

# moNitrav

Dynamic Location and Direction Scheduler

**Always on the fast track, always on time, always there.**

moNitrav™ is a scalable traffic management system for material handling applications. Comprising dynamic task scheduling, route generation and real time data analysis, moNitrav™ manages the movement of autonomous vehicles around the work environment to ensure optimal process throughput and effective use of resources.

**Harnessing the power of Industry 4.0, moNitrav™ provides:**

- Real time adaptation to changing demands and throughput requirements
- On demand task injection and prioritisation
- On route task cancellation/re-routing
- Easy interface to warehouse management, production management and a range of specialist materials handling systems (e.g. baggage handling)

**Scalable, cost effective traffic management for the simplest single vehicle to large multi-vehicle fleets.**

### Implement right first-time solutions and rapidly achieve ROI.

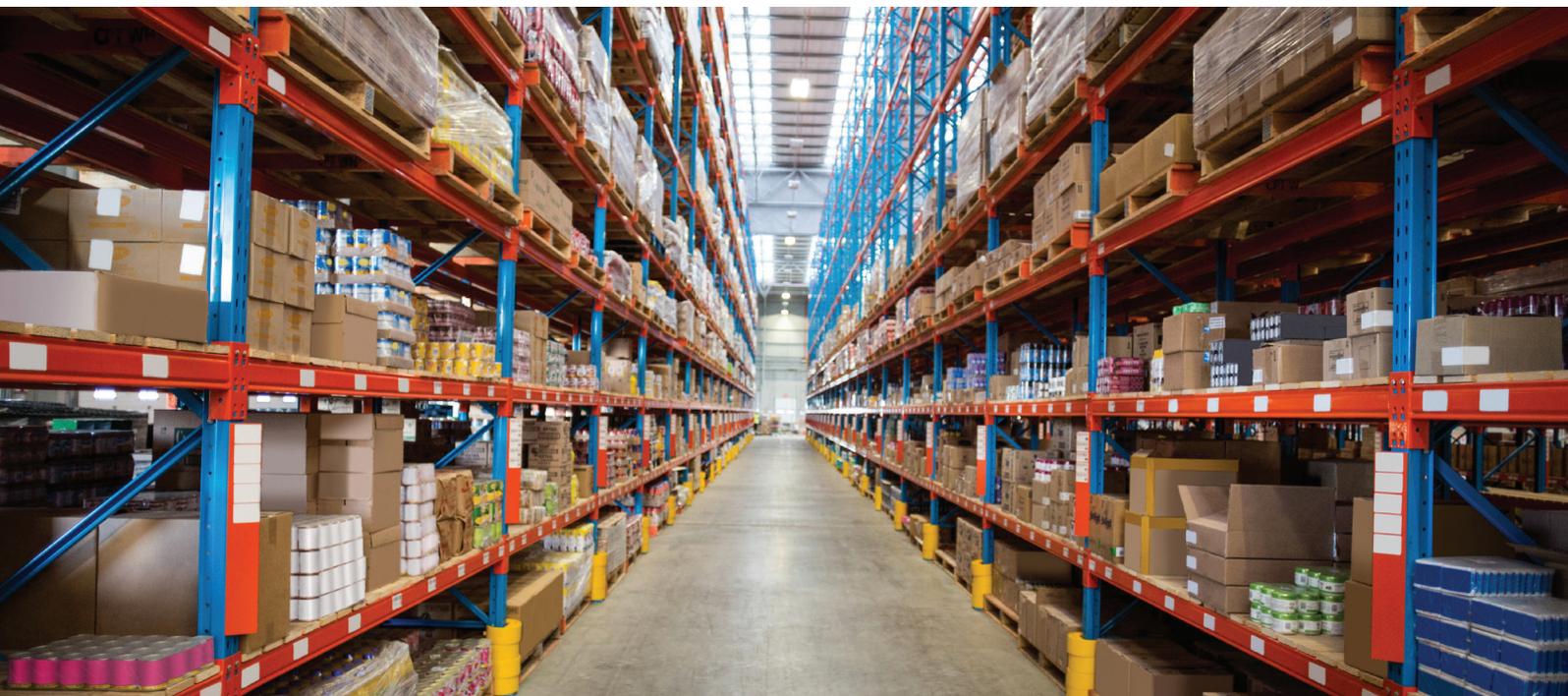
PC simulation mode enables users to determine the optimal autonomous transport strategy and number of vehicles required to achieve desired throughputs before commitment to major investment.

### Optimize throughput and react to changing demands and busy period congestion:

- **moNitrav™ analytics:** Re-running the same routes regardless of operational demands and traffic situations results in inefficiencies, unnecessary queues, lost time and revenue and less than optimal use of resources. SMART analytics monitor conditions in real time for continuous and dynamic fleet schedule and routing optimisation
- **moNitrav™ dynamic fleet routing:** real time, dynamic routing to ensure your loads are picked and fast tracked to the correct location in the most efficient way.
- **moNitrav™ real time scheduling:** dynamic job allocation for optimal throughput and priority job injection for last minute or on-demand orders, job cancellation and re-routing

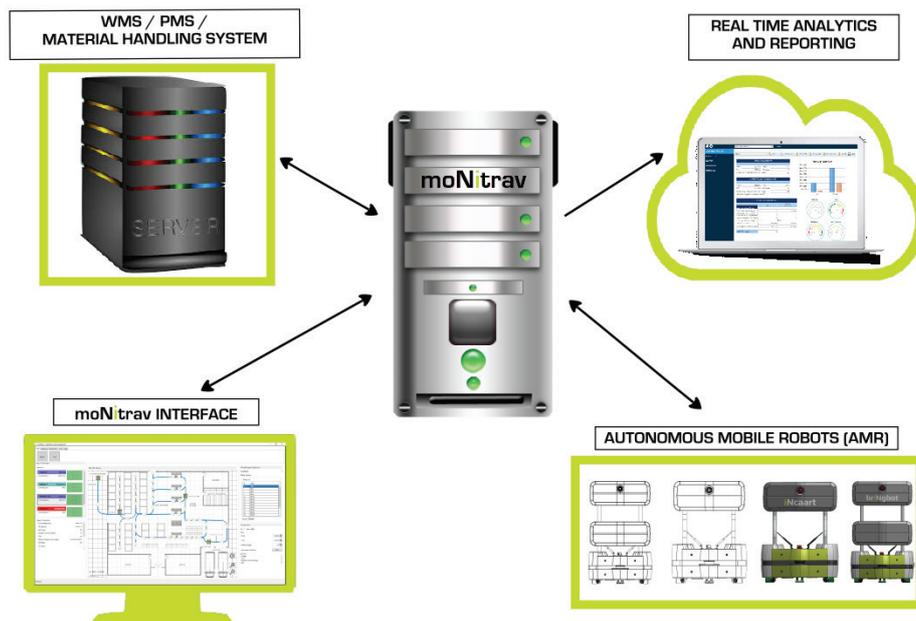
### Warehouse management systems, production management systems and moNitrav speak the same language:

- **moNitrav™ API:** simple, open interface to enable translation from order/command to vehicle "go to" destinations. Already used with WMS/WCS order pick/place, Pick/put to light, PMS production delivery, time critical baggage handling systems and many more.
- **Remote data access:** Remote operators/managers can log into the system for real time operation updates and system states and statistics.



### moNitrav™ Options:

- **moNitrav™-Fleet: A Server based solution.**
  - Supports interface to WMS/Process management systems for order execution.
  - Communicates to vehicle fleet via wireless links.
  - Allocates tasks to fleet vehicles for pick and place operation in accordance with order/production demand.
- **traNsitrak:** Independent vehicle operation for a stand-alone or small vehicle fleet operation.
  - For simple repeated vehicle schedules that follow a repeated pattern.
  - Allows user-defined changes to routes and on-demand calls.
  - Vehicle, routes, tasks and schedules are defined in moNitrav™. A generated file is then downloaded to vehicle memory for independent vehicle operation, e.g. Fixed path (route to A to B to C to D etc.).
  - Vehicle/s can operate without wireless connectivity.



Get on the fast track to material handling productivity improvement today.

Contact an expert at Guidance Automation on  
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*An award-winning pioneer in guidance, navigation and control technologies, Guidance Automation has over 25 years' experience in developing advanced solutions for the global robotic vehicle market and has thousands of systems in service.*

*Our aim is to consistently meet our clients' needs by offering automated guided vehicle technologies which serve the market need and improve operational performance and efficiency.*

*We are proud to have enabled our clients to automate robotic vehicles, fork lift trucks, floor cleaning equipment and all types of mobile moving systems. These solutions have been applied in a broad range of autonomous transport applications such as airports, warehousing, healthcare, production, bottling plants, printing, retail, marine and more.*

*We are committed to the continuous advancement of innovative and optimal vehicle automation.*



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