



SAAB

AMPLIFY TEAMWORK WITH AUTOMATION



DATS Workshop on Digital Air Traffic Services: Workload and Safety Assessment

February 6-7, 2023

Linköping University

Hybrid Workshop: Campus Norrköping + Online

<http://webstaff.itn.liu.se/~chrsc91/DATS-workshop-norrkoping/>



AMPLIFY TEAMWORK WITH AUTOMATION

DATS 2023 – setting the scene

6-7 february 2023

Billy Josefsson LfV Research & Digitalisation,
Manager Automation & Human Performance, Team Lead UAM

NORRKÖPING SWEDEN 6-7th FEBRUARY 2023

DIGITAL AIR TRAFFIC SERVICES

Workshop

on Safety and Workload



AMPLIFY TEAMWORK WITH AUTOMATION



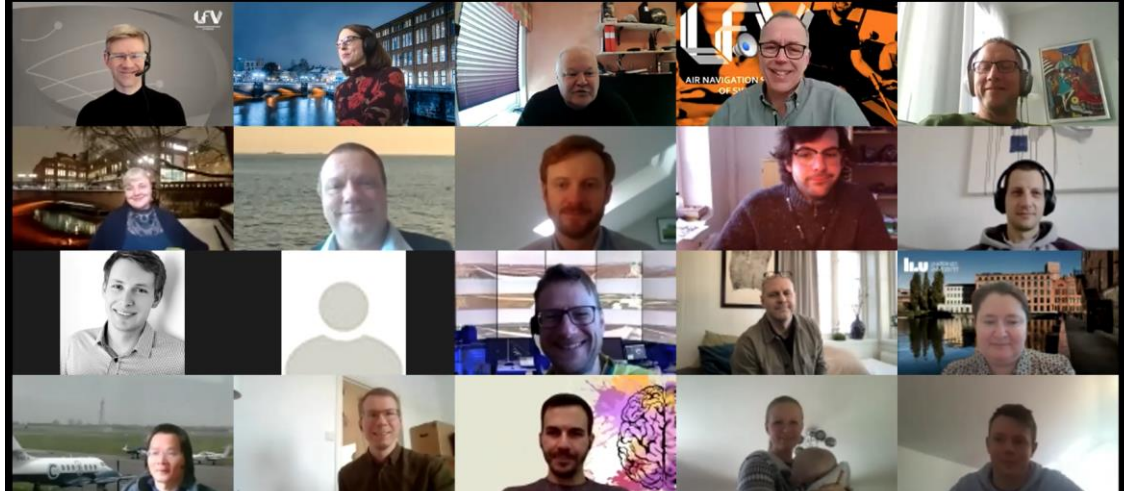
SAAB

2019

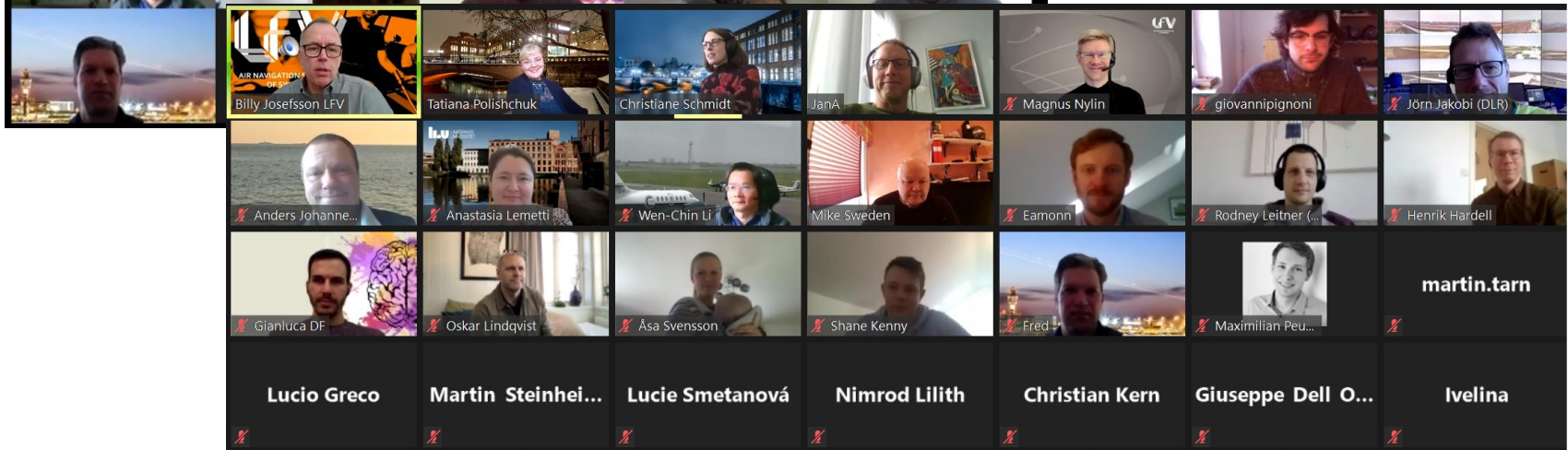


2020





2021



LIST OF PARTICIPANTS

(Online participants are highlighted in gray.)

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Zoom link: <https://liu.se.zoom.us/j/61781786790?pwd=d3JpeE9zeitJV2hQNm1FTVdKdWNFZz09>

13:00 - Welcome notes, round table, introduction (Billy Josefsson, LFV)

13:30 - Lothar Meyer, LFV: Information Cues and the Conflict Life Cycle: Validating a Retrospective-Think-Aloud Technique Using Eye Tracking

14:00 - Coffee break

14:15 - KEYNOTE Erik Langevi, Naviair: Virtual Technologies to Be Used to Build the Future ATM Systems

15:00 - Short break

15:15 - Goran Pavlovic, EUROCONTROL: Rostering, Productivity and Cross-Border Opportunities in Area Control Centres

15:45 - Kari Fält, Saab: Digital Tower--a Research/Industrial Update

16:15 - Nimrod Lilith, Mohammed Nadirsha, NTU: Tangible Digital Twin with Shared Visualisation for Collaborative Remote Tower Operations

16:45 - Discussions

17:15 - End of the day

18:30 - Networking event **at Il Cibo, Olai Kyrkogatan 29**, <https://www.ilcibo.se/>



Zoom link:

<https://liu.se.zoom.us/j/61781786790?pwd=d3JpeE9zeitJV2hQNm1FTVdKdWNFZlZkd0p1a25kdz09>

Day 2

9:00 - Wen-Chin Li, Cranfield: Digital Tower Research (OTW Design and ATCOs Monitoring Performance)

9:30 - Christiane Schmidt and Rabii Zahir, LiU: First Results of the Project Capacity Modeling and Shift Optimization for Train Dispatchers (CAPMO-Train)

10:00 - Coffee break

10:15 - Anders Johannesson, SFV: Remote pilotage (Navigation stöd från land project)

10:45 - Anders Johannesson, SFV: Eye Tracking in Maritime Research

11:15 - Discussions, Take-home messages

11:45 - Closing notes

12:00 - Lunch at De Geer Congress Center (sponsored by SAAB),

<https://louisdegeer.se/restaurang/>

Tonight at Il Cibo

Social Event today 18:30 – 2100

Every one is invited (own cost), the ultimate networking and further detailed discussion about the future and everything. Make some new friends!

Please consult the flyer for location

If you get lost call Billy
+46 708 192331



ATM → UTM

Harmonized and shared infrastructure

ATCO → Airspace Managers

Virtual Centers

Investors and service based companies enters ANSP business

EUROPEAN ATM 2035



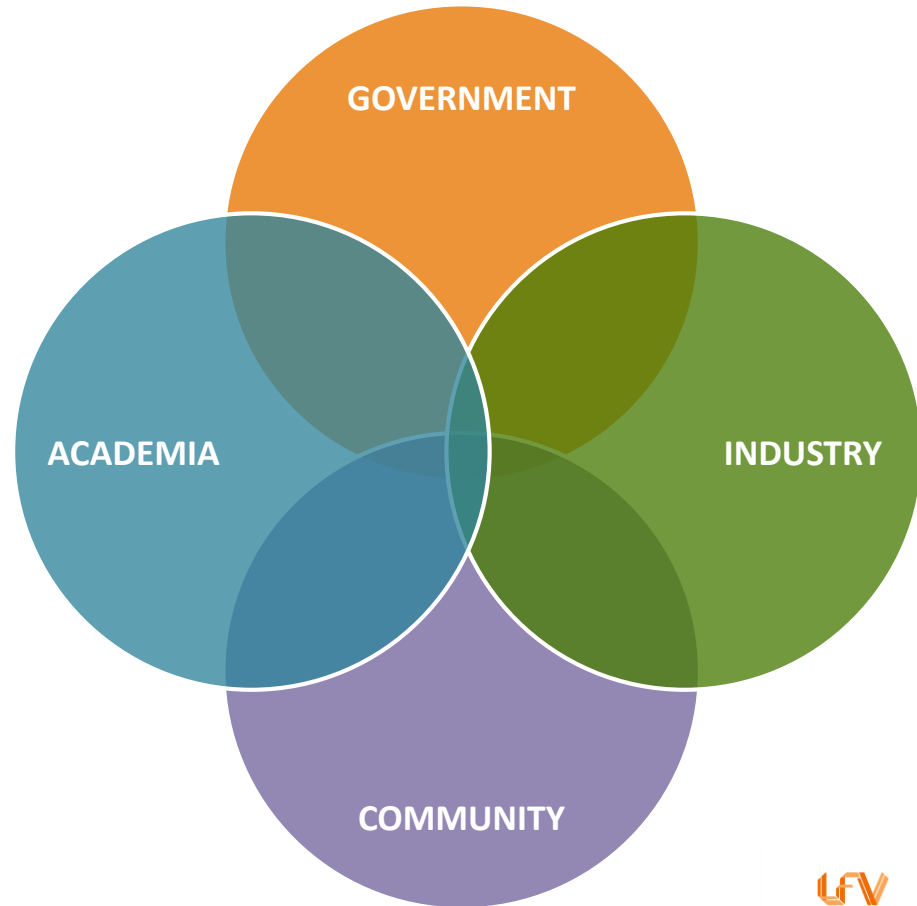


What's in the Research pipe for DATS, 3,4,5-10 yrs ahead

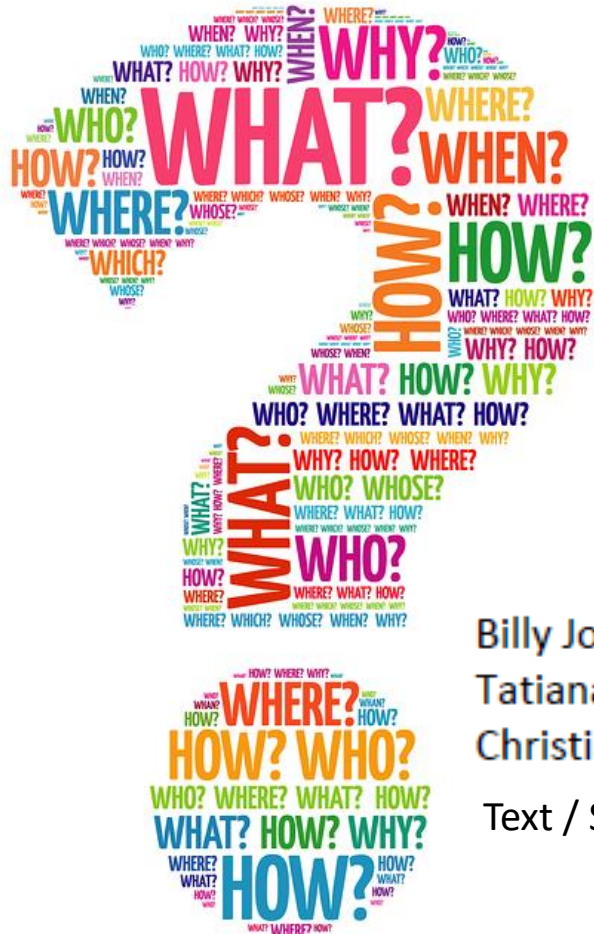
- ✓ Labelinteraction (less or no need for e strip)
- ✓ Workload monitoring
- ✓ Automatic Speech Recognition
- ✓ New sensors
- ✓ Augmented Reality
- ✓ Attention Guidance supported by AI
- ✓ Automation support for training and verification of competence
- ✓ Resilient Strategies for multiple information sources (RE5 → X10 → hybrid i/f)



Quadrauple HELIX







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