

# electreon

Charging the way forward

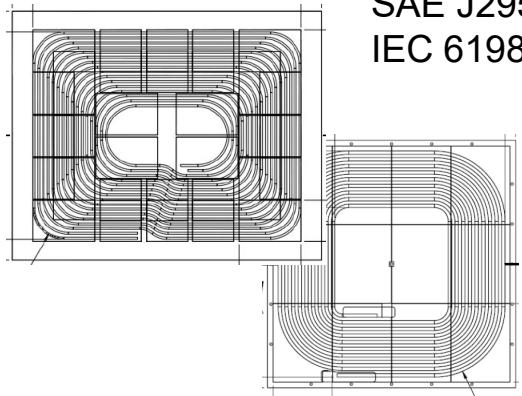
## Standardization of WPT - The Electric Road as the Grand Unification -

— anytime, anywhere

# Progress of WPT Standardization

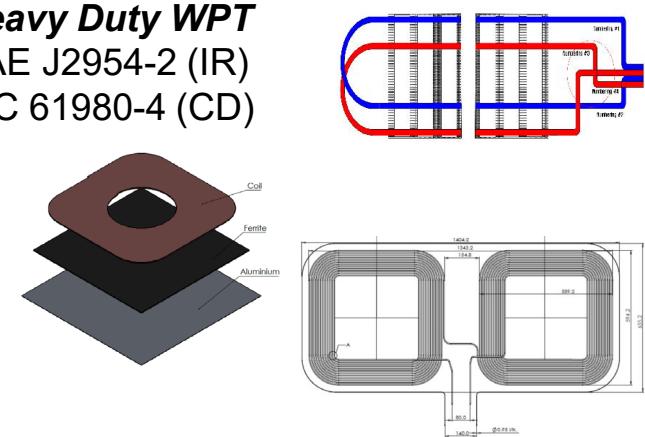
## **Light Duty WPT**

SAE J2954 (IS)  
IEC 61980-3 (FDIS)



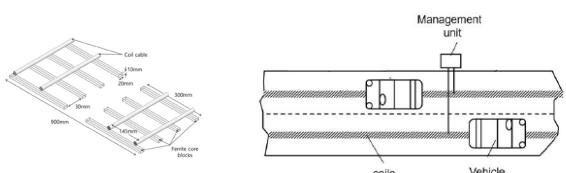
## **Heavy Duty WPT**

SAE J2954-2 (IR)  
IEC 61980-4 (CD)



## **Electric Road System**

SAE J2954-2 (IR)  
IEC 61980-5 (WD)



SAE: IR->RP->Strd  
IEC: NP->WD->CD->CDV->FDIS->Strd

# Status of WPT Standardization

## ***Light Duty WPT***

SAE J2954 (IS)

IEC 61980-3 (FDIS)

No common understanding, yet

## ***Heavy Duty WPT***

SAE J2954-2 (IR)

IEC 61980-4 (CD)

## **Electric Road System**

SAE J2954-2 (IR)

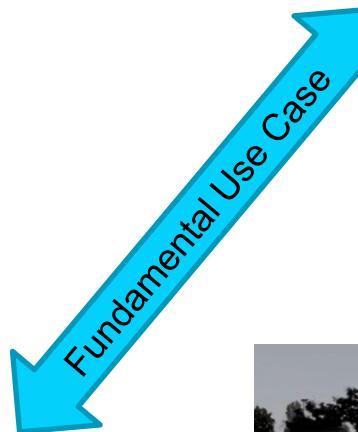
IEC 61980-5 (WD)

# Status of WPT Standardization

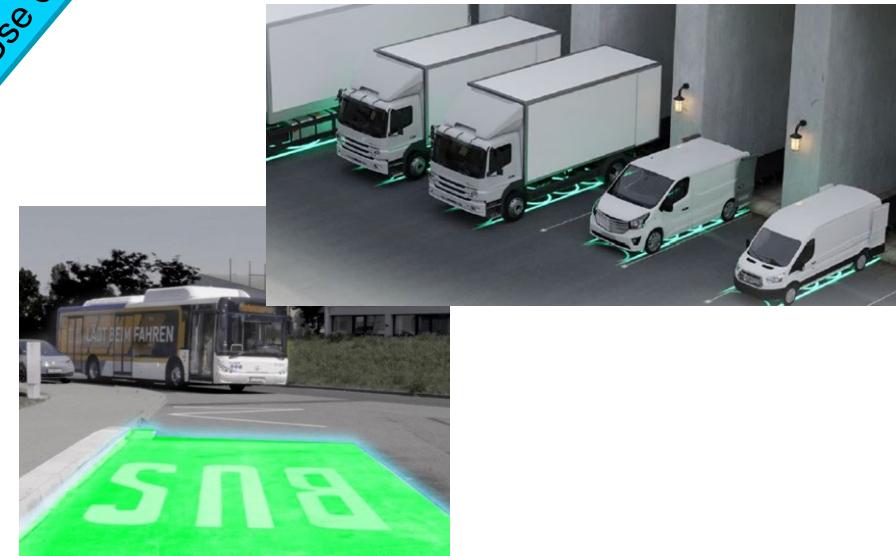
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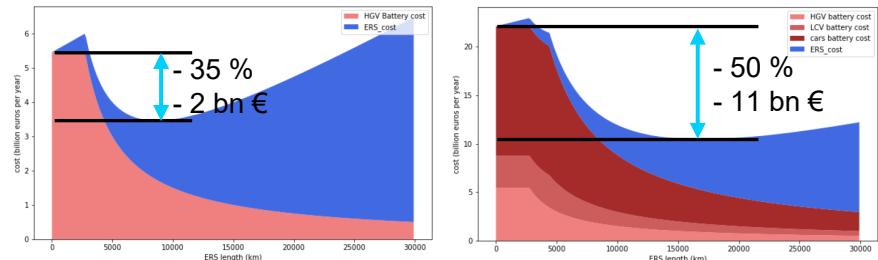
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# Status of WPT Standardization

## **Light Duty WPT**

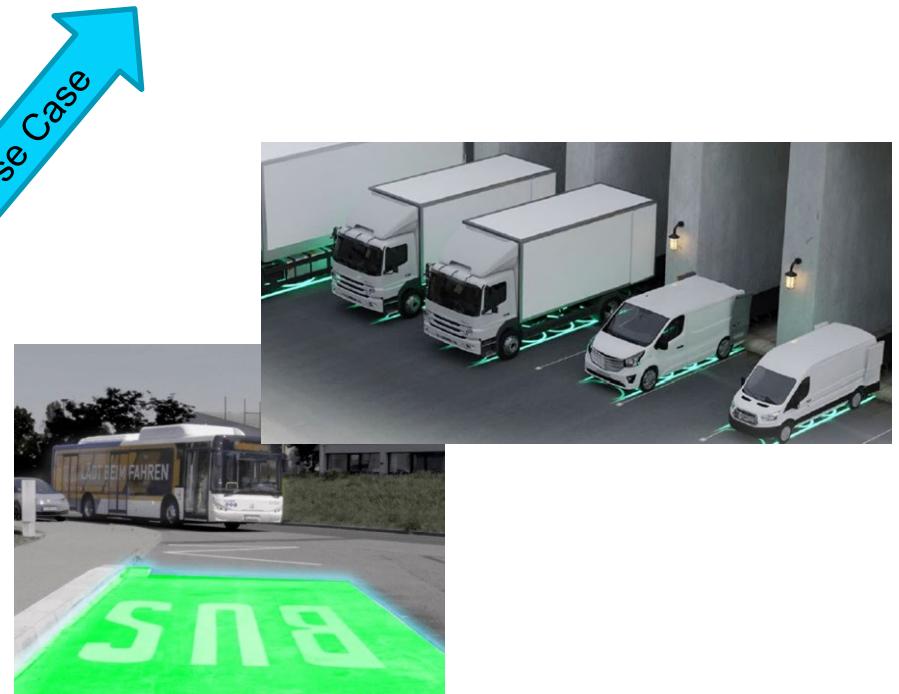
SAE J2954 (IS)  
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No common understanding, yet

## **Heavy Duty WPT**

SAE J2954-2 (IR)  
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## **Electric Road System**

SAE J2954-2 (IR)  
IEC 61980-5 (WD)

Figure 1. Total yearly investment cost including batteries and ERS as a function of the ERS length.

The electric road system: technical, economic and environmental study carried out in France. 2. Economic and environmental aspects, Fabien Perdu<sup>a</sup>, Pierre Chaniot<sup>b</sup>, Marc Raynal<sup>b</sup>, François Combes<sup>c</sup>,

<sup>a</sup>Université de Grenoble Alpes; CEA/LITEN F-38402 Saint Martin d'Hères, France

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<sup>c</sup>Université Gustave Eiffel, Cité Descartes, F-77420 Champs-sur-Marne, France



# Commercial B2G Project, Pilot B2G

Michigan, USA: Started

1 Mile

The first public electric road in the US, in collaboration with MDOT



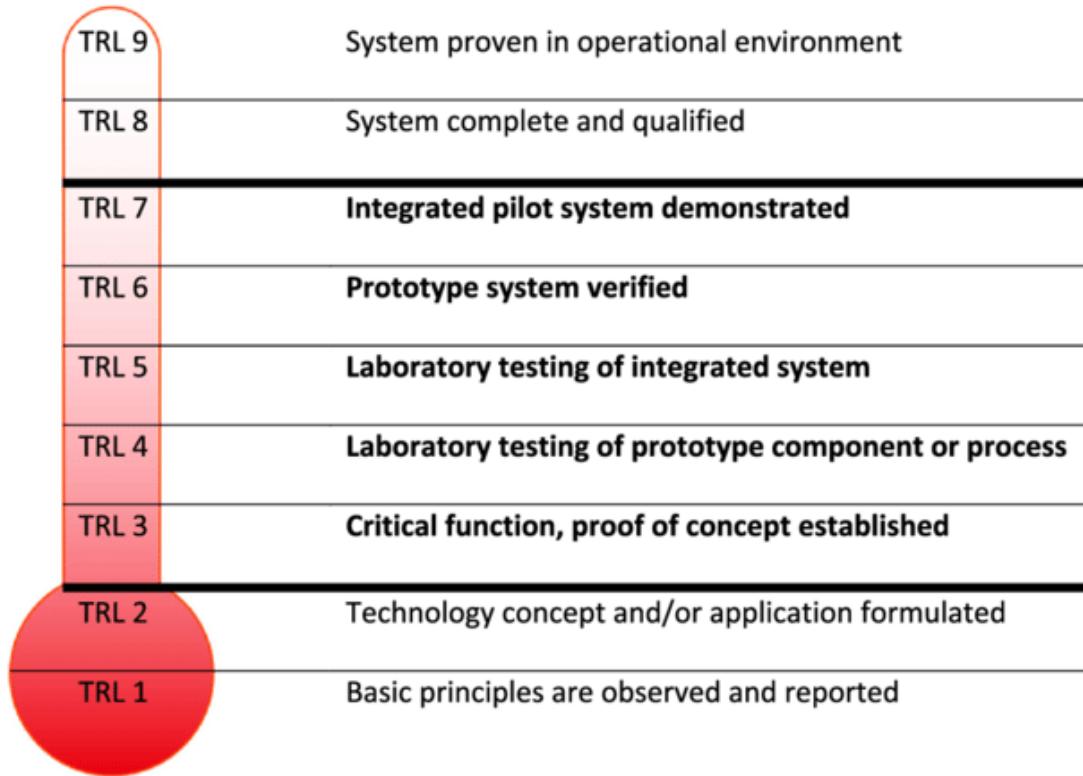
Utah, USA: in operation

50 m

Live demonstration facility at ASPIRE with an electric truck



# Standards guarantees high TRL and secures healthy industry



<http://as.nasa.gov/aboutus/trl-introduction.html>



J2954-2, 2022~202X



J2954, 2016~2022



Electreon, 2019



<https://www.press.bmwgroup.com/deutschland/article/detail/T0281369DE/laden-noch-einfacher-als-tanken>



University of Auckland, 1992



MIT, 2006



Thank You  
**electreon**