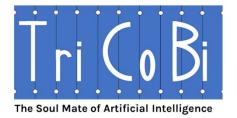




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Chrono™ Training Reference Guide

Version 2.1 – August 2022



ChronoTM Training Reference Guide IMS (Integrated Master Schedule), SRA (Schedule Risk Analysis) & ES (Earned Schedule) Training



Moneyball for Project Management

Chrono™ MS, SRA & ES Training



Agenda

Running the Template File Downloaded with Chrono™

- Setting Up the Defaults
- Running the Simulation and Accessing the Browser Output
- Previewing the Browser Outputs

Creating an IMS (Integrated Master Schedule) with Chrono™

- Opening a "Blank" File
- Using the Chrono™ Wizards to Create an Example IMS
- Important Project Calendar Considerations

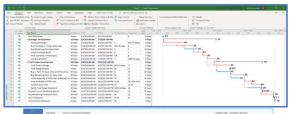
Performing an SRA (Schedule Risk Analysis) with Chrono™

- Changing Defaults
- Using the Chrono™ Wizards to Set-up the IMS for SRA
- ➤ Running the TriCoBi[™] Simulation and Setting the IMS up for Baselining
- ➤ The Chrono™ Output Gantt Chart Views

Performing ESM (Earned Schedule Management) with Chrono™

- Establishing the Project Baselines (Commitment and Target Schedules)
- Using the Chrono™ Wizards to Perform Updates to the Project







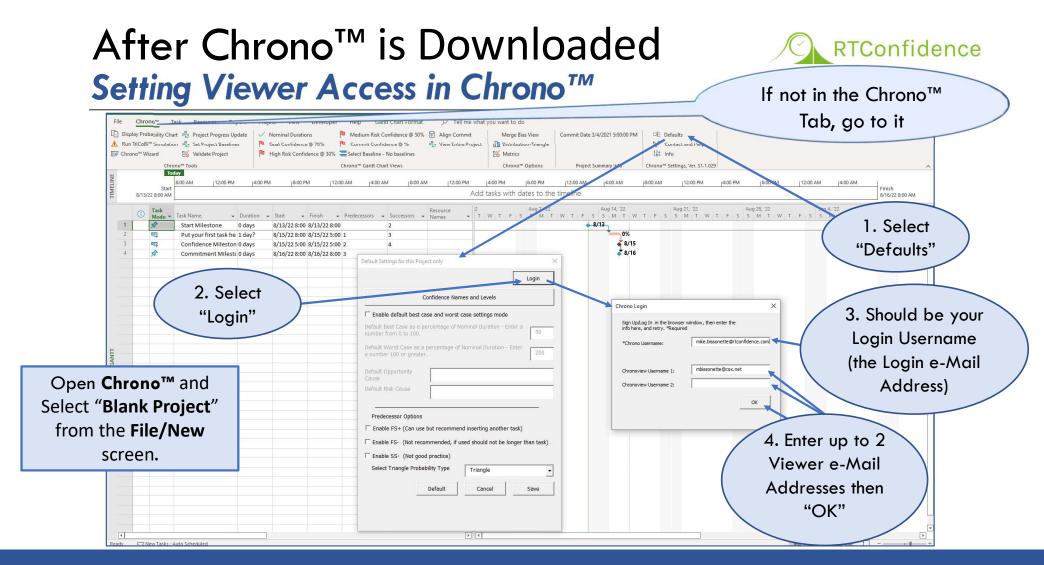


Free Chrono™ Download



Participate Interactively — Install Limited License

- This Training is Facilitated via Chrono™, so Let's Install Chrono™ Now
- MS Project and Chrono™ Installations
 - Chrono™ Requires Microsoft Project® and the Windows 10 (or later) Operating System to be Installed on Your Computer
 - If you do not have MS Project, Go to the Free Trial Link and Install it
 - Go to RTConfidence.com and Register for the Free 1-month Trial License of Chrono™ (No Payment Method Requirement)
 - Download and Install Chrono™ after Downloading and Installing MS Project
 - IMPORTANT Close MS Project Before Installing Chrono™!
 - If You do not Uncheck any Chrono Download Pre-Selections When You Finish Chrono will Launch, and You should See the Sample Project – Save_As this Project File

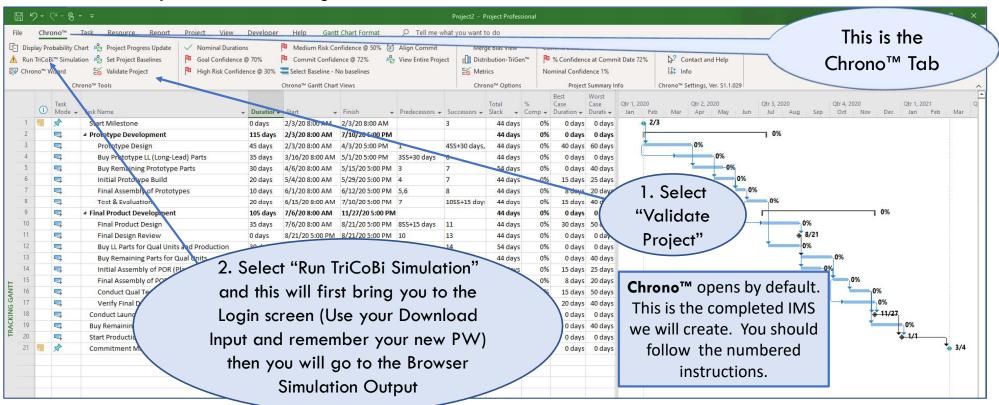


After Chrono™ is Downloaded Select: \Documents\RTConfidence\Chron



Select: \Documents\RTConfidence\ChronoTraining.mpt

This is a Completed IMS ready for SRA. Save_As and then follow the below Instructions





The IMS (Integrated Master Schedule)

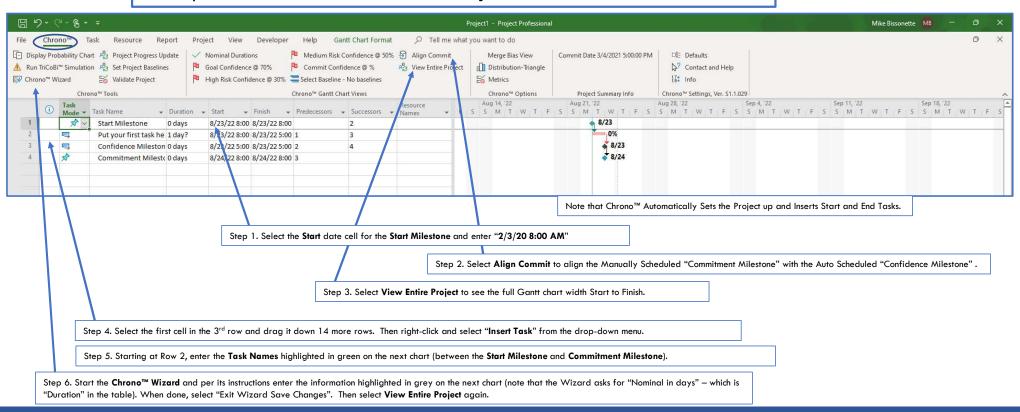
Example of Creating an IMS

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Sample Project Set-up

Open Chrono™ and Select "Blank Project" from the File:New screen.



Task Information

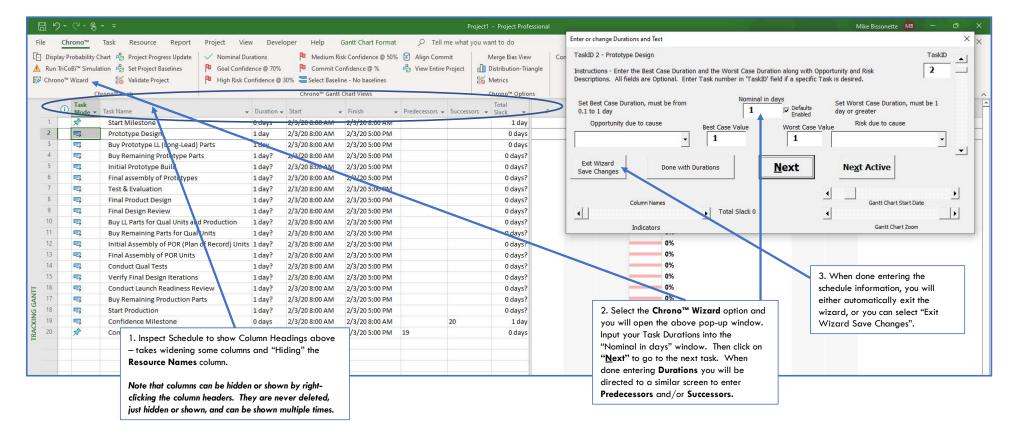


After typing in the Task Names, enter the information under Duration and Predecessors via the "Chrono™ Wizard" – see next Chart

Task ID	Task Name	Duration	Predecessors	Successors
1	Start Milestone	0 days		2
2	Prototype Design	45 days	1	3SS+30 days,4
3	Buy Prototype LL (Long-Lead) Parts	35 days	2SS+30 days	5
4	Buy Remaining Prototype Parts	30 days	2	6
5	Initial Prototype Build	20 days	3	6
6	Final Assembly of Prototypes	10 days	4,5	7
7	Test & Evaluation	20 days	6	8SS+15 days,10
8	Final Product Design	35 days	7SS+15 days	9
9	Final Design Review	0 days	8	11
10	Buy LL Parts for Qual Units and Production	30 days	7	12
11	Buy Remaining Parts for Qual Units	30 days	9	13
12	Initial Assembly of POR (Plan of Record) Units	20 days	10	13
13	Final Assembly of POR Units	15 days	11,12	14,15SS+10 days
14	Conduct Qual Tests	20 days	13	16,17
15	Verify Final Design Iterations	30 days	13SS+10 days	16
16	Conduct Launch Readiness Review	0 days	14,15	18
17	Buy Remaining Production Parts	30 days	14	18
18	Start Production	0 days	16,17	19
19	Commitment Milestone	0 days	18	

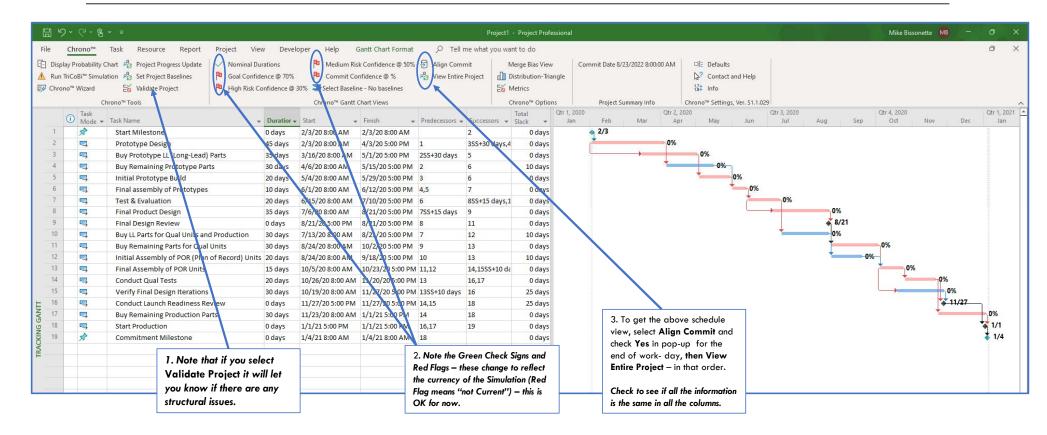






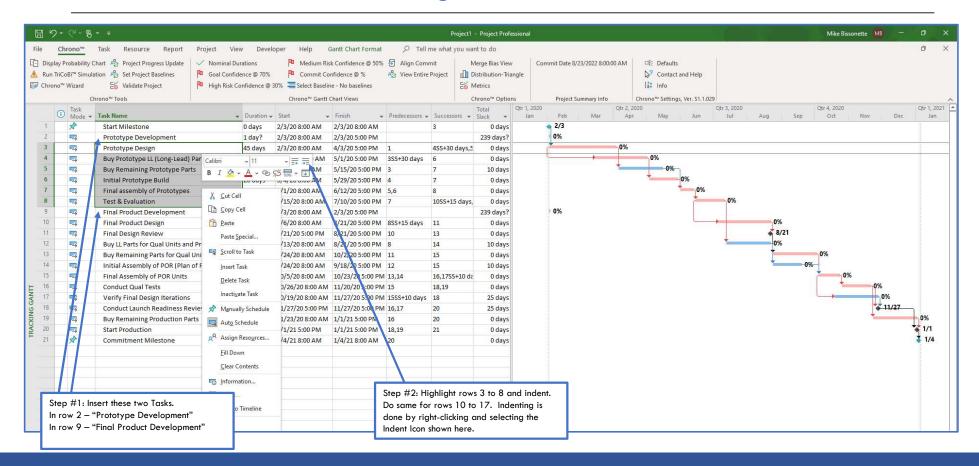


Interim Result with Predecessors and Successors



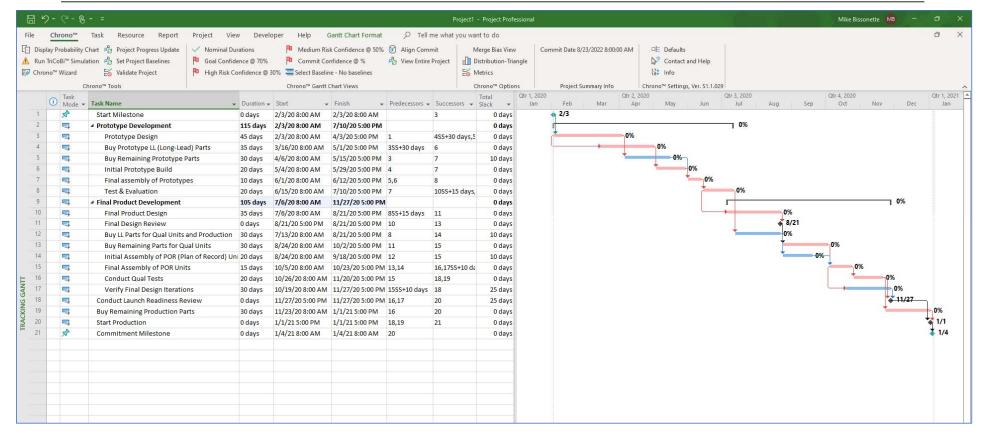
Final IMS Structure Changes







Final IMS



Project Calendar Considerations

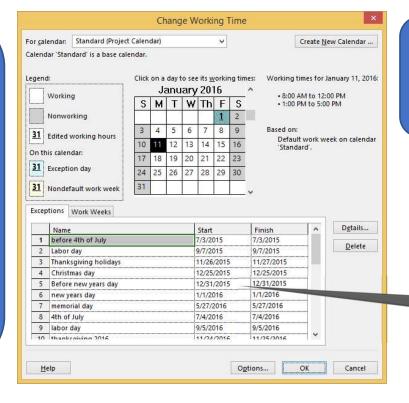


Changing the Calendar is the Only non-Chrono™ Tab Function

Below is an example for customizing the calendar

Notes:

- 1. Even though this example does not require Calendar changes, in real life all non-work-days (i.e., Holidays) should be entered into the "Standard Project Calendar".
- To set an IMS up for SRA and ES processing only ONE Calendar can be used. The Chrono™ default is the "Standard (Project Calendar)".

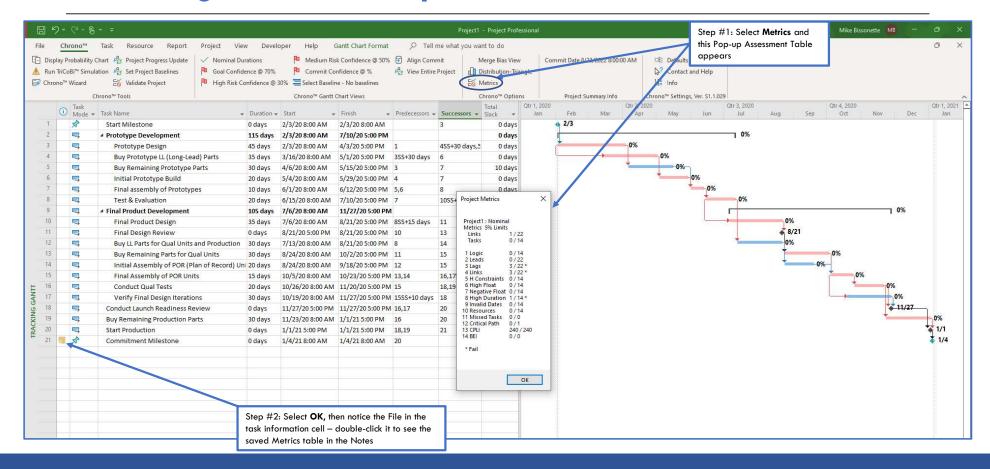


To get to this screen, Select the "Project" tab and then "Change Working Time".

> Additional Org. Calendar Info.

Assessing IMS 14-Point Metrics This Training IMS Deviates per Chrono™ Metrics







SRA (Schedule Risk Analysis) Training

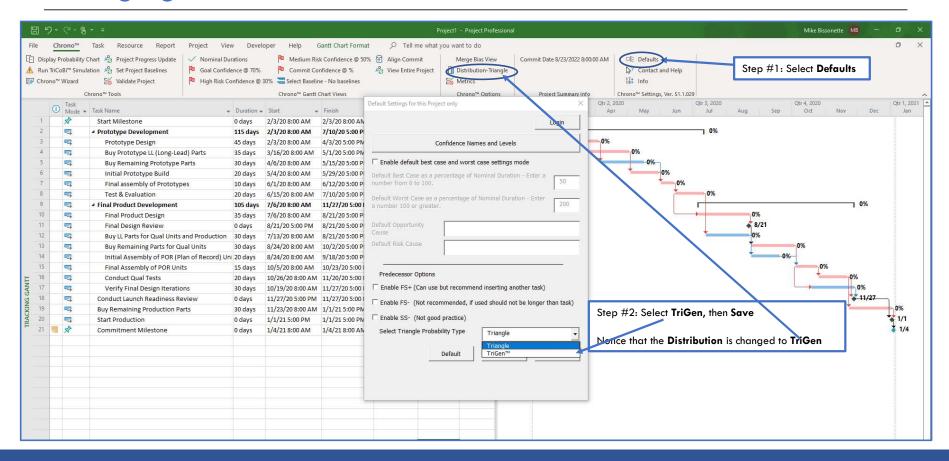
Example of Performing SRA

CHRONO™ TRAINING REFERENCE GUIDE

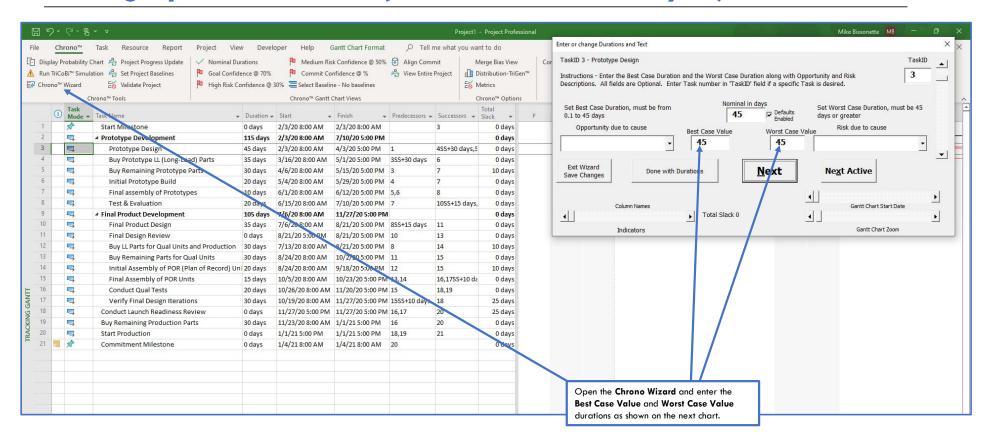
Performing SRA – Example

Changing Defaults





Schedule Risk Analysis – Example Setting up IMS for SRA (Schedule Risk Analysis)



Overall Project SRA Set-up

Example 3-Point Duration Estimates

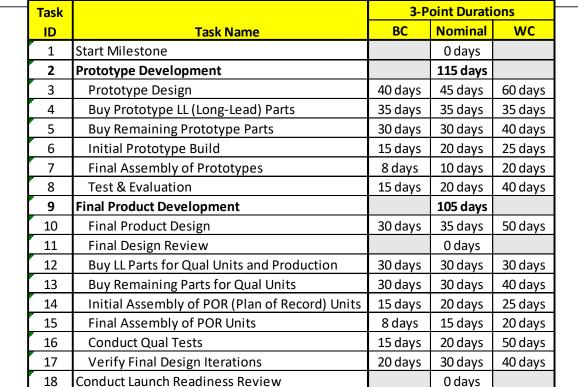
Buy Remaining Production Parts

Start Production

Commitment Milestone

19

20





Note that after you enter the numbers you will see that whenever the Best-Case and/or Worst-Case Durations are equal to the Nominal Duration Microsoft Project inserts a "O days" Duration.

Once done, select "Exit" and the Chrono Wizard runs the Validation routine automatically. If all is well you will see a message "Setup Wizard — Passed" — if not, you will be assisted in making the necessary corrections.

You will have to resize your Gantt view again to see the additional columns of data shown on the next chart.

RTCONFIDENCE, INC. PROPRIETARY

30 days

40 days

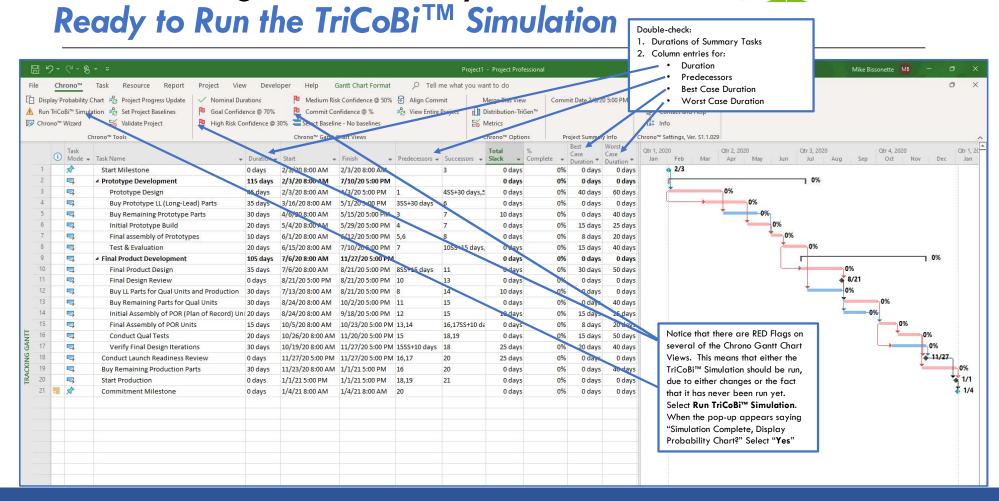
30 days

0 days

0 days

Performing SRA is Easy & Fast

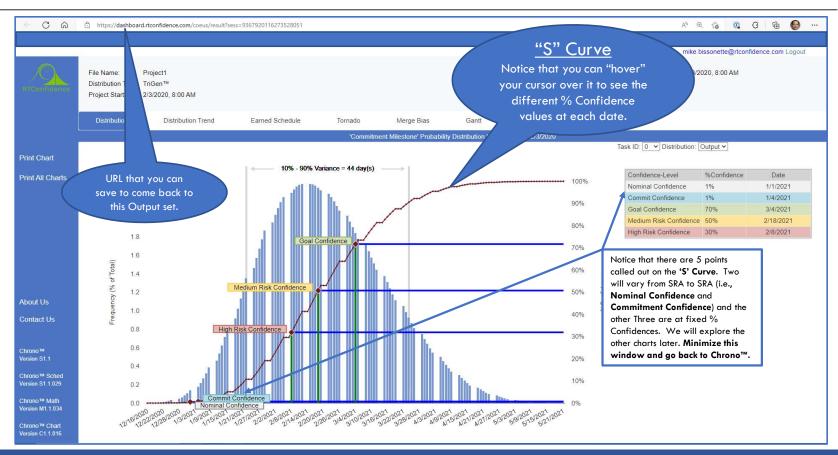




Chrono™ SRA Tool Results — Example RTConfidence



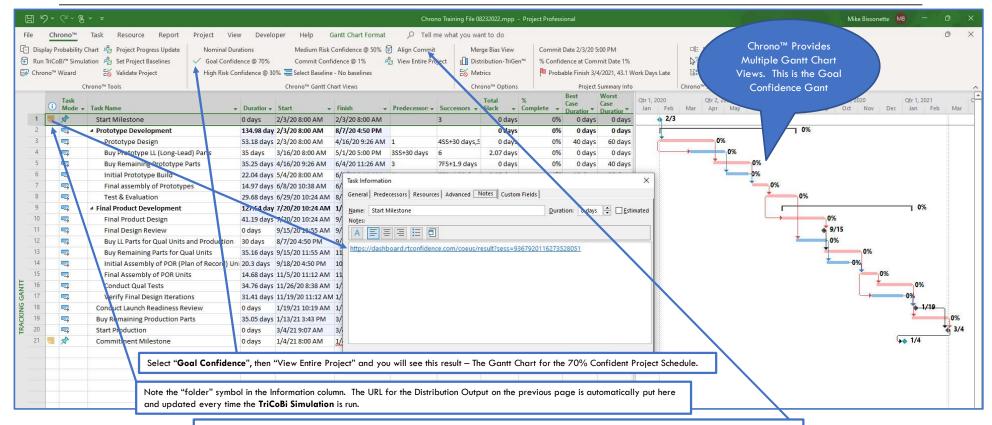
TriCoBiTM Simulation Output (Cloud Processed)



SRA Info is Sent Back to Chrono™



Chrono™ Produces Additional Gantt Chart Data

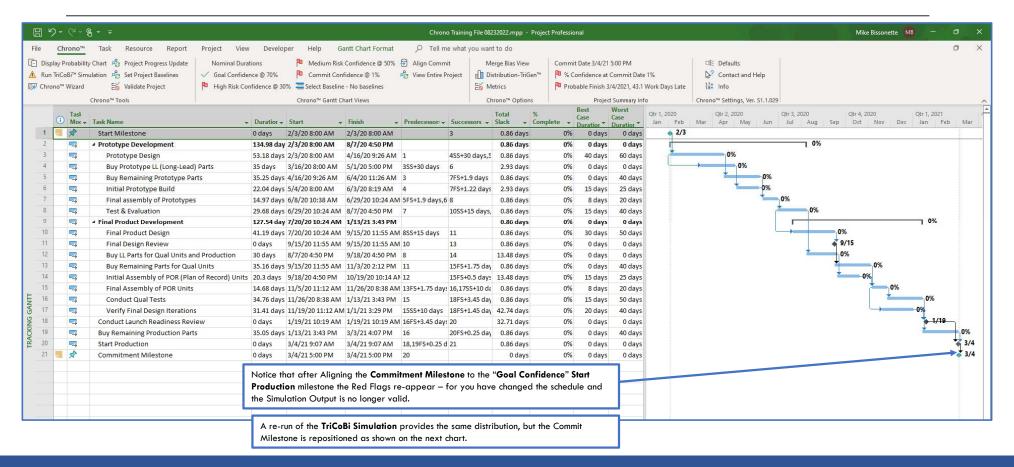


Now we will **Align Commit milestone** to the 70% **Start Production** milestone – note, we could make this Milestone any date desired, and the time on that date should be the end of the work-day – default is **5:00 PM**.

SRA Info is Sent Back to Chrono™



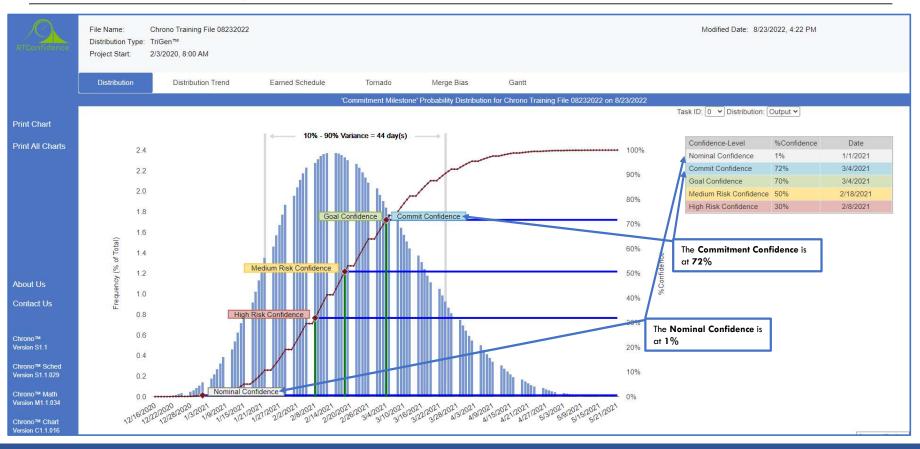
Chrono™ Produces Additional Gantt Chart Data



SRA is Easy and Fast with ChronoTM RTConfidence



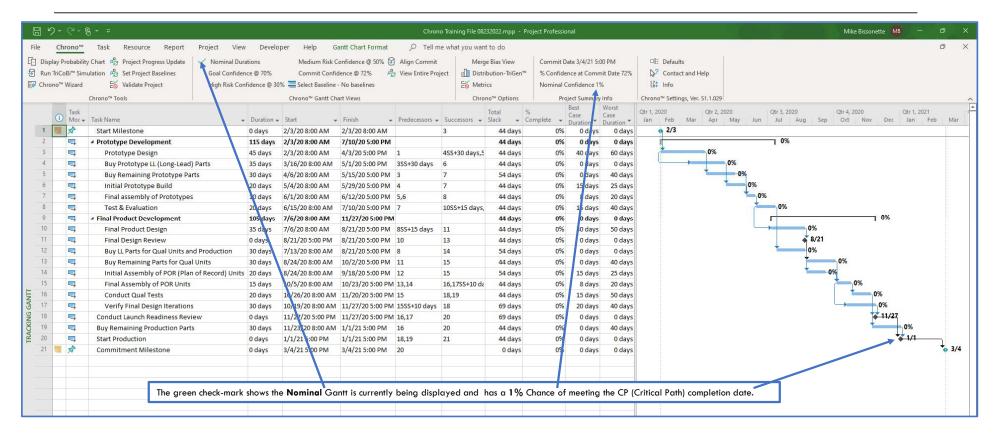
Simulation Output - "Distribution" Chart



SRA Info is Sent Back to Chrono™



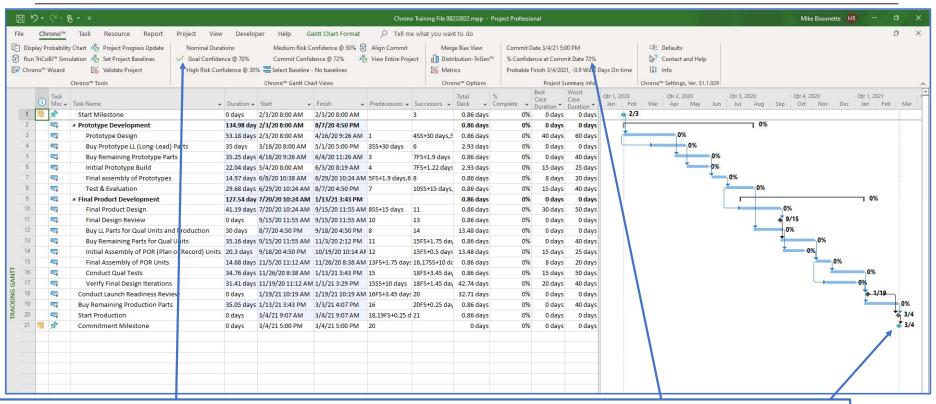
The Post-Simulation Nominal Gantt Chart



SRA Helps Establish Commitments RTConfidence



Post-Simulation Commit Confidence Gantt Chart

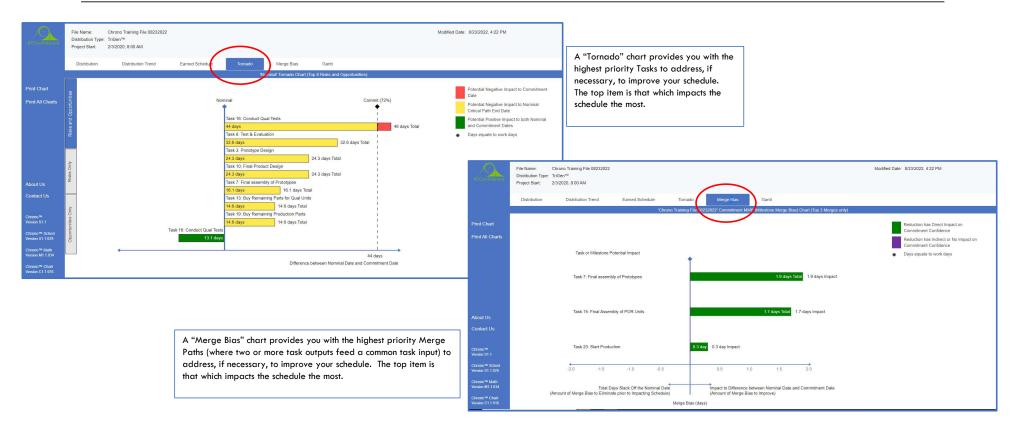


When you click on the Goal Confidence Gantt (or the Commit Confidence Gantt) you will see this result, and Chrono™ tells you what the % Confidence is (72% here) of meeting the commitment completion date.

Chrono™ SRA Outputs



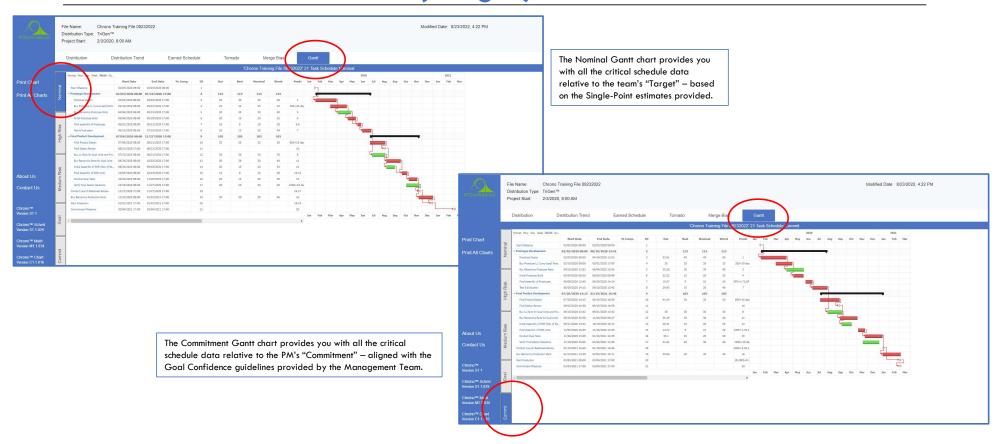
"Tornado" & "Merge Bias" Charts



Chrono™ SRA Outputs



Gantt Charts - Nominal (Target) & Commitment



Schedule Development Process



Final ChronoTM Note

- ☐ The Distribution Chart Shows only the Result for the Last IMS Milestone
- Other Task Milestones can be Viewed via the Drop-down Menu Selections:
 - Task ID: #
 - Distribution: Output, Input or Task (Input + Task = Output)
 - Try this for Task #7
 - Select Task #0 Distribution "Output" to get back to the Completion Milestone Chart





ES (Earned Schedule) Training

Example of Performing ES

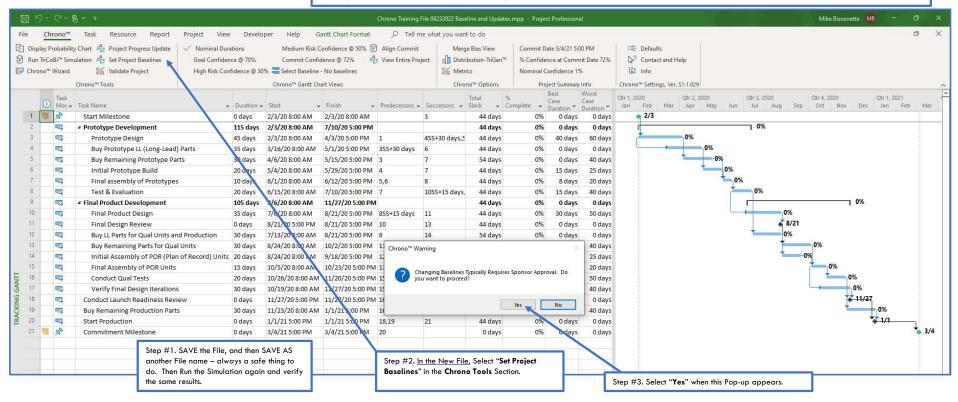
CHRONO™ TRAINING REFERENCE GUIDE

Baselines and Schedule Updates



Establishing Project Baselines

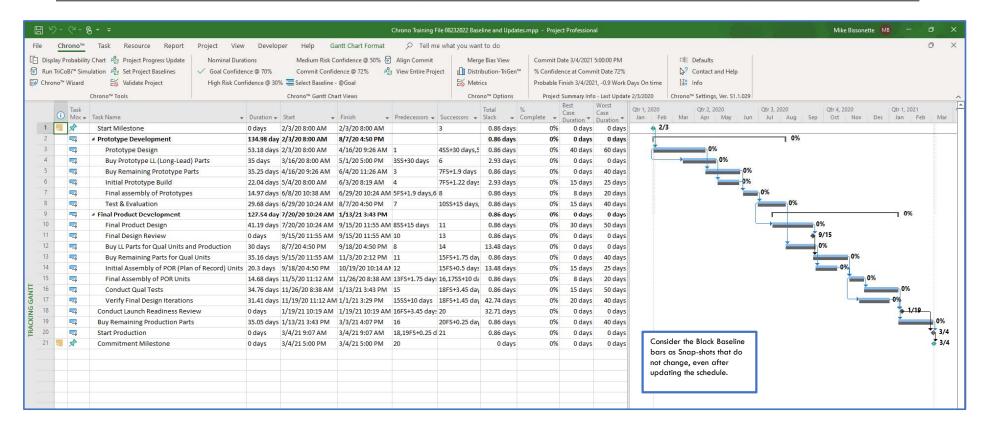
If you haven't already done so - SAVE then SAVE_AS New File Name



Establishing Baselines



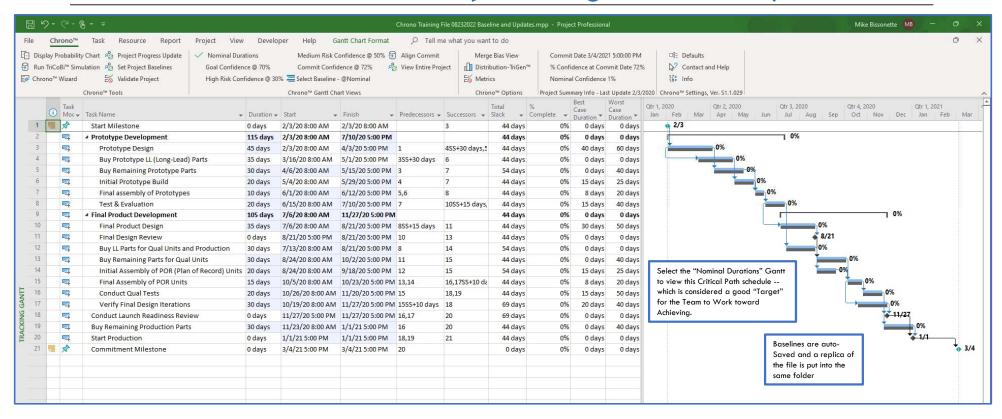
The Baseline Goal Gantt (i.e., Commit Schedule)



Establishing Baselines



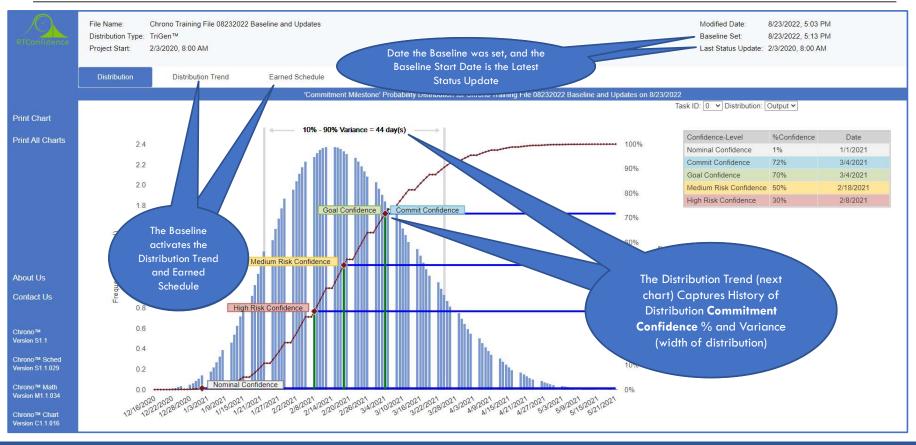
The Baseline Nominal Gantt (i.e., <u>Target</u> Schedule)



SRA Simulation Output Display



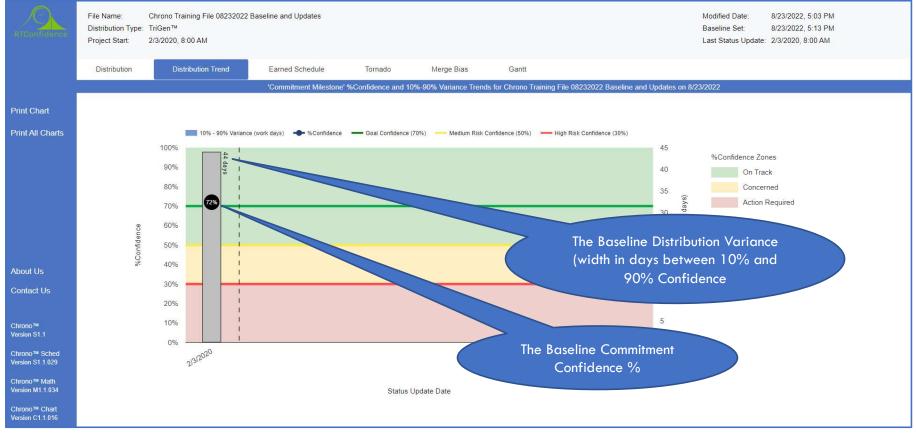
Result of Setting the Project Baseline



SRA Simulation Output Display



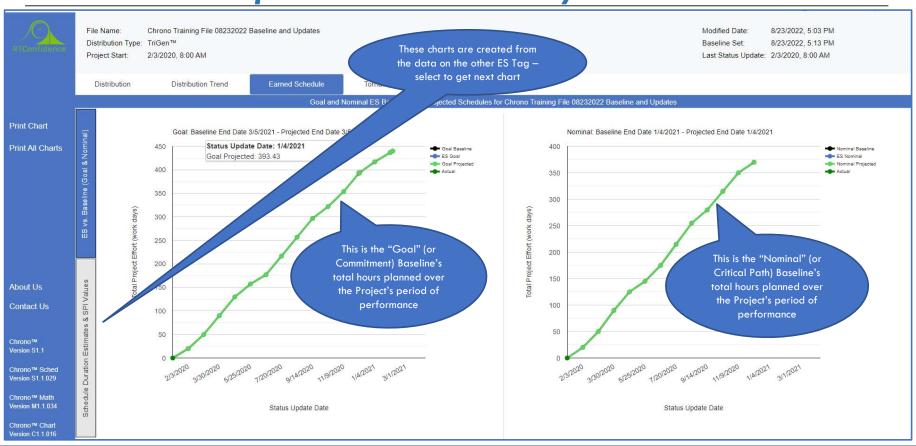




SRA Simulation Output Display



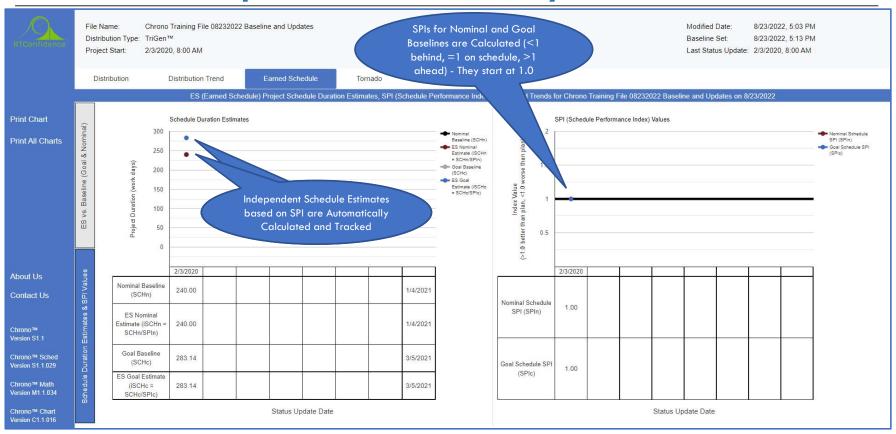
ES Metrics Set Up - will Automatically Calculate



SRA Simulation Output Display RTConfidence



ES Metrics Set Up - will Automatically Calculate



Project Progress Update #1

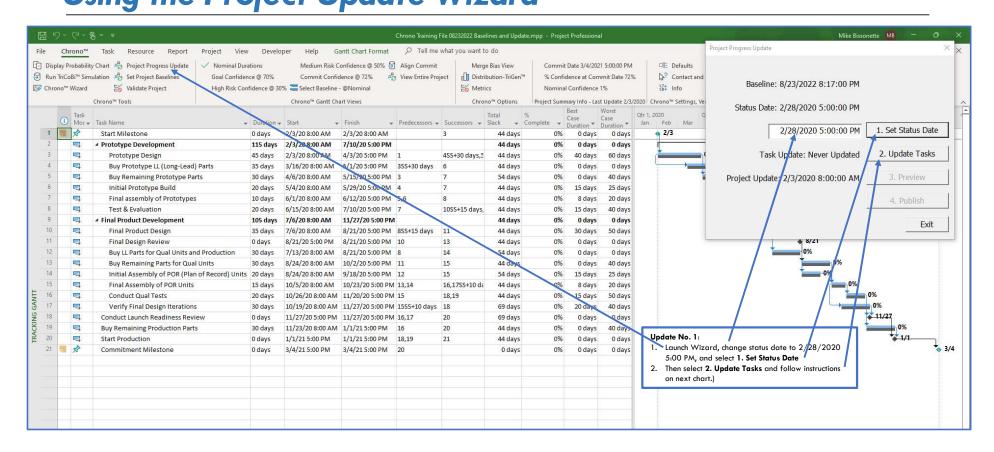


Scenario Explanation (reiterated on next charts)

- 1. Project was Baselined to Start on February 3, 2020 (a Monday)
- The Project Started as Planned
- The First of the Monthly Project Progress Updates represents progress made up to 5pm Friday (2/28/2020)
- 4. Task 3 (Prototype Design) was the only Task worked on during that period
- 5. The design was more difficult than originally estimated and its completion is now expected to be delayed by 1 week (5 work-days)
 - > Remaining Task (#3) Duration is now expected to be 30 more work-days
 - Must Change remaining work-days from 25 to 30, with BC=28 and WC=35
- 6. It is also determined by the Project Team that the "Buy Prototype LL (Long-Lead) Parts" Task (#4) will take and extra two more weeks (10 work-days) longer as well, due to Added Design Complexity
 - > This Task has not begun, but we can make the Change to the Duration
 - Increase Task 4 by 10 work-days (from 35 to 45), with BC=0 and WC=0

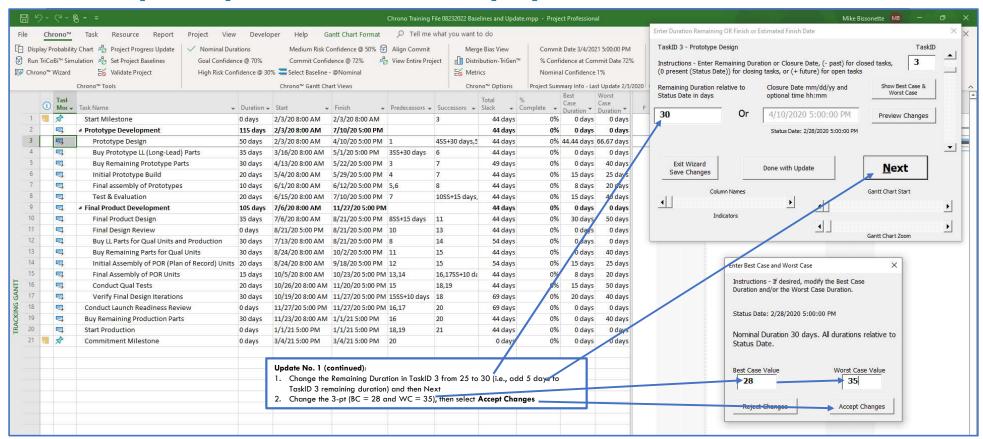
ChronoTM Project Progress Updating RTConfidence Using the Project Update Wizard





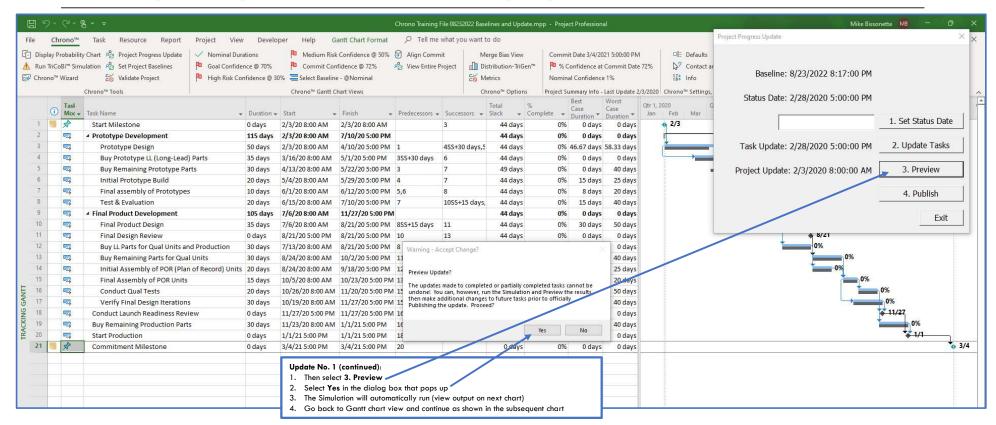
ChronoTM Project Progress Updating RTConfidence The Project Update Wizard Keeps you Honest



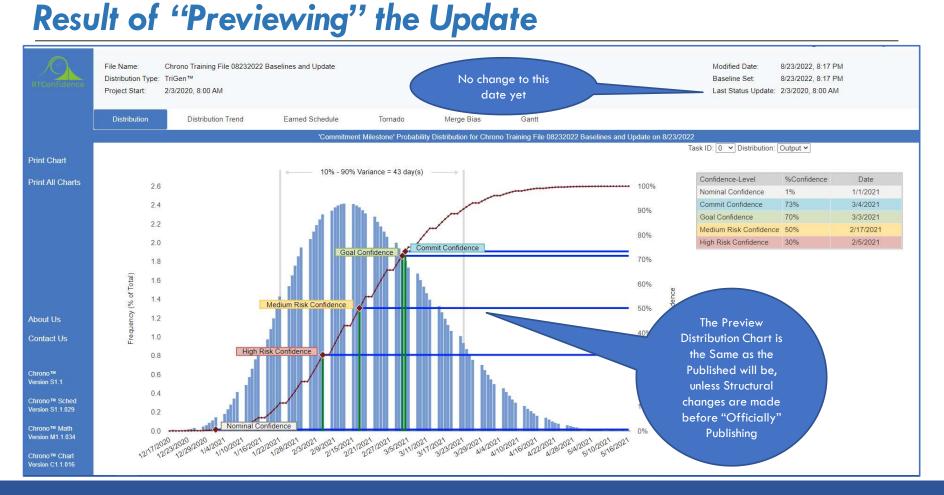


The Project Update Wizard Keeps you Honest



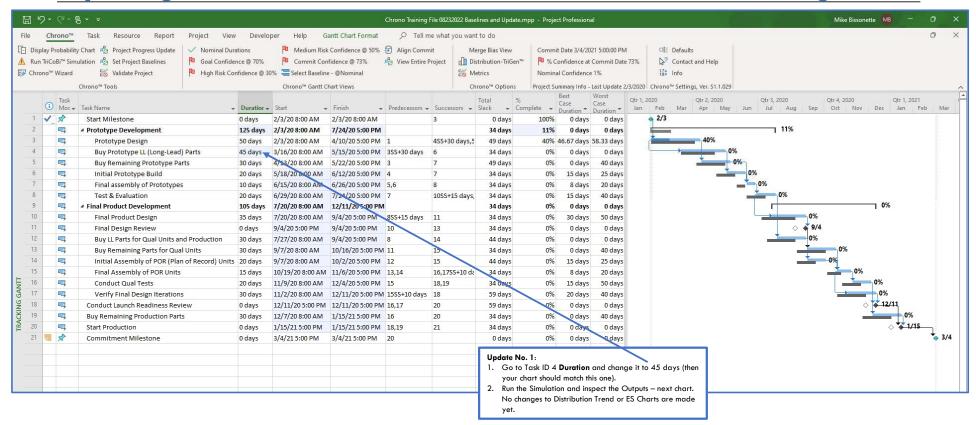


SRA Simulation Output — Update #1 RTConfidence





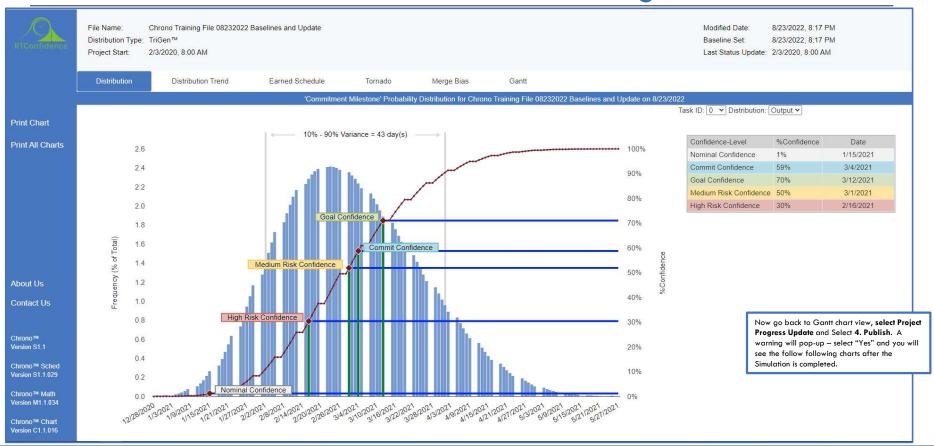
Adjusting Future Tasks after Preview, before Publishing



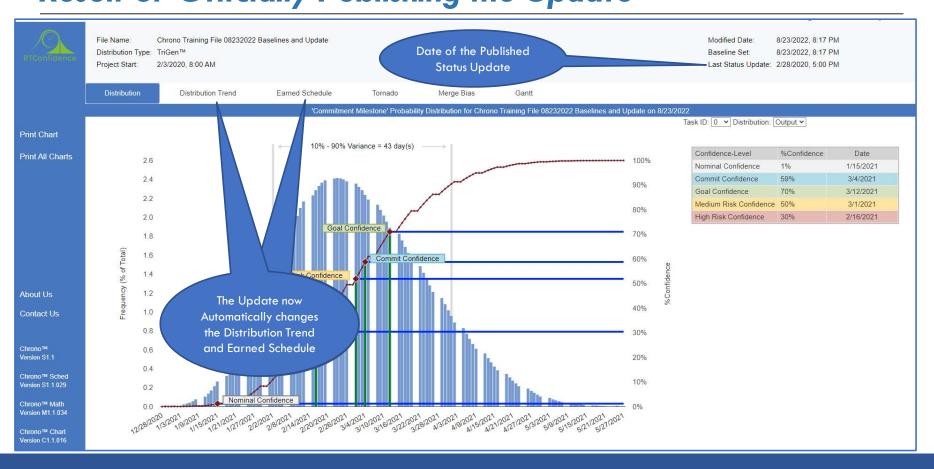
SRA Simulation Output — Update #1 ARTConfidence



Result of Second Preview — after last change



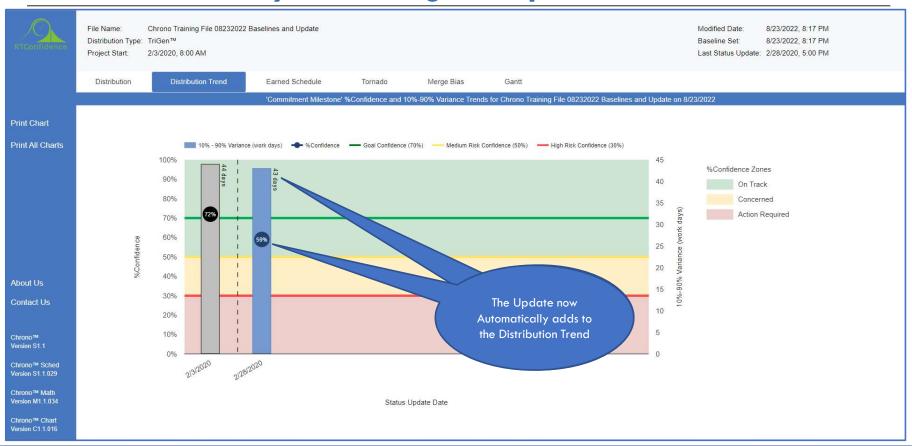
SRA Simulation Output — Update #1 Result of Officially Publishing the Update



SRA Simulation Output — Update #1 / RTConfidence



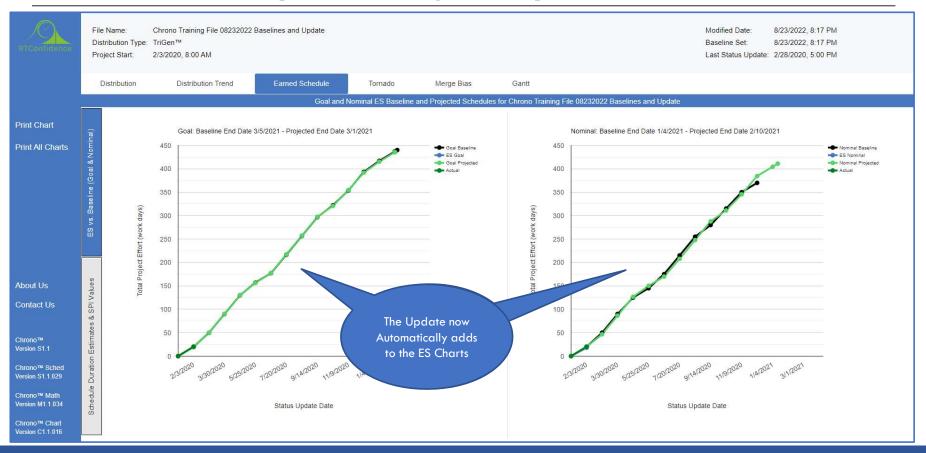
Result of Officially Publishing the Update



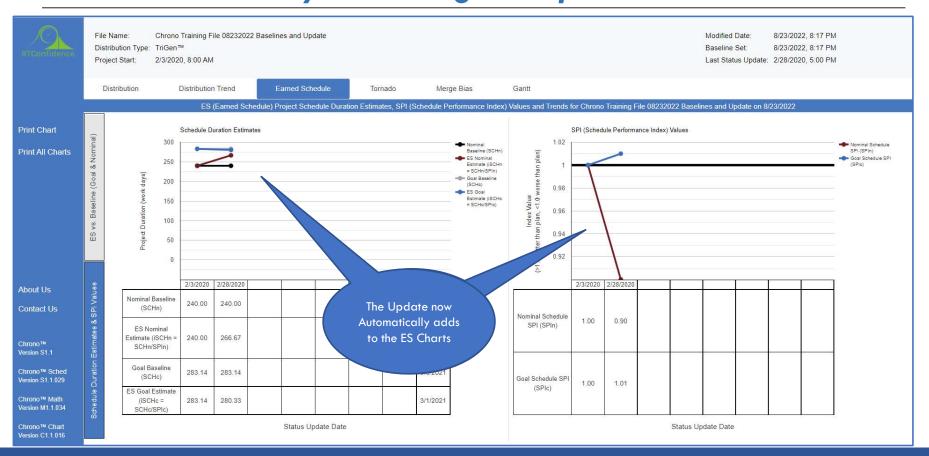
SRA Simulation Output — Update #1 / RTConfidence



Result of Officially Publishing the Update

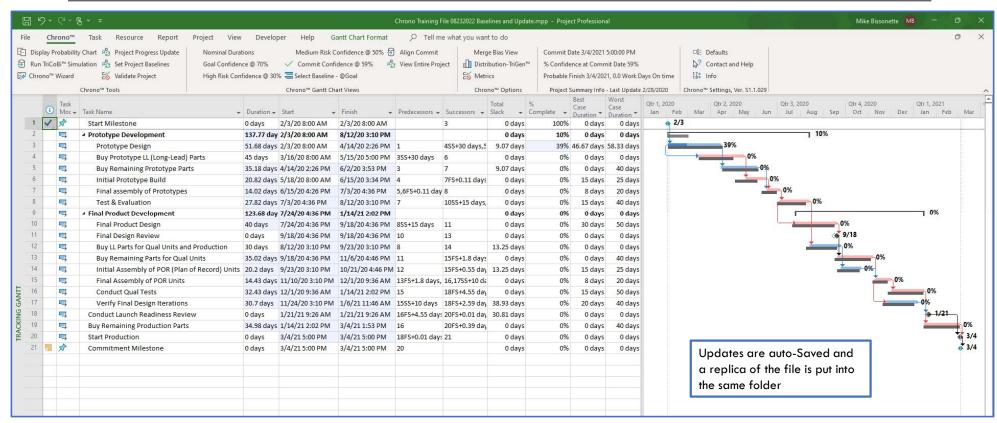


SRA Simulation Output — Update #1 Result of Officially Publishing the Update



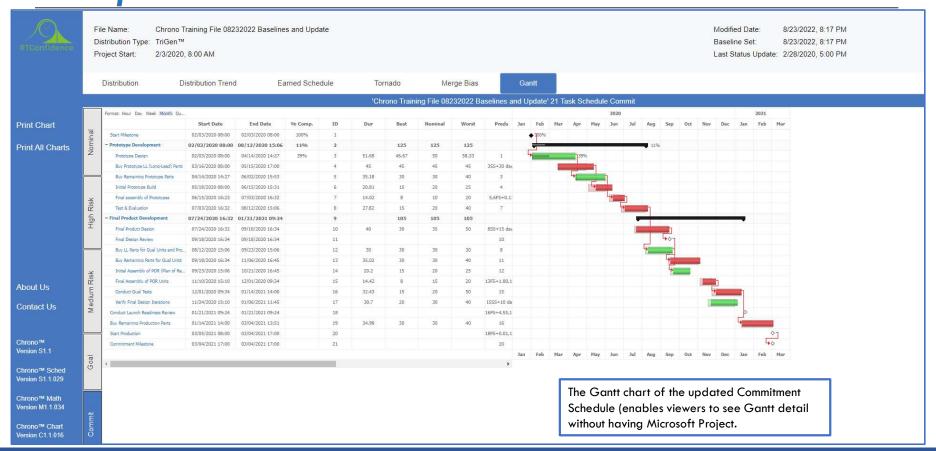
ChronoTM Project Progress Updating RTConfidence The Updated Commit Confidence Gantt View





Chrono™ Project Progress Updating ✓ RTConfidence The Updated Commit Confidence Gantt View





Our Books and Content Say it All! RTConfidence Please go to RTConfidence.com for More Info



