





Integrating Emissions Monitoring, Engine Diagnostics



Al-First Innovation Partner for Port & Logistics Operations



Founded

19+ years across Australia, UAE, UK, NZ & India



Solutions

Proven suite tailored to port pain points



Innovation

Al-led disruptor with Lidar, RFID & automation tech



Expertise

700+ man-years in ports, shipping & logistics



Global Reach

Projects executed in Europe, Middle East, Africa & Asia-Pacific & India



Team

80+ experts. New 350seat center in Trichy, India by 2027





Agenda

- 1. Introduction
- 2. Data Analytics: Decarbonization Analytics for Port Equipment (DAPE)
- 3. Solution Development
- 4. Implementation Roadmap
- 5. Next steps









Decarbonization Analytics for Port Equipment (DAPE)

Port of Everett Pilot Study





What is DAPE?

- First-of-its-kind platform which captures and analyzes real-time emissions and equipment data.
- Combines telematics + Portable **Emission Measurement Systems** (PEMS) data into one scalable, cloudbased dashboard.
- Provides live insights on equipment emissions, movement, and health.
- Enables data-driven decision-making for decarbonization, maintenance, and operational efficiency.









How Does it Work







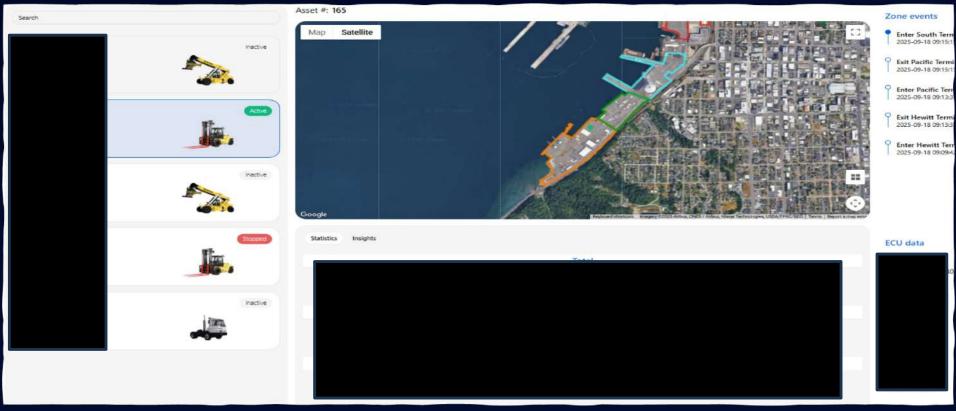
Why Develop DAPE?

- You can't manage what you don't measure.
- Challenge outdated inventories that overlook real-world variables unique to port equipment or any other heavy industries.
- Unlock operational insights by quantifying factors like idle time, routes, and operator behavior that drive emissions.
- Enable data-driven planning for decarbonization and smarter infrastructure investments.





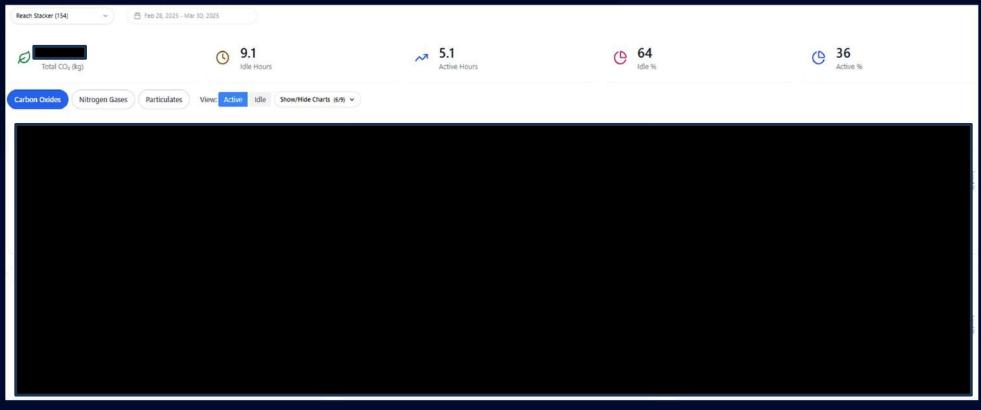
DAPE Dashboard - Telematics







DAPE Dashboard - Emissions







DAPE - Telematics Data







Key Takeaways

- Real-time emissions and operational data provide accuracy beyond traditional inventories.
- Idle time reduction offers immediate emissions and cost savings.
- Plug-and-play technology works across old and new equipment without major infrastructure changes.
- Data visualization tools (heat maps, dashboards) drive operational efficiency and spatial planning efforts.
- Future prediction of emissions and scenario simulation analysis.







In case of any queries, feel free to reach out:

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THANK YOU



Jacobs

