

NEO-ECO

CIRCULAR ECONOMY ENGINEERING & VENTURE BUILDING

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Director of International Development

neo-eco
A world without waste

Who We Are

Neo-Eco was founded in 2008 in Lille, France, with a single ambition: to prove that waste is not a problem to be managed, but a resource to be exploited.

Over 17 years, we have built proprietary methodologies, launched 19 spinout companies, and worked across 22 countries, from European metros to post-conflict reconstruction zones.

We operate simultaneously as a consultancy, an engineering firm, and a venture builder, giving clients access to both strategic thinking and hands-on technical execution.





OUR JOURNEY

2008
Founded in Hallennes-lès-Haubourdin, France.

2012
First ERDF-funded R&D program.

2015
First international mandates.

2018
EY Entrepreneur of the Year recognition.

2020
Grand Paris Express engagement begins — 50M-tonne waste stream.

2022
Ukraine reconstruction program launched.

2026
North Seine Canal engagement begins

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A Track Record in Numbers

18
Years of R&D

500+
Eco-materials &
eco-products developed

11
Patents

19
Startups launched

22
Countries impacted

35+
Strategic industry & university alliances

RECOGNIZED BY:

ERNST & YOUNG ENTREPRENEUR OF THE YEAR®

lauréat Réseau Entreprendre®

INNOVATION FUND
Deploying innovative net-zero technologies for climate neutrality

Réseau ALLIANCES
ENTREPRENEURS DE CROISSANCE RESPONSABLE

bpifrance EXCELLENCE

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Three Areas of Expertise



Circular Economy Strategy

We work with governments and businesses to diagnose waste flows across a given territory, then design and implement strategic roadmaps that convert waste into economic resources.



Eco-Material Engineering

We formulate high-quality materials and products made from locally recycled waste — from lab testing and prototyping through to industrial-scale rollout with full quality assurance.

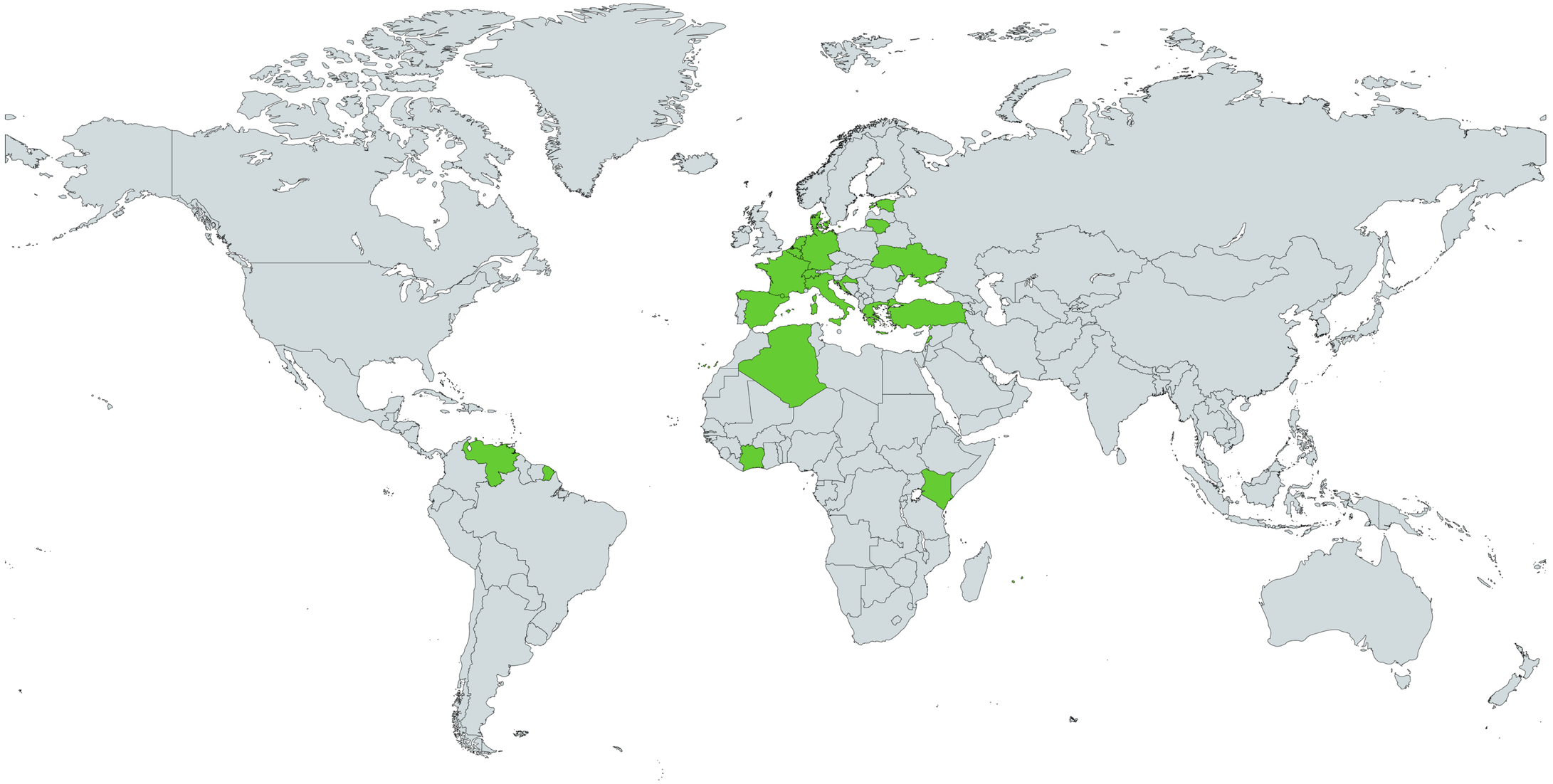


Circular Worksite Management

We design and manage end-to-end waste logistics for construction and industrial projects, covering collection, transport, site selection, equipment, and ongoing quality control.

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Global Footprint: 22 countries



Who We Serve



CLIENT SEGMENT · 01

Cities & Territories

- Municipal waste management improvement & recycling platform design
- Decontamination of public soils & waterways
- Regional circular economy strategy development
- Drafting & evaluation of public tenders for large works

SELECT CLIENTS

PARIS

Seine-Saint-Denis
LE DÉPARTEMENT

Aix Marseille Provence
MÉTROPOLE

Métropole du Grand Paris

GRANDLYON
la métropole

ГОСТОМЕЛЬ

T.C. MALATYA VALİLİĞİ
MALATYA VALİLİĞİ

KRYVYI RIH

COUNTY GOVERNMENT OF KERICHO

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CLIENT SEGMENT · 02

Construction Companies & Architects

- Eco-product engineering from construction & demolition waste
- Environmental management of construction sites
- Advisory on asbestos & hazardous substance treatment
- ESG measurement & reporting

SELECT CLIENTS

vilogia

grandparis aménagement

cdc habitat

Gensler

matek MODULES - PLUG AND PLAY

CUNDALL

Septalia

ENERHO-SYLA GROUP

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CLIENT SEGMENT · 03

Manufacturers & Distributors

- Eco-product engineering using industrial waste streams
- Chemical regeneration of automotive batteries
- Low-carbon eco-cement production
- Value chain circularity improvements

SELECT CLIENTS

ArcelorMittal · DECATHLON · SUEZ · Norauto · VOLVO · LEROY MERLIN · LA POSTE · PAM SAINT-GOBAIN

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CLIENT SEGMENT · 04

Infrastructure & Port Managers

- Sediment recovery from dredging
- Recycling of excavation materials
- Water decontamination
- Environmental management of large-scale projects

SELECT CLIENTS

GROUPE ADP

Société du Grand Paris

SNCF

HAROPA PORT Le Havre Rouen Paris

إدارة واستثمار مرفأ بيروت
Gestion et Exploitation du PORT DE BEYROUTH

Port Boulogne Calais

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CLIENT SEGMENT · 05

Development Finance & International Agencies

- Post-disaster damage assessment
- Sustainable reconstruction planning
- Community regeneration
- Management of reusable materials from rubble

SELECT CLIENTS

AFD AGENCE FRANÇAISE DE DÉVELOPPEMENT

MISSIONEAST

CPVA Central project management agency

UBS Optimus Foundation

UBS

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Leaders in Innovation

Our Startup Ecosystem

Neo-Eco's most innovative R&D breakthroughs become standalone companies. The “Neo-Sphere” now comprises 19 startups spanning materials science, environmental law, and industrial ecology.

NeoCem

Low-carbon clay additives for cement production. World-first flash calcination technology.

Valame

World-first treatment of asbestos waste without thermal processing.

BringBack

Chemical regeneration of car and truck batteries.

Faiseurs de Terres

Fertile substrates from urban and construction waste.

Etnisi

Furniture & décor using recycled materials.

Neoeris

Environmental legal advisory.

Press & Recognition

SELECTED PRESS

FAST COMPANY

02-21-2023 | DESIGN

How one company is turning 50,000 tons of rubble into apartment buildings in Ukraine

Neo Eco turns the waste left behind by war into a useful building material.



[Photos: Neo-Eco]

Les Echos ENTREPRENEURS

À la une | Créer une entreprise | Gérer son entreprise | Développer son entreprise | Ma vie d'entrepreneur

Comment NeoCem réinvente la cimenterie

Christophe Deboffe est le cofondateur de NeoCem, entreprise picarde spécialisée dans le ciment bas carbone. L'entreprise est lauréate du prix Start-up en Nord de France du prix Entrepreneur de l'année* organisé par EY.

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Christophe Deboffe a cofondé la société Neocem en 2021, avec Benjamin Constant. (DR)

AWARDS & RECOGNITION

EY Entrepreneur of the Year
Nord de France

Ellen MacArthur Foundation
1st GOLD Eco-Product Certification

Réseau Alliances
Entrepreneurs for Responsible Growth

Réseau Entreprendre
Laureate

BPI France Excellence

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Technology Specialists





1 STEP Classifying damaged buildings

Using computer vision, we detected buildings footprint and analysed the level of destruction by segmenting each dot on the drone/satellite image

2 STEP Generation of height map

Determining building height is clearly a major technical step forward. We relatively calculate the height of each pixel on the image inside the building footprint

3 STEP Volume of the destroyed building

According to the category of damage, each pixel height parameter and building square allows us to calculate the volume of each separate construction











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Case Studies

CASE STUDY · 01

Grand Paris Express

CLIENTS & PARTNERS



CONTEXT

Europe’s largest infrastructure project.

The Grand Paris Express is doubling the Paris metro network with 68 new stations and 200 km of track. Tunnel boring generates ±2,000 tonnes of waste daily, totalling 50 million tonnes over the project lifespan. 98% of this material is uncontaminated.

NEO-ECO’S ROLE & OUTCOMES

Full circular economy strategy.

Mobilising 100+ companies to develop end uses for excavated materials, engineering over 80 eco-materials and eco-products, and managing quality assurance across the supply chain.

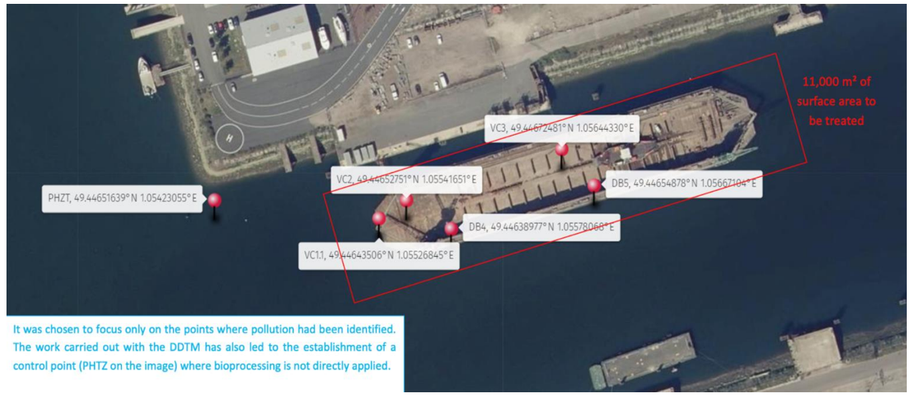
ORIGIN	LITHOLOGY	USE	FORMULATION / SUBSTITUTION RATE
EXCAVATION	COARSE LIMESTONE	Concrete Gravel	50%
		Grout	96% (+4% binder)
		Recycled sand	40%
		Injection Grout	100%
	MARLS AND PEBBLES	Grout	94% (+6% binder)
		Agronomy	100%
		Grout	30%
		Cavity Filling Grout	100%
		Filling material	50%
		Stabilized Sand	25%
	ST OUEN LIMESTONE	Dike	97% (+3% CaO)



CASE STUDY · 02

HAROPA Port Pre-Dredging Waterway Decontamination





BACKGROUND

Expansion of 7.6 hectares of the Seine river port required the dredging of 30,000 tonnes of sediment contaminated with petrochemicals and heavy metals (HCT, COT, HAP, PCB).

OBJECTIVE

Treat contamination in-situ before dredging using nature-based solutions, reducing intervention costs and avoiding the need for chemical treatment.

NEO-ECO'S APPROACH

Deployed bio-remediation processes targeting contamination hotspots, using the DGTM survey to establish a control point (PHTZ) where bioprocessing was not applied, enabling comparative measurement.

RESULT

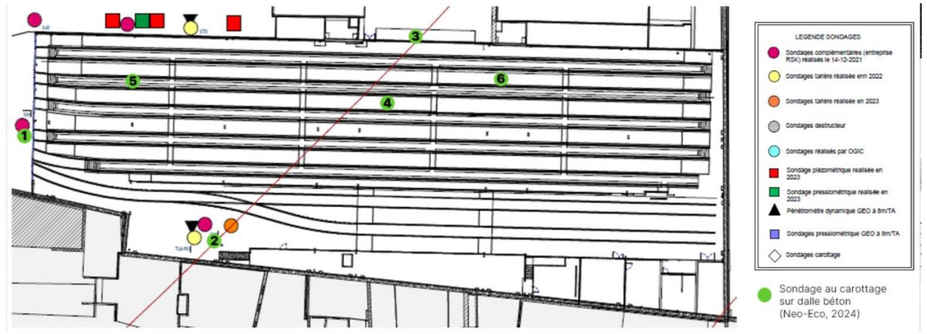
Significant reduction in HCT, COT, HAP, and PCB levels — enabling safe dredging of the waterway without physical or chemical intervention across the full site.

CASE STUDY · 03

Deconstruction & Reconstruction of Train Depot

CLIENTS & PARTNERS





BACKGROUND

The French public state-owned public transport operator, RATP, now runs the world's third-largest urban transport system. Its historic train maintenance workshop at Saint-Fargeau, opened in 1904, needed to be modernized to support its new fleet of trains.

OBJECTIVE

To reduce waste and costs associated with the train depot's modernization.

NEO-ECO'S APPROACH

Mission 1: carried out a pre-deconstruction diagnostic and resource assessment

Mission 2: environmental project management assistance for cleaning / demolition work for the full project lifecycle, including assistance in writing the technical requirements that were later inserted into the public works tenders

Mission 3: environmental project management assistance for the reconstruction work, including embedding material and product reuse strategies within the new design

> This work is ongoing.

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CASE STUDY · 04

Ukraine Reconstruction

SAMPLE PROJECTS



Rubble Cleaning with Veterans

Designed a social circular economy program employing veterans for rubble clearance — prioritising post-traumatic healing and economic reintegration alongside material recovery.

PARTNER

MISSION east



AI-Powered Damage Assessment

Used computer vision and drone/satellite imagery to classify building damage across the entire Mykolaiv region and model reconstruction costs using recycled vs. virgin materials.

PARTNERS

UADAMAGE

MISSION east



Dual-Use Community Shelter

Designed an underground pump shelter with dual function as a school and community centre — co-designed with local children and adjusted by professional engineers.

PARTNERS

CAID
A Crown Agents Registered Charity

UBS

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