

New ways of training in Avinor

**Use of tactical simulator as a method to
rise competence among airport rescue
& firefighting personnel?**

Panther simulator



The challenges

Environmental issues on the fire drill fields in Avinor

The regulations demands regularly training of all ARFF personnel

What methods can be used to meet the requirements for knowledge and skills - and how?

Can simulators be a method, in combination with fire drills training in the field?

Ideas of training in the future

- ▶ Theoretical courses in different subjects with an test you have to pass. Such as airport familiarisation and aircraft familiarisation
- ▶ Instead of making an number of exercise you have to do every year, we want to make practical test that every body have to pass to prove that they master the skill that they are supposed to.
- ▶ Live fire drills where we want to focus on how to put out different types of fire. We are interested to get experience from real aircraft fires so we get knowledge of the best way to put out a fire. The simulator might not give the right answer.
- ▶ Full scale exercises together with other operators at the airport as well as the emergency services

Tactical simulator for ARFF personnel

We have made different scenarios.

The scenarios was tested on three different positions - one firefighter (the driver), one watch manager and the simulator operator as “ATC TWR”

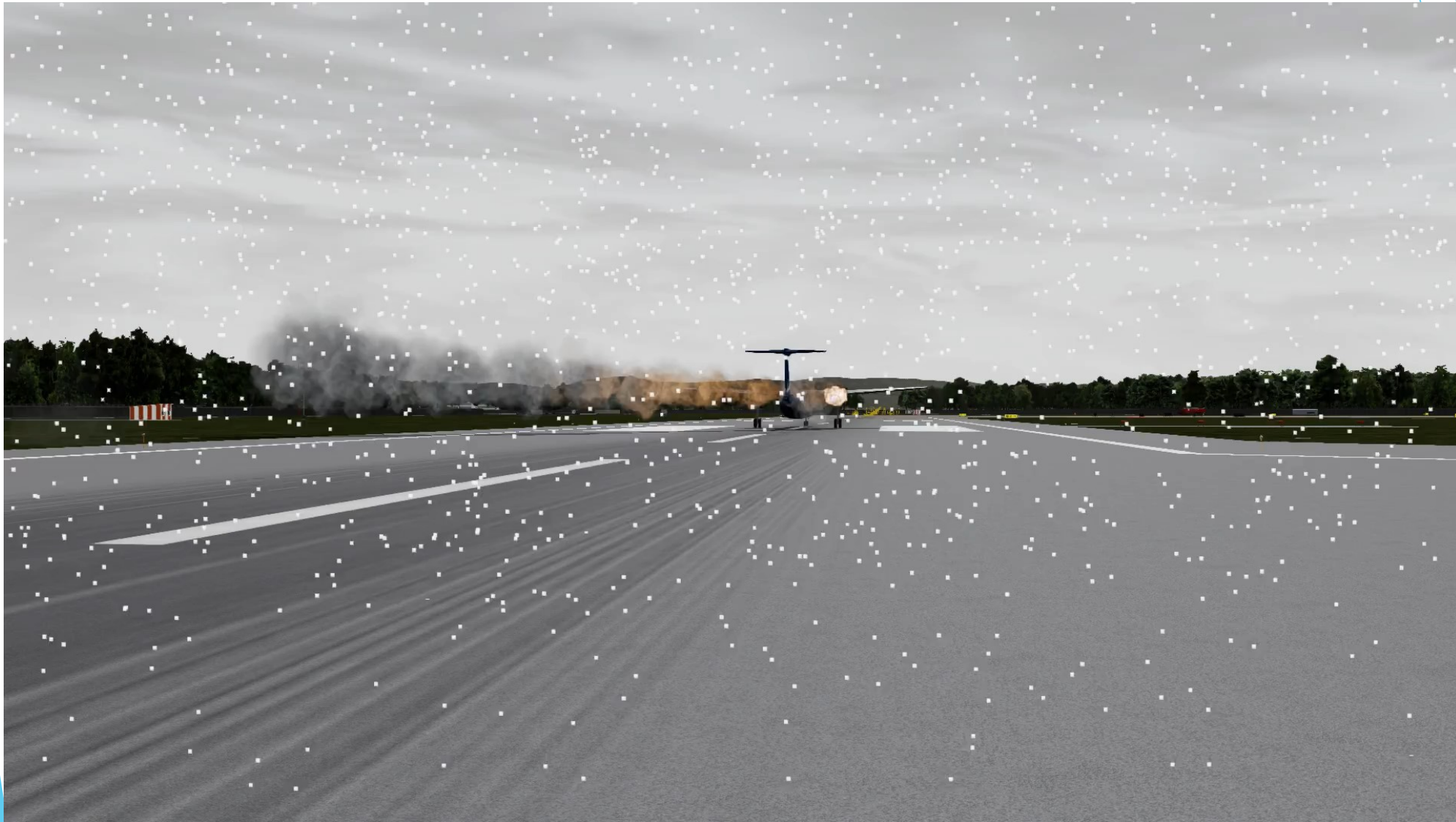
We tested 108 scenarios with different elements such as;

- 3 levels of skill and knowledge: basic, experienced and specialist
- 4 types of aircrafts: Boeing 737 and 787, Airbus 320 and Dash 8 Q400
- 9 types of exercises with different levels of challenges

Realism and assumptions

- ▶ It is fundamental to all training and exercises is that they are realistic and have a transfer value to reality
- ▶ The objectives with training must be challenging and adapted to the right level of competence
- ▶ Depends on combining simulator training and fire drills in the field
- ▶ Many factors cannot be simulated or filtered out, such as weather and wind, and other physical influences

Training of personnel online



Theoretical training

HVA GJØRES VED FULL BEREDSKAP?

Velg riktig alternativ og klikk på Svar.

- Alle møter på brannstasjonen og hjelpestyrker kalles inn
- Personellet kler seg opp og bilene kjøres ut til forhåndsdefinerte plasser nært rullebane
- Personellet kler seg opp og bilene startes



✓ Svar

The use of various tools in teaching requires continuous adaptations and changes

Systems should be established for:

- Input and adaptations of existing scenarios
- New scenarios based on ideas
- New scenarios based on previous experiences
- New scenarios based on new real events
- Evaluations / After action review
- Documentation of training - what have been performed - results - and other useful information
- What level of knowledge and skills are recommended for the next training

Remember - problem solving has a good learning effect

Thank you