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Transforming the Vaccine Supply Chain with IoT

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Vaccine Supply Chain History

- 1970s-1980s
 - A box and ice
- 1990s-2000s
 - Vacuum Insulated Panels (VIP)
 - Active temperature control container
- 2010s
 - Active container size expansion



Transformation Catalysts

- Industry maturity
- Pandemic has highlighted need to diversify complexities
- Technology and trends
 - Artificial intelligence
 - Edge computing
 - Sensor innovation
 - New wireless technologies
 - Governance and blockchain

Driving Transformation & COVID Vaccine Preparedness

- Best-in-class VIP insulation
 - High-performance microfiber VIP
 - Insulation R-Value of 50-60 compared to 25-35 for other VIP material
 - 50% longer shipment duration compared to competing solution
 - Hibernation capabilities
 - Frozen temperature protection for 10+ days



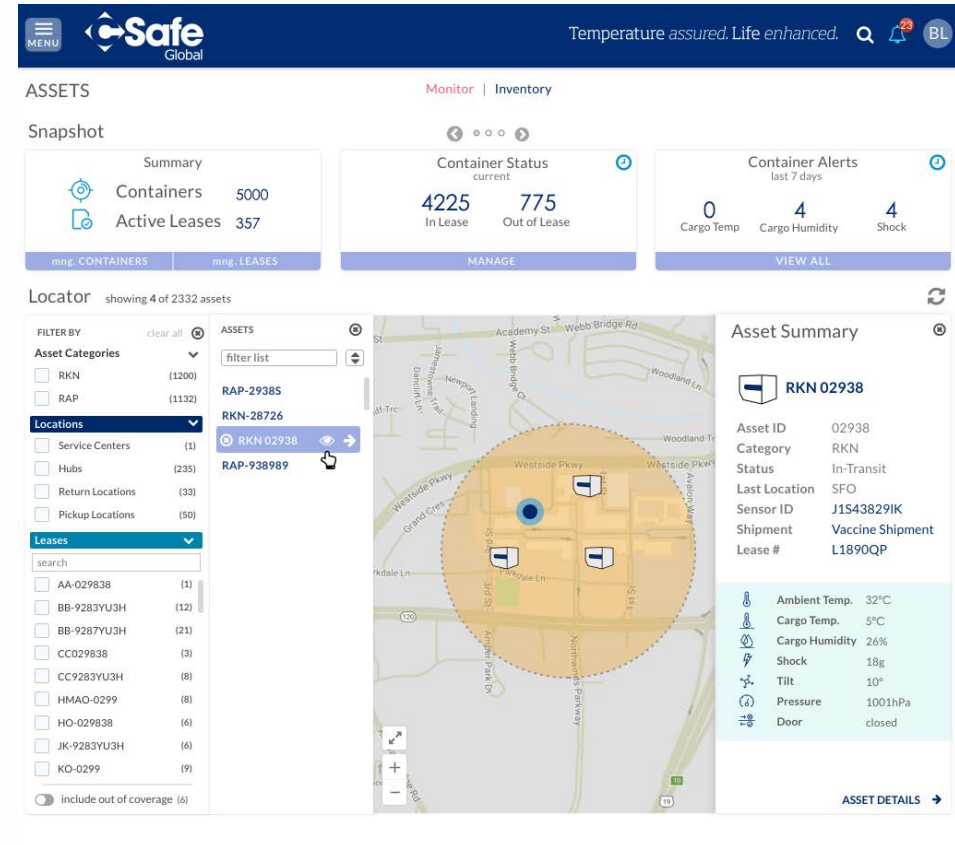
Driving Transformation & COVID Vaccine Preparedness

- Artificial Intelligence
 - Lease forecasting
 - Inventory management



Driving Transformation & COVID Vaccine Preparedness

- Shipment Visibility
 - Integrated telemetry device
 - 24/7 real-time visibility for status and condition
 - Real-time alerts for intervention
 - Neatly packaged REST API
 - Chain of custody confidence



THANK YOU

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