

FINAL STATEMENT & RECOMMENDATIONS



Under the Patronage of **H.E. Dr. Abdullah Belhaif Al Nuaimi**, Minister of Infrastructure Development, the Arab Council of Operations and Maintenance (OMAINTEC) organized, with the effective participation of the Saudi Ministry of Defense - the General Directorate of Military Works, and with the support of several regional and international bodies and organizations, the 17th International Operations and Maintenance Conference in the Arab Countries, under the theme of “Enhancing Maintenance Through Big Data Management”, held on **November 2019 ,21-19, in Dubai**.

The Conference addressed the following topics:

1. Roads & Transport Systems Maintenance Forum
2. Electrical Systems Maintenance Forum
3. Water Management and Systems Maintenance Forum
4. Communication Systems, Smart Maintenance and Cyber Security Forum
5. Building Maintenance, and Facilities Management Forum
6. Biomedical and Clinical Engineering Forum
7. Maintenance Systems & Management Forum

The Conference program included two panel discussions, the first one was entitled “International Experience in Maintenance from Norway” and the second one presented the regional experiences in maintenance, the Ministry of Infrastructure Development in UAE presented its experience on asset management as well as the National Program of Projects Management, which presented Operation and Maintenance Organization (Mashroat) Overview – Saudi Arabia.

The Conference included 17 workshops in the field of operations and maintenance, which dealt with the following topics:

1. TPM-a foundation of Operational Excellence and Partnership within the Emerging World of Industry 4.0 (Part 01)
2. Understanding Some Limitations of Vibration Spectra
3. Sustainable Flexible Pavement in Terms of Micro Crack Healing Concept
4. Future trends in maintenance, training and qualifications
5. Next Generation O&M – Digitized Autonomous, & Agile ... Digital Transformation approach towards achieving Operational Excellence
6. Value Engineering : A Decision Making Tool For Facility Management Options - Australian Practice
7. A Stores Application - My Key Steps of Implementation of a Stores System, Starting from a Collection of Asset Components Spread Around a Room
8. TPM-a foundation of Operational Excellence and Partnership within the Emerging World of Industry 4.0 (Part 02)
9. Life Cycle Costing in Asset Management and Maintenance
10. Hospital of the Future
11. Effective implementation of road and airport maintenance management system
12. Determining Hard Time Task Frequencies using Quantitative Risk Assessment
13. Advances in Evaluation, Testing, Repair and Maintenance Management of Structures: Overview of the New Modified ACI 562M16- Code for Repair of Structures
14. FM Development within Regulatory Framework in GCC Area
15. Digital Transformation and Biomedical Engineering
16. Medical Equipment Safety According to Accreditation Standards
17. Maintenance in the digital world... The real game

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The opening ceremony of the Conference included speeches given by Dr. Zohair Al-Sarraj, Secretary General of the Conference and Dr. Mohamad Al-Fouzan, Chairman of the Arab Council of Operations and Maintenance.

Furthermore, the sponsors and collaborators were honored, and the Arab Operations and Maintenance Award was presented in the Ceremony.

The participants in the Conference expressed their gratitude and appreciation to H.E. Dr. Abdullah Belhaif Al Nuaimi, Minister of Infrastructure Development for his kind patronage of the Conference, and to Eng. Hasan Al Mansouri, Undersecretary of the Ministry, who represented the conference patron at the opening ceremony.

The participants also expressed their gratitude to the collaborators and the supporters for their distinguished role in supporting the organization of the seventeenth session of the Conference, as well as to all the bodies, organizations, companies, the organizing committee and the scientific committee who have made great efforts to support the success of the Conference.

The participants would like also to thank ExiCon International Group, the Organizing Partner and to express a special thanking to the Saudi Ministry of Defense - the General Directorate of Military Works.

The participants and speakers at the Conference pay tribute to the achievements of the Arab Council of Operations and Maintenance and wish the Council success in its Works and Activities.

According to the recommendations contained in the worksheets, and according to the discussions that took place at the Conference sessions and workshops, the participants make the following recommendations:

Recommendations

1. Pay attention on a clear mechanism for the stability and analysis of the data associated with the maintenance operations, especially the ones provided by the intelligent systems for maintenance in order to develop the method of making maintenance decisions to reduce costs, increase the quality of performance and raise reliability.
2. Develop plans for the digital transformation in the management of operations and maintenance in health care facilities and medical equipment "Data Informatics in Health Care".
3. Benefit from the international experiences in developing a standard methodology in adopting maintenance functions "Certification & Accreditation".
4. Adopt the application of the comprehensive facilities management concept and property management to achieve a balance between the performance of various elements of services in public utilities and the opportunity to use companies as facility managers such as project managers, and to give a bigger role for consultants in supporting the supervision of operation and maintenance, especially in performance contracts.
5. Focus on the use of modern technologies in maintenance techniques, extrapolation of equipment and its conditions, intelligent systems, development systems, triple modeling, provide information, reduce costs, increase systems lifetime, equipment and facilities, and pay attention on establishing remote response centers, especially in electricity networks.
6. Activate the proposal of the Arab Council for Operation and Maintenance to prepare a standard reference manual for the classification of maintenance jobs in order to promote the idea of mandatory the professional classification and reliance on maintenance workers in preparing for capable staff of comprehensive management of facilities and assets, and develop a mechanism to build a professional classification system for maintenance workers and prepare a guide manual to develop training strategies, build capacities and merit in maintenance field.
7. The importance of adopting strategies based on artificial intelligence and intelligent systems and technologies in the inspection and maintenance of transport facilities, roads and infrastructure.

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8. Review international building and maintenance codes to prepare for the foundations of an Arab maintenance code for buildings, and form a working group in the Arab Council for Operation and Maintenance to achieve it in coordination with the League of Arab States.
9. Pay attention to the development of programs for the calibration of equipment and testing methods and the settlement of these activities through qualified and certified staff.
10. Pay attention to the development of a clear mechanism for the stability and analysis of the big data associated with the maintenance operations, especially the ones provided by intelligent systems for maintenance to develop the method of making maintenance decisions to reduce costs, increase the quality of performance and raise reliability.