We reduce inventory by up to 20%

At the same service level.

Our simulation engine sets the stock target of each product at each site. It tests each policy on your own demand and forecasts before you change a single target.

For manufacturers, distributors and retailers.
Founded in 2016 by Nicolas Vandeput, author of three books on forecasting and inventory.

How the engine sets each stock target · illustration

	① Target	② Stock coverage, in weeks of forecast					
		1 week	2 weeks	3 weeks	4 weeks	6 weeks	8 weeks
Product A	**97%**	82%	90%	94%	**97%**	98%	99%
Product B	**95%**	88%	**96%**	98%	99%	99%	99%
Product C	**90%**	74%	85%	**91%**	94%	97%	98%
Product D	**99%**	86%	93%	96%	98%	**99%**	99%
Product E	**93%**	85%	92%	**96%**	98%	99%	99%
Product F ③	**98%**	44%	53%	59%	62%	64%	**65%**

① Your leadership sets the service-level targets.

② The engine simulates each coverage and keeps the first one that reaches the target.

③ Your planners review the exceptions, like product F.

Less inventory, proven on your own history before you commit

What we do	We set up our simulation engine to optimize the stock targets of your whole product portfolio, at each site, and we support your planners.
What changes	Inventory drops by up to 20% at the same service level. The targets account for your lead times, order sizes and late suppliers.
How we start	With a proof of value on your own history, in 2 to 3 months.
What comes next	A new stock target for each product and site, every month, as a flat file for your planning software or ERP. Or a licence of the model.
Who we are	A team based in Brussels, Belgium, that works only on demand and inventory planning.
Next step	Tell us about your products and data at **supchains.com/lets-talk**.

We don't trust equations anymore. Instead, we simulate.

$$SS = z \cdot \sigma \cdot \sqrt{L + R}$$

The textbook safety-stock formula. z sets the service level, σ is the demand variability, and L + R the risk-horizon: lead time plus review period.

Most software vendors and consultants use the classical safety-stock formula. It rests on assumptions that real supply chains break: every period behaves the same, forecast errors and demand variability are the same, and errors follow a normal curve.

Your supply chain has seasons, promotions, minimum order quantities and late suppliers. A simulation on your own history includes all of them.

Read "Outgrowing the Safety Stock Formula"

Your leaders set the service level. The engine optimizes inventory.

Over the years, we developed our own way of doing inventory planning. We call it the **SupChains Way**.

Your leadership sets the service level of each product group.

Set service levels by strategy, cost and risk, not by ABC class.

→

Your planners rate the reliability of each supplier.

The simulation then accounts for late deliveries.

→

The engine tests several policies for each product and site.

It keeps the policy that reaches the target with the least stock.

→

Planners review the exceptions.

They get the targets, ready to enter in your planning software, with the orders to cancel or to expedite.

What the simulation includes

- ✓ Your demand history, and your forecasts with their errors
- ✓ The lead time of each supplier, late deliveries included
- ✓ Minimum order quantities and review periods
- ✓ Production calendars, and product launches and phase-outs
- ✓ Your stock and open orders

Better forecasts mean less stock and higher service.

That is what our **simulations** found for 10% better forecasts.

−4% inventory or **−6%** shortages

Clients measured the gain

"Thanks to SupChains and RitterDragon, Marzam could implement a new demand and inventory planning process. In 19 weeks, we **improved inventory turns by 26% and reduced shortages by 65% while increasing our sales.**"



Hector Doporto
VP Supply Chain Planning, Marzam
Pharmaceutical distribution

"...a tailored inventory optimization model and a machine-learning-based forecasting model for Bridgestone Europe, which resulted in considerable improvements from our previous projects."



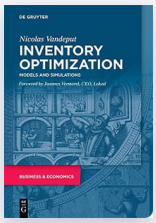
Jon San Andres
Director Center of Excellence Supply Chain Planning, Bridgestone
Automotive parts

"...pedagogically helped us understand the fundamentals of effective demand and inventory planning and simplified these processes."



Christine Sabata
Supply Chain Manager, Camurus
Pharmaceuticals

The method behind these results is public



The book

Inventory Optimization: Models and Simulations

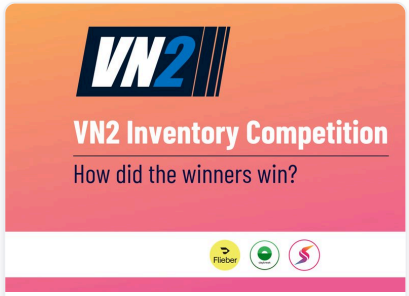
4.7 on Amazon, 116 ratings



The online course

Inventory Planning: How to Optimize Inventory Policies

On Udemy



The competition

VN2, the first inventory competition: the data, the simulator and the winners

Run by SupChains in 2025

Start with a proof of value on your own data

We build the engine for your products and sites, and test each policy on your past demand and forecasts.

2–3 months

To collect and clean your data with your team, set up the engine and test it on your history.

Workshops

On site or online. We agree the scope and the service-level targets, and review how your suppliers deliver.

Data

We collect and clean your demand and forecast history, lead times, minimum order quantities and review periods. A data quality report lists each gap.

Simulation

For each product and site, the engine tests several policies on your past demand and forecasts, with your supply constraints.

Readout

You get the stock target of each product and site, as a file for your planning software, with the stock and service each policy reached.

What we need	Your demand and forecast history, the lead times of your suppliers and how reliable each one is. The engine also uses minimum order quantities, review periods and production calendars.
What you get	Optimized inventory policies that reach your service-level targets with the least stock.
What sets the price	The number of warehouses and products, the complexity of your data, and the days we spend on site.
What comes next	A monthly service with support for your planners, or a licence.

Start a proof of value

supchains.com/lets-talk

A monthly service: we run the engine, you get the targets

After the proof of value, we run the engine for you. Your planners keep their planning software or ERP.

You send the month's data

Demand, forecasts, stock and open orders, in formatted input files. Your planners update the reliability rating of each supplier.

Data validation

We check each file before any simulation, and share a data quality report.

New stock targets

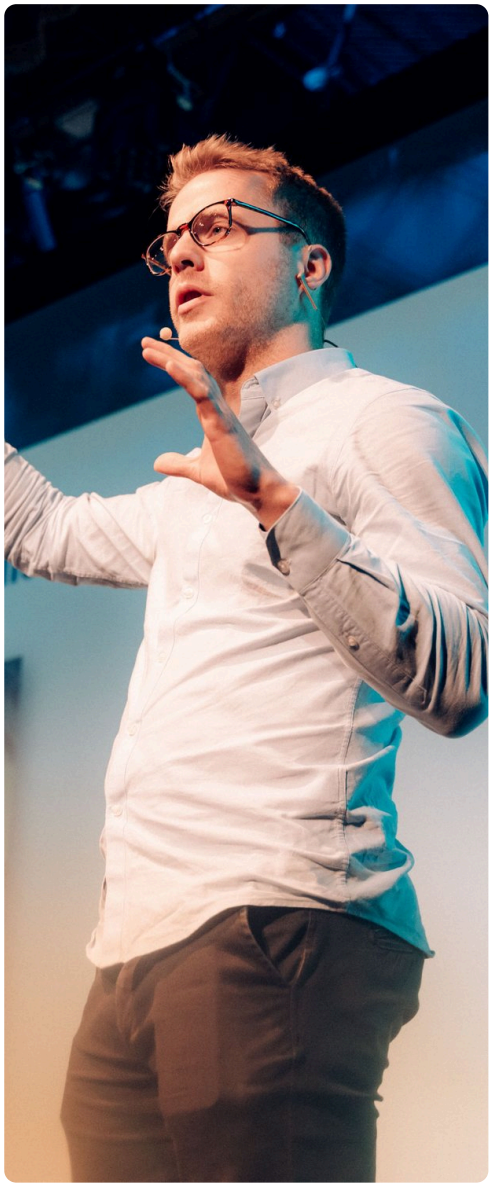
The engine tests several policies for each product and site, and keeps the one that reaches the service level with the least stock. The targets arrive as a flat file for your planning software or ERP.

Planners review the exceptions

Products that cannot reach their target, orders to cancel or to expedite, and the stock to expect in the months ahead.

We review the month together

A monthly meeting goes through the exceptions and the data quality report. We maintain and upgrade the model when your business changes.



Forecasts included

The engine needs historical and future forecasts for each product. Our monthly service includes the demand forecasts of our forecasting engine.

See our forecasting service

Questions clients ask us

Our data is not perfect.
We start from the data you have and clean it with you. Then we simulate each policy on it before you change a single target.

Our suppliers are often late.
The simulation includes the reliability of each supplier, its lead times and its minimum order quantities.

Do we need a new platform?
The stock targets arrive as a file. You load it into your current planning software or ERP.

We already pay for planning software.
Great. It keeps running your orders, now with better targets from us.

Who decides the service level?
Your leadership does, for each product group. The engine optimizes your inventory to reach each target with the least stock.

Want to see what this would save on your own data?

Tell us about your products, your data and your planning goals. We reply with a first read on what our engine could save.

Start a proof of value

supchains.com/lets-talk

zooplus · sanofi · P&G · NIVEA · Pernod Ricard · KitchenAid · MAERSK · BD · GOODYEAR
Danfoss · BRIDGESTONE · BIC · Qnity · Vantage · Animalcare GROUP · MANE · SCAPPINO · Duvel