DRONEMATRIX

UNMANNED AERIAL SOLUTIONS

BUILDERS OF DRONE NETWORKS IN PRIVATE AND PUBLIC ENVIRONMENTS

www.dronematrix.eu

WHO WE ARE - RISKMATRIX GROUP

RiskMatrix is a software, technology and consultancy company with a solid track record in the **SECURITY SERVICES** business – **SAFOX & CURA SOLUTIONS**

RiskMatrix is operational in **20 countries** in the EU, the Middle East, Asia & Australia

Smart Technology and **Drone Solutions** are the logical next steps of the evolution of the RiskMatrix vision.

"*Let's go from physical proximity to **remote proximity***!"

DRONEMATRIX

WHO WE ARE - DRONEMATRIX

We build **intelligent, automated drones** to operate over industrial environments (Industry 4.0), **smart cities**, **smart regions** and **smart ports**.

"*It is a cost-efficient solution for many industries and essential to ensure a safer future*."

Our versatile drone **YACOB** is the main driver that enables the **6th NeTWorK**. Our mission is to offer drone technology on an **industrial scale** in **a shared services model** where a single drone installation will deliver **multiple services to multiple end-users**.

DRONEMATRIX

WHO WE ARE - DRONEMATRIX

We are value creators for the Belgian drone industry, driven by a passion for technology, pragmatic thinking and the will to overcome challenges.

Visionaries of the aerial robotics shared service model

Leaders in the field of fundamental drone technology research

Architects of a new intelligent drone network topology

Manufacturers of automatic drone systems

Builders of the Aerial Robotic Work System

Operators of the YACOB platform in # use cases - nobody else

Exporters and **job creators** (Singapore, Middle East and EU)

DRONEMATRIX

THE VALUE PROPOSITION

DroneMatrix has the perfect product fit to suit the industry and governmental needs

Ready to go to market!

Industrial scalability

Fully compliant with new EU legal framework

Increasing effectiveness at a reduced cost

THE VALUE PROPOSITION

DroneMatrix is the ideal partner for **security**, **safety** and **inspections** – offering a solution for the rising pressure on companies to augment cost efficiency and reduce overall costs.

Faster interventions, better overviews of situations!

Reducing human errors. Our drone solutions go beyond human limitations – increasing effectiveness at a reduced cost.

THE SOLUTION - AN OFFER YOU CAN'T REFUSE

Aerial Robots are the solution:

They are **AUTONOMOUS** (YACOB drones and docking stations).

The are **NETWORK CONNECTED** (6th NeTWorK).

The use **SECURE COMMUNICATION** and they have **A.I. ON BOARD**.

They are produced through a
SMART MANUFACTURING process –
can be applied anywhere

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THE SOLUTION - AN OFFER YOU CAN'T REFUSE

DroneMatrix offers innovative products and services

YACOB - the worker drone and docking station of the 6th NeTWorK.

It's SMART

Automatically, take off, fly

Automatic precisely landing in the box or on marker

Computer control of the drone status

Onboard recognition

It's SAFE

Safety parachute - Wireless charging - Redundant

Safety in case of communication, motor or battery fail

It's CLIMATE PROOF

Protection against rain, snow dust, temperature (low-high)

Automated

Lidar sense and avoid

Return algoritmes - focus, track and follow

It's COMMUNICATIVE

Live data streaming - Video - Flightdata

Remote control on view and flight

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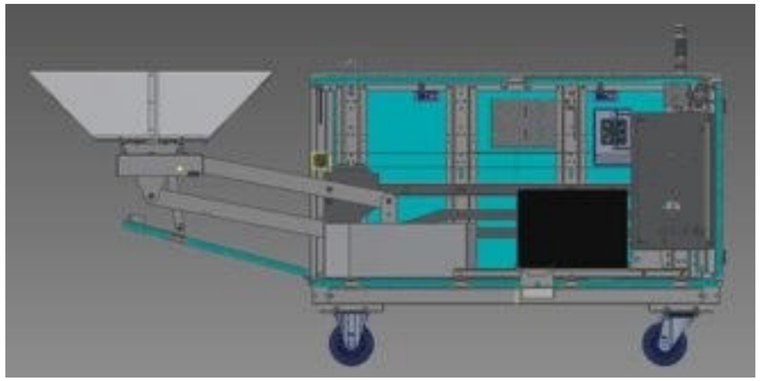
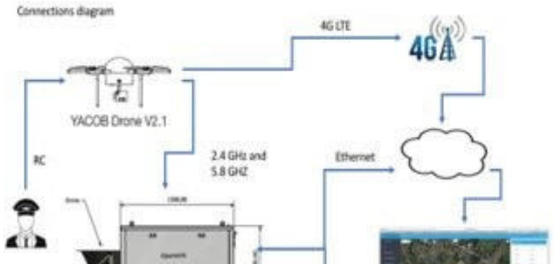
THE SOLUTION - AN OFFER YOU CAN'T REFUSE

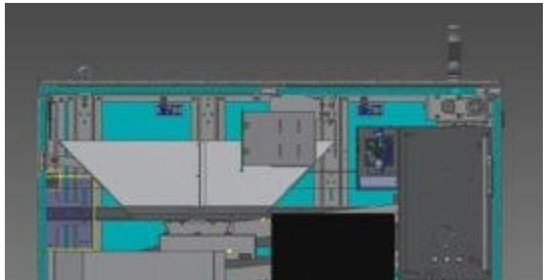
DroneMatrix offers innovative products and services

YACOB - the worker drone and docking station of the 6th NeTWorK



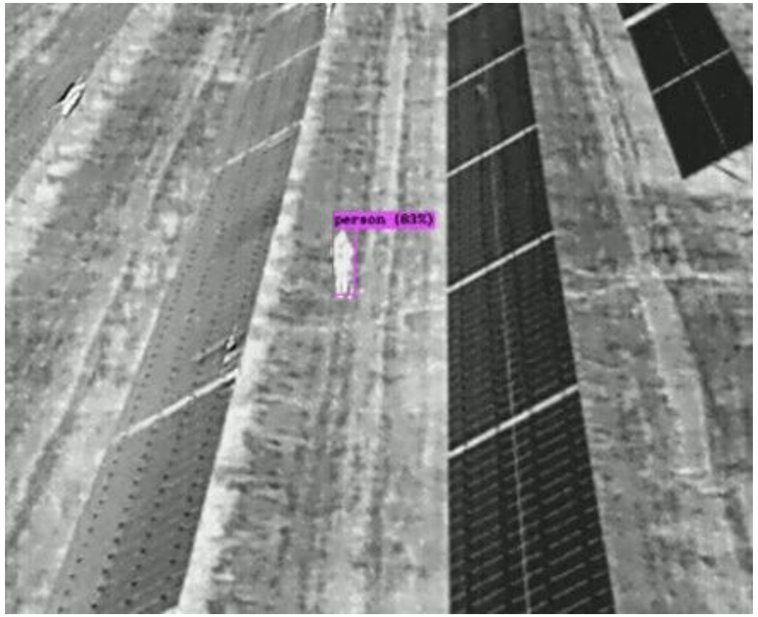
DRONEMATRIX

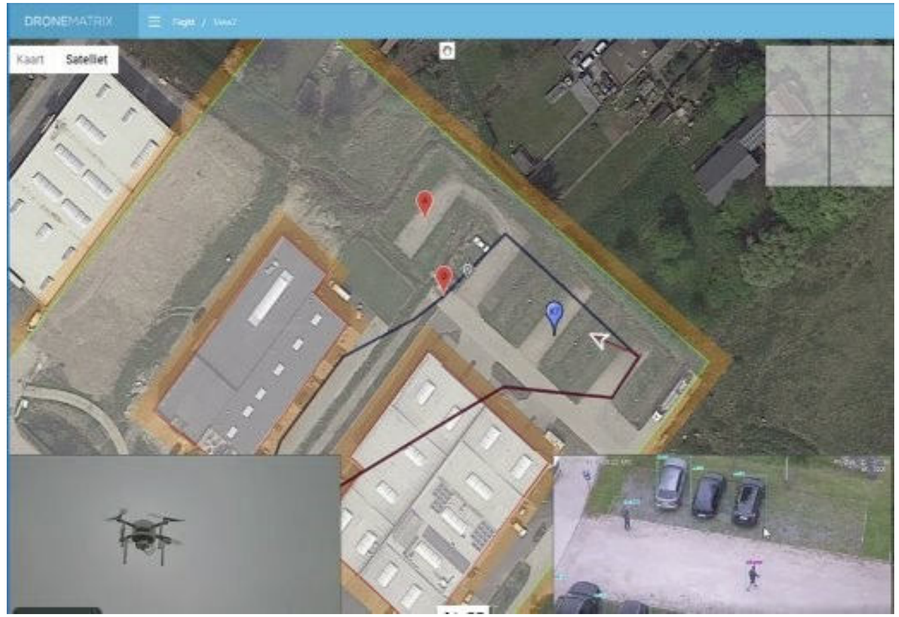




THE SOLUTION - AN OFFER YOU CAN'T REFUSE

AI - **Artificial Intelligence on board** - Track, trace and follow people, cars, containers, ships, boats,...





Look to the YACOB VIDEO https://vimeo.com/513425871

THE SEGMENTATION - POSITIONING

We are **aiming at very specific markets**, that have very specific needs – enabling us to create a drone like YACOB, able to compete with mass production robots. With the integration in the 6th NeTWorK the availablity of almost **unlimited vertical applications** is key for these targets and the industries they work in.

Smart Cities & Communities
Government Agencies and Emergency Services (police, ambulance, fire brigade)
Private Industry (companies with very large sites requiring inspection and security)
Smart Sea Ports & Airports
Renewable energy sites/plants

THE CHALLENGES TODAY

Connectivity for massive drone communication

Ensure the overall **service security**

Sense & avoid **protection**

Technologies for **deconfliction**

Automated operation & flight **authorization**

Optimal and **safe navigation**

The ARWS platform – **BVLOS mission management**

Integration into U-space and regulatory framework

Safety Management System (SMS)

THE ANSWER - THE 6TH NETWORK

We need an intelligent drone network to operate over industrial environments, smart cities, smart regions and smart ports.

It is a must-have and cost-efficient solution for government and many industries, essential **to ensure a safer future**.

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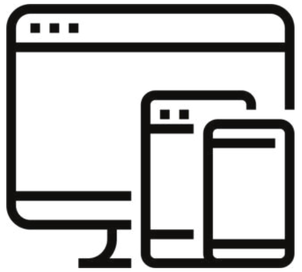
THE ANSWER - THE 6TH NETWORK

The 6th NeTWorK will have **a web platform (to be built) to manage the flights for drones beyond line of sight**: authorization, flight plans, output, data processing and analytics,...



It will incorporate 'drone as a service': **shared network of fully automated drones** and ready to fly on demand.

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6th NeTWorK
A DRONE NETWORK AT YOUR SERVICE

THE ANSWER - THE 6TH NETWORK

Drone use cases

First response (security, safety)
Inspection (infrastructures)
Mobility (observation)
Logistics (delivery, transportation, medical, goods)
Transport (humans)

Our goal is to offer a drone technology network on **an industrial scale** in **a shared services model** where a multiple drone installation will deliver **multiple services to multiple end-users**.

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THE ANSWER - THE 6TH NETWORK

The 6th NeTWorK is a partnership that merges the skills and capabilities of 3 leading companies. But, most importantly, **this platform remains open to third parties** and their developments and expertise, making it **a unique environment** to kickstart and develop sustainable drone technology solutions. With an important **First Mover Advantage**, this network will disrupt many industries in a positive and profitable way.

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proximus

skeydrone
Enabling safe drone operations

6th NeTWorK
A DRONE NETWORK AT YOUR SERVICE

SMART CITY - EARLY ADOPTER PROGRAM 1

Government

City
Police
Fire Brigade
Customs

Security
Construction
Logistics
Facility
Utility
Inspections

OFFER

SECURITY BUNDLE
CONSTRUCTION BUNDLE
MOBILITY BUNDLE
MEDICAL TRANSPORT BUNDLE
ENVIRONMENTAL BUNDLE
AGRICULTURE BUNDLE
SAFETY BUNDLE
LOGISTICS BUNDLE
INSPECTION BUNDLE

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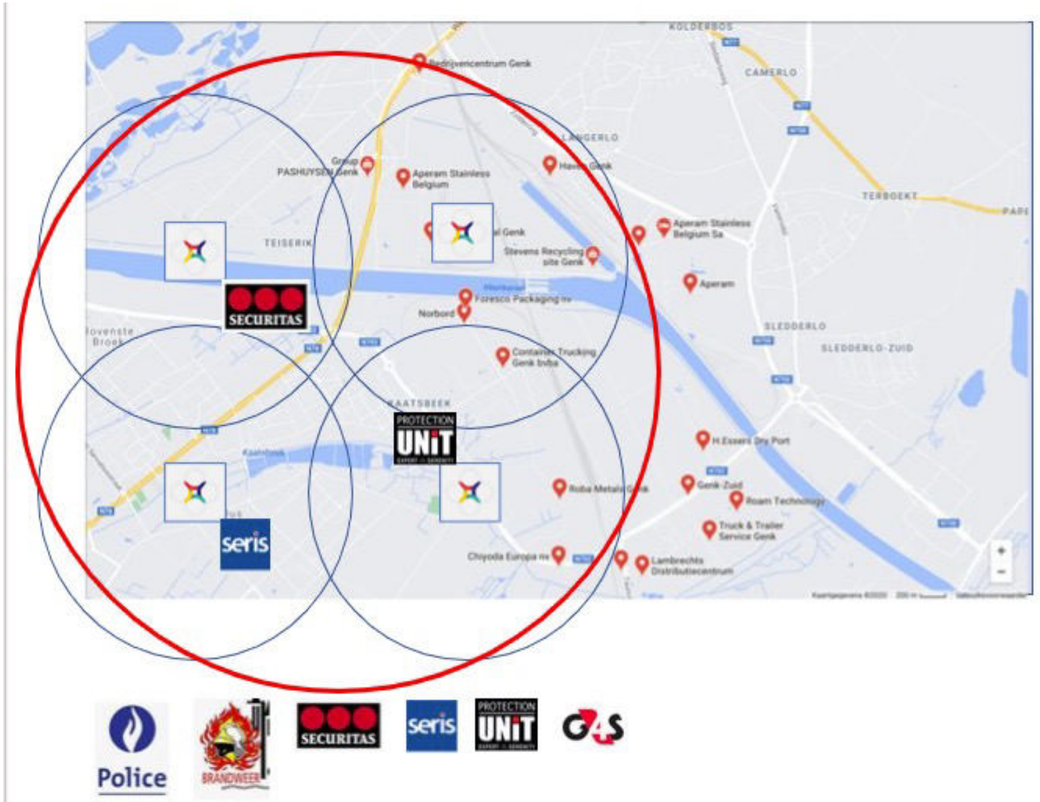
6th NeTWorK
A DRONE NETWORK AT YOUR SERVICE

INDUSTRY 4.0 - EARLY ADOPTER PROGRAM 2



Government

City

Police

Fire Brigade

Customs

Private Security

Construction

Logistics

Facility

Inspections

OFFER

SECURITY BUNDLE

CONSTRUCTION BUNDLE

MOBILITY BUNDLE

MEDICAL TRANSPORT BUNDLE

ENVIRONMENTAL BUNDLE

AGRICULTURE BUNDLE

SAFETY BUNDLE

LOGISTICS BUNDLE

INSPECTION BUNDLE

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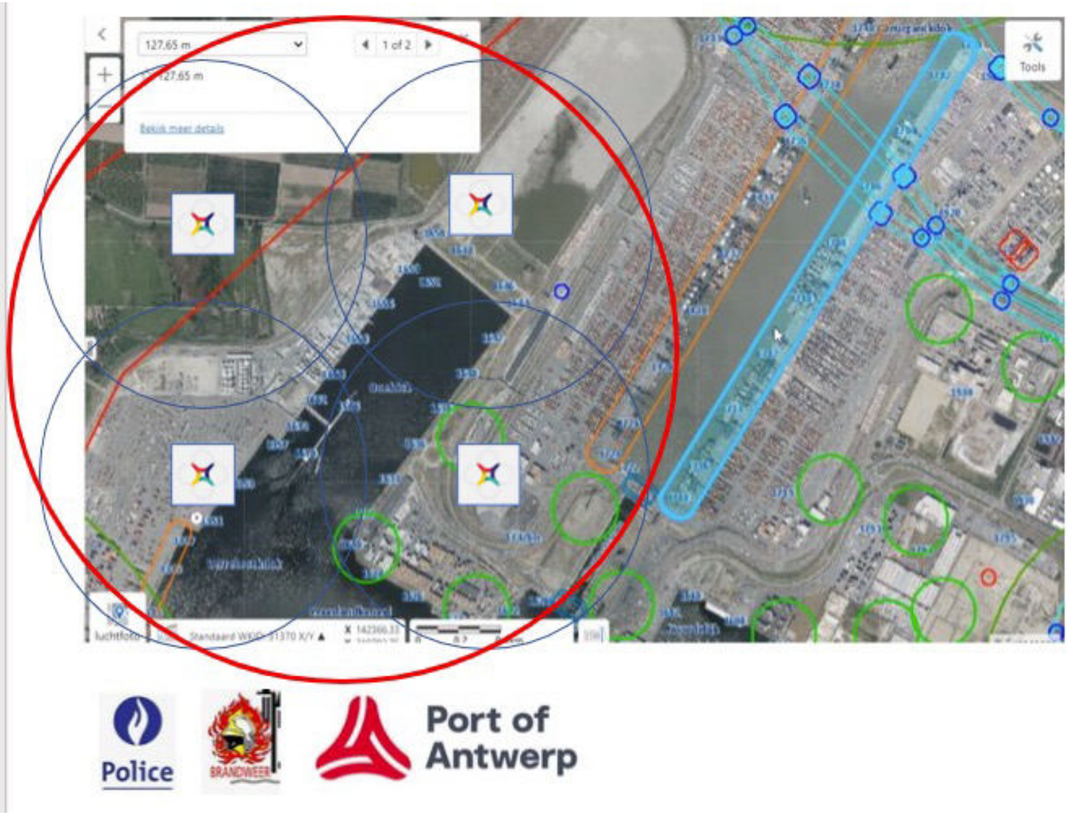
6th NeTWorK
A DRONE NETWORK AT YOUR SERVICE

SMART PORTS - EARLY ADOPTER PROGRAM 3



Government

City
Police
Fire Brigade
Customs
Port Authority

Security
Construction
Logistics
Facility
Utility
Inspections

OFFER

SECURITY BUNDLE
CONSTRUCTION BUNDLE
MOBILITY BUNDLE
MEDICAL TRANSPORT BUNDLE
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PROPOSED NEXT STEP

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