

The Importance of the TOS In Sustainable Port Operations

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ABOUT GULLSEYE



- Established in 2018
- Software Development Expertise



- Disruptive Technology
- Gen2 TOS – Our Flagship



- All-In-One System
- Prominent TOS Provider



The Need For Sustainable Port Operations



Environmental Impact

- Reduction of carbon emissions
- Minimization of pollution
- Conservation of marine ecosystems



Economic Benefits

- Cost savings through efficient operations
- Improve competitiveness
- Long-term viability

How Does the TOS Positively Affect Sustainability in a Port?





What Is a TOS?



A TOS is a digital platform used to manage the movement and storage of cargo in and around a port or terminal.

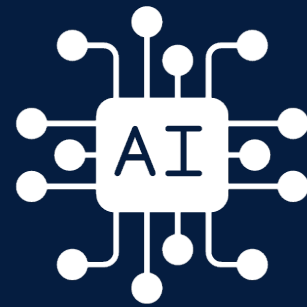


Basic Functions:

- Planning
- Cargo tracking
- Resource allocation
- Equipment Control
- Labor management
- Analytics



GullsEye's Gen2 TOS



AI/ML



OPTIMIZATION



SIMULATION

- Micro-Algorithms focus on the small parts of a complex problem
- Under the control of a conductor algorithm
- Historical data interpretation, AI & machine learning

TOS & Sustainable Port Operations

Optimized Resource Utilization and Operational Efficiency



- Efficient use of equipment
- Reduce re-handles
- Route optimization
- Improved vessel and truck turnaround times
- Reduced congestion
- Minimized idle time

Digitalization & Automation



- Paperless operations
- Automation of repetitive tasks



TOS & Sustainable Port Operations

Data Driven Decision Making

- Monitoring and reporting carbon footprint to reduce emissions
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Sustainable Infrastructure

- Optimizing the port infrastructure reduces need for expansion
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Regulatory Compliance & Standards

- Adherence to international environmental standards and regulations which are set by IMO

Synergies In Port Operations

- Intermodal integration – connecting sea, rail, barge and road transport
- Streamline the logistic chains by real-time information sharing
- Easy integration with stakeholders



Trends in TOS & Sustainable Ports

- **Automation and AI**
 - Autonomous vehicles and equipment
 - AI for predictive maintenance and operations
- **Blockchain**
 - Enhances transparency and security in cargo handling
- **Digital twins**
 - Virtual models for planning and optimization





CONCLUSION

THANK YOU!

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KEY TO PRODUCTIVITY