

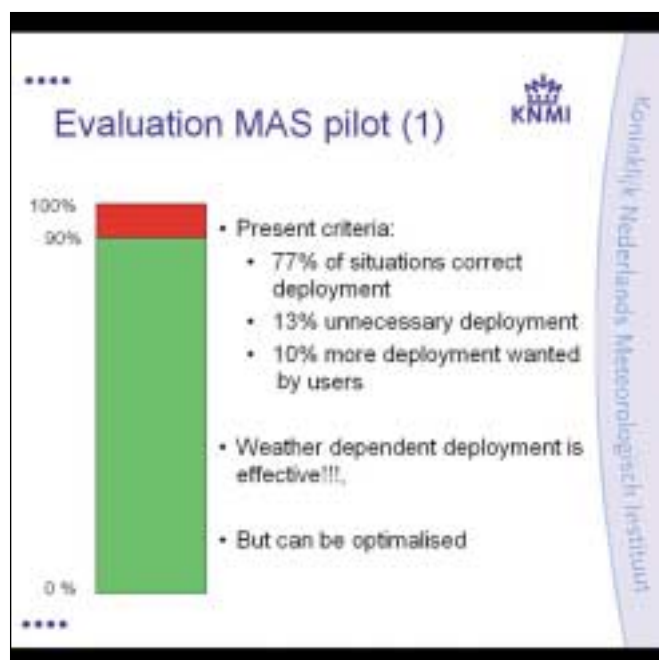


seen as providing greater trust in the forecasting and nowcasting qualities of these advisors. On the other hand, forecasters were happy to be “there where the real action is” and felt much more appreciated whilst gaining a greater understanding of the decision making processes within ATC.

## Pilot scheme for the MAS (Meteorological Advisor Schiphol)

The combination of factors mentioned above led to a pilot study from October 2003 extending into spring 2004. A preliminary working desk was installed in the ATC Approach site but forecasters only went on duty under certain (weather) conditions. The procedure is as follows: Each evening around 2000 local time, the aviation forecaster in De Bilt and the Supervisor Approach at Schiphol talk to each other by telephone and based on the forecast weather conditions for the next morning (visibility, cloud ceiling, severe weather, cross/tail wind), the decision is made whether or not to deploy the forecaster to Schiphol. The MAS would only be available for the morning shift, normally 0500-1300 local time. This is the period when the first morning peak occurs in terms of air traffic and delays cause maximal impact due to so-called snowballing (effects that can be felt throughout the whole day and sometimes even longer).

In prolonged extreme weather situations KNMI will try to have a second MAS available for a late shift. The period of presence can also be changed when adverse weather is forecast during any other specific period of the day (e.g severe thunderstorms in late afternoon during summer)



## Evaluation

Evaluation of the pilot scheme showed that in 77% of cases the deployment of the MAS was useful to very useful, in 13% of cases it was deemed to be not necessary and in 10% of cases necessary but not deployed. Furthermore Air Traffic Controllers were appreciative of the presence of the MAS very much, awarding their ability over the whole period with 8 or above (on a scale of 1-10).

According to what was expected from climatology, the MAS was sent to the airport on 55-60% of the days during winter.



## Conclusion

The main conclusion was to implement the deployment of a weather dependent MAS following the successful trial provided by the pilot scheme. It was decided to refine the criteria/thresholds on which the decision to deploy or not would be based. To facilitate face to face contact with other users (such as Schiphol Airport Authorities), a video conference system would be put in place.

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