



TRITIUM

# Roadmap to Fleet Electrification

September 2020



# Introduction to Tritium



TRITIUM

**4500+**

DC Fast Charging Stations

The number of charging stations deployed globally

**600,000+**

Charging Sessions

The number of charging sessions on Tritium Chargers

**38**

Countries

The number of countries where Tritium Chargers have been installed

**3**

State-of-the-Art Production Facilities

A total of 11 assembly lines across Torrance, Amsterdam and Brisbane

**300+**

Staff

Expected to grow even further in 2020 and beyond

**20+**

Years of Track Record

Product Development for e-mobility and renewable energy



# Fleet Charging Method



Use case	On-site AC charging	On-site DC charging	Public HPC
Predictable single shift small vehicles (>50mph with 20kW)	✓		✓
Unpredictable scheduling		✓	✓
Short turn around requirement – not moving not earning		✓	
Predictable single shift large vehicle (<50mph with 20kW)		✓	





# Impact of Public Charging

Growing availability of public highway and urban charging creates a further pathway to electrification for fleets.

- 50kW DC is the new 7kW AC in the public space
- 150kW+ DC availability greatly increasing
- ISO15118 (*Plug and Charge*) will provide a seamless driver experience
- Ad hoc of small EVs reduces need for on-premise charging – subscribe to a mobility service provider instead





# Data Driven Decisions

- Independent measurement of battery data during charge cycle
- Greater data availability DC charging using ISO15118
- More consistent charging behavior across fleet using DC chargers
- Higher charge rate provides flexibility of charge schedule
- Much more performance and predictive maintenance information about the DC charging equipment than the on-board AC charger





# Future Proof Your Fleet

- Build your site to last with no regrets
- Many of the fleet applications already require the high power of DC charging
- Price point of DC charging is decreasing over the coming years
- Will soon rival AC11-22kW
- New features allowing better infrastructure sharing
  - Simultaneous charging
  - Shared centralised power systems
- Easier integration of DC sources
- Vehicle manufacturers are looking to remove the AC charger due to weight, cost, certification





Connect with us!  
[enquiries@tritium.com.au](mailto:enquiries@tritium.com.au)

TRITIUM