Human Performance

Use of Big Data to manage factors influencing on human performance

Modern aircraft consist of technology that records large amounts of data. Can such flight data be used to increase safety while at the same time reducing costs and environmental emissions?

This is the starting point for the new transport research project "Use of Flight Data Monitoring to manage factors influencing on human performance" starting in May 2019. The project is an innovation project targeting the industrial sector where the aim is to research, develop and test new technologies and solutions that will benefit the overall transport industry. The project is funded by the Norwegian Research Council in collaboration with key aviation stakeholders in Norway and internationally.

FLIGHT DATA MONITORING

The project will use **Flight Data Monitoring (FDM)** to measure flight performance to better understand how factors like fatigue, age, knowledge, use of autopilot and training affect human performance and identify the link to airline safety performance, productivity and environmental work.

BIG DATA

The project will be ground-breaking by using **big data** to improve aviation's safety performance, productivity and environmental profile. By putting the pilots' performance at the centre, it can also say something about the effectiveness of European regulation related to Flight Time Limitations.

PROJECT PARTNERS:

Federation of Norwegian Aviation industries (NHO Luftfart), The Institute of Transport Economics (TØI), SINTEF, The Civil Aviation Authority of Norway (CAA), Accident Investigation Board Norway, Norwegian Air Shuttle ASA, Scandinavian Airlines System, Stress Research Institute, Finnish Institute of Occupational Health, Flight Data Services, Jeppesen.

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