



Belgisch **Wegen**congres  
Congrès belge de la **Route**

LEUVEN • 4-7.04.2022

La numérisation de la construction grâce aux normes ouvertes





# La numérisation de la construction grâce aux normes ouvertes

## ISO 15143-4

En tant que fournisseur de logiciels et de services, Arkance reconnaît et accepte la nécessité de créer une solution BIM infra ouverte pour répondre aux besoins de toutes ses parties prenantes. Comment les données peuvent circuler de manière transparente et servir les propriétaires, les concepteurs, les entrepreneurs et les exploitants, en utilisant des solutions basées sur des formats et des normes ouverts (IFC, Inframodel, LandXML, ISO 15143-3/4,...) pour mettre les informations à la disposition de chaque participant de l'écosystème.



## Bienvenue

### **Bram JANSSENS**

Teamleader Application Engineers  
Allterra Belux / Sitech Belgium



### **Simon VERCAUTEREN**

Industry Sales  
Arkance Systems Belux



# ARKANCE

A COMPANY OF THE MONNOYEUR GROUP



# Monnoyeur DNA:

● ACTOR OF THE (R)EVOLUTIONS OF THE CONSTRUCTION INDUSTRY

1906




2022


# Who is ARKANCE?

## Groupe Monnoyeur

Digitalization of the Construction industry

**ENERGY & POWER GENERATION**



**Eneria** 

**HANDLING SOLUTIONS**




**Aprolis**   
LOUEUR DE MANUTENTION


**AGRICULTURE MACHINERY**



 **IPSO**  
Agricultura

**CONSTRUCTION MACHINERY**



**Bergerat Monnoyeur** 



**ARKANCE**

**ARKANCE SYSTEMS**



**DESIGN**

**ARKANCE FIELD**



**BUILD**



**Partner to Build Smarter**

# OUR TEAM



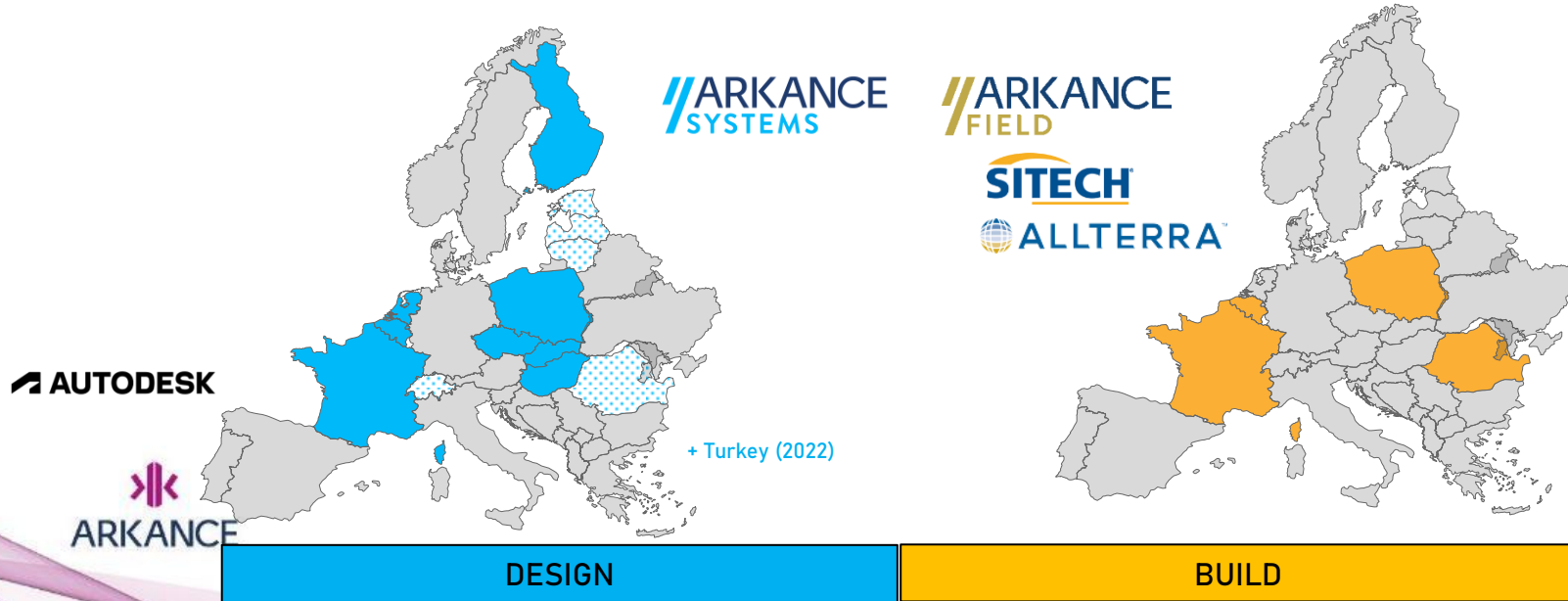
~700  
Passionate  
Employees



+1  
Countries



International  
Expertise



ARKANCE  
SYSTEMS

ARKANCE  
FIELD

SITECH

ALLTERRA

AUTODESK



Trimble



# ARKANCE

Our Mission

Your Partner to Build Smarter



# VISION

## WHERE WE GO!

TOP PROFESSIONALS STRIVING TOGETHER FOR EXCELLENCE.

We partner with our customers to join our forces and guide them along the endless path of digital transformation to better build the world.

We are an international network bringing the best solutions to our customers wherever we are.

We are pioneers exploring the possibilities of the digital future for construction and manufacturing industries.



# DIGITALIZATION

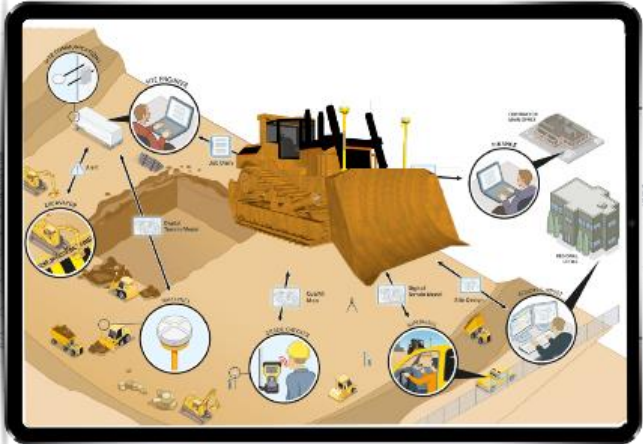
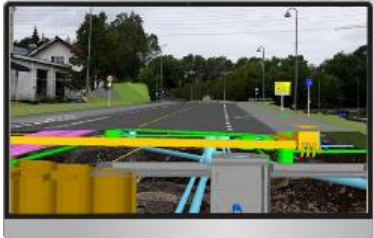
AT THE OFFICE

BIM BUILDINGS & INFRASTRUCTURE



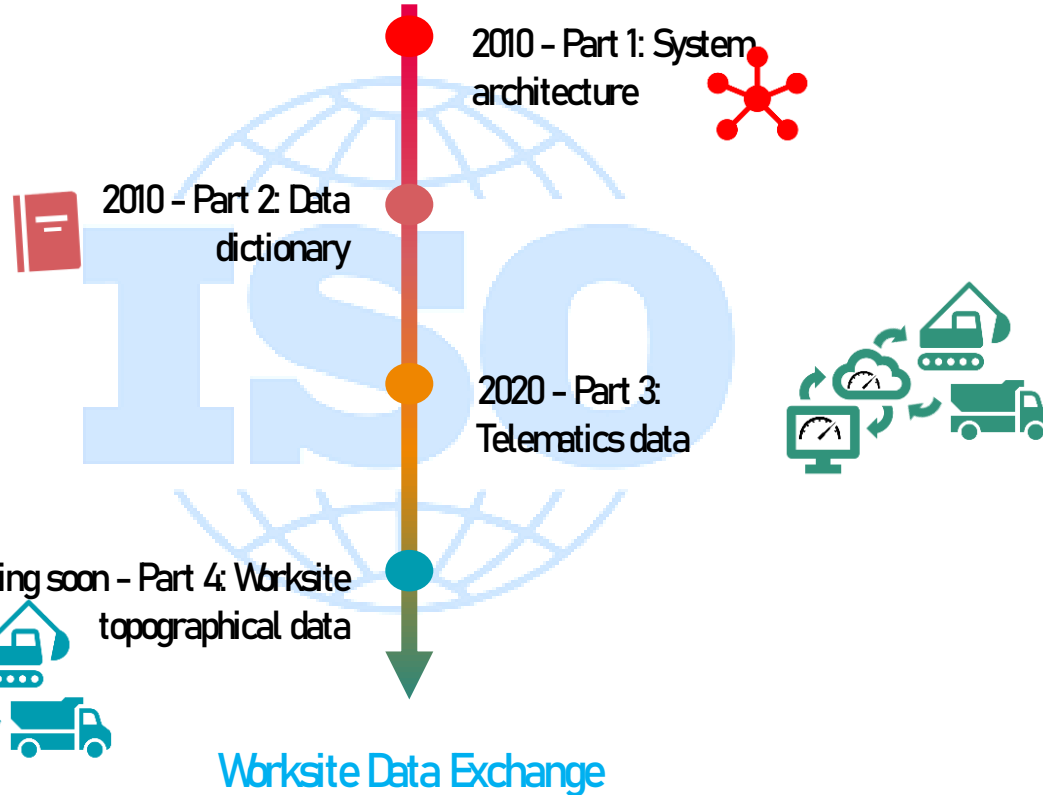
ON THE FIELD

INTELLIGENT MACHINES & CONNECTED EQUIPMENT

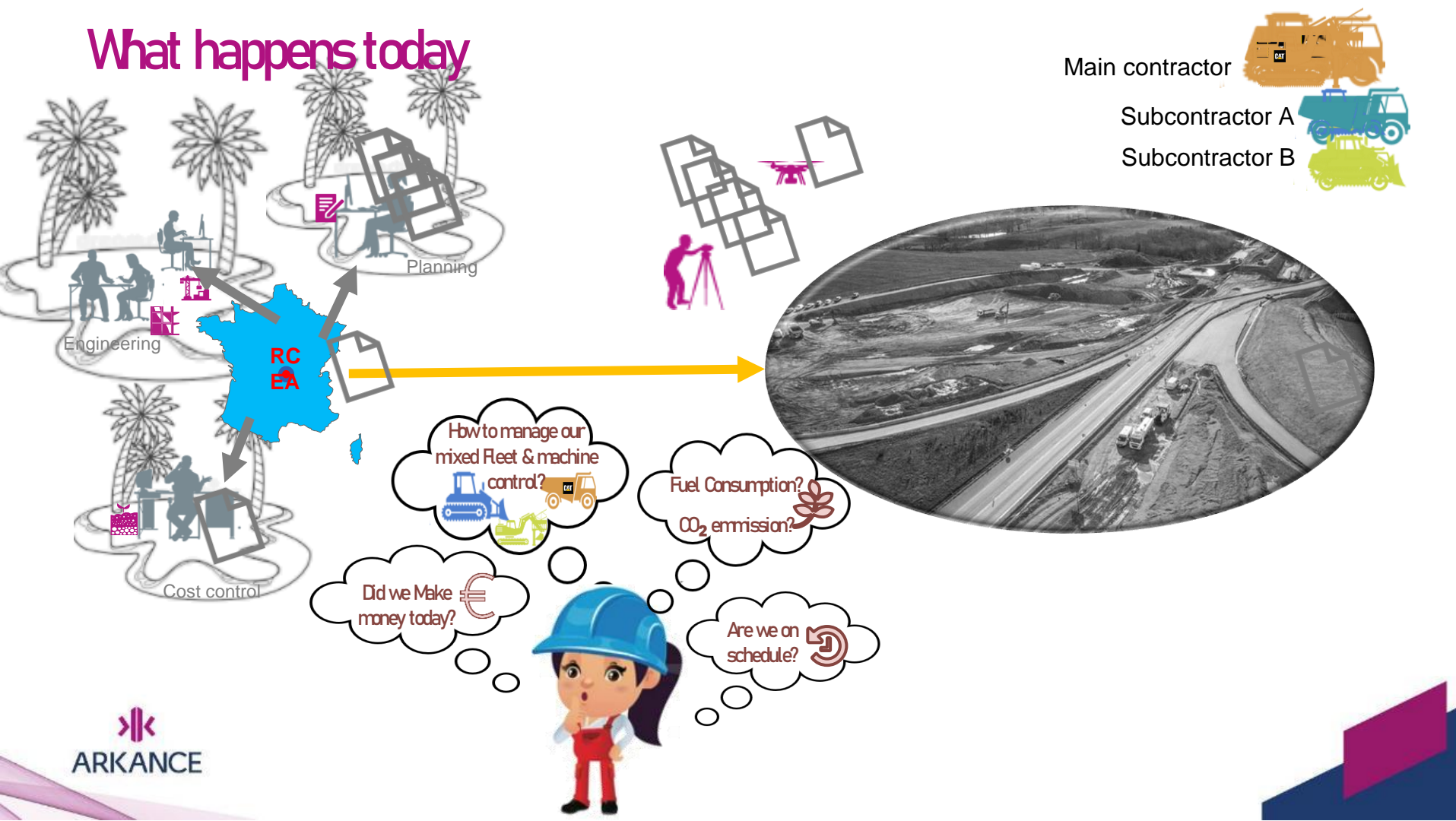


# Interoperability

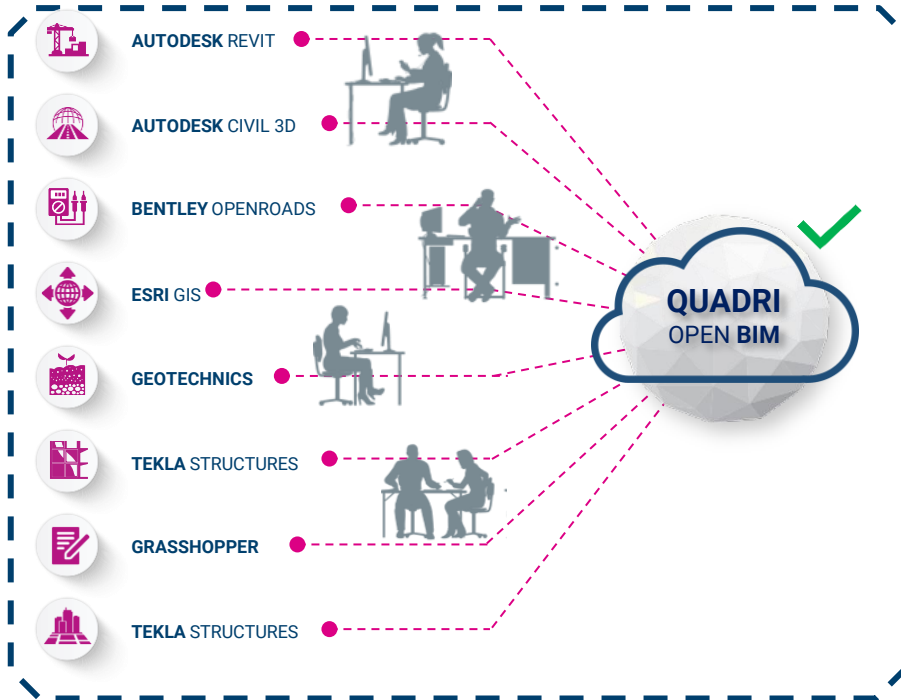
Open standard ISO 15143 for earth-moving machinery and mobile road construction machinery



# What happens today

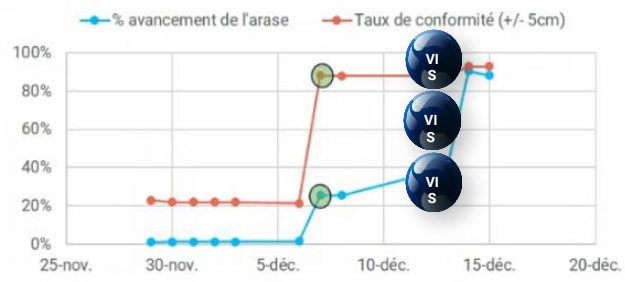
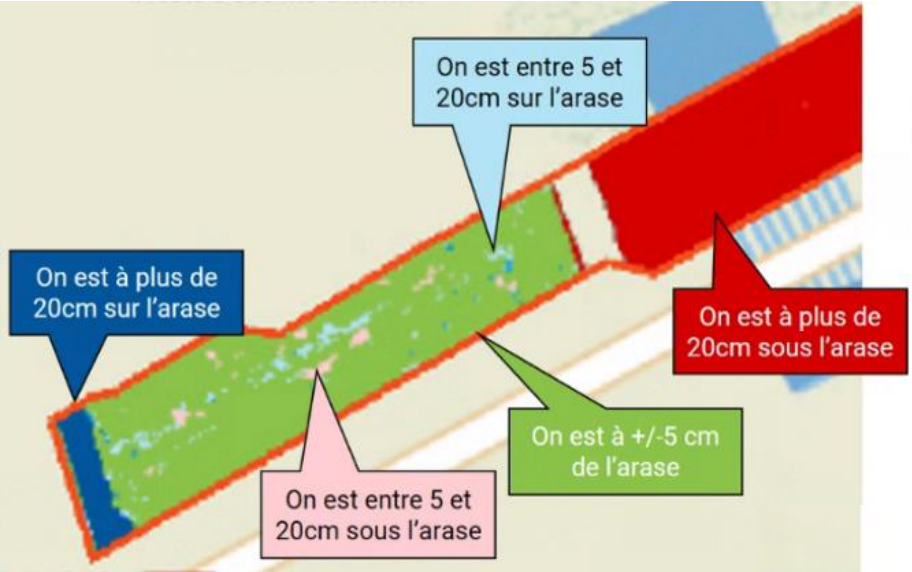


# What can Arkance optimize?



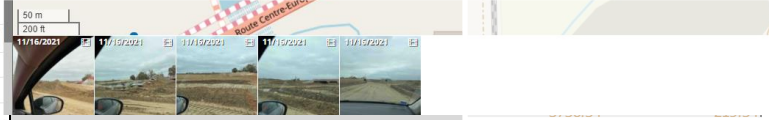
Central Collaboration platform that is able to connect different teams and different design environments

DESIGN



- X SITE
- CONX
- SITELINK
- WORKSMANAGER

Speed	Unknown
Precision	Good
Orientation	Unknown
Daytime	Day



CO<sub>2</sub> emission?

Did we Make money today? €



We get productivity info from connected  
By integrating telematics information from every  
multiple vendors, you get an aggregated overview  
of running hours, fuel consumption, CO<sub>2</sub>  
emission,...

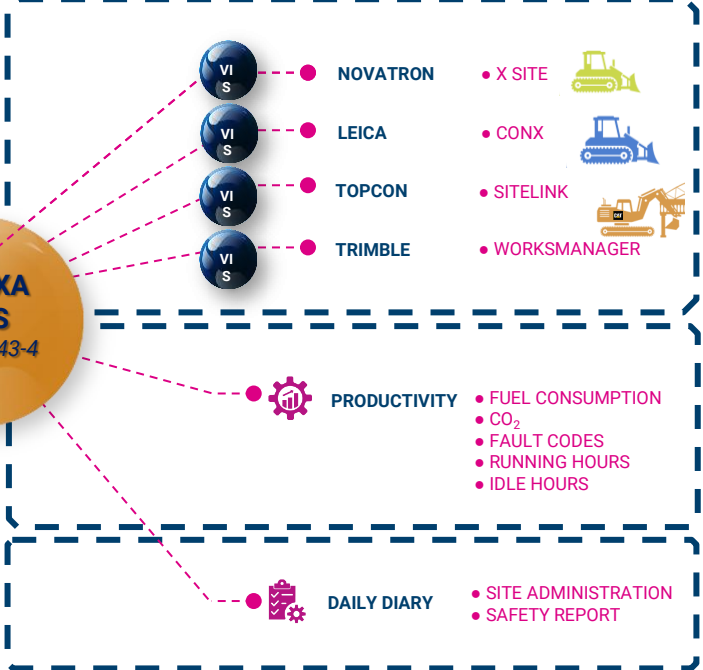
**PRODUCTIVITY**

- RUNNING HOURS // IDLE HOURS
- FUEL CONSUMPTION
- CO<sub>2</sub>
- FAULT CODES > maintenance

**DAILY DIARY**

- SITE INSPECTION
- SAFETY REPORTS

# Hblixa Site Management System



MIXED FLEET & MIXED  
MACHINE CONTROL SUPPORT

PRODUCTIVITY INSIGHTS

SITE ISSUES



+

MONEY MADE TODAY





Seamless Dataflow



AUTODESK REVIT



AUTODESK CIVIL 3D



BENTLEY OPENROADS



ESRI GIS



GEOTECHNICS



TEKLA STRUCTURES



GRASSHOPPER



TEKLA STRUCTURES



QUADRI  
OPEN BIM



IFC

LANDXML  
(INFRAMODEL)



HOLIXA  
SMS  
ISO 15143-4



NOVATRON

X SITE



LEICA

CONX



TOPCON

SITELINK



TRIMBLE

WORKSMANAGER



PRODUCTIVITY

- FUEL CONSUMPTION
- CO<sub>2</sub>
- FAULT CODES
- RUNNING HOURS
- IDLE HOURS



DAILY DIARY

- SITE ADMINISTRATION
- SAFETY REPORT

DESIGN COLLABORATION

DATA MANAGEMENT

SITE MANAGEMENT

DESIGN

BUILD

MIXED FLEET

PRODUCTIVITY

ADMINISTRATIVE

ARKANCE

ARKANCE





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Congrès belge de la **Route**

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## UNE ORGANISATION



**ABR**

Association  
Belge de la Route



AGENTSCHAP  
**WEGEN & VERKEER**

## AVEC LE SOUTIEN DE



Centre de  
recherches routières



**BRUXELLES MOBILITÉ**  
SERVICE PUBLIC RÉGIONAL DE BRUXELLES



**FBEV**  
Fédération Belge des Entrepreneurs de Travaux de Voirie asbl




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