



Digital Twins for Fleet Management 101

What is a digital twin?

A virtual copy of your fleet that runs “what-if” scenarios using your real operational data to test changes before implementation.

What are the benefits of using digital twins in fleet management?

- **Test before investing**
Digital twins allow you to test different variables to see the impact before implementation in the real world
- **Calculate true costs**
See accurate expenses that may come into play if changes are made to your fleet
- **Evaluate alternatives**
For example, to compare hydrogen vs. electric vs. renewable diesel to create a more sustainable or cost-effective fleet
- **Risk-free experimentation**
No operational disruption while evaluating potential impact of fleet changes
- **Data-driven decisions**
Make fleet decisions quickly with trustworthy insight, and continuously experiment with new variables and data to optimize operations

What types of operational data are typically involved?



Real-time telematics data



TMS (Transportation Management System) data



Actual route information



Weather patterns



Traffic conditions

... and many other data points, depending on what a fleet has access to.

How does the process of using digital twins look like?



How can fleets get started?

- ✓ Install relevant hardware to collect fleet data (e.g. AI dashcams, telematics systems, fuel sensors, trailer trackers)
- ✓ Work with your IT team to build a digital twin of the fleet using collected data – create a model that will update often with new data as they are captured
- ✓ Use digital twin model to simulate planned changes in the fleet, or use it to help plan changes that will make a difference to cost and operational efficiency

Ready to equip your fleet with solutions of the future?

EROAD partners with fleets of all sizes to transform operations, optimize costs, and strengthen safety – helping your organization keep up with today’s demands.

Arrange a chat with us or learn more at eroad.com.

