

Dunkirk, an industrial port area

- A conurbation of 200,000 inhabitants, within an employment area of 254,000 inhabitants
- 9 Europe's leading energy hub
- 9 Dunkirk Port :
 - France's 3rd largest port (48.4 Mt in 2021)
 - the 1st port complex with the Nord de France ports (Boulogne/mer, Calais) with almost 100 Mt of traffic
 - Capable of accommodating the world's largest vessels, including the latest generation of container ships.
 - A port connected to one of the busiest maritime straits in the world
- A strong production base (metallurgy, steelmaking, chemicals, etc.)
- 9 Historically flourishing sectors that have now disappeared (refineries, etc.)







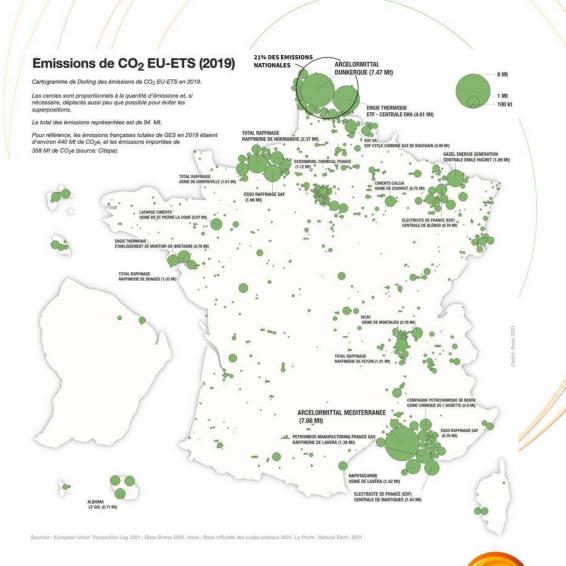






Dunkirk, a high-stakes area

- The Dunkirk area will have emitted 16 Mt CO2eq in 2021, 20% of French industrial emissions
- Cooperation initiated by the industrialists themselves
- Decarbonisation to be reconciled with major industrial development in the industrial port area
- Decarbonisation accompanied by resilient urban development with ambitious neutrality targets



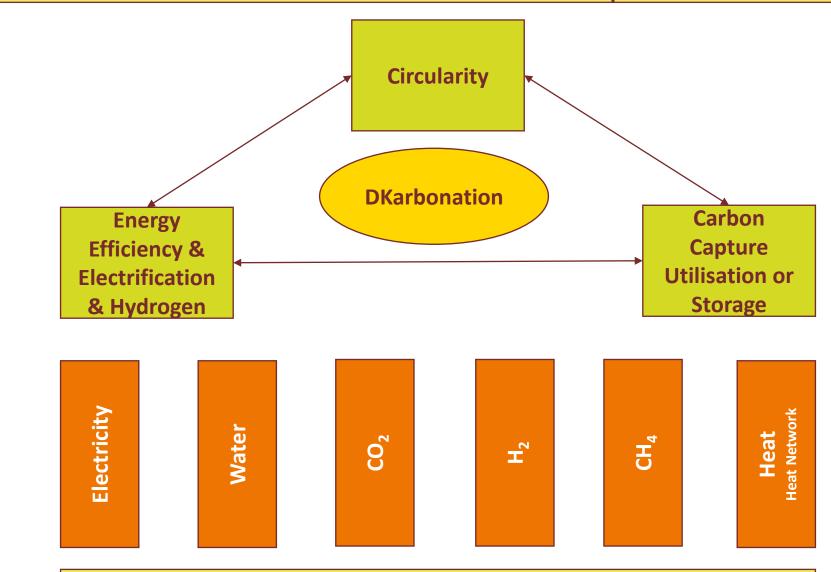












Territory roadmap - ZIBaC management - Vertical & Horizontal spread - Environnemental and Society impacts

Collective infrastructures: electricity, CO2, H2, heat highway, industrial and sea water

DUNKIRK, A LOW-CARBON INDUSTRY AND MOBILITY AREA













CIRCULAR ECONOMY IS IN THE HEART OF OUR COMMITMENT!

ACT AND COMMIT TOGETHER



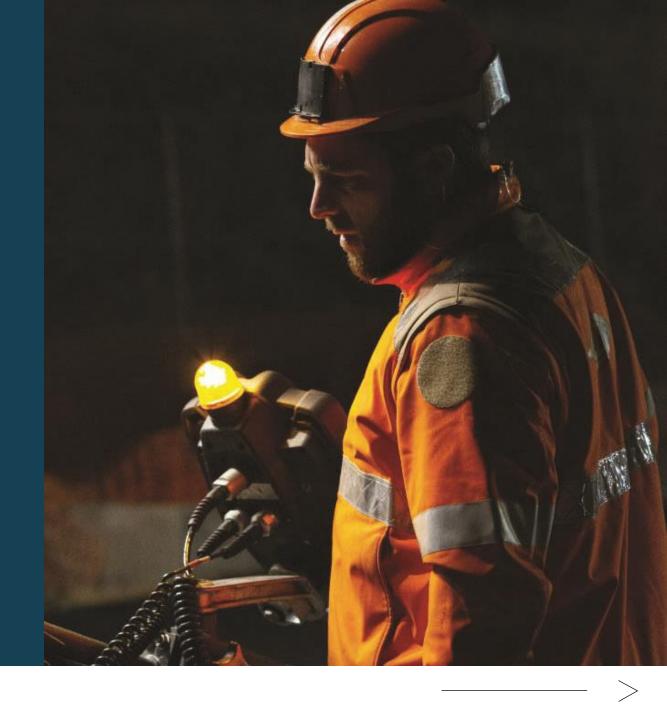




Liberté Égalité Fraternité



- 1 INTRODUCTION TO COLAS GROUP
- MEANS AND CONSTRUCTION PROJECTS COLAS DUNKERQUE
- 3 SOME USECASES OF CIRCULAR ECONOMY



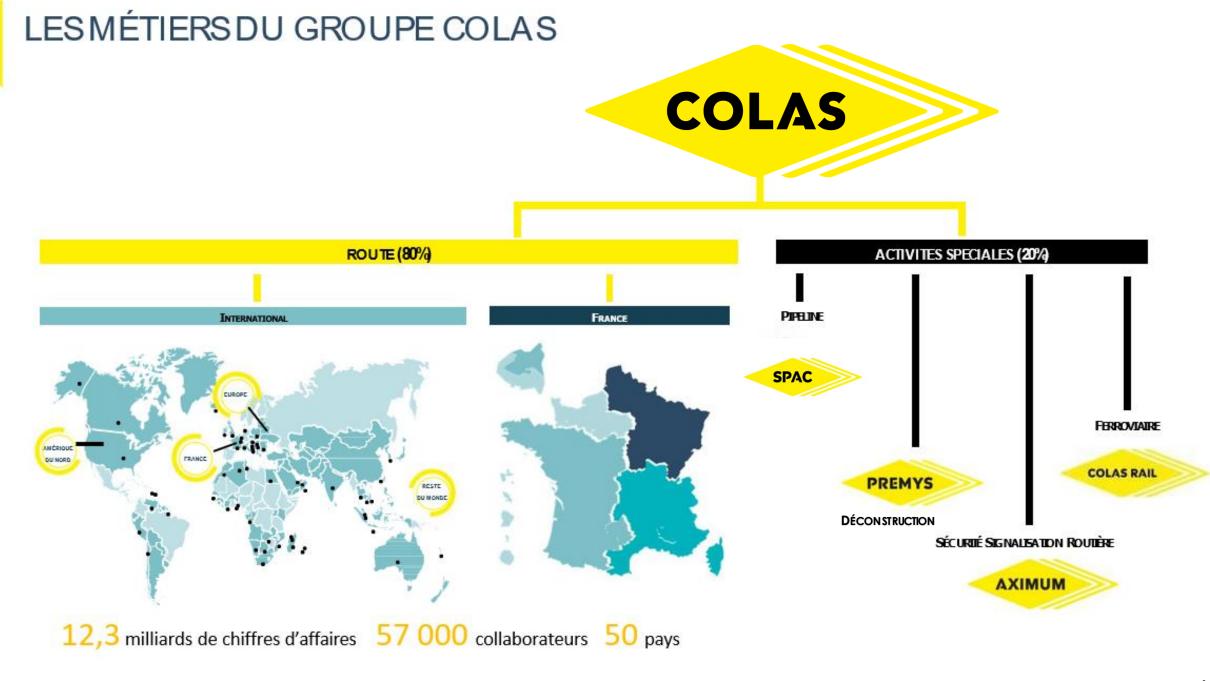
INTRODUCTION TO COLAS GROUP



COLAS,
PART OF BOUYGUES
GROUP







ROADSA GREAT WORKS DIVERSITY



Roads Route de l'Est (Côte d'Ivoire)



Highways Highway A40 (France)



Civil Engineering Duchesnay Creek bridge(Canada)



Airport runways Bangkok (Thaïlande)



Port terminals
Prince Rupert (Canada)



Urban designSaint-Dié-des-Vosges (France)



TramsBirmingham (Royaume-Uni)



High Quality Service Buses Nîmes (France)



Bike pathsRégion parisienne (France)



Parking lots
Mulhouse (France)

CONSTRUCTION MATERIALS

INTERNATIONAL DENSE NETWORK OF PRODUCTION, STORAGE AND RECYCLING SITES





463 quarries and gravel quarries (in operation)



174 concrete mixing plants



147 emulsion plants



518 asphalt plants 420 recycling facilities



1 bitumen refinery in Kemaman (Malaisie)



71 bitumen storage terminals

LOCATIONS





TERRITOIRE NORD-EST - IMPLANTATIONSTRAVAUX



Présent sur 22 départements

5 000 collaborateurs

55 implantations travaux

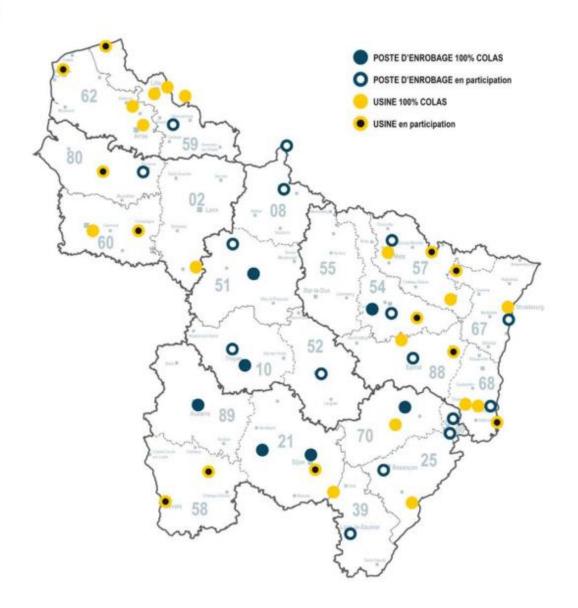
1 Dir d'exploitation - 5 Dir régionaux

45 Chefs d'établissements

Plus d' 1 milliard € de Chiffre d'Affaires

Plus de 5500 chantiers réalisés par an

USINES ET CENTRALES



- 43 usines d'enrobage
- 6 usines de liants et d'émulsion
- 2 centrales de malaxage à froid
- 2 400 000 tonnes d'enrobés

57 000 tonnes de liants et d'émulsion





OUR CSR COMMITMENTS TO OUR STAKEHOLDERS

Consolidate an exemplary culture of **ethics and compliance**

Offer our customers and users solutions that meet the challenges of sustainable regional development

Building a responsible supply chain anchored on sustainable performance

Consolidate a **health and safety culture** to protect



Implement a low carbon and biodiversity strategy to contribute protecting the planet

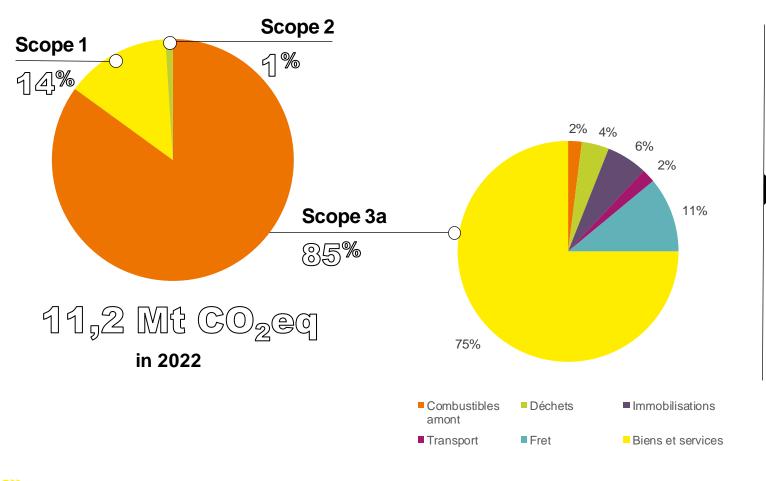
Promote our circular economy solutions to preserve natural resources

Attract, develop and retain talent through managerial excellence

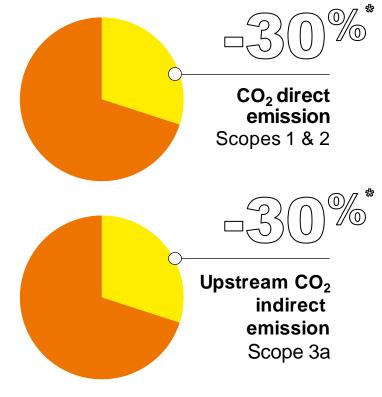
Reduce the impacts of our activities to reinforce their acceptability

CARBON DIOXYDE STRATEGY

CARBON FOOTPRINT



TARGET 2030



* reference year: 2019



PROMOTING CIRCULAR ECONOMY SOLUTIONS TO PRESERVE NATURAL RESOURCES

· Traitement des matériaux

Production de granulats et d'enrobés bitumineux

recyclés

et des déchets

- **R&D TO VALORIZE MATERIALS**
- **DEVELOP VALORIZATION PLATFORMS AND THEIR USE**
- OFFERING CIRCULAR ECONOMY SOLUTIONS TO OUR CUSTOMERS
- INTEGRATING THE CIRCULAR ECONOMY ISSUES THROUGHOUT THE ENTIRE GROUP





Recycled asphalt pavements RAP/micro-milling technique, on the route 81 in the State of New-York, in the USA



Recycling and valorization with a mobile crusher **Public works**

17 Mt Recycled materials



Territorial coverage

Recycling and valorization sites in your vincinity

16%

Recycled asphalts in asphalt proiduction





Récupération

Construction

ou réfection de chaussées

de déblais, de matériaux

de déconstruction et de déchets industriels

2

MEANS AND CONSTRUCTION PROJECTS COLAS DUNKERQUE

SUBGRADE MATERIALS RECYCLING





SDVM recycling facility

Located in Saint Pol/Mer

Capacity: 100 000 T

Products: 0/80 et 0/31,5



WHERE THE MATERIALS COME FROM



ROAD PLANING

Contribution of materials made up of + 80% coated materials



BUILDING DEMOLITION

Materials made up of + 90% concrete



EXISTING ROADWAYS DECONSTRUCTION

Mixed materials with variable composition



EARTHWORKS
Pebble earth materials



ASPHALT PLANT





SDME asphalt plant

Locates near our Dunkerque premisses

Capacity: 240 T / hour

Recycling capacity up to 50%



3

SOME USECASES OF CIRCULAR ECONOMY

COLAS NORTH OF FRANCE, PLAYER IN THE CIRCULAR ECONOMY

VALUATION IN THE "HAUTS-DE-FRANCE" REGION OF FRANCE



• Slag heap in Loos en gohelle → from 125 Kt to 160 Kt/ year



Former Vermelles thermal power station → 20 Kt/year PROMAT



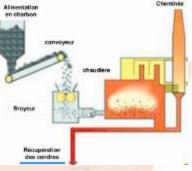
• Lourches facility: 120 Kt/year

Carbonate Balls

City of Loos limestone water treatment plant → 2 000 T/ month





















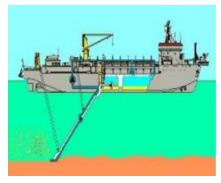


GPMD Quai de Flandres



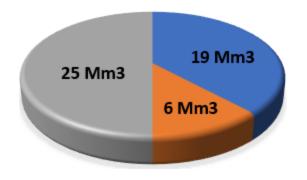
CONTEXT

THE ISSUE OF DREDGED SEDIMENT FROM HARBOR SITES





- Maintenance of harbor basins
- Deepening of access channels
- Harbor developments



■ PORT MARITIMES

■ PORT D'ESTUAIRES

AUTRES PORTS

(Dunkerque, Calais, Boulogne, le Havre..)

(Rouen, Nantes – St-Nazaire, Bordeaux)

(Autres ports : façade atlantique et méditerranéenne)



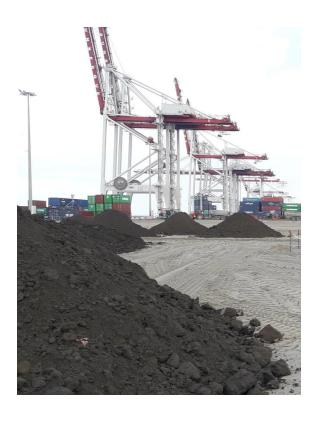
50 million m3 of sediments dredged in France each year



QUAI DE FLANDRES SITE - DUNKERQUE HARBOR (GPMD): 11/2021 - 09/2022

Use of sediments in treated subgrade: 165,000 m²

- 45 cm subgrade layer treated with 4% road hydraulic binders with
 - 80% sand from site
 - 20% marine sediments (36 300T) treated with 3% live quicklime (CaO)





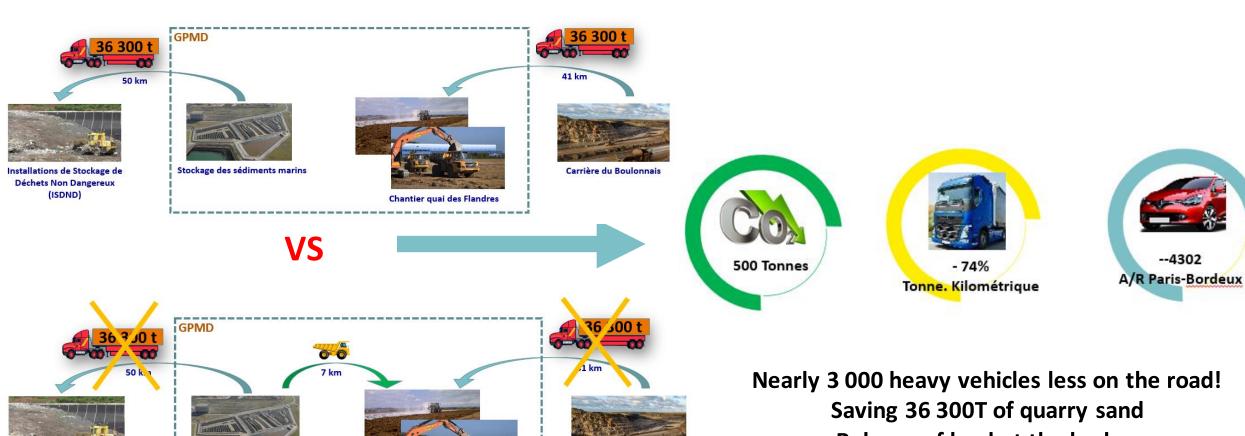


2021 - QUAI DE FLANDRES SITE - DUNKERQUE HARBOR : 11/2021 - 09/20





>) CO₂ saved thanks to this variant compared to a basic solution with sediment evacuation



Carrière du Boulonnais

Chantier quai des Flandres

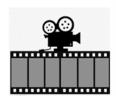
Release of land at the harbor



Installations de Stockage de

Déchets Non Dangereux (ISDND)

Stockage des sédiments marins









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