



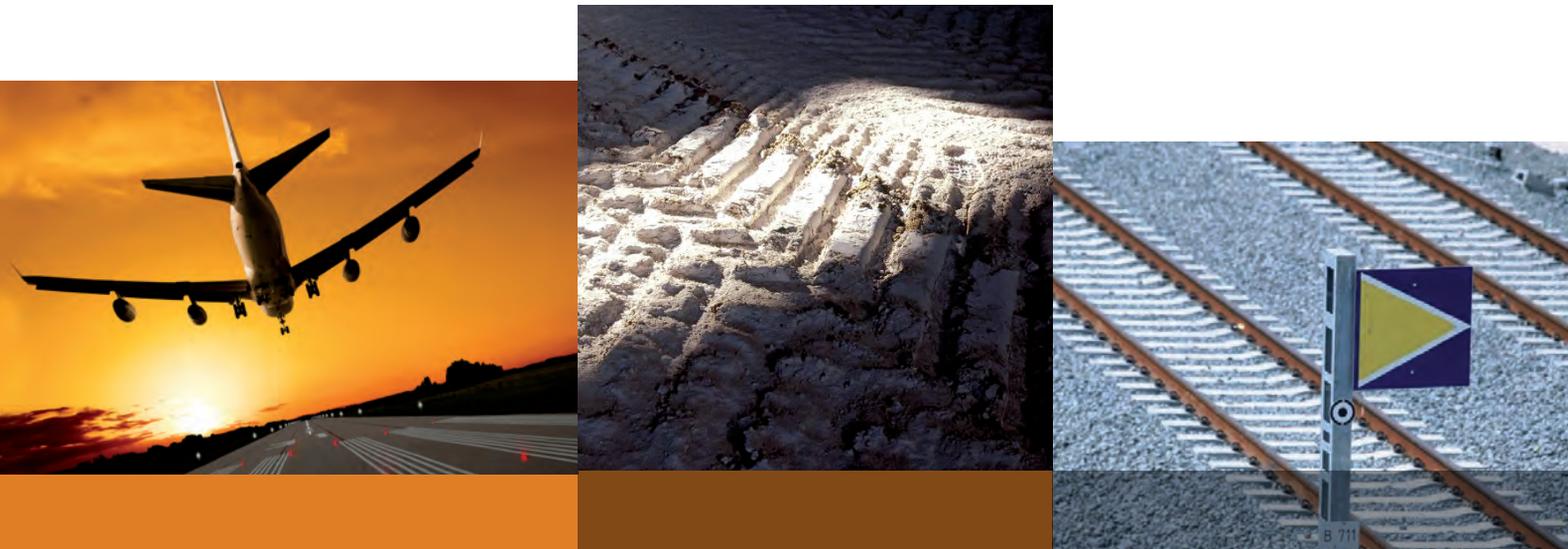
**Proviacal®**

Proviacal® RD,  
the eco-friendly solution



For soil treatment  
in your civil engineering projects





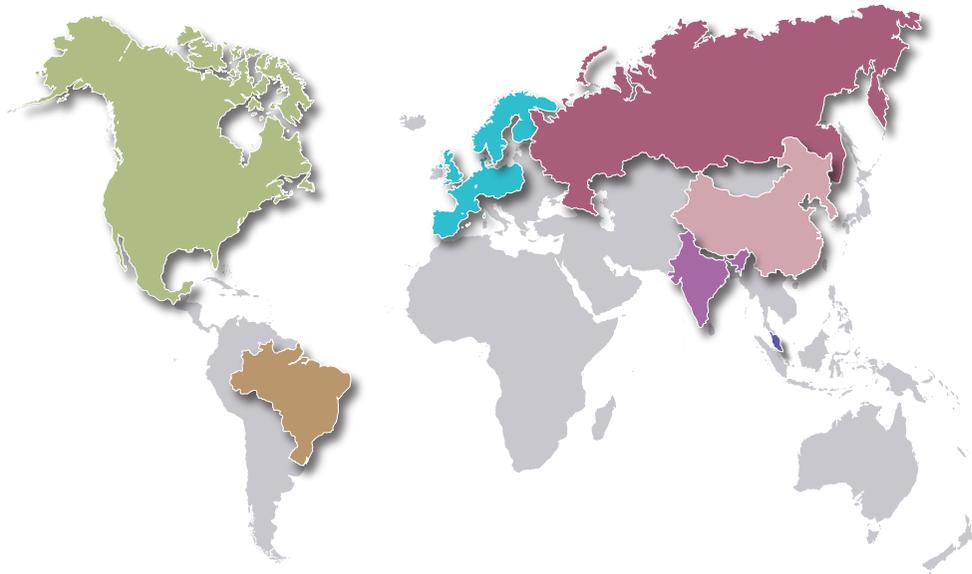
Proviacal® RD, the solution  
for all your sensitive on-site projects

**Roads, railways, car parks, trenches, buildings,  
flood defences, distribution centres, airports**

Economical, effective,  
clean and reliable

# Lhoist

An international, industrial group  
and a partner for civil engineering



The Lhoist Group meets its customers' requirements daily through their capacity for innovation founded on the expertise of its employees, the technological knowledge and the exceptional quality of its mineral deposits.

Its understanding of processes, the diversity of properties in the product range and its industrial facilities throughout the world position the group as a key partner in multiple industries and business sectors (steel, paper, water, environment, agriculture, construction, chemistry etc.)

In civil engineering, its entrepreneurial spirit and reactivity are key strengths that enable Lhoist to be a major partner and to provide solutions for projects of all types and sizes.



## The Lhoist offer

The Lhoist offer is developed on a case-by-case basis in order to offer a tailored response to all of its customer's individual requirements. It combines:

### KNOWLEDGE

to provide reliable and effective solutions



### REAGENTS

selected from the Lhoist product range



### SERVICES

appropriate and effective (logistics, equipment, technical assistance)



## THE BENEFITS OF LIME

### Added-value of material by on-site treatment

The products in the Proviacal® range

benefit from the advantages

of their main component,

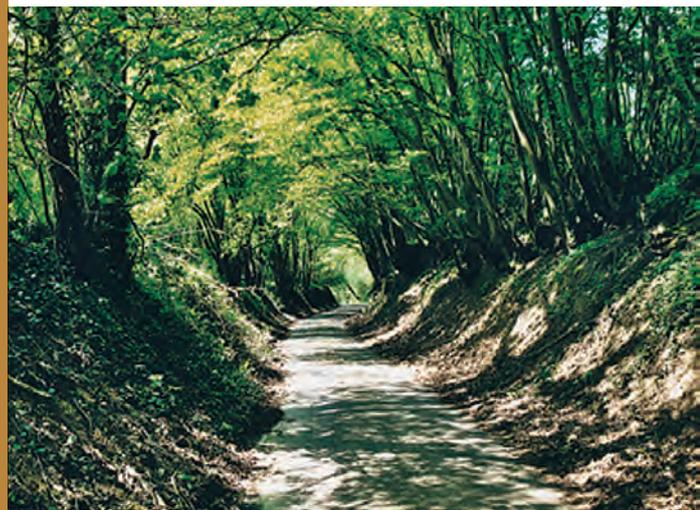
calcium air lime

- Drying and conditioning of soils
- Using on site resources effectively
- Increasing mechanical performance of soils
- Reducing the extraction of primary aggregates
- Avoiding disposal of excavated soils
- Reducing work site traffic on the local road network by up to 95%
- Reducing construction times and costs



## Proviacal® RD

Lime reagents  
with reduced  
dust emissions



### ADDED VALUE OF PROVIACAL® RD

- 90% dust reduction
- Allows work on sensitive sites
- Reduced wind-related downtime
- Ease of application
- Improved health and safety
- Improved working conditions
- No special equipment required
- Compliant with standards
- Reduced insurance risk

### Improved safety and lower dust emissions into the environment, reducing risks of contamination for :

- Natural areas
- Cultivated areas
- Urban spaces
- Business areas
- Environments exposed to wind
- Operating infrastructures
- Confined spaces

90%  
less dust

PROVIACAL® RD

CONVENTIONAL LIME



savings  
on the cost of works  
for sensitive sites

# EXAMPLE PROVIACAL® RD REFERENCES

## Belgium

N2 national road in Bilzen and N20 national road in Hasselt, platforms for housing estates, car park Expo in Gent, industrial platforms in Kortrijk and Waregem, logistics platform in the Namur region, RER network in Brussels, wastewater treatment plant in Basse Wavre, Brussels South Charleroi Airport, recycling of excavated trenches (50 work sites per year).

## Germany

Office car parks in Frechen, excavated trenches in Niederaußem, a dike near residences in Wuppertal, recycling of excavated trenches (25 work sites per year).

## Denmark

N505 in Århus, Gørløse bypass (Seeland), N18 Brande Give and Riis-Ølholm.

## France

Paris, Evreux, Le Havre, Toulouse, Bordeaux Airports, modification of infrastructures for the Airbus A380 in Toulouse and Lille, widening of the A13 and A10 motorways, A4 motorway to Reims, 286 National Road in Versailles, Theme park near Paris, platforms for automotive industries in the south of Paris and in the north of France, the East and Rhine-Rhone High Speed Train lines, tram-train and RER station in the east of Paris, treatment of clay aggregates and quarry scalping products, logistics, commercial and industrial platforms, police station in the north of Paris, nurseries and garden centres in northern France, Gaumont Cinema platform near Paris, Poitiers Hospital, recycling of excavated trenches (200 work sites per year).

## The Netherlands

A35 motorway in Enschede, N61 national road in Terneuzen, A50 motorway in Eindhoven.

## Poland

Upgrade of the Lodz tramway.

## Czech Republic

Prague and Ostrava Airports, aircraft shelters at the Caslav military airport, Olomouc aquapark, logistics, commercial and industrial platforms, treatment under storage hangars, upgrade of over 60 km of operating railways, D5, D8, and D11 motorways, platforms for car manufacturers in Kolin and in Kvasiny, recycling of excavated trenches, sewage sludge treatment.

## United Kingdom

Logistics platform in Southampton.





## **Proviacal® , an evolving range of lime products for the treatment of materials in civil engineering**

Treatment on sensitive sites

Treatment of wet soils

Treatment of dry soils

Development of excavated material: dry process

Development of excavated material: liquid process

Pozzolanic activation of hydraulic gravel

Mineral reagents for mortars and underground work

**Proviacal® RD**

**Proviacal® ST**

**Proviacal® SL**

**Proviacal® DS**

**Proviacal® LS**

**Proviacal® GT**

**Proviacal® H / SP**

### **Proviacal®**

the Lhoist range of products  
for civil engineering

Also visit: [www.proviacal.com](http://www.proviacal.com)  
[www.lhoist.com](http://www.lhoist.com)

