

# NDIA IPMD Predictive Measures Guide Update

**Summary of Changes April 2021** 

1 4/22/21

### Thanks to the team

One year spent reviewing the document, gathering industry input, and making updates. 86 comments received.

Many thanks to section leads -Yancy Qualls & Lisa Hastings Linda Adams Melissa Hildebrandt Jay Carbonella Andrea Nibert Elizabeth Schloer Vaughn Schlegal



National Defense Industrial Association Integrated Program Management Division

### A Guide to Managing Programs Using Predictive Measures

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Revision 3

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4/22/21

Section by Section Summary

Summaries were created for each section in order to detail where specific metrics can be located in the guide - along with their definition and relationship to other metrics.

### 2 Schedule Metrics

**Section Summary** 

Schedule Metric	Full Name	Summary	Relationship to Other Metrics	Found in Section:
		Measure of demonstrated schedule performance, using traditional EV data,		
SPI	Schedule Performance Index	which can be used as a comparison for future projections	Similar to: BEI, SPIt	2.1
		Measure of demonstrated schedule	****	
BEI	Baseline Execution Index	performance, using task counts, which can be used as a comparison for future projections	Similar to: SPI, SPIt	2.2
DEI	meen	projections	×***	2.2
CPLI	Critical Path Length Index	Measure of the risk associated with meeting a downstream deadline	Similar to: TFCI	2.3
		Measure of near-term schedule forecast	No close	
CEI	Current Execution Index	accuracy	relationship	2.4

4/22/21

Updated Tables & Figures:

Tables and figures were updated throughout the guide in order to provide updated dates and improved quality.

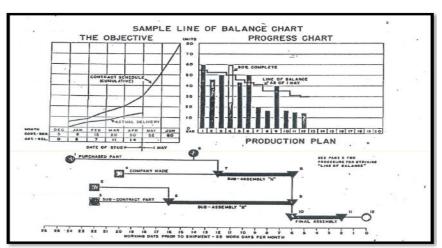
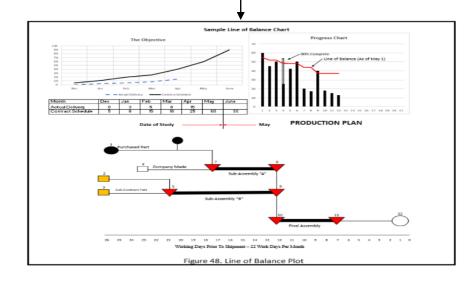


Figure 48. Line of Balance Plot



4/22/21

Additional Sections Incorporated:

Additional metrics were added or removed in the following sections

- Scheduling
- Contract Mods
- Requirements
- Product Roadmap

### 7.2 Product Roadmap Completeness Measure

### Metric Definition

Product Roadmap Completeness Measure involves monitoring the features documented in the program's roadmap. The features should represent the means to meet the objectives documented in the contract. Each feature within the roadmap should be monitored for completeness, as well as the holistic roadmap completion. This measure compares planned feature completion with actual feature completion.

#### Calculations

The base measures are:

- The physical count of all features and all epics in the roadmap.
- The physical count of the sum of the "weight" (stories / story points) of all features and epics in the roadmap.

The basic algorithms are:

$$Roadmap\ Actual\ \%\ Complete = \frac{Features + Epics\ Completed}{Total\ Feature + Epic\ Count}$$

 $Roadmap \ Weight \ Actual \% \ Complete$   $= \frac{Sum \ of \ Feature + Epic \ Story \ Points \ Completed}{Sum \ of \ Total \ Feature + Epic \ Story \ Point}$ 

3/10/21

Refined Writing & Improved Questions:

Each section was thoroughly reviewed to improve clarity and additional questions were included to add depth to each section.

4/22/21 6