PACMAN

Prognostics And Computer Aided Maintenance

Prognostics for Engine's Hydro-Mechanical Unit

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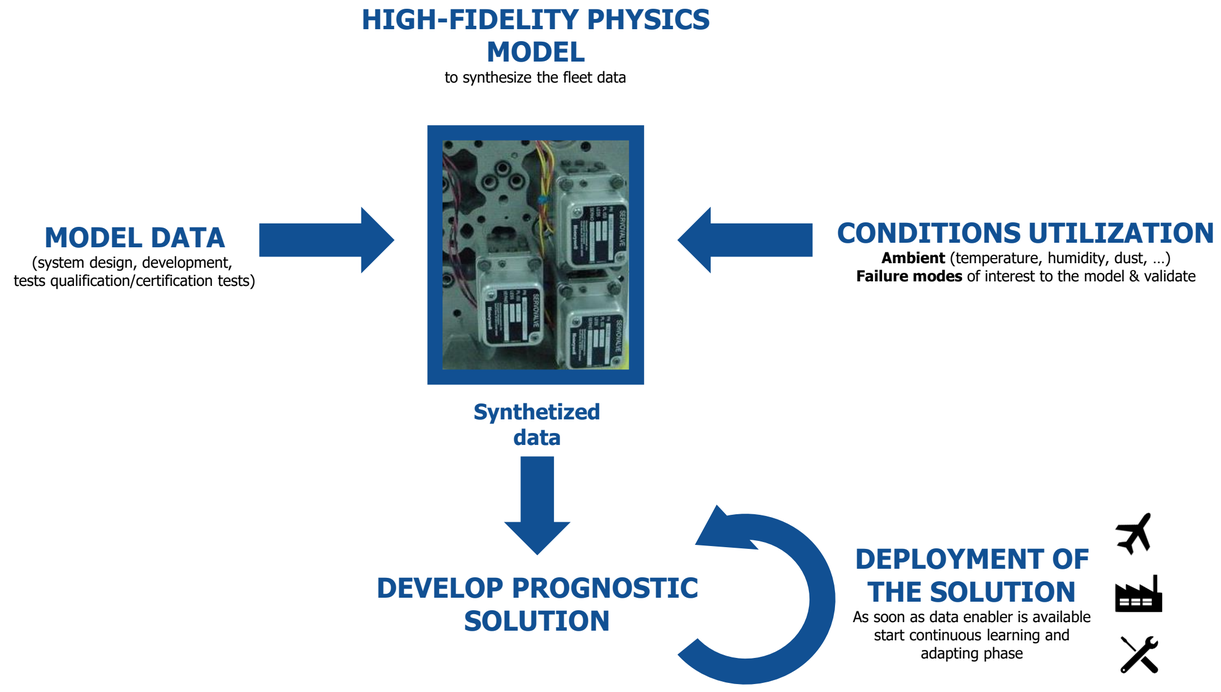
Challenges for Prognostics Development

1. **Identify** data collection specification for aircraft systems where no measured data are available and identify its **benefits**

2. **Develop** prognostic solution that will be **ready to deploy**, when no current or historical measured data exist

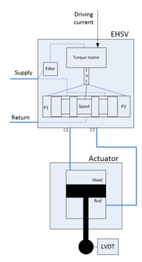
3. **Develop** prognostic solution for failure modes that **occur rarely** but have high impact (limited measured data for development)

Concept & Approach



Use-case System

Electrohydraulic Servovalves (EHSVs) of engine's **Hydro-mechanical Unit** (HMU)



Results

- Data synthesized by high-fidelity model **validated** by means of hardware seeded experiment
- Concept of prognostics for Electrohydraulic Servo valves in place and ready to deploy & test in real environment

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