

# SABCA UAS BCDC UAV Integration in Air Traffic PUSHING AEROSPACE INDUSTRY FORWARD



### SABCA O







A DESIGNER & INTEGRATOR OF HIGH ADDED VALUE SOLUTIONS WITH STRONG TECHNOLOGICAL & INNOVATIVE CONTENT

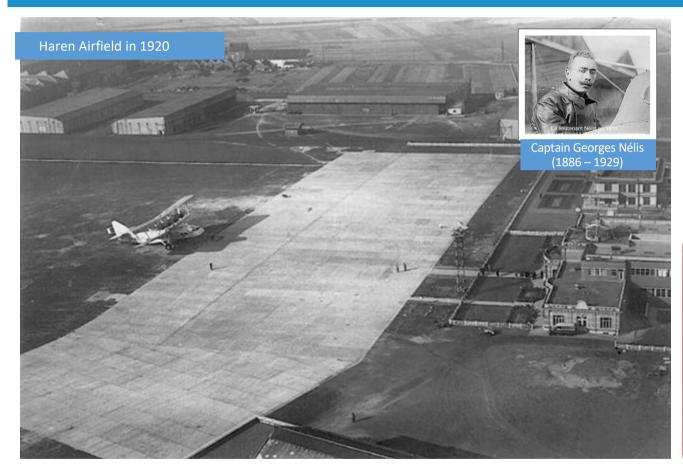
A RESILIENT BUSINESS MODEL THROUGH COHERENT DIVERSIFICATION, SYNERGIES AND FINANCIAL STRENGTH

#### A KEY PLAYER IN AEROSPACE

Placing SABCA products and technologies on all major flying systems around the globe

### SABCA OUR ROOTS





**1919 – S.N.E.T.A.** (Syndicat National d'Etude du Transport Aérien) First Belgian commercial airline to London and Later to Congo

**1920 – S.A.B.C.A.** (Société Anonyme Belge de Construction Aéronautique) Manufacture, Assembly, and Repair of Belgian Aircrafts

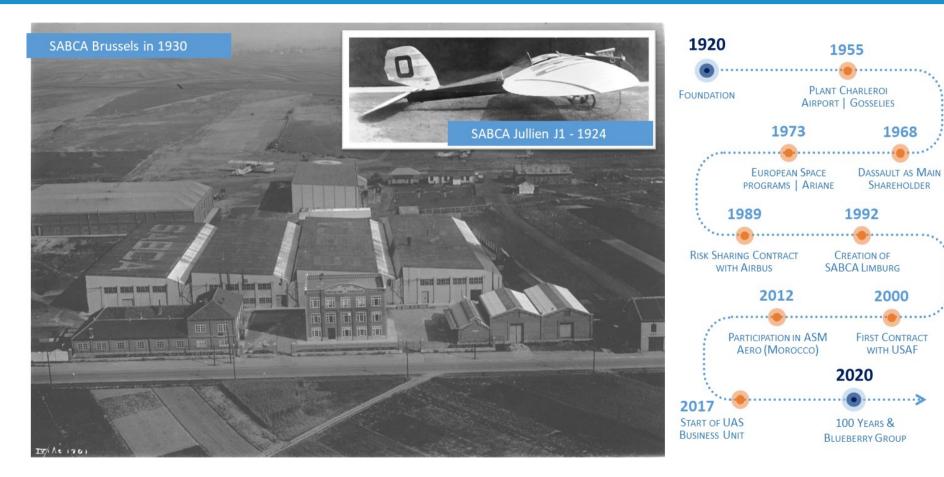
**1923 – S.A.B.E.N.A.** (SOCIÉTÉ ANONYME BELGE D'EXPLOITATION DE LA NAVIGATION AÉRIENNE) OFFICAL BELGIAN AIRLINE, TAKING OVER SNETA





### SABCA ABOUT US





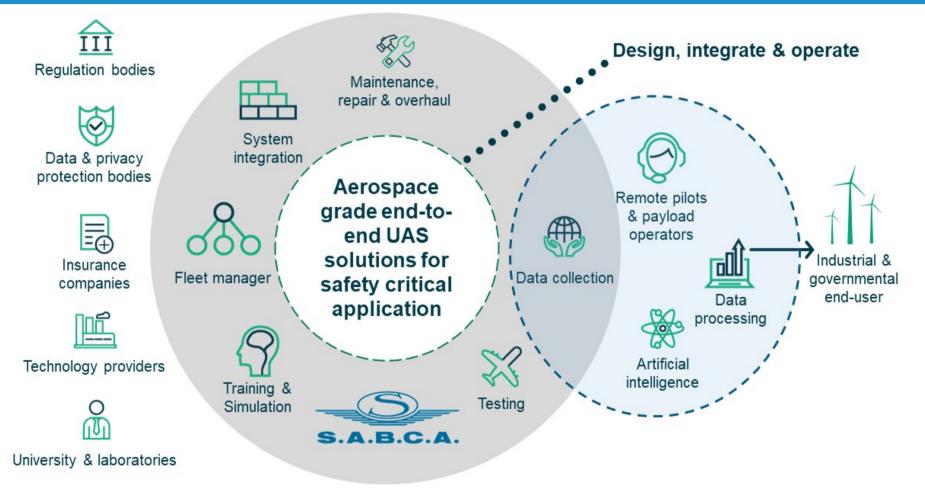
## SABCA | UAS BUSINESS UNIT





### SABCA OVERALL STRATEGY AND POSITIONING





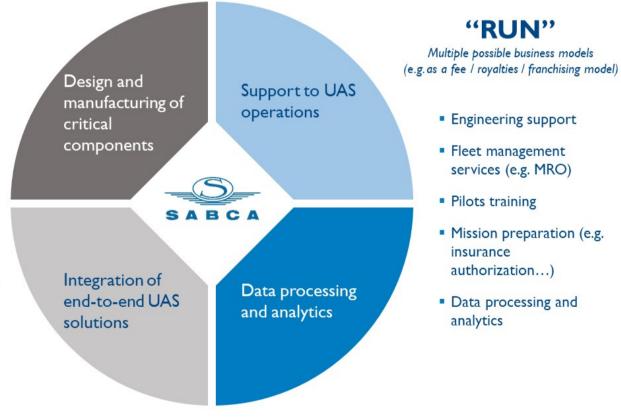
### SABCA | DESIGN, INTEGRATE & OPERATE



### SABCA provides Aerospace-grade End-to-End UAS solutions for nonaerospace industrial markets

### "BUILD"

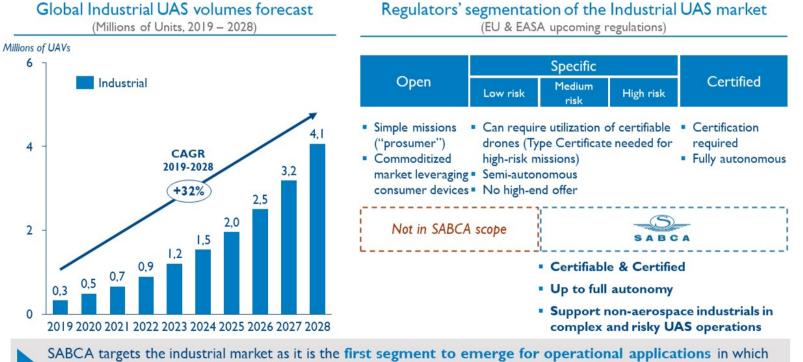
- Development and manufacturing of proprietary critical components
- Integration of existing components
- Engineering of the end-toend solution (until 1<sup>st</sup> article inspection)
- Integration, testing (and if needed certification) of the end-to-end solution (including UAS, ground infrastructure, data link, training, homologation, qualification, certification, risk analysis...)



### SABCA CERTIFIABILITY AND CERTIFICATION



# The industrial UAS market is expected to grow at >30% CAGR towards 2028 and SABCA is focusing on high-end "Certifiable / Certified" solutions



UAS solutions will replace and optimize existing activities (e.g. infrastructure maintenance and inspection)

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#### **Rationale behind Smart Ports Surveillance?**

- IN LINE WITH SABCA UAS STRATEGY
  - End-to-end solution
  - Requiring systems integration
  - Industrial applications
- Demonstrate long-range and long-endurance flying capabities
- Investigate difficulties faced when conducting flights in a GEO-ZONE with many Stakeholders
  - EBR54 is a Restricted area but not a Controlled area
  - Helipads within the port premises/Hoevenen ULM nearby
- Co-develop solutions with the partners (PoA, Police, Fire brigade, ...) involved
- Include several use cases covering four realistic emergency situations.
  - a container fire
  - the rescue of a person in distress on top of a windmill,
  - the rescue of a drowning person
  - the rescue of a man overboard.
- Coordinate mission from remote location
- Being prepared for emergency scenarios (Loss of C2, Navigation, Generator, Engine, ....)

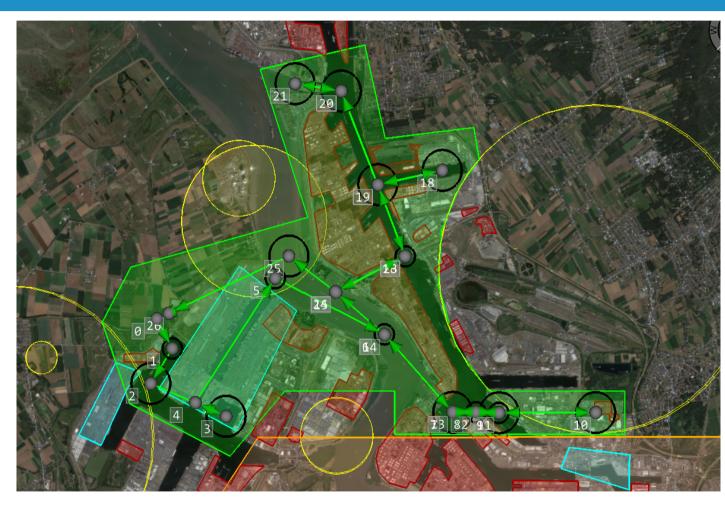




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### SEVESO ENVIRONMENT BVLOS MANY STAKEHOLDERS MULTIPLE USE CASES GEO-ZONE COMPLIANCE



# Unique 3-day 'Eye in the Sky' demo with fixed wing drone



#### 1. Surveillance

- Observation with camera up to AGL 300m
- Speed UAV good for car and boat chasing
- Detection of other drones (DJI)

#### 2. UAS System

- 1. Ports are a challenging environment for connectivity (High Powerlines, Wind mills,..)
- 2. Integrated ADSB-out very useful in order to be seen

#### 3. Authorisation

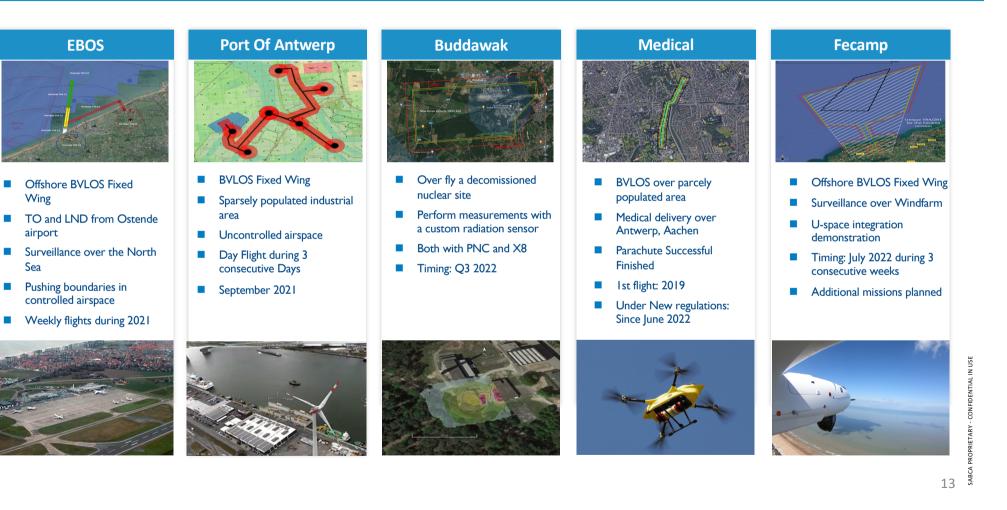
- 1. Early involvement of all stakeholders mandatory
- 2. Almost near miss with a helicopter in a TRA regardless of NOTAM
- 3. SORA analysis set a good base for future authorisations





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## SABCA CONTACT



## THANK YOU

ULRICH WECKX BUSINESS DEVELOPMENT - UAS SABCA

