CBM+ AI ML 그리고 PHM

모아소프트 장주수

1. Maintenance History



2. Why Change?

- 1. 무기체계의 복잡도 증가
- 2. 체계 운용-유지비용의 폭발적인 증가
- 3. 정비를 바라보는 정책의 변화

Performance-Based Logistics

CBM⁺

Continuous Process Improvement

Modeling & Simulation

TLCSM

2. Why Change?



Maintenance Strategy

2. Why Change?



- 1. How to predict equipment **failure**?
- 2. How to get a holistic view of equipment **condition**?
- 3. How to get more accuracy in **failure prediction**?
- 4. How to reduce the **cost of ownership**?
- 5. How to reduce equipment **mean down time**?
- 6. How to improve equipment and component **reliability**?
- 7. How to optimize equipment **performance**?

4. AL-PBL-CBM+-PHM



5. Integrated Approach to CBM+/PHM



6. CBM+/PHM



7. Digital Twin



8. RUL



9. References

- 1. George Vachtsevanos, Frank L.Lewis, Michael Roemer, Andrew Hess, and Biqing Wu, Intelligent Fault Diagnosis and Prognosis for Engineering Systems, John Wiley & Sons, 2006.
- 2. Condition Based Maintenance Plus DoD Guidebook, 2008.