NORDIC
UNMANNED

Founded in 2014

Nordic Unmanned AS was founded in 2014 by 5 local investors professional backgrounds from the Norwegian Oil and Gas Industry. Nordic Unmanned AS is publicly listed on Euronext Growth Oslo and has experience in operating complex unmanned solutions for demanding clients.

120 employees

Divided into 6 offices.

Head office: Sandnes

What we do

Nordic Unmanned delivers tailor made RPAS (Remotely Piloted Aircraft Systems) services in 13+ European countries. The company operates in several business areas where UAV (Unmanned Aerial Vehicles) can deliver a superior solution at a lower cost to existing solutions. These business areas include:

- Maritime
- Security
- Logistics
- Infrastructure

Our diverse range of products

Nordic Unmanned' own IP range of RPAS system is the Staaker product range. This includes the Staaker BG100, BG150, BG200 and BG300 RPAS, Staaker battery charger and the Staaker drop payload. The RPAS systems are sold to both National and International customers and are developed by Nordic Unmanned research and development department.

Nordic Unmanned is also a re-seller of several other RPAS / Payload OEM's (Original Equipment Manufacturer), such as Lockheed Martin and Textron. Nordic Unmanned has, through experience with obtaining flight permits in 13 countries, a consultancy service product offering to support blue-chip companies and governmental agencies on their drone strategies

LIGHT UAS OPERATOR CERTIFICATE (LUC)
(Terms of approval of an LUC holder)

State of the operator:
NORWAY

Issuing competent authority:
The Civil Aviation Authority of Norway

LUC #: 001

Operator name: Nordic Unmanned AS

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

THE NORDIC UNMANNED GROUP

NORDIC UNMANNED
NORWAY

nuaer

ecoxy

AIRROBOT®

NORDIC UNMANNED
UK

NORDIC UNMANNED
DK

WE ARE GROWING. FAST.

2014

Nordic Unmanned AS was founded in Stavanger, Norway by 5 local investors with history from the Norwegian oil and gas Industry.

2018

Nordic Unmanned breaks through as one of the leading drone service provider companies in Europe when acquiring contracts worth 17 million USD with the European Maritime Safety Agency (EMSA).

2021

Nordic Unmanned has over 110 employees, publicly listed on Euronext Growth Oslo, and has won framework agreements with the European Maritime Safety Agency (EMSA), Bane NOR UK MOD, Forsvarsmateriell and others.

Our customers

7+ YEARS OF DELIVERING UNMANNED SOLUTIONS TO DEMANDING CLIENTS

equinor

EMSA European Maritime Safety Agency

LOCKHEED MARTIN

BANE NOR

Statens vegvesen

NORWEGIAN DEFENCE MATERIEL AGENCY

MINISTÈRE DE LA MER
Liberté
Égalité
Fraternité

Bundesministerium des Innern, für Bau und Heimat

DANISH MARITIME AUTHORITY

EUROPEAN FISHERIES CONTROL AGENCY

Ministry of Defence

Port of Antwerp

MINISTRY OF ENVIRONMENT & ENERGY

LTSA Lietuvos transporto saugos administracija

Our story so far

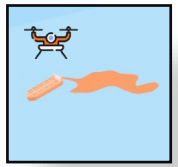
Image from the world's first cargo flight by drone to a an active offshore platform with Equinor in August 2020

Search & Rescue operation in Strait of Calais, supporting Direction des Affaires Maritime

Image credit: Direction des Affaires Maritime / Cross Griz-Nez

NORDIC UNMANNED

SIGNIFICANT ENVIRONMENTAL CONTRIBUTIONS IN 2021



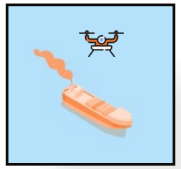
Oil spill operations
4 oil spill exercises/drills
3 oil spill incidents
15+ oil spill response days

Accredited emission measurements & verifications
108 vessels/industrial plants

Fishery control
219 days on fishery control
62 flights
26 hours of fishery control

Search & Rescue operations
51 SAR operations in 2021
62 hours of SAR acitivity

Emission monitoring
1271 vessels overflown
776 measurements done
325 environmental flights



General Maritime Surveillance
93 hours of maritime surveillance

175x

Less emission from the CAMCOPTER than its manned alternatives

3025 tonnes saved

The amount CO^2 emissions saved compared to manned alternatives doing the same flight hours*

*See Definitions for explanation of calculations

ROADMAP

TODAY

2018
Won first emission monitoring framework contract **(European Maritime Safety Agency (EMSA)**

Won first pollution response and maritime surveillance framework contract **(EMSA)**

2020
World's first cargo drone flight to an offshore oil and gas installation (Equinor)

2021 – Q1
Received the Light Unmanned operator Certificate (**LUC**)

Employees

5 — 10 — 17 — 33 — 120+ — 200+

2014
Nordic Unmanned AS founded

2017
ISO 9001-2015 certified by DNVGL as a drone and sensor operator

2020 – Q4
First publicly listed drone operator in Europe

2021 – Q3
Acquisition of AirRobot in Germany & Ecoxy in Norway

EUR 20 million fixed-wing drone system contract (EMSA)

2021 – Q4
ISO 9001-2015 extension to; operation, maintenance, sales, **design**, **development and production** of unmanned systems and sensors

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WHY USE DRONES

Minimize danger and risks

Avoid issues such as height, wind, waves and weather which can lead to dangerous situations

Access data easier

Be able to access areas that humans can not reach.

Quick deployment

Suitable for monitoring and emergency situations. Perfect for situations where time is of the essence.

Lower alternative costs

Minimizes the high cost and time required for equipment and execution.

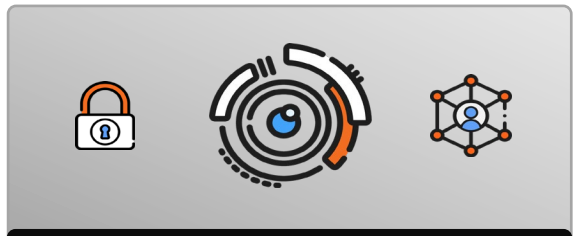
BUSINESS AREAS

MARITIME

Water related operations

The green wave has created a huge demand after unmanned systems and services, to capture and understand data in a new way. There are increasing regulations when it comes to emissions, and an increasing demand for solutions to assist in emergency situations.

We provide a range of services, from emergency preparedness and mobile rapid response teams to long term and large-scale deployments.



SECURITY

Actionable insight

The need of making the SAR services better for the same cost is ongoing. Unmanned systems can bring significant value to security operations, and we provide cutting edge systems and services, including like training and lifetime support.

We are a European reseller of Lockheed Martin Indago UAS and have a unique in-house experience operating these systems. We also provide highly customized solutions for demanding customers and use cases.

INFRASTRUCTURE

Critical infrastructure monitoring and analysis

The infrastructure business unit is specialized in collection and processing of photogrammetric and LiDAR data using drone-mounted LiDAR and optical sensors, for inspection and maintenance within the railway, telecom and hydro electrical domain.

We are a total supplier whom provides support in the form of data capture on challenging operations and/or processing of completed data.

LOGISTICS

Urgency and convenience

Urgency, convenience, same day delivery and environmental footprint are key drivers within the drone logistics market.
In the Energy sector, there is an increasing demand to find solutions to support the reduce of carbon footprint and cost where new logistic solutions are required to reduce use of helicopters and vessels.

We provide solutions for short range suburban deliveries, as well as long distance offshore deliveries.

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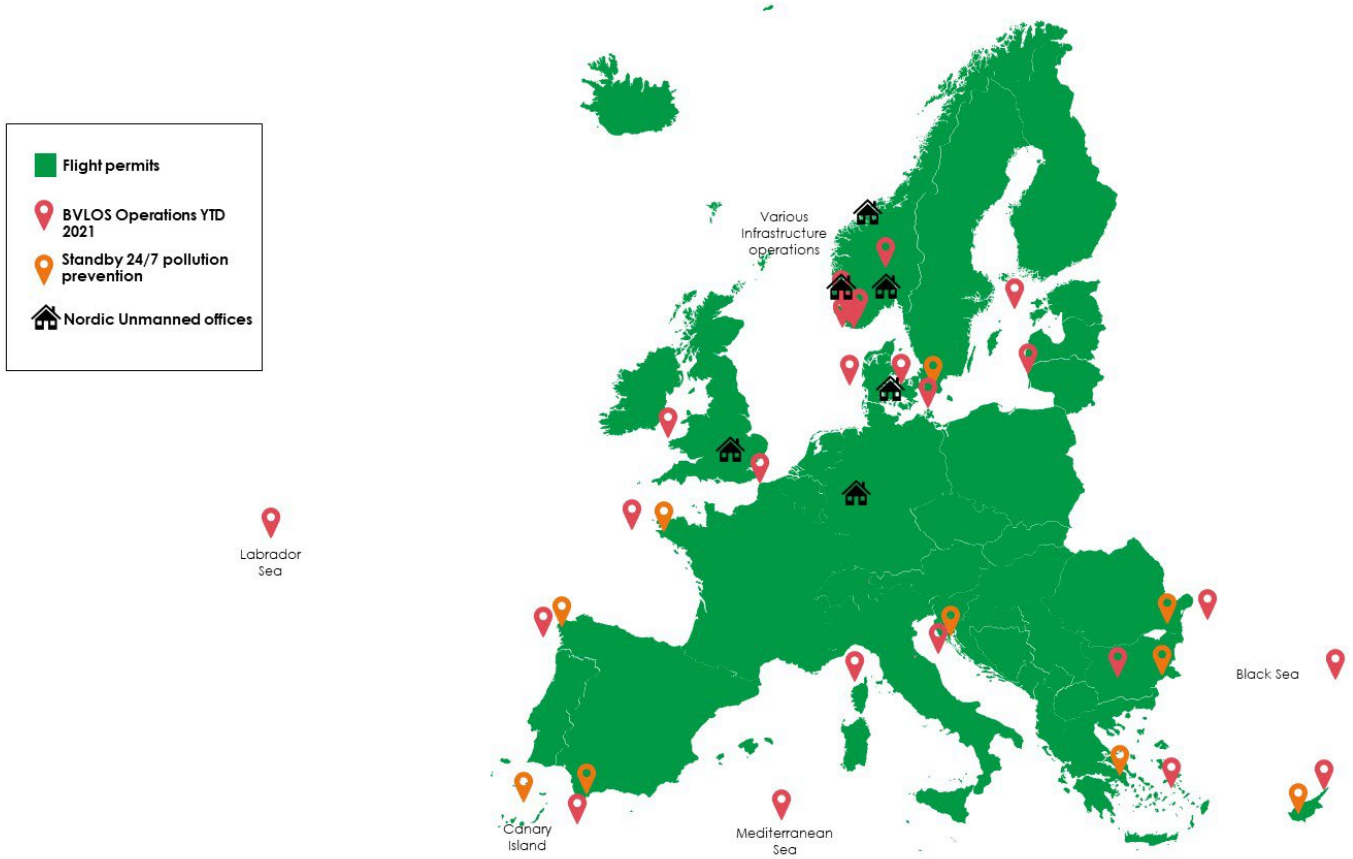
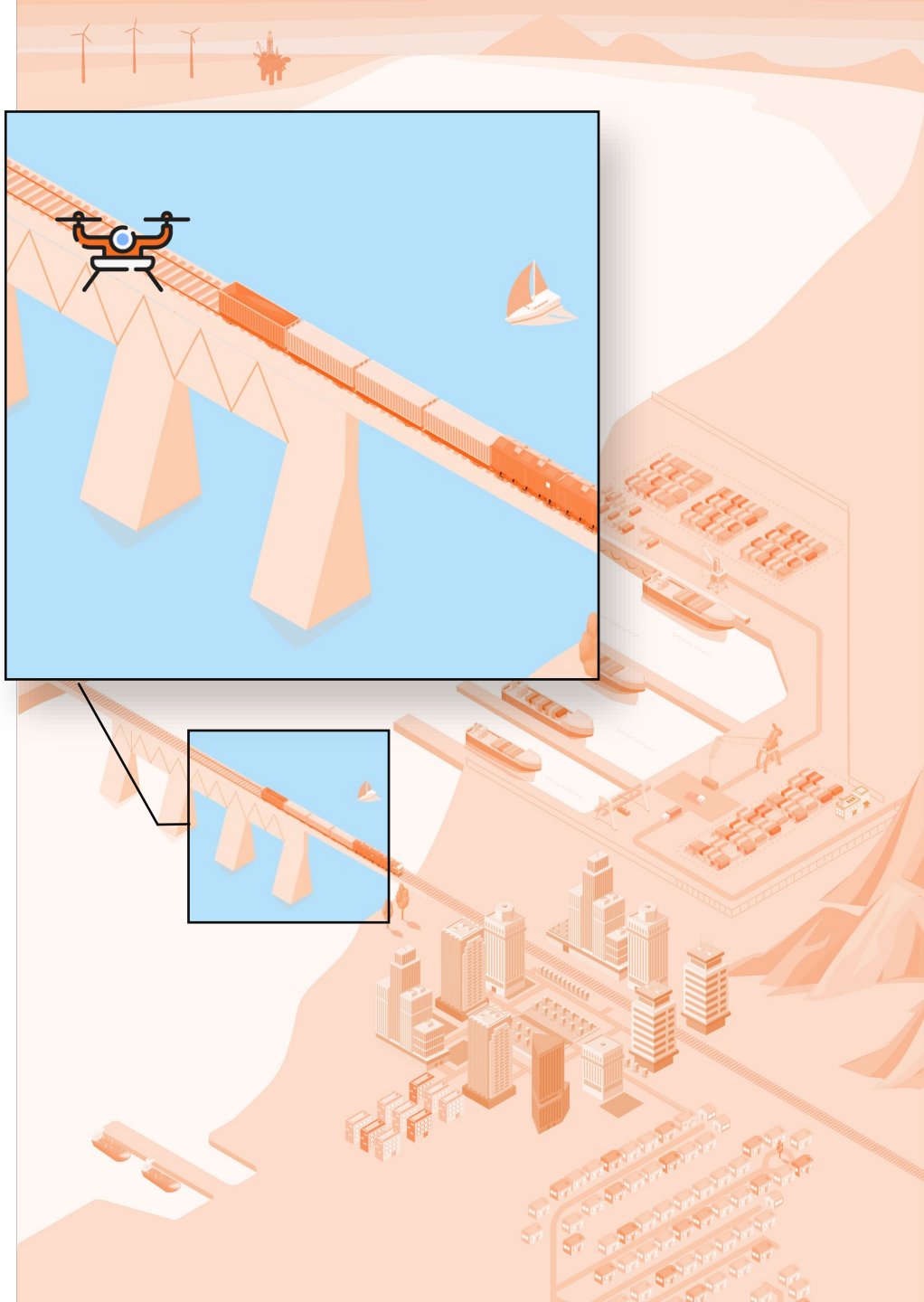
OPERATIONAL FOOTPRINT

- Operations in 13+ European countries
- Flight permit in all EASA countries through the LUC
- Nordic Unmanned has the Light UAS Operator Certificate (LUC), which allows Nordic Unmanned to deploy its entire fleet of eight different Unmanned Aerial System (UAS) models for beyond visual line of sight (BVLOS) flights in all EASA member countries by self-approving its operations



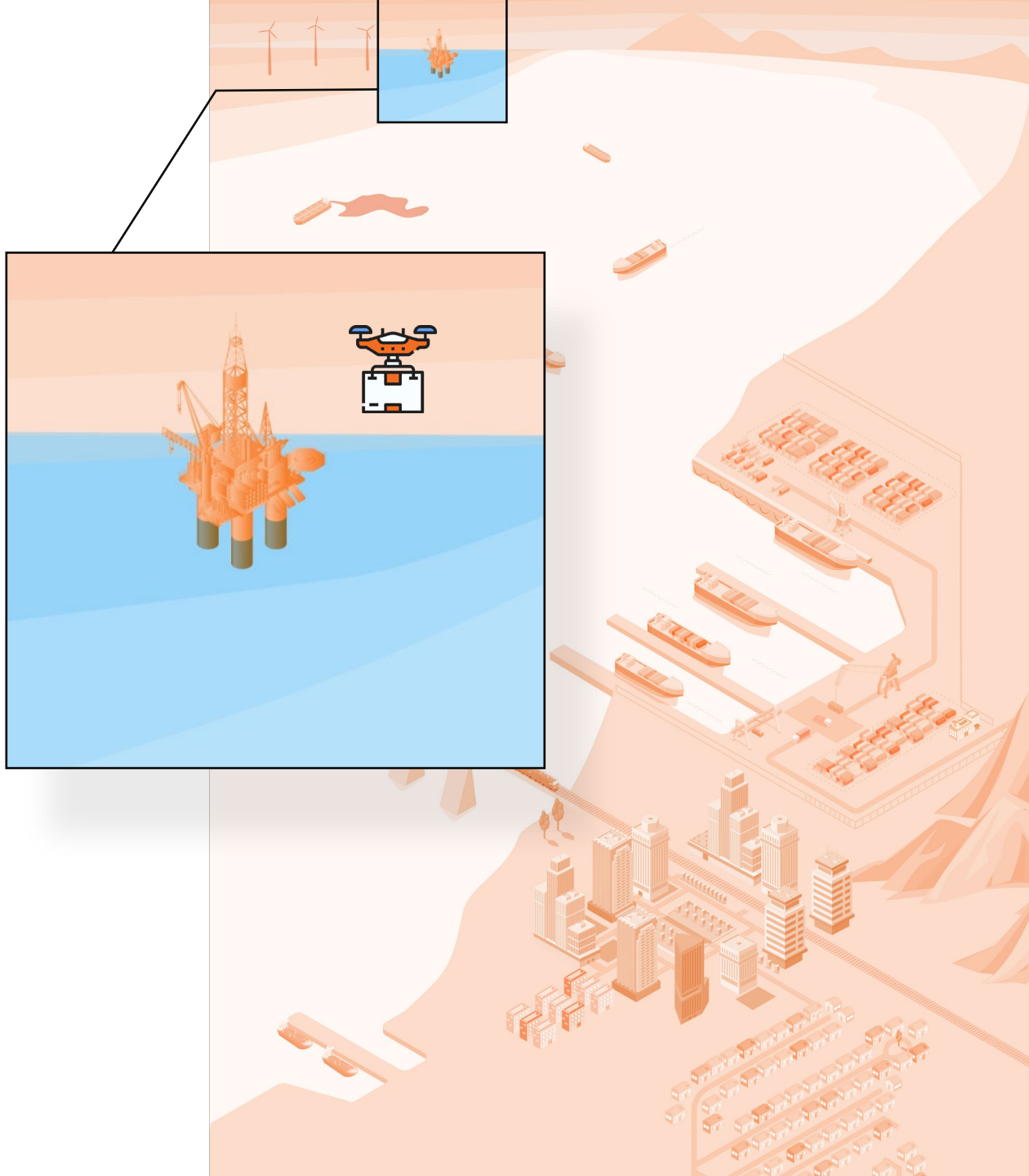
INFRASTRUCTURE

- Using cutting edge drone and sensor technology, we collect high-value data and provide digitization solutions.
- In a frame agreement with the Norwegian Public Roads Administration, we use airborne LiDAR sensors to create high accuracy terrain models, and we have provided data to the national geodatabase for the Norwegian Mapping Authority
- In addition, we are involved in various projects to push the technological frontier and take part in developing advanced solutions for the future.



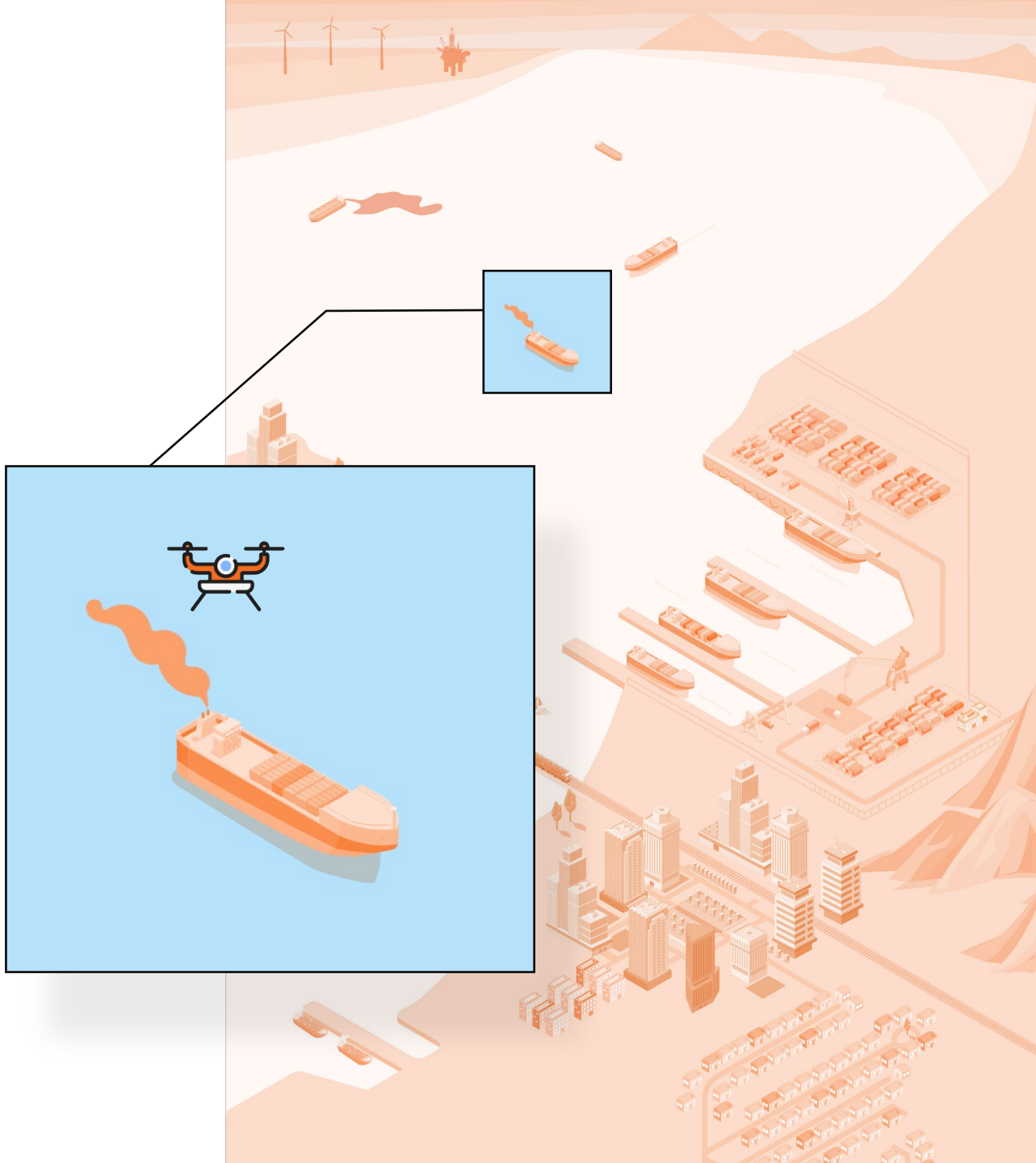
LOGISTICS

- Our operations are safe, can be automated and traditionally requires less resources than traditional logistics. The solutions utilizes the latest in unmanned technology and has significant lower carbon footprints than its counterparts.
- We have contributed to providing an autonomous inspection solution for Statnett, the system operator of the Norwegian power system, and developed innovative concepts for BaneNOR, which is responsible for the national railway infrastructure. Additionally, we have conducted world's first drone cargo delivery to an active offshore oil and gas installation together with Equinor.



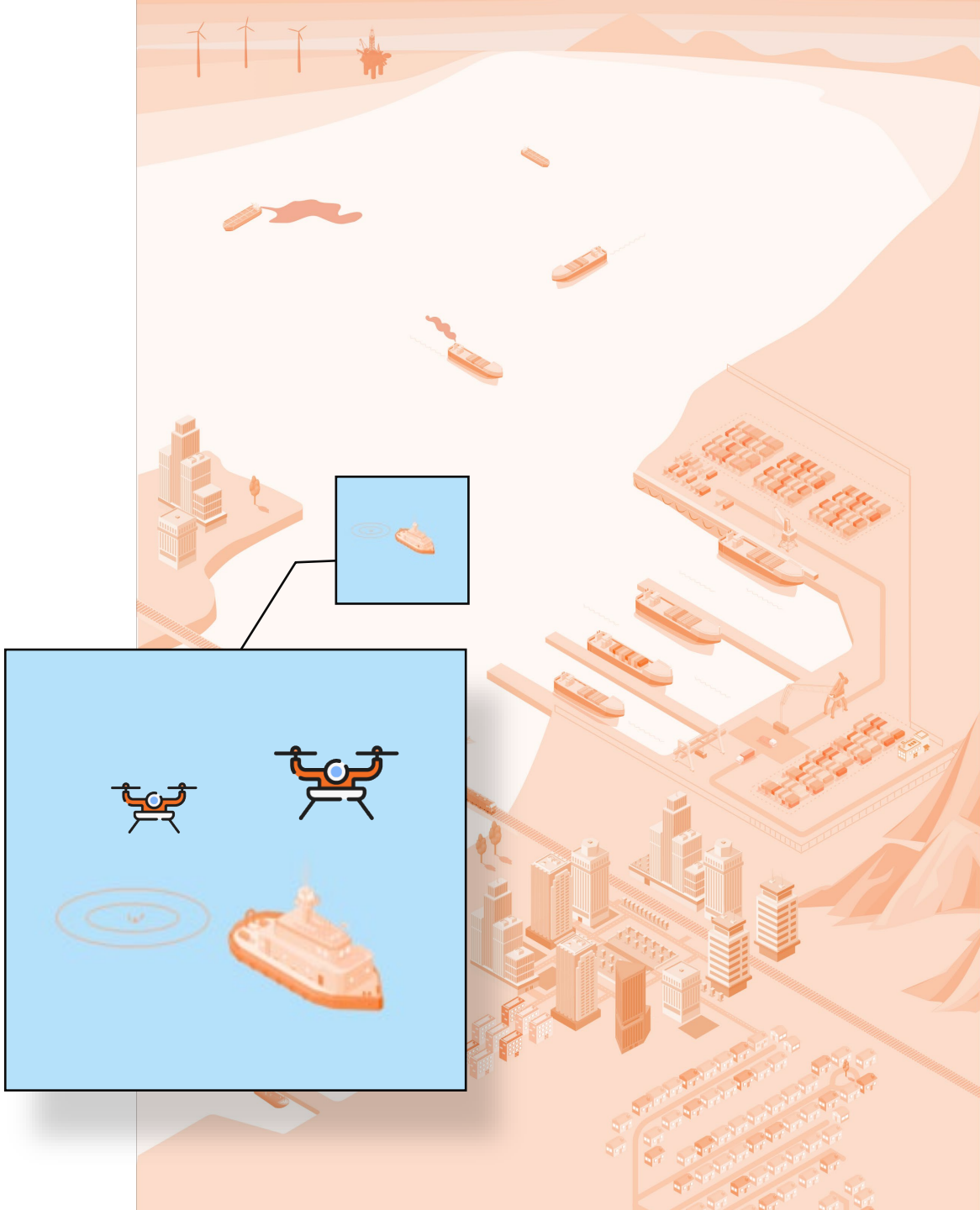
MARITIME

- Nordic Unmanned provides extended situational awareness with tailored drone solutions that collects, integrates and make data understandable for the end-user and their critical usage scenarios.
- We provide a range of services that supports environmental conscious use cases, from emergency preparedness and mobile rapid response teams to more long term and large-scale deployments.
- Current operations include oil spill monitoring preparedness, fishery inspection, and IMO 2020 sulphur cap compliance monitoring for EMSA – the European Maritime Safety Agency.



SECURITY

- Unmanned systems can bring significant value to military and police special operations, and we provide cutting edge systems and services like training and lifetime support.
- We are a European reseller of Lockheed Martin Indago UAS and have a remarkable in-house experience operating these
- We also provide highly customized solutions for demanding customers and use cases.



EXAMPLE PROJECTS

Equinor

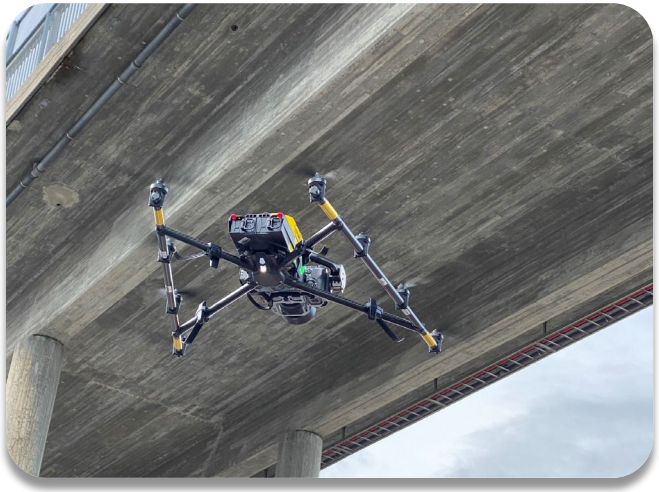
World's first cargo drone delivery from shore to an active offshore oil and gas installation

European Maritime Safety Agency

We provide a 24/7 emergency preparedness service and maritime operations such as fishery inspection and sulphur monitoring.

BaneNOR

State of readiness agreement with BaneNOR, which is responsible for the administration and operation of the Norwegian rail network.



Kartverket

Our Digitalization division carried out an efficiency test over an area of 10km2, following the same requirements for data delivery as manned aviation.

FLEET

The Railway Drone

The Staaker Railway Drone, a version of our Staaker BG-300, specifically made for the railway industry to enhance maintenance and inspection tasks

Lockheed Martin Indago

European reseller of the world-wide leading UAV in the Defense & Security sector

The BG-200

Our own Norwegian-made, weather robust drone

Textron Aerosonde

Fixed wing for long range maritime surveillance

Other drones

Other drones consists of Matrice 300, DJI Inspire/Phantom/Mavic/Falcon 8+/LM Stalker XE and more.

CAMCOPTER® S-100

The CAMCOPTER® S-100 is a world leading, proven capability for military and civilian applications

CAMCOPTER® S-100

- The CAMCOPTER® S-100 is a world leading, proven capability for military and civilian applications
- Mini helicopter with a MTOW (max take off weight) of 200kg and payload capacity of 50kg
- Needs no prepared area or supporting launch or recovery equipment
- It operates day and night, with a range of 200km, both over land and sea with a flight time of up to 10 hours

LOCKHEED MARTIN INDAGO

- The Indago system weighs less than 10 lbs., fits within a small backpack, and deploys in approximately 2 minutes.
- With industry-leading endurance and high-resolution payload options, and low acoustic signature, Indago provides tactical situational awareness and intelligence collection capabilities for military and government customers around the globe
- Nordic Unmanned is a European reseller of the Lockheed Martin Indago, in addition to operating for own operations.

BG-CLASS

- In Nordic climates, adaptability, versatility, and robustness are key. The Staaker BG200 is designed and built for unmatched strength and toughness, with an eight-motor configuration that can survive multiple rotor failures
- The system's weather resistance means a rain shower, snow, sand, et. doesn't bring it to the ground. Due to its 25 kg maximum take-off-weight, the Staaker BG200 can carry practically any payload the mission requires
- Staaker BG200 drones typically find use in mapping, photogrammetry and LiDAR scanning

RESEARCH & DEVELOPMENT

- Nordic Unmanned is collaborating with the University of Stavanger to conduct research product on various topics within unmanned technology
- Together with our clients, we conduct feasibility studies to make sure the operation is safe and effective to execute
- By producing our own in-house Staaker line drones, we constantly look for ways to improve our products to fit our clients' needs.
- Nordic Unmanned conducted Scandinavia's first hydrogen powered drone flight in December 2020, researched by our own PhD. Student and R&D engineer.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