



**WORLD CLASS
MAINTENANCE**



Advancing your
Aerospace and Airport Business

Roadmap and Roundtables

The runway for MRO – where are we now and where do we want to go; 28-11-2023, Amsterdam



NAG Special Interest Group MRO

- What
 - Group of representatives in the MRO Aerospace industry who aim to share knowledge and experiences and look for opportunities to further smart sustainable MRO in the industry.
- Who
 - Fokker Techniek
 - KLM E&M
 - NLR
 - TU Delft
 - Brabantse Ontwikkelingsmaatschappij (BOM)
 - World Class Maintenance (WCM)
- Goal
 - Investigate and identify opportunities for collaboration
 - Stimulate development and innovation to further smart sustainable MRO in the industry.

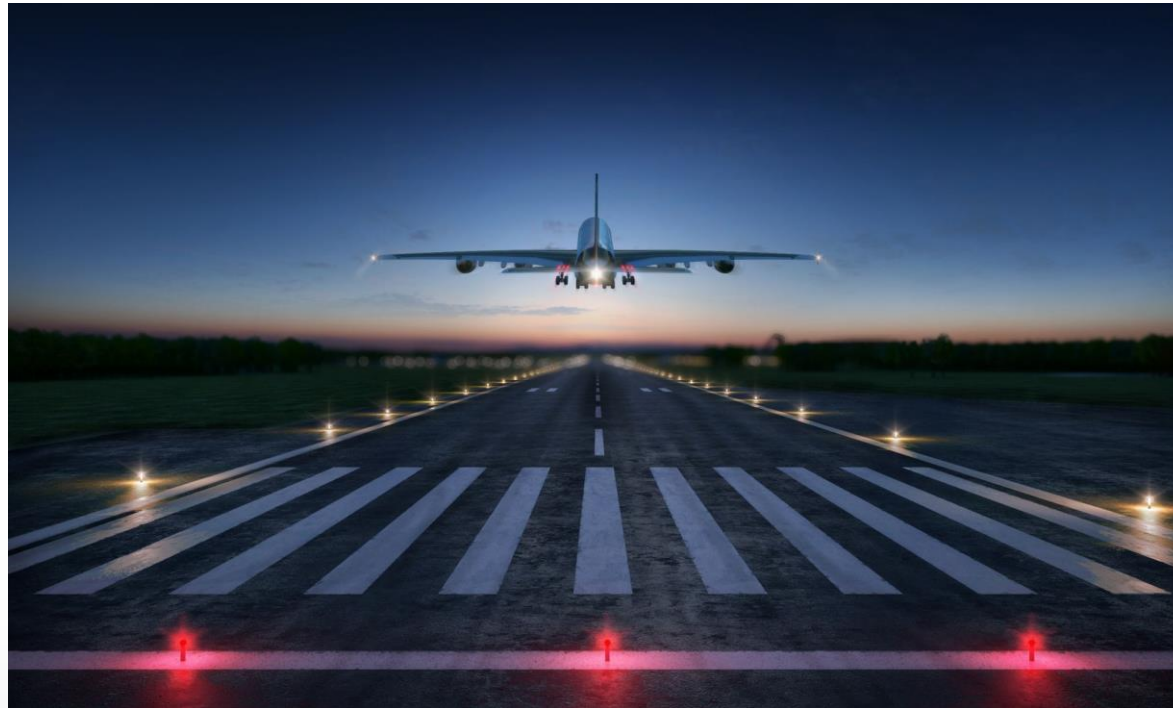


Roadmap MRO

- The first step is to map the current status of MRO in the aerospace sector and to identify important themes and developments in the form of a roadmap.
 - Ongoing process
- Goals of the roadmap
 - Map current developments in MRO
 - Identify short- and midterm opportunities for collaboration in improving MRO
 - Turn these opportunities in to actionable projects
 - Follow up is key
 - Connection to Nationaal Collectief Businessplan

Roadmap MRO (2)

- Approach
 - Survey to the NAG-members for this
 - In-depth interviews with key stakeholders
 - Questionnaire during the MRO Europe in Amsterdam (University of Applied Sciences)



Preliminary results: Some highlights

- Developments
 - Digitalization and automation
 - E.g. automated inspections
 - Predictive maintenance
 - Data analysis
 - Artificial Intelligence
 - Training using VR and AR
- Challenges
 - Personnel shortage & qualifications
 - Image problem of civil Aerospace
 - Collaboration [with OEM]
 - Competition with low wage countries



Roundtable discussions

- Setup
 - Four tables/groups, two rounds
 - Brief plenary discussion after each table
 - General reflection and follow up (Paul van Kempen)
- Questions
 1. Which developments in the MRO Aerospace can be achieved within 2 years?
 - 30 minute table discussion, 10 minute plenary recap
 2. Which challenges do you see for these developments, and how can these challenges be addressed?
 - 30 minute table discussion, 10 minute plenary recap
- Outcome
 - Completion roadmap
 - Action plan



Roundtable discussions (2)

- Groups (for both rounds)

Lex Besselink (1)	Roland Grimm (2)	Paul van Kempen (3)
Frank Buijsen	Jürgen Donders	Jan Verbeek
Jan Bos	Ruben Ogink	Ivo van der Vlis
Martin Knecht	Frank Wehnes	Timo Wassenaar
Edwin Poldermans	Bruno Santos	Paul Rusch
Rob Koedijk	Marco Nawijn	Koen (Hello New Day)

Questions?

- If you have any questions about WCM:

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