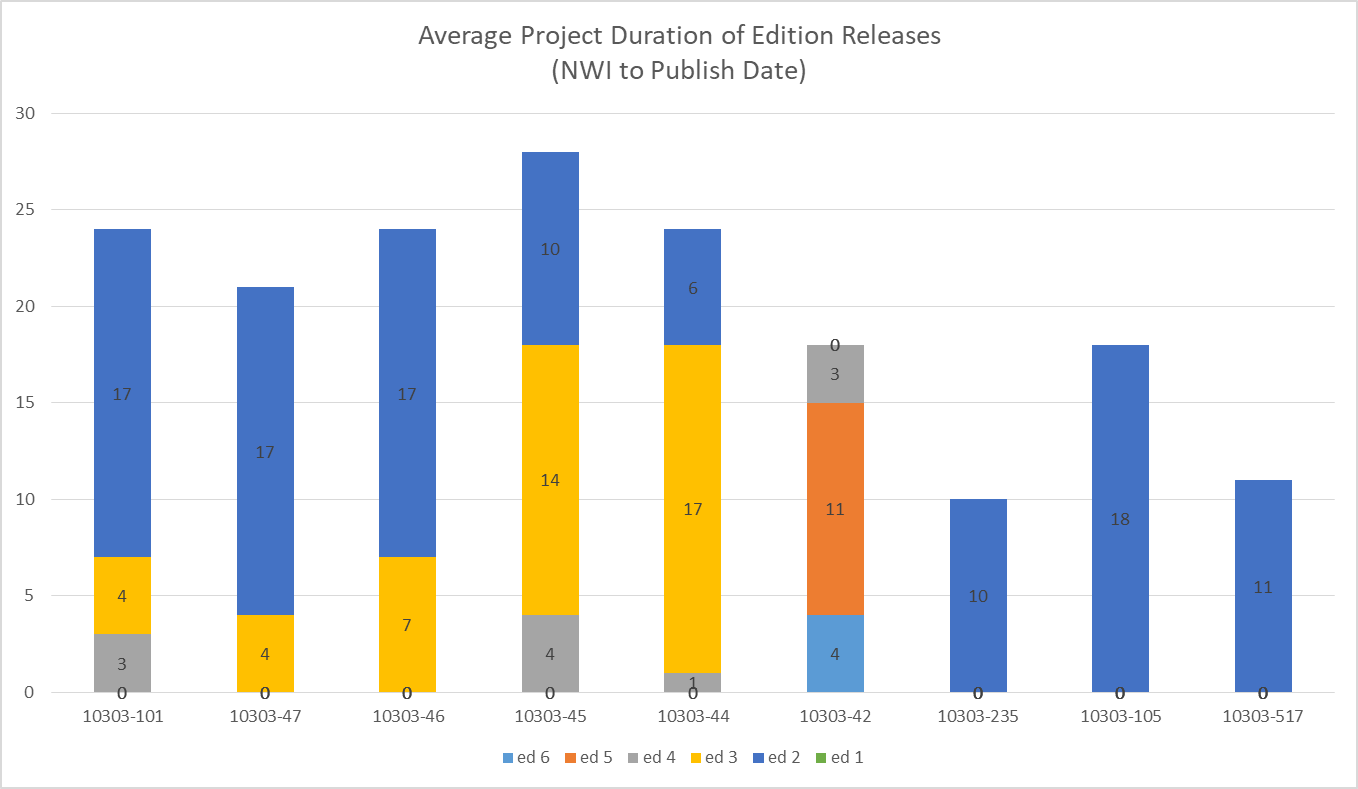
1. Issues with current development lifecycle [in terms of business impact]
   1. Issue 1: Development Time Length
      1. Failure to gain consensus [International Agreements]
         1. Poor requirements management
         2. Poor documentation on agreement and priorities
         3. Poor process instruction and compliance:
      2. ~~Volunteer staff~~ Resource commitment/management
         1. Volunteer staff
         2. Lack of resources (and shared by multiple projects)
         3. Unreliable SOW/time estimates
         4. Virtual distributed team
   2. Issue 2: Quality/Completeness of Standard
      1. Lack of knowledge
         1. Knowledge of data model
         2. Knowledge of the development process
         3. Knowledge of the tools used for development
      2. Lack of adequate toolchain
         1. Lack of automation
         2. Technology obsolescence

As the previous section discussed industry is moving to a more agile framework for rapid incremental development internally as they strive towards enabling the digital threads for their enterprises.



*Figure 1: Average project duration by edition (data based on ISO.org project metrics)*

The current lifecycle for STEP development takes on average XXX years from “new project approval” state to “international published” state according to the ISO project statistics. This is a growth trend in project length that hinders the industry’s ability to compete agilely utilize standards.

In order to support industry demand and make standards as beneficial as possible the length of development must be addressed and reduced. There are two primary contributing factors causing an extended development cycle:

1. Failure to gain consensus [International Agreements]
2. Resource commitment/management

Another issue facing the current development lifecycle is that of quality/completeness concerns of the published standards.

CAx-IF has continually reported issues of implement-ability of the standards due to overt complexities of the data models. While a transition from monolithic to modular architecture has been a measure to combat this the problem still persists.

Solutions are truncated due to time/funding/resource constraints and implementations are incomplete. Example electrical wire harness.