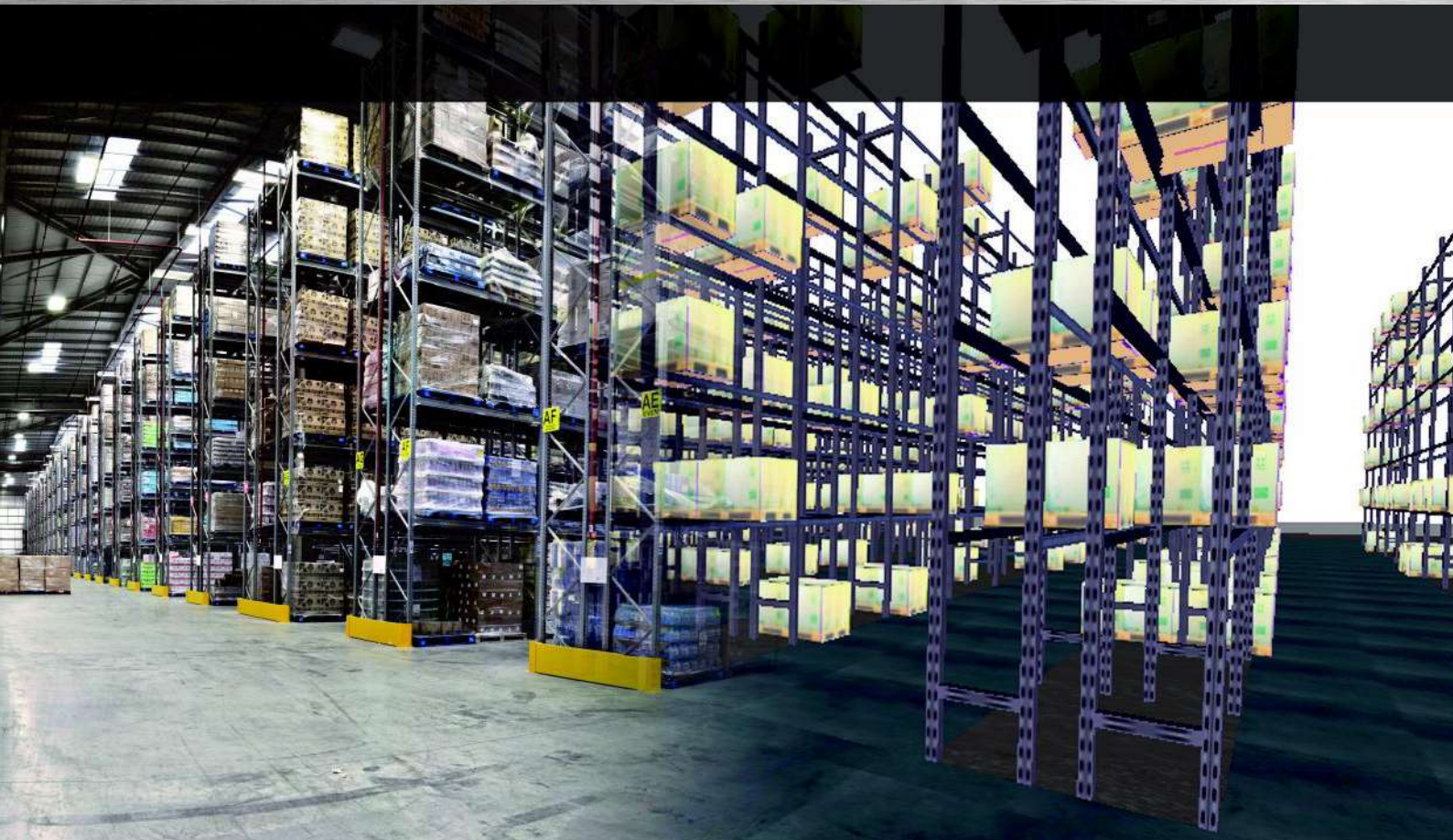


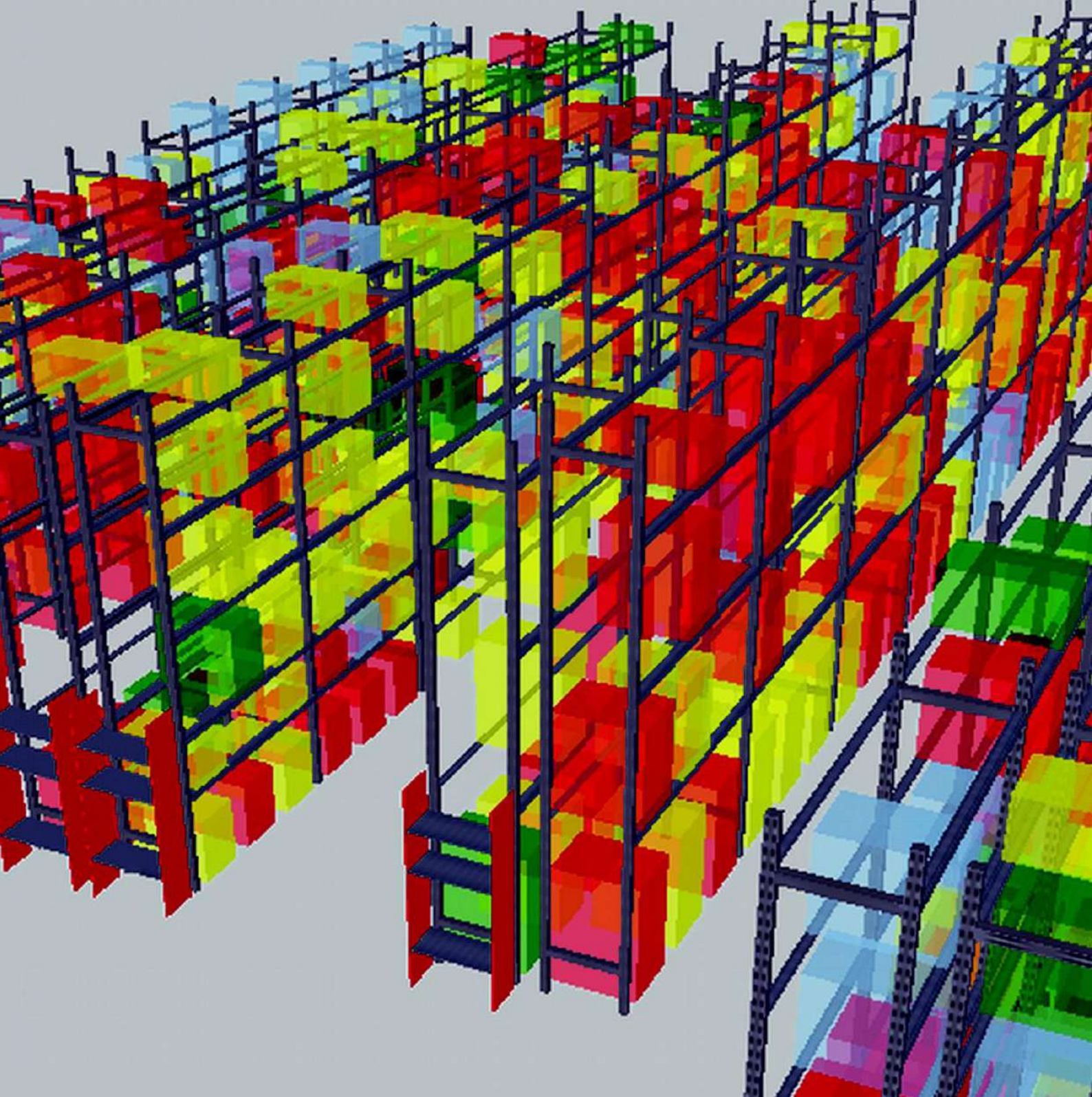
A Member of the Constructor Group



C-WIS Warehouse Intelligence System

Optimising warehouse efficiency





Warehouse Analysis

Visualise, plan, implement

Is an inflexible warehouse consuming your profits?

Warehouses are the hub of any supply chain and as the way we sell evolves there is a greater need to develop the range of products we stock. The distribution challenge becomes ever more complex with the expansion of sales channels and the increasing demand for next day delivery. In comparison, warehouse planning has hardly changed - until now.

The missing link

C-WIS is a simple to use, but powerful tool, which pulls together all the critical management data, carries out complex analysis and then presents tangible bespoke solutions to the user. It will optimise your operation and can offer significant financial benefits. C-WIS considers many areas including capital expenditure, cash-flow, warehouse layout, supplier details, stock vs. supply & demand profile, employee performance, productivity, customer satisfaction and - most importantly for the board – profitability, which until now has been vitally missing.

What is C-WIS?

C-WIS is a software platform that works with any existing WMS or ERP system, acting as a 'cockpit' for the warehouse to help drive down costs, optimise processes and save time. Using your WMS or ERP data, combined with additional business information, the software carries out various complex calculations which includes a multiple ABC analysis. This process produces robust results which can then be acted on.

C-WIS is the market's first and only warehouse intelligence system capable of using these vital metrics to categorise stock items in this way and improve efficiency.

The suggested improvements can be as simple as amending stock locations or changing your buying patterns, which if done correctly can have significant benefits.

Why invest in C-WIS?

Warehouse management or ERP systems were not created to promote efficiency levels, therefore, optimisation is not part of their design and cannot be achieved without additional analysis. C-WIS is suitable for most medium to large sized operations, simple to use and can remove the need for costly analytical resource.

Hundreds of businesses in Europe already use the C-WIS 3D-simulation tool to help optimise their warehouse operations, with demonstrable results.

Return on investment

C-WIS can save time, money and improve service levels on a continuous basis. The return on investment for a C-WIS project and software system is typically delivered in less than a year. Maximum performance is obtainable with minimal operational costs.

It can result in a fully optimised, lean and efficient material holding, handling and distribution process. Delivering business performance and typical operational cost savings of **15% to 25%**.

Business Intelligence can now be delivered with the minimum amount of effort.

"C-WIS provides the information needed to make decisions based on fact rather than supposition. "



'The Ideal Warehouse'

An ideal warehouse at any given time holds only the stock necessary to provide an optimum cash flow to service ratio. High turnover stock items are held in easy to access locations and the most efficient picking routes mapped. Unfortunately the real world usually falls short of this ideal.

Some products have a relatively simple lifecycle, for others it can be dynamic, where demand perhaps is seasonal or as changeable as the weather. This changeability makes it vital for the warehouse and purchasing teams to have a realistic view of stock levels, location-by-location and item-by-item. This can easily be done using the multiple ABC analysis and simulation capabilities of C-WIS, where each item and location is identified in the system. It considers the large variety of product and business parameters and the output is visually colour coded in the 3D simulation tool for the user to easily understand the current position.



Optimisation

Moving with the times

When a warehouse is first created the processes, layout and stock locations are determined by current or perceived activity. Over time a business evolves and efficiency levels are impacted because the parameters have changed. In today's market the success of a business is judged on service as much as the selling price, therefore, the efficiency of the warehouse plays a significant role in achieving this.

C-WIS can reduce the cost per order line by:

- Defining ideal bin locations
- Reducing picking times
- Increasing fulfilment capability
- Improving despatch performance
- Reviewing changes to staff and equipment levels
- Considering warehouse layout based on real data



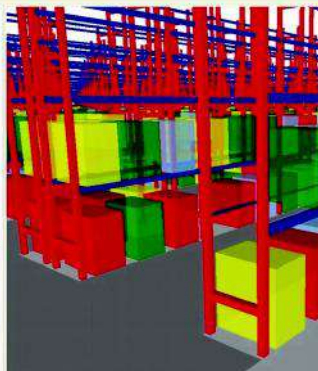
Rationalisation

Holding stock is a risky business

Stock reduces working capital, but it is necessary for some businesses. As such the profile and buying patterns of your stock holding is an important issue. Accurately calculating the profitability of storage vs. return on investment is complicated. Getting this wrong can not only cost money but significantly affect your service levels. C-WIS will calculate the impact of any supplier changes using the capital expenditure vs. customer service level ratio and enables the purchasing department to stay on top of the ever changing order requirements.

C-WIS can help you:

- Optimise warehouse stock
- Influence future purchasing strategies
- Highlight obsolete articles
- Eliminate over ordering
- Optimised service level for selected items
- Enables new stock lines to be considered





Monitoring

Maintaining the advantage

Once an optimum position is reached it is critical to understand when further improvement is needed. This ensures that the advantage of an efficient warehouse is maintained and evolves as the business demands change. Constantly monitoring your warehouse to maintain its stock optimisation is important. The C-WIS dashboard displays how close to optimum levels your warehouse is running at and allows you to track your specific KPI's. The dashboard makes it possible to quickly optimize the exact location of products, analyse stock holding, service levels, assess the impact of new working methods, review choice of truck types, picking routines, storage methods...

C-WIS creates a sustainable warehouse by:

- Reviewing optimal stock profile
- Warning of changes in product behaviour
- Test impact of changes prior to investment
- Continuous monitoring of KPI's
- Visualising cash flow vs stock holding
- Identifying bottlenecks



Planning

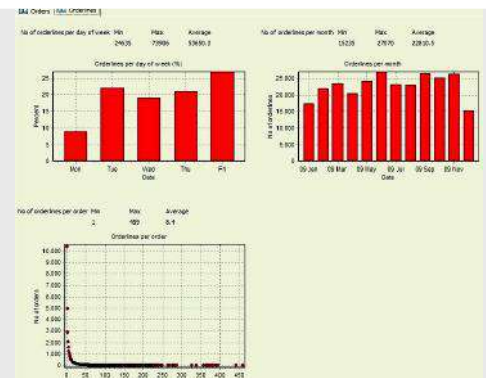
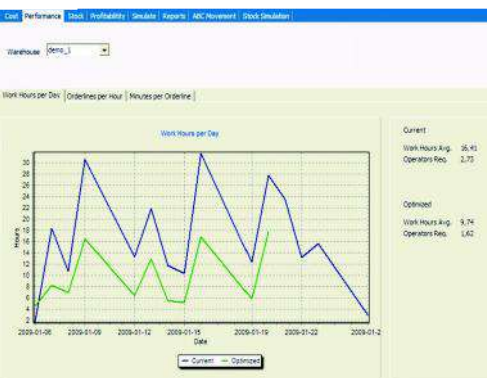
Future proof your business

Continuous improvement is necessary as your business evolves. However, the risk associated with implementing change can be daunting. Decisions regarding investment or fundamental changes to your processes can become drawn out whilst the pitfalls are explored. Buy-in from investors or your team can be problematic and the ability to 'prove' the need for change sometimes impossible. Perhaps creating a new warehouse is an issue, which is an expensive process and costly if mistakes are made.

C-WIS enables the user to change the variables of your operation in a test environment and observe the impact in a 3D simulation. A number of scenarios can be easily trialled and the visual changes this would make to your performance observed. It can assist with a change management process so staff can see what the future will look like before it happens. The influence on your financial performance can be assessed and the output used to support your request for investment.

C- WIS helps you:

- Explore changes in a virtual environment
- Determine financial impact of a future change
- Assist with capex justification
- Protect business from costly mistakes
- Create a new warehouse
- Assist with staff buy in during change



How to achieve 'The Ideal Warehouse'

If the concept of having 'The Ideal Warehouse' appeals to you, with a rationalised stock profile located in optimum positions and the ability to predict the outcome of potential change with ongoing robust monitoring capabilities, then you have a requirement for C-WIS.

Analysis

Working with your team our experts in business and logistics conduct a thorough review of your data and warehouse processes so they fully understand the intricacies of your operation.

A bespoke 3D-simulation is created for your warehouse and all relevant business data is evaluated by the C-WIS multiple ABC analysis tool.

It allows stock and operational processes of the warehouse to be observed. During this phase a detailed overview of your current stock profile and their locations is generated, plus a 3D-simulation of your warehouse using real data.



Optimisation



Rationalisation



Monitoring



Planning

Results

Following detailed analysis, recommendations are made at article level on buying patterns, stock levels and physical location in the warehouse.

Profit generated by product range or item can be considered and unprofitable product lines or suppliers identified. There is a potential to improve overall product handling by up to 25%.

Stock vs service levels can be reviewed and various resource areas can be assessed to determine their effectiveness.

Operational issues highlighted i.e. potential bottlenecks and alternatives trialled in the virtual environment. A bespoke monitoring dashboard is created to reflect the key drivers for your business.

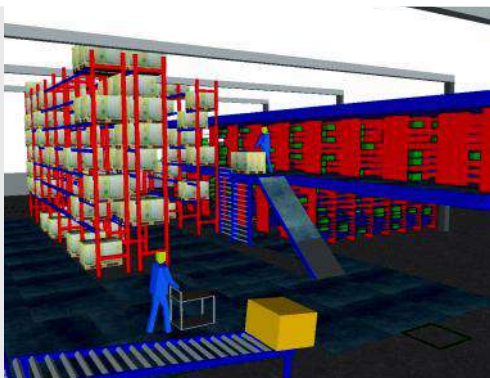
Support

C-WIS is a simple to install software system that requires no costly upgrade or additional hardware investment.

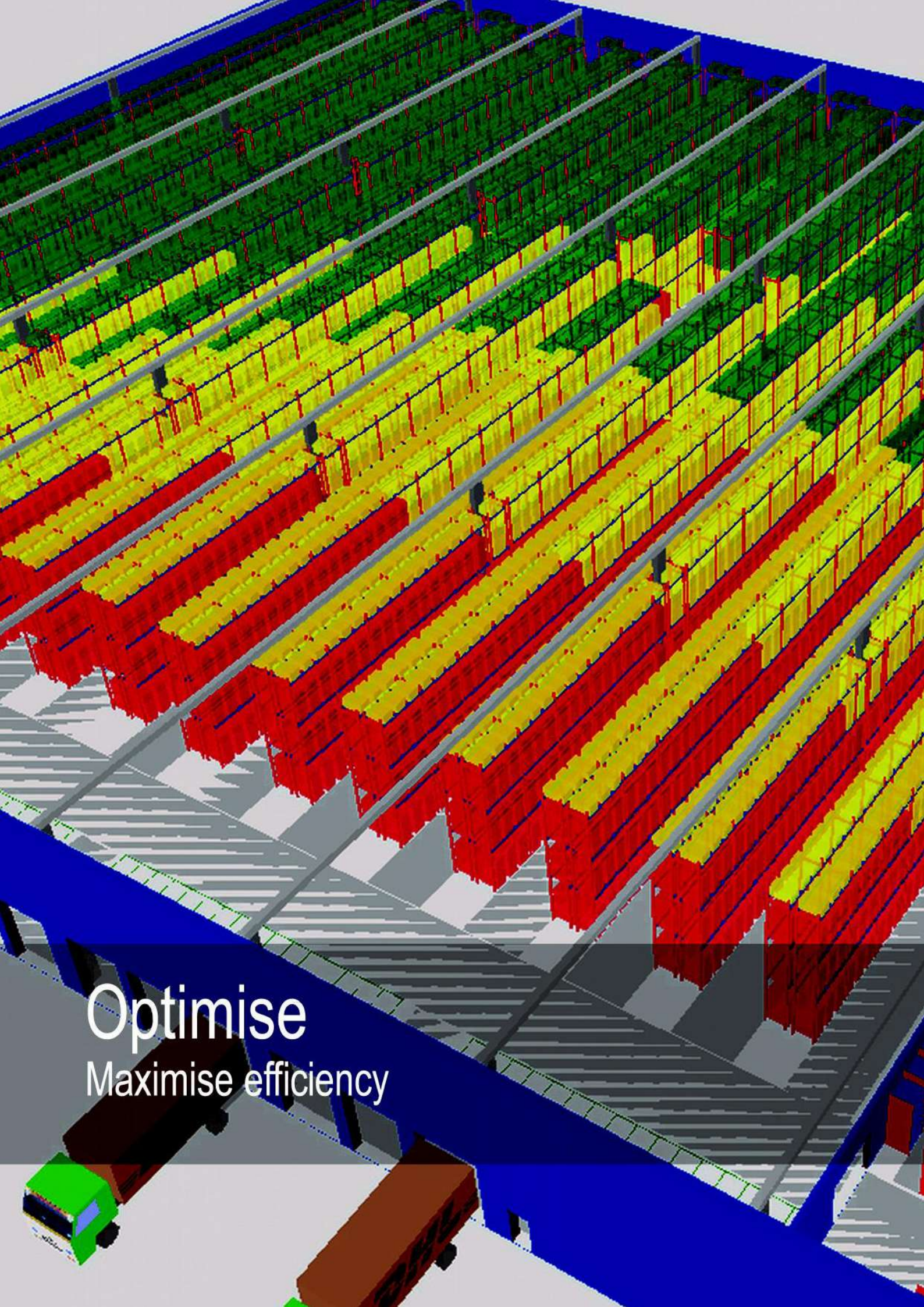
During the consultation and implementation phases your key staff will be trained on the functionality of C-WIS tools and the simplicity of operation. Alternatively should you require our team to assist with this on a more long term basis this can be provided.

As part of the licence agreement you will automatically receive any software upgrades and once installed there is no requirement for multiple user licences just an annual license for each site.

"C-WIS future proofs your business"
Brian Hjorth, Constructor Logistics



For more information, examples and video demonstrations please visit the website
www.constructor-logistics.co.uk



Optimise
Maximise efficiency



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