

Standardized Software Architecture (Preliminary Set of Requirements & Objectives)

- **Pervasive software architectures**
- **Scalable and reconfigurable architectures**
- **Consistent with SI hardware specifications (SIWG)**
- **Supports multiple processing platforms (CPU, FPGA, GPU, etc.)**
- **Supports multiple standards (VXI, PXI, LXI, AXI, PCIe, Ethernet, etc.)**
- **Addresses User Interfaces (UI, GUI, etc.)**
- **Addresses TPS portability, reuse, and TPS development**
- **Supports software reuse (organic, 3rd Party, etc.)**
- **Addresses end-user application development (organic)**
- **Addresses concurrent operation of instruments**
- **Allows mechanisms for protecting Intellectual Property (IP)**
- **Supports hardware “swapability”**
- **Supports multiple software development environments**
- **Supports incorporating IVI classes**
- **Addresses backward compatibility with legacy instruments**
- **Addresses “forward” looking compatibility**
- **Address RF, Low Frequency, and Digital instrumentation**

Standardized Software Architecture (Preliminary Project Plan)

PHASE 1

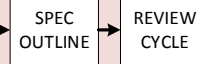
REQUIREMENTS ANALYSIS



- INITIAL TELECON
 - TASK ASSIGNMENTS
 - ESTABLISH SCHEDULE
 - ESTABLISH "APPROVAL" CRITERIA
 - ESTABLISH DATA SHARING "METHOD"
- BI-WEEKLY TELECONS
 - REQ DOCUMENTATION
- CONSOLIDATE REQTS
 - SUMMARY REVIEW
 - APPROVE REQTS DOC

PHASE 2

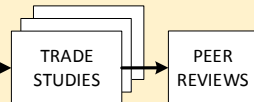
SPEC OUTLINE



- BI-WEEKLY TELECONS
- SPECIFICATION OUTLINE
- SUMMARY REVIEW

PHASE 3

TRADE STUDIES



- TASK ASSIGNMENTS
- BI-WEEKLY TELECONS
- DATA CONSOLIDATION
- PEER REVIEWS
- SPECIFICATION ADJUSTMENT
- SUMMARY REVIEW

PHASE 4

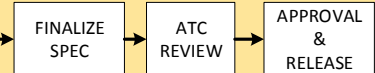
SPEC DEVELOP



- CONSOLIDATE SPECIFICATION
- BI-WEEKLY TELECONS
- PEER REVIEWS
- SUMMARY REVIEW

PHASE 5

ATC REVIEW & APPROVAL



- FINALIZE DRAFT SPECIFICATION
- PEER REVIEWS
- COMMITTEE REVIEW
- APPROVAL AND RELEASE

TIMELINE - ??????