

PLCS Opportunity

Problem Statement: Lack of accessible technical information that is reusable throughout the life of the system and is linked to product configuration, which drives higher total life cycle costs

Impacts:

- **Maintenance, Training, Operations**
 - **Requires asynchronous processes to compare As Is to As Documented.**
Without process:
 - **Drives wrong part, wrong tool or wrong/missed tasks, which drives incorrect human resources and could result in catastrophic problems**
 - **Additional time, effort and schedule delays to re-work**
 - **In service maintenance results in configuration mismatches**
 - **Not aligned to configuration**
 - **Not aligned to in-service maintenance and operational information**

- **Acquisition/Sustainment**
 - **Procurement**
 - **Re-procurement**
 - **Supply**
 - **Warranty management**

- **Quality**
 - **Complete**
 - **Current**
 - **Correct**

- **Safety**
 - **Injury**
 - **Mission Failure**
 - **Costly Damage**
 - **Un-predictable behavior**

Future Vision:

Structured information aligned to product configuration, which is accurate, relevant, consistently and constantly updated, shared and re-used by all stakeholders

- **Implement PLCS and associated standards to demonstrate how they can be applied to achieve the future vision**
 - **Prioritize requirements and select the areas to implement pilots**

- **Identify existing metrics of current state and metrics for pilot For example:**
 - **System/product availability**
 - **Tracking of resources (people, parts etc..)**
 - **Cost of data translation**
 - **Labor for assuring quality of translated data**
 - **Span time from approved change to structured information update**
 - **Cost of sustainment (including interim fixes) i.e.**
 - **Data failure rates, and possibly system failure rates**
 - **Turn Around Time**
 - **Failure in documentation**

Pilot Considerations

- **Multi-National**
- **Need comparative sources of reference (control)**
- **Effective as-is metrics**
- **Solve a business need**
- **Willing participants**
- **Cadre of qualified SME, including PLCS**
- **Funding is available and reasonable**
- **Bounded scope working to defined requirements**
- **Degree of IUID implementation**
- **Ability to export information about pilot**
- **Common problem**
- **Sea relevant system**
- **Incremental Implementation with measurable results in distinct phases of short duration**
- **Open International Standards based**
- **Exploits existing tools sets that are open where feasible**
- **Pilot consistent with participant standards and policies**
- **Include multiple stakeholders**