 14,000 tons of goods annually.
Zéphir et Borée		Zephyr & Boreas is a shipping company specializing in low-carbon ships and a pioneer in modern sailing.

# Packaging















Company	Company	Comments
Billerud		Producer of eco-responsible packaging.
CMC Design		CMC designs automated packaging and mailing solutions for multinational e-commerce, retail and 3PL companies. Their advanced right-sized technology ensures packaging is cost effective, minimizes waste, and reduces carbon emissions.
DS Smith		Sustainable packaging supplier who created a "circular eco-score" tool composed of 8 key indicators, allowing companies to evaluate the recyclability of their packaging, to compare the performance of other solutions and to have avenues for continuous improvement.
Hipli		100 times reusable parcel service, both by the company and by the customer for personal use.
Loop		Carrefour offers the possibility to shop by buying products with returnable packaging. These packages are reusable and thanks to the application the user can be reimbursed for a part of his shopping.
Opopop		Reusable parcel service.
Pandobac		Service for the use of reusable food packaging: packaging rental with platform with connection between shops and suppliers (Zero Waste Logistics solution).
Ponera		Ponera Group offers a smart, modular, digital industrial packaging solution that replaces single-use wooden crates.
Quadient		Quadient has been acquired by Sparck Technologies. The acquisition includes the CVP line of custom 3D packaging equipment. The CVP solutions allow for the 3D design and shaping of a custom carton for each shipment of items, reducing the volume of the package by up to 50% and reducing the amount of cardboard used by up to 30%.
RePack		Reusable parcel service.
Scalize		SCALIZE is a SaaS tool for packaging development teams to optimize packaging dimensions to meet requirements from the entire value chain. Maximize your product size on shelf and logistics efficiency, whilst reducing packaging weight and saving CO2.
Sealed Air		Sustainable packaging solutions for professionals.
Sick		Complete and easy to integrate solution for determining package dimensions in custom carton packaging machines.
Smurfit Kappa		Smurfit Kappa offers sustainable packaging solutions designed to promote and protect all types of products, regardless of their shape or size, to meet the demands of supply chains.














# Reverse Logistics



	Company	Comments
AppliColis		Sustainable urban logistics platform, with decarbonization of the last mile using soft mobility and support for reverse logistics. <i>Customizable interface.</i>
Bolloré Logistics (Offre Recycle)		The Recycle offering provides full outsourcing of consumable reuse management for transportation and logistics, with asset availability verification, global inventory management and facilitation of sustainable returns logistics via a dedicated web and mobile application. It also provides access to various types of reusable packaging.
Carrefour (Offre Loop)		Crossroads stores section for the sale of products with reusable and returnable containers.
Cirplus		The goal is to reduce the cost of recycled plastic by creating a marketplace for recyclates and plastic waste that connects waste owners, recyclers, processors and distributors. To give easy and transparent access to the price of these products. Cirplus uses AI and blockchain to locate these products.
Comerso		Digital and logistics platform allowing companies to recover their unsold products and waste.
GoTRG		goTRG is the only company to deliver fully managed returns solutions for enterprise retailers and manufacturers, replacing costly delays, human error, and legacy systems with profit-driven solutions.
Mauser Packaging solutions		Offers industrial containers partly made from recycled materials. The company offers a closed product life cycle: the containers sold can be cleaned/reconditioned as needed to extend their lifespan as much as possible, they are also collected and recycled to produce new ones.
Mondial Relay		In addition to continuing to develop its network of Relay Points in France (currently 11,500), Mondial Relay is preparing to strengthen its network of automatic lockers accessible 24/7. There are currently 300 of these and the out-of-home parcel distribution specialist intends to add several thousand in the coming years.
Optoro		Software platform allowing distributors to determine the best marketplace to revalue their returns and unsold items while reducing their environmental impact.
ReverseLogix		Reverse logistics solutions - return flow management system (RMS).
Reversys		Reversys is a collaborative SaaS solution for e-retailers and connected retailers, offering all the functionalities necessary for the global and efficient management of e-commerce returns. Allows the development of a responsible supply chain, particularly through reverse logistics solutions.
Revers.io		SaaS solution for returns and after-sales service management to control its omnichannel strategy. It facilitates the management of repairs and/or the development of a second-life activity.








# Building Emission Reduction



	Company	Comments
Accenta		Proposes an innovative geothermal heating system, composed of a multitude of closed hydraulic circuits that go down to a depth of 100 m, which allows, thanks to heat pumps, to store in the ground the heat of the summer to restore part of it in winter.
Akila		Leverages artificial intelligence to optimize the energy and environmental performance of buildings.
AutOnom		The novelty of AutOnom® lies in the implementation of a Lithium-Ion energy storage battery system, a first in France for a logistics warehouse. Thanks to this equipment, the building is powered by green energy produced locally and covering the needs of the tenants in terms of heating and lighting for one year.
Barjane		Logistics furniture company that develops positive energy buildings, several standards (ISO 14001) and Green labels (Label LUCIE).
BIPV.World		BIPV.World is an easy and quick company to add to your building solar panels to use green energy.
Danfoss		The Danfoss Group is a global producer of components and solutions for refrigeration and air conditioning, heating and water management, and industrial controls. It specializes in energy efficiency and decarbonization.
Eco-Tech Ceram		ETC supports manufacturers in their low-carbon transition. The company offers to recover waste heat from furnaces through its energy capture, storage and restitution solution.
Eficia		EFICIA is specialized in energy management for commercial buildings. It has developed a global and 100% integrated solution capable of optimizing in real time the operation of HVAC and lighting equipment in buildings thanks to intelligent algorithms and a team of energy specialists available 24/7.
Genatis		Manufacturer of passive solutions for industrial buildings, aimed at reducing energy consumption.
Ineo-sense		Solutions for industrial IoT and long range networks with low energy consumption.
KIGO		Panels for halls / large industrial spaces that work with a heat pump (heat due to industrial or outdoor activity). Allows to reduce the heating bill.

# Autres



	Company	Comments
Achilles Information Ltd		Achilles provides online tools and reports to help clients address sustainability issues in their procurement: information gathering, supplier validation, performance analysis and monitoring.
Avetta		Avetta provides a supply chain management platform to address sustainability and security issues.
Blume Global		Blume Global, is a supply chain orchestration platform that brings together order orchestration, multi-modal transportation management, end-to-end visibility and supplier relationship management. Blume Global provides solutions that optimize assets to reduce carbon emissions, eliminate wasteful practices, and generate efficiencies throughout the supply chain.
Greenstone	 A Cority Company	Greenstone provides a supply chain management platform to address sustainability issues.
Higg		Higg provides a supply chain management platform to address sustainability issues.
Holy Grail 2,0		Project involving 130 European companies to produce a digital watermark printed on packaging to increase the quality of sorting and recycling of approved food contact plastic packaging.
Navex		Navex provides a supply chain management platform to address sustainability and regulatory compliance issues.



# 04

[Learn more](#)

# Contributors



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## Wavestone

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In a world where knowing how to transform is the key to success, Wavestone's mission is to enlighten and guide big companies and organizations in their most critical transformations with the ambition to make them positive for all stakeholders. That is what we call "The Positive Way".

Wavestone has more than 4,000 employees in 9 countries. It is one of the leading independent consulting firms in Europe and is the 1st independent consulting firm in France. Wavestone is listed on Euronext in Paris.

## France Supply Chain

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The FRANCE SUPPLY CHAIN BY Aslog community is committed to strengthening the impact of the Supply Chains on business competitiveness and making it a lever for a more sustainable world. Our network of 4,900 members, professionals from all sectors of activity, teachers, researchers and students, pool their ideas and experience to provide Supply Chain players with practical solutions.

The workshops run within the LABS and mutual support communities are great places for reflection and progress. Our actions and projects are guided by 3 guiding principles: the ability to set the standard, develop communities to strengthen collective intelligence and increase our capacity to influence essential developments.