



Thank you to all Simio Sync24 presenters and attendees!

Our Annual User Conference was held March 6-7 and featured presentations from a wide range of industries and use cases



Did you join us for Simio Sync24: Annual User Conference? We hope that you did, and that you enjoyed the presented content as much as we did sharing it. If you missed out, or if you would like to see replays of any of the presentations, [register here to view the recordings](#).

If you didn't know, Simio Sync24 featured a **keynote presentation** titled "The Adaptive Enterprise," delivered by Carol Ptak and Chad Smith of the **Demand Driven Institute**, which detailed the challenges that so many organizations are facing in the VUCA (volatile, uncertain, complex & ambiguous) world in which we live and work, and how a Demand Driven Adaptive Enterprise serves to help organizations adapt and change to the world around them.

Other presentations included:

- **Northrop Grumman Corporation, “In a Model Far, Far Away”**: A detailed look at how Simio users at NGC utilize a long-term planning model to address questions that a short-term model is not designed to address.
- **Penske Truck Leasing, “Operations Capacity Model to Support Company Growth”**: A deep-dive into how one of the industry’s largest transportation service providers meets the future need of its growing fleets, using Simio to provide key data for leadership to make better-informed decisions regarding volume and timing of capacity-related constraints.
- **McKinsey & Company, “Optimizing Production Processes with Simulation”**: An up-close view at a project using Simio to address the challenges facing an automotive manufacturing client; not only did simulation generate immediate value in enabling the client to evaluate ‘what-if’ scenarios, but also improved the client’s throughput by building an end-to-end pipeline for automated production scheduling optimization.
- **Low Code Operational Intelligence, “The Data Mesh: a New Mentality for Enterprise Data”**: An introduction into an emerging organizational approach that enables more efficient access and sustainment of the ever-increasing amount of data that every organization has access to. Learn more about why a Data Mesh can be incredibly valuable, how enterprises can shift toward this approach, and how to understand and mitigate its downsides and risks.

Additionally, the Simio team provided insight on new features ahead of the Simio 17 release, a session introducing the Simio Intelligent Adaptive Process Digital Twin and how it can benefit your organization, as well as sessions on deploying a Simio Digital Twin and modeling fundamentals (more information on these below.) [Click the here to watch the replay!](#)

If you attended Simio Sync24, we invite you to provide feedback on the conference itself and your experience. The purpose behind Simio Sync is to share compelling, exciting content with our attendees and users in order to demonstrate how simulation drives business forward – your feedback ensures that we are able to do so. Help us to make future Simio Syncs even better by taking our [short survey here](#).

[Watch Replay Now](#)

Simio Sync24: Getting started with Simio?

We can show you how!

We’ve heard your feedback – many of you have said that you would like more Simio content for new users, or for ways to get started, so we featured two sessions during Simio Sync24 designed for new users and users who might not have begun their simulation journey yet.

- **“Innovate & Scale: A Blueprint for Deploying a Simio Digital Twin,”** details insight that the Simio team has collected in our long history of simulation – to help with your journey to expand simulation models into Digital Twins capable of delivering value across your organization! [Watch the replay here.](#)
 - **“Fundamentals of Simio Modeling (Part II)”** is a follow-up to a Solution Series webinar where Jeff Smith, Simio’s VP of Training & Academic Programs, continues his in-depth masterclass for new Simio users. You can watch Part 1 ([Here](#)), and the replay of Part II ([Here](#)).
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The Simio Solution Series is Back!

Upcoming Webinars

Warehouse Modeling Techniques and Best Practices

Thursday, April 18th, 2024 at 11:00AM EST (4:00 UTC)

The surge towards leaner supply chains, and more agile distribution networks, have made warehouse and distribution center simulations more valuable than ever. This session will cover the latest cutting-edge Simio warehouse modeling techniques including inventory tracking in data, to scale efficiently for large systems, plus network and path planning features for deadlock avoidance and dynamic routing in automated picking environments.

[Register Now](#)

Counter Element New Feature & Other Elements: Timer, Monitor, etc.

Thursday, May 16th, 2024 at 11:00AM EST (4:00 UTC)

During today’s session, we will be looking at various Element Definitions available, some of their new features, and how these can be best implemented in your models to track desired indicators and other values throughout the model run.

[Register Now](#)

[Watch Previous Webinars](#)

Tips & Tricks from the Simio Team

Reference Pivot Grid for Building Expressions

Simio's "ArcGIS World Street Map" function allows users the capability to create Links between Points of Interest that represent feasible means of road transportation, as opposed to a default straight line that would be created otherwise.

Suppose you wanted to build a model that involved traveling from Simio Headquarters to Pittsburgh International Airport.

Using the "ArcGIS World Street Map" function under Map View, you can incorporate a physical map onto your model to give it a more accurate physical representation.

-Contribution from Drew Rose, Simio Solutions Engineer

The screenshot displays the Simio software interface. On the left, a Pivot Grid is visible with the following data:

Object	Obj...	Data Source	Categ...	Data Item	Stati...	Average Total			
ModeEntity	DefaultEn...	[Population]	Content	NumberInSystem	Average	4.0825			
					Maximum	17.0000			
			FlowTime	TimeInSystem	Average (...)	0.0170			
					Maximum...	0.0571			
			Throughput	NumberCreated	Minimum...	0.0085			
				NumberDestroyed	Observat...	5,775.0000			
			Server	Server1	[Resource]	Capacity	ScheduledUtilization	Percent	79.7957
							UnitsAllocated	Total	5,777.0000
			UnitsScheduled	Average	1.0000				
				Maximum	1.0000				
UnitsUtilized	Average	0.7980							
	Maximum	1.0000							
ResourceSt...	TimeProcessing	Average (...)	Occurren...	1,202.0000					
			Percent	79.7957					
			Total (Ho...	19,1510					
			TimeStarved	Average (...)	0.0040				
				Occurren...	1,202.0000				
				Percent	20.2043				
InputBuffer	Content	NumberInStation	Average	1.6371					
			Maximum	14.0000					
	HoldingTime	TimeInStation	Average (...)	0.0068					

On the right, the Model View shows a process flow diagram with a Source, Server, and Sink. A status label for 'server1.Capacity.ScheduledUtilization' is visible, showing a value of 79.7957. The Properties panel on the far right shows the label's appearance settings: Back Color (170, 170, 170), Text Color (0, 0, 0), and Animation Expression.

The screenshot displays a simulation software interface with several key components:

- Top Bar:** Includes controls for 'Run', 'Fast-Forward', 'Reset', 'Breakpoint', 'Ending Type', 'Model Trace', 'Advanced Options', 'Real Time Clock', and 'Adjust Speed'.
- Results Panel (Left):** Shows a table with columns for Object, Object ID, Data Source, Category, Data Item, and Average Total. A red warning banner at the top states: "No holding time changes for a flow object will be generated. This may indicate the model is in a steady state." The table lists various objects like 'Server', 'InputBuffer', 'OutputBuffer', 'Processing', and 'Sink' with their respective metrics.
- Libraries Panel (Middle):** A list of rules and properties such as 'Capacity', 'ContentRankingRule', 'Cost', 'EntryDynamicSelectionRule', 'EntryQueue', 'EntryRankingRule', 'HoldingCostRate', 'InitialCapacity', 'Name', 'NumberEntered', 'NumberEntered', 'NumberEntered', and 'NumberEnteredOut'.
- Flow Diagram (Right):** A visual representation of the simulation process with nodes and connecting lines. A tooltip for 'Property ParentCostCreator' explains: "The parent cost center that costs charged, or accrued, to entities located in this station are rolled up into. If a parent cost center is not explicitly specified, then costs will be automatically rolled up into the parent object containing the station."



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