



The Supply Chain Simulator

Easing Supply Chain Decision-making at the Tactical & Strategic Levels

Problem Statement:

Businesses rely on resources day-in and day-out. Be it the people, raw materials or other critical resources, efficient utilisation is the key to ensuring agility and achieving higher business success. Resource Planning, therefore, becomes crucial for businesses to plan, schedule and allocate resources across various business operations while improving productivity and operational efficiency.

However, in a complex business ecosystem, with Supply Chain at the heart, there are high levels of interdependencies among people, processes and physical equipment. There can be multiple scenarios of aligning resources. However, to attain the highest level of utilisation and efficiency, it becomes imperative to have control **over analysing multiple scenarios (What-if simulations)**.

Supply Chain Simulator

A Pre-emptive Approach to Resource Planning

The VERDIS Simulator is used to create Supply chain scenarios for resource (manpower+assets) utilisation at various business-level operations, allowing businesses to **plan, schedule and prioritise** business operations along with the resources involved. The VERDIS Simulation Engine functions across the Supply, Demand and entirety of the Supply chain ecosystem, helping key decision-makers align to maximise the overall process efficiency and the utilisation of resources.

Supply, Demand and The Ecosystem

The Supply Chain ecosystem is driven by intricate relationships among people, processes and raw materials. Planning and scheduling resources is an everyday hustle. The impact of even the slightest of changes to the allocation of resources plans can have cascade effects up or down the entire supply chain.

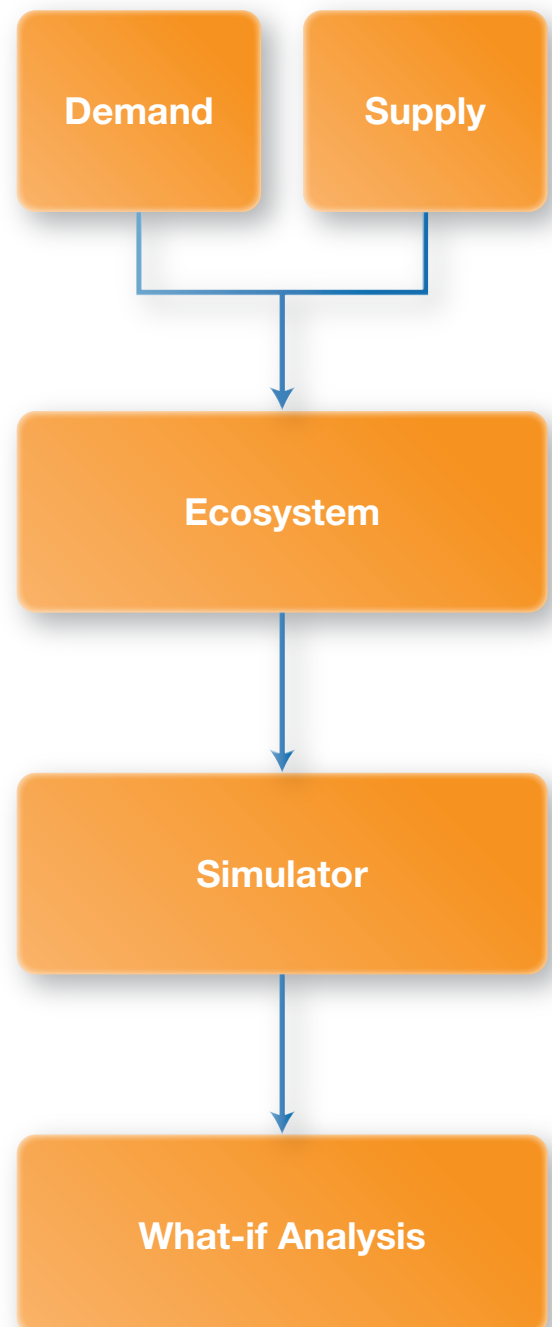
The VERDIS Simulator maps the Supply and Demand of resources at the processes/value chain level that are/will be required in managing all business operational tasks along with their life cycle, the cost involved and the associated client and location. The granularity of the mapping of resources can vary depending on the business objectives.

Simulator

Simulating multiple scenarios is pivotal to laying out tactical and strategic plans that can be previewed, updated and also re-configured to create a new scenario as well as preparing businesses to adjust and allocate resources efficiently and profitably in response to disruptions (or other sudden changes).

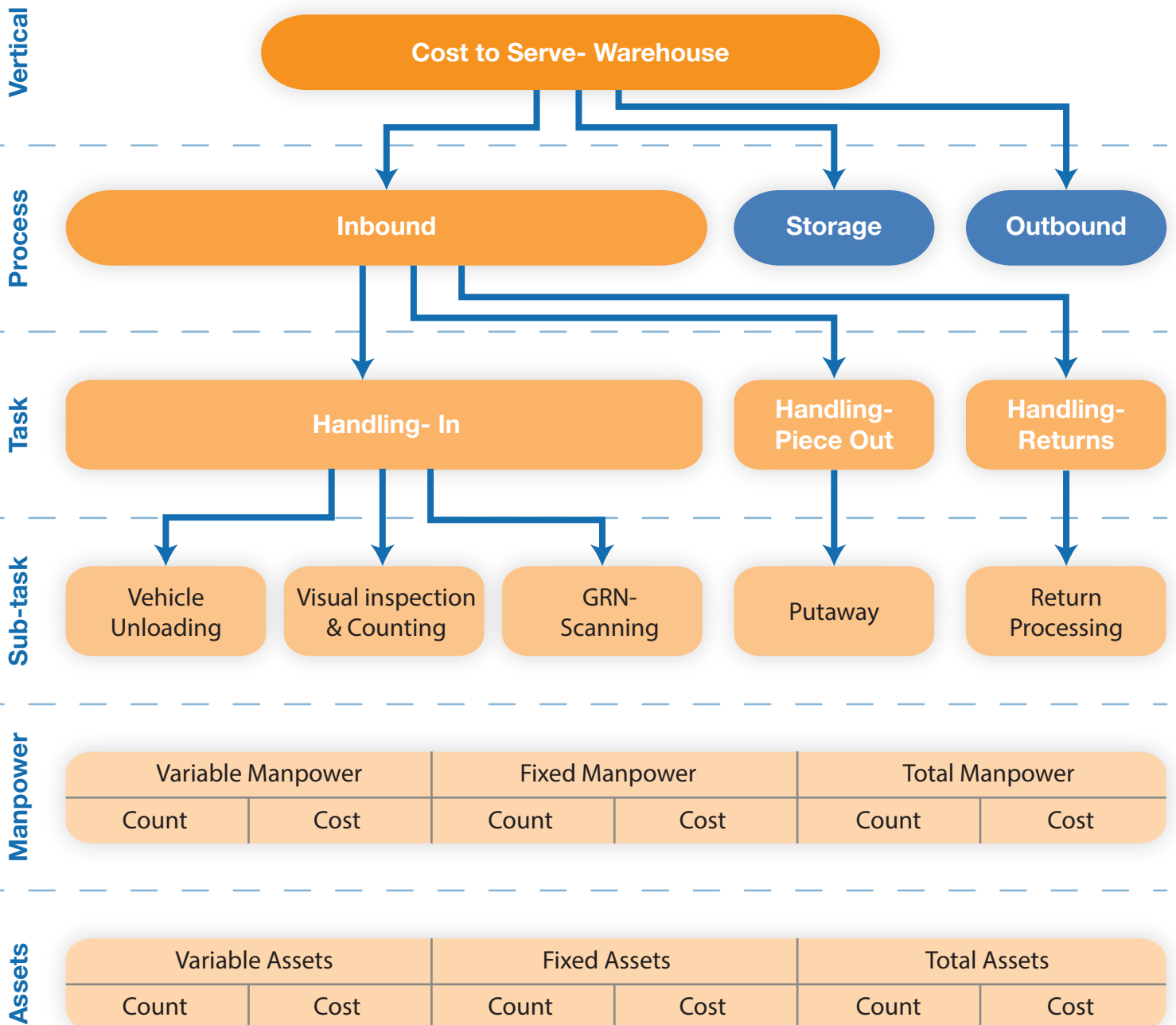
What-if Analysis

The Analysis section allows the user to analyse and compare the results of different simulated plans. Decision-makers can further analyse the impact of changes and take tactical and strategic calls based on the insights gathered.



Cost to Serve Simulator

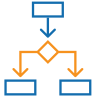
One of our 3PL clients leverages the VERDIS Cost to Serve Simulator, to monitor the 'pricing' of resources. Manually managing and allocating resources was driving a loss of sales opportunities as they were unable to simulate and anticipate the impact of their client's increasing capacity demands. The Cost to Serve Simulator mapped the cost of each resource being utilised within the warehouse, enabling the 3PL player to generate parameter based quotations for warehouse resource usage (cost of assets used + cost of manpower used) and contracting to enhance stickiness with pricing based on the supply-demand of resources.



Value Creation:



Key decision-makers can test and run multiple 'What-If' analyses to visualise and measure the impacts on resources



Adapt and prepare for alternative scenarios to manage resource uncertainties



Better manage resource interdependencies and maximise utilisation efficiency

Why do you need the **VERDIS Simulator**?

Because the best businesses plan for uncertainties beforehand. They focus on efficiency at the planning stage itself. They plan for any future!

Are you confident when times get uncertain?

Create scenarios, run simulations, and analyse before you execute them in the real world to make informed decisions with the VERDIS Simulator.

Start running your simulations now.



Request for a Demo