









REQUIREMENTS



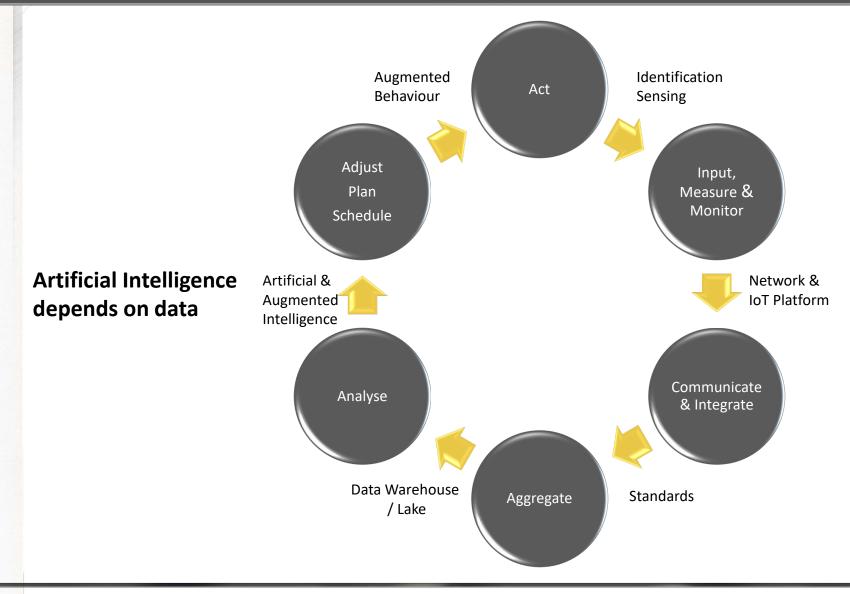
The move towards a digital economy requires industry to transform themselves to become more data and insight-driven. The port industry is no exception. There are three main challenges driving the need for smart ports:

- 1. Operational excellence
 - Velocity
 - Risk
 - Turnaround
- 2. Migrating activities (challenging external market)
- 3. New business opportunities



IOT VALUE CYCLE

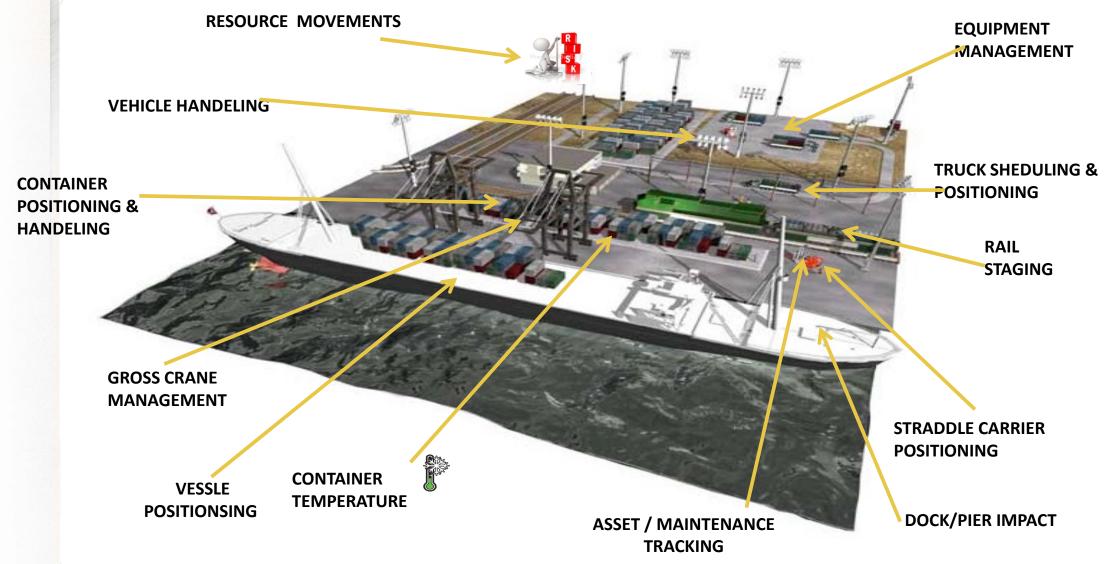






PORT APPLICATIONS

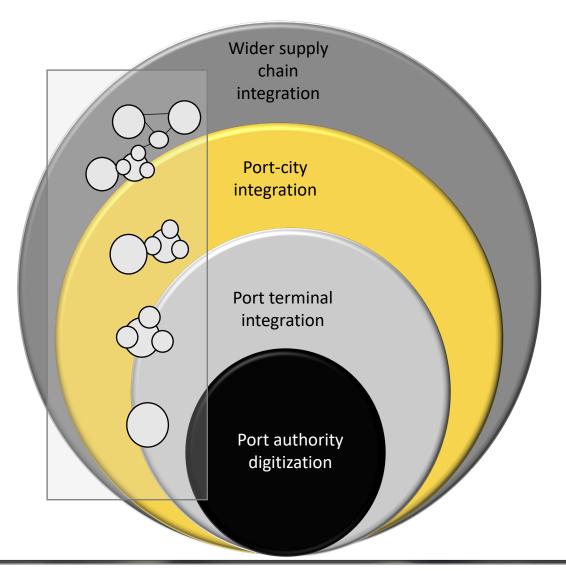














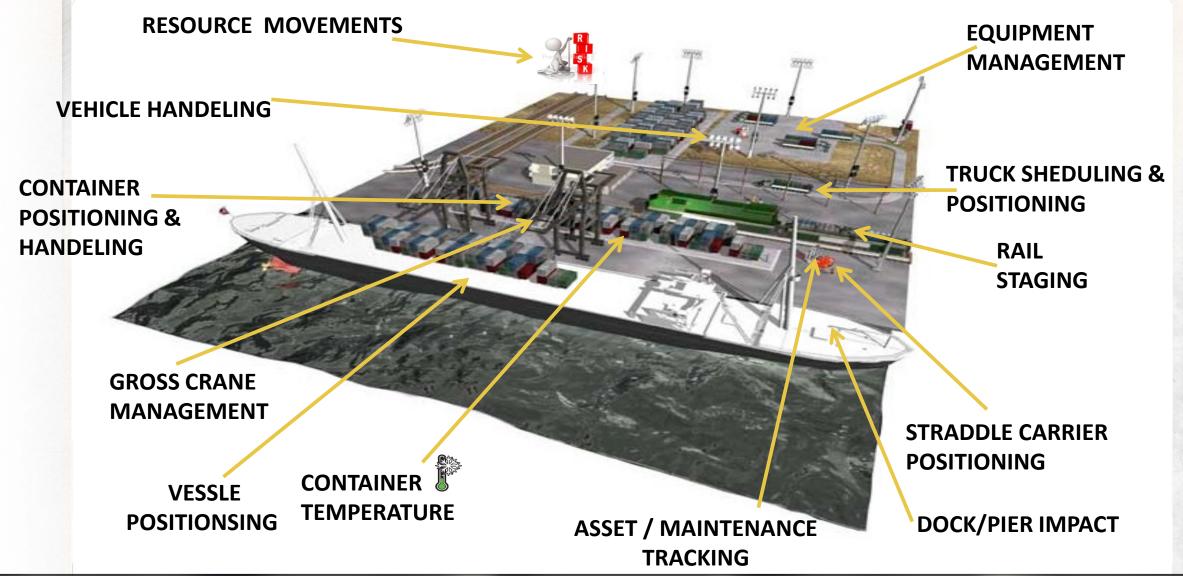






PORT APPLICATIONS







EXAMPLES OF WHAT CAN BE ACHIEVED



- Truck scheduling and positioning
- Staff Management
- Asset & Equipment Management
- Container Tracking and Protection
- Car Terminal Management
- Warehouse Stock Management



TRUCK SCHEDULING & POSITIONING



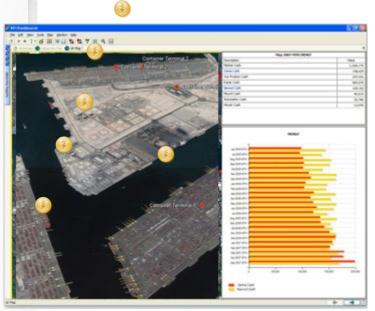


- 1. Auto gate arrival notification
- 2. Direct truck to correct area
- 3. Truck positioning
- 4. Truck lane arrival
- 5. Direct truck to correct lane
- 6. Truck lane departure
- 7. Truck lane turnaround times
- 8. Truck Auto gate departure
- 9. Truck port turnaround times



TRUCK SCHEDULING & POSITIONING





- 1. Management software monitors the sensors and updaters and display statuses on a operational dashboard.
- 2. Sensor data can be integrated via web services.
- 3. Provide truck statuses to the trucking companies via web interface.
- 4. Identify and alert operations of truck excessive long turnaround time.
- 5. Identify and alert operations of bottlenecks
- 6. Analytics and dashboards for quick reporting



STAFF MANAGEMENT WITH HIVE ONE IDTM





- Hive One Id[™] can be used to not only manage employees but also security and contract staff. Hive One Id[™] can track employees, making it easy to find them on the premises. It can also report on where staff spends time.
- One ID can manage access to zones.
- It can also record time management which can also be integrated to a payroll.
- Staff ID's use the same Hive IM™ infrastructure.



ASSET & EQUIPMENT MANAGEMENT



- Hiving Technology is ideal for asset management.
 As soon as the asset (tagged with a Hive One Id™) is moved, the asset register will automatically be updated, making is easy to locate assets and equipment.
- Hive One Id[™] can be configured to transmits it's ID at any specified interval and will be monitored by the Hive IM[™] placed in the zone where the assets are located. The data is automatically updated to a central database.
- Hive One Id[™] is equipped with tamper-proof detection and an alarm will be triggered in case of any tampering.
- Hive One Id[™] can also be used to track equipment that is regularly taken off site such as company laptops.
- Hive One Id[™] is ideal to track assets through service & repairs.
- All reporting is based on live real-time information.

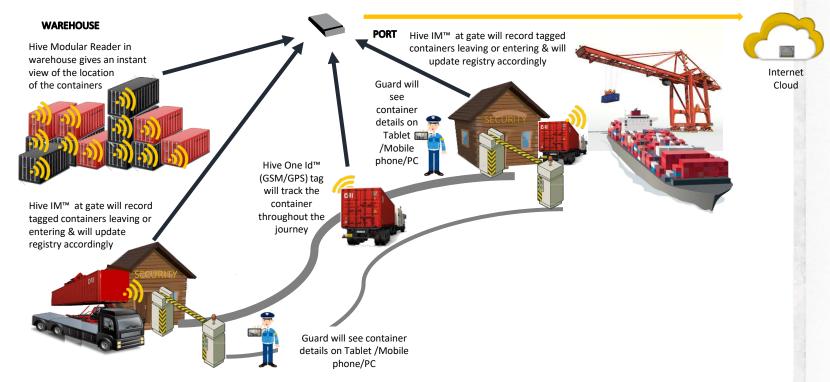




CONTAINER TRACKING & PROTECTION



- Hive One Id™ is ideal for the container tracking process as Hive One Id™ tags can be attached to a container at any stage of the process, improving supply chain operations and streamlining logistic processes.
- Hive One Id™ can be used to track containers in a depot/warehouse. Precise, real-time coordinates ensures a clear view of all containers, making sure that the correct containers are loaded.
- Hive One Id™ is durable, tamperproof, waterproof and is IP65 certified.
- Suitable to monitor containers globally in one place giving operators and logistic companies data about the whereabouts of a container in real-time.





SPECIALISED CAR TERMINAL MANAGEMENT



- Hive One Id™ is ideal for automated asset management. As soon as the asset is moved, the register will
 automatically be updated.
- Vehicle make, model, colour, registration number, parking-bay details can be associated with each individual.
 Hive One Id™.
- Hive One Id™ delivers a cost-effective and reliable solution for monitoring movable assets. It also provides
 instant visibility to assets entering & exiting the depot, as well as identifying where the assets are located at
 any given time thus reducing paper trails.
- Hive One Ids include on-board memory for monitoring & storing information about the asset or vehicle with multiple levels of security.
- The Hive One Id™ System will also:
 - Prevent unauthorised usage of stock vehicles.
 - Provide more accurate storage information.
 - Improved supply chain operations including speedy order fulfilment.



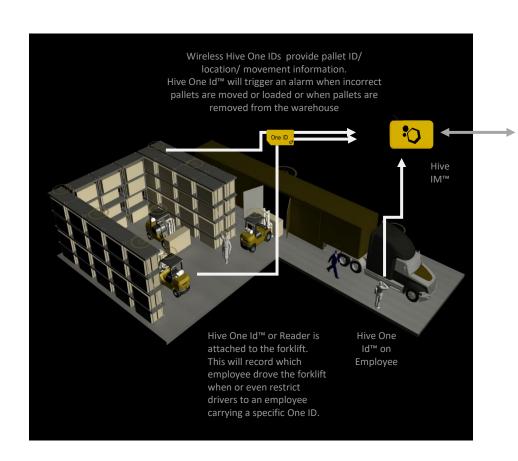


STOCK MANAGEMENT PROCESS WITH HIVE ONE ID™



Internet Cloud

- Hive One Id[™] is ideal to identify and track pallets in a warehouse environment, allowing for the seamless management of warehouse stock whilst improving supply chain operations.
- Hive One Id[™] can assist in :
 - Identifying and tracking of pallets, knowing at any time what pallets are in the warehouse.
 - Improving the ability to find the required pallet/ item and ensure that the correct pallet is loaded.
 - Alarm is triggered when incorrect pallets are moved or loaded.
 - Efficient and timeous fulfillment of orders.
- Forklifts & personnel can be equipped with Hive One Id™ monitors to identify exactly which pallet was loaded to which vehicle and by whom.





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