



## INFORMASJON FRA ATM NORGE

Nyhetsbrev november 2018

ATM Konferansen 2019 arrangeres tirsdag 21.mai 2019.

Hold av dagen!

Program vil bli beskrevet nærmere etter hvert som det blir klart, men allerede nå kan vi se at kontroll over ubemannet trafikk i luften vil få en sentral plass i programmet. Utviklingen innenfor SES (Single European Sky) vil selvsagt også bli behørig dekket. Konferansen avholdes som tidligere hos NHO Luftfart i Middelthunsgate 27, 0305 Oslo.

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### *Nytt fra Indra Navia AS:*

#### **INDRA IMPROVES SAFETY AT RIGA INTERNATIONAL AIRPORT WITH VIDEO CAMERA SURVEILLANCE**

Latvijas Gaisa Satiksme (LGS) has awarded a contract to Indra's Norwegian subsidiary, Indra Navia AS, for enhanced video camera surveillance at Riga International Airport. LGS is expecting a great increase in traffic volumes the coming years. With planned expansion and construction work, video surveillance will provide air traffic controllers with better control of operations on the ground.



“Safety always comes first, and we need to make sure our air traffic controllers have excellent visual control. Indra's solution is user-friendly and will help us to improve operational safety.” comments Mr. Roberts Sviklo, Head of ATC Towers at Riga International Airport.

Indra will install cameras on top of the tower, overlooking the airport's runway and operational areas. An additional pan-tilt-zoom camera will be used to track, zoom in and follow specific targets.

Air traffic controllers will be able to operate the cameras through an integration with the InNOVA Advanced-Surface Movement Guidance and Control System (A-SMGCS) from Indra that LGS has been using since 2006. The integration will solve challenges with limited

visual control in bad weather, during night-time and at certain blind spots caused by new buildings and hangars.

LGS is a state joint stock company that provides air navigation services in the Riga Flight Information region (FIR) in Latvia. Riga International Airport is the largest international aviation company in the Baltics and the main air traffic centre in this region offering regular passenger, cargo and postal delivery.

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### *Nytt fra Sundt Air:*

#### **SUNDT AIR GRUPPEN OG ANDØYA SPACE CENTER INNLEDER SAMARBEID**

*Andøya Space Center (ASC) og Sundt Air gruppen (SAG) har innledet samarbeid om å utvikle kapasitet på overvåkning med fly og RPAS av store hav- og kystområder.*

Sundt Air har i mer enn 7 år levert flytjenester til Kystverket, Kystvakten og NOFO for overvåkning av Norges kyst og havområder samt kontrakt med Danske forsvarer for overvåkning av Danske havområder. Sundt Air opererer to spesialutrustede fly med avanserte elektronikk-systemer utviklet og levert av Sundt gruppens teknologiselskap, **Norwegian Special Mission**. Flyene utfører viktige oppgaver innen miljøovervåkning, deteksjon av oljesøl, fiskerioppsyn samt beredskap for søk og redningsoppdrag.



ASC har lang erfaring med avanserte operasjoner av større ubemannede luftfartøy med betydelig kapasitet og utstyrt med avanserte sensor systemer. ASC har ekspertise for operasjoner med slike droner langt fra base og i svært krevende miljø, også i arktiske strøk. ASC har et tilgjengelig testområde med ca. 25.000 km<sup>2</sup> luftrom.

Samarbeidet som er innledet mellom ASC og SAG vil også innebære muligheter for etterbruk av flybasen på Andøya når Forsvarets flåte med overvåkningsfly flyttes til Evenes. Dette gir grunnlag for å skape et verdensledende testmiljø for avanserte dronesystemer på Andøya.

ASC og SAG skal samarbeide om å utvikle avansert operasjonskapasitet med bruk av droner i kombinasjon med bemannede fly, inklusiv utvikling og testing av sensorer og avansert analysekapasitet for autonome ubemannede fly. Partene vil i fellesskap også samarbeide med Norsk Regnesentral, NTNU, AMOS, m flere gjennom forskjellige faser av utvikling og testing.

Både ASC og SAG har lyktes på verdensmarkedet. Den internasjonale konkurransen i dette markedet er meget krevende og samarbeidet som er innledet vil styrke vår evne til å være ledende på våre områder.

For ytterligere informasjon kontakt:

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### *Nytt fra IFE AS:*

Sektor Digitale Systemer ved Institutt for Energiteknikk (IFE) inngikk i oktober 2018 en avtale om et 24,5-millioner forskningsprosjekt på digital sikkerhet (cyber security). Det er Avdelingen Risk, Safety and Security som har stått for prosjektsøknaden og som de siste årene har opparbeidet seg god kompetanse på IT/cyber-sikkerhet. I tillegg til IFE deltar Avinor Flysikring, Secure-NOK, EUROCONTROL, VTT Finland og Korean Advanced Institute of Science and Technology (KAIST) i prosjektet. Forskningsarbeidet vil være spesielt rettet mot kritisk infrastruktur og digitale trusler mot denne.

For mer informasjon, ta kontakt med Vikash Katta ([Vikash.Katta@ife.no](mailto:Vikash.Katta@ife.no)) og/eller Bjørn Axel Gran ([Bjorn.Axel.Gran@ife.no](mailto:Bjorn.Axel.Gran@ife.no)).

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### **News from Momberger Airport Information - [www.mombergerairport.info](http://www.mombergerairport.info)**

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#### **Inverness Airport (INV) in northern Scotland recently went operational with its InNOVA approach and tower display surveillance data processing system.**

Indra Navia, Indra's Norwegian subsidiary, installed the system less than three months after being awarded the contract by Highlands and Islands Airports (HIAL). "We have been working closely with Indra Navia to implement this upgrade to our Inverness air traffic control operations. HIAL continues to invest in major infrastructural upgrades of its Communications, Navigation and Surveillance systems as it continues to develop its long-term ATM 2030 air traffic management strategy," said Pat Nolan, general manager of air traffic services at HIAL. The project included the installation of InNOVA approach and tower display for two approach positions, one tower position, a duplicated screen and a technical position used for maintenance and control. In addition, the project included safety nets for short-term conflict alert, minimum safe altitude warning, airspace proximity warning and final approach. #1083.ATC10

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#### **The SESAR Joint Undertaking (SESAR JU) GOF U-space project in Estonia and Finland demonstrates that Europe is on course with its implementation of U-space, an initiative that aims to ensure safe and secure drone traffic management.**

The project therefore not only accelerates the realisation of manned and unmanned mobility in the lower airspace, taking into account the rapid growth in the use of drones, but also showcases the progress towards reaching the objective of a unified European airspace. With co-financing from the SESAR JU within the framework of the EU's Connecting Europe Facility programme, GOF U-space demonstrates and qualifies seven drone use cases, while addressing questions of safety, security, environment, as well as privacy and public perception. The use cases include international parcel delivery (up to 5kg per flight) between Helsinki and Tallinn, urban drone fleet operations in Helsinki with Police intervention, urban drone fleet operations in Tallinn in controlled airspace, long range inspections flights in forestry and utility inspection in Finland, and maritime traffic surveillance combined with search-and-rescue over the Gulf of Finland. Apart from that, the consortium wants to demonstrate the use of UTM (Unmanned Aircraft Systems Traffic Management) for controlling drone taxi traffic by showing a live Drone Taxi flight from Helsinki-Vantaa airport to downtown Helsinki.

The U-space demonstrations show the fitness for purpose of combining commercial off the shelf (COTS) UTM components to demonstrate all phases of drone operations with a focus on pre-flight and flight execution. The U-space architecture is based on a federation of U-space service provider microservices to collectively manage all drone traffic in the same geographical region. U-space service providers will exchange information and coordinate themselves using new interoperable standards to be developed for the demonstration, allowing for automated drone traffic management and improved situational awareness among all U-space stakeholders. #1084.ATC3

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**Latvijas Gaisa Satiksme (LGS) in Latvia has awarded a contract to Indra's Norwegian subsidiary, Indra Navia AS, for enhanced video camera surveillance at Riga International Airport (RIX).**

LGS is expecting a great increase in traffic volumes the coming years; with the planned expansion and construction work, video surveillance will provide air traffic controllers with better control of operations on the ground. Indra will install cameras on top of the tower, overlooking the airport's runway and operational areas. An additional pan-tilt-zoom camera will be used to track, zoom in and follow specific targets. Air traffic controllers will be able to operate the cameras through an integration with the InNOVA Advanced-Surface Movement Guidance and Control System (A-SMGCS) from Indra that LGS has been using since 2006. The integration will solve challenges with limited visual control in bad weather, during night-time and at certain blind spots caused by new buildings and hangars. #1085.ATC11

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