

# SINTEF DIGITAL FUTURE AVIATION ACTIVITIES



# SINTEF Contribution

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- **PJ 02 EARTH Enhanced RWY Throughput V3 testing**
  - Continuing in Wave 2 VLD 3; Co-ordinated arrival, surface and departure management (Arlanda)
- **PJ 03a SUMO Integrated Surface Management V2 testing**
  - Follow the green – Airport Ground Lighting – not continuing for the moment
- **PJ 04 TAM Total Airport Management V2 testing**
  - Continuing for V3 in Wave 2 PJ 04 (Gardermoen)
- **PJ 05 Remote Tower**
  - Continuing in Wave 2 PJ 05
- **PJ 08 AAM Advanced Airspace Management V2 testing**
  - Continuing for V3 in Wave 2 PJ 09 – testing in Oslo
- **PJ 09 DCB Advanced Demand and Capacity Balancing**
  - Not continuing for the time being



# SINTEF Contribution

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- **PJ 14 EECNS Essential and Efficient Communication Navigation and Surveillance Integrated System**
  - GBAS and Cyber Security work continuing in Wave 2 PJ 14
- **PJ 16 CWP Controller Working position**
  - Continuing in Wave 2 PJ 10
- **PJ 19 CI Content Integration**
  - Continuing, focusing on AIRM
- **PJ28 IAO Integrated Airport Management Very Large scale Demonstration (VLD)**
  - Partly continuing in SESAR Open Call PJ AUDIO

**Will be present at World ATM Congress in Madrid in March 2020**

# El/Hybrid aircraft

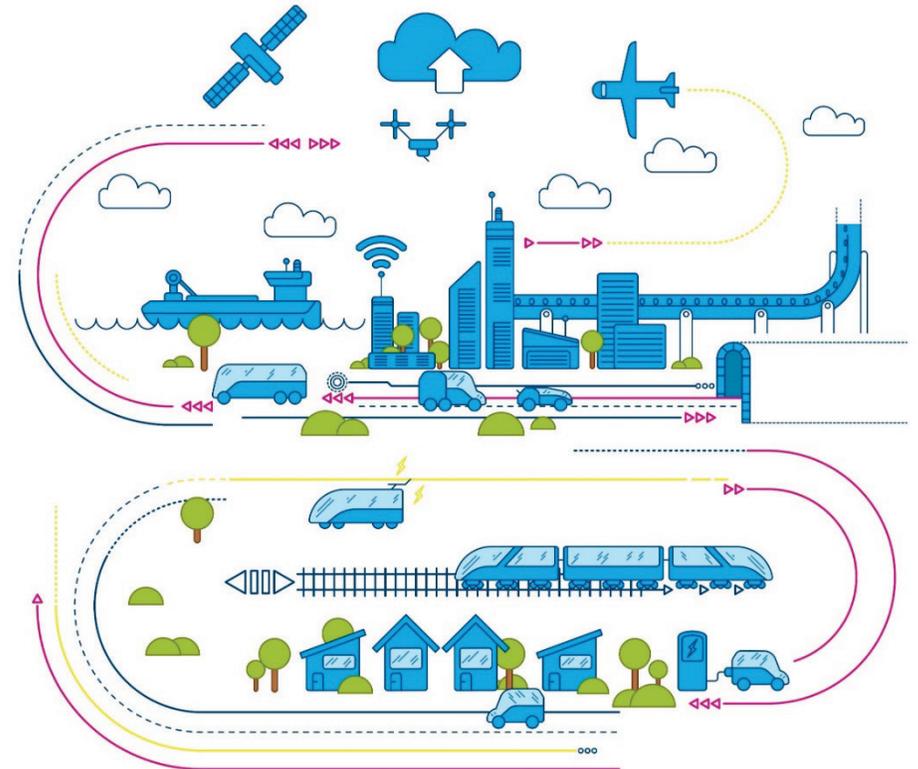
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- Norway first market for el/hybrid aircraft ?
  - A network of short field airports with short distances between
  - Pushed by the Government
  - National industry developing motors and generators
  - 100 % clean hydro power
  - Possible customers – manufacturers looks to Norway
- Vision
  - First scheduled flight in 2030
  - All domestic traffic electrified within 2040



# Green Flyway - Scandinavian co-operation

- Possible test area for sustainable aviation and drones between Røros and Östersund
- Co-located with other test areas for autonomous ships and vehicles



# Future calls – search for partners

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- SINTEF is interested in good partners for future calls, for example;
  - LC-MG-1-12-2020: Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions
  - MG-2-11-2020: Network and traffic management for future mobility
  - MG-2-13-2020: Coordination and support for an integrated freight transport and logistics system
  - MG-2-14-2020: The effects of automation on the transport labour force, future working conditions and skills requirements
  - MG-3-6-2020: Towards sustainable urban air mobility
  - MG-4-7-2020: Digitalisation of the transport system: data sharing
  - MG-4-8-2020: Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers



Technology for a better society