

## Toll Processing & Collection, gearing up to win

Oscar Mellegers Director Product Management



## Toll Processing & Collection, what's important?



Tolling infrastructure to process toll transactions



PEOPLE PLANET



**PROFIT** 



Toll collection process for outstanding fees & fines



# New car sales with connected capabilities

Today

50%

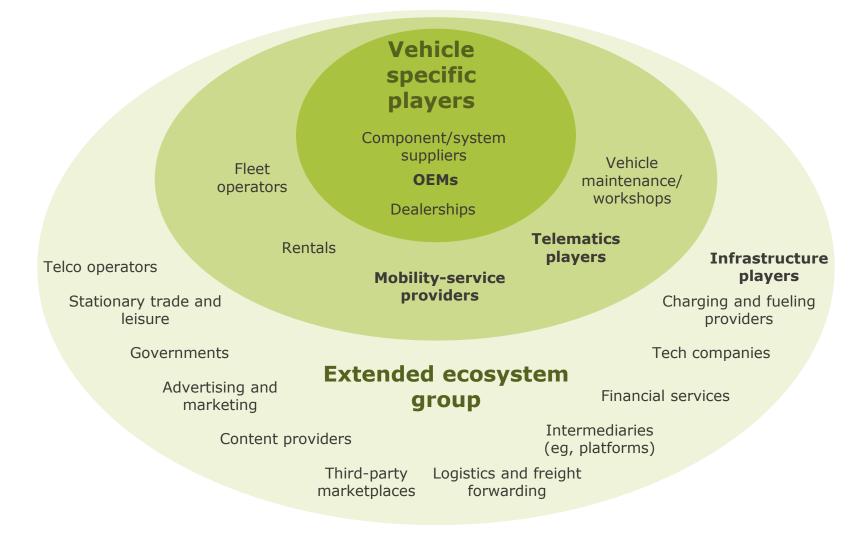
By 2030

90%



Source: McKinsey Center for Future Mobility

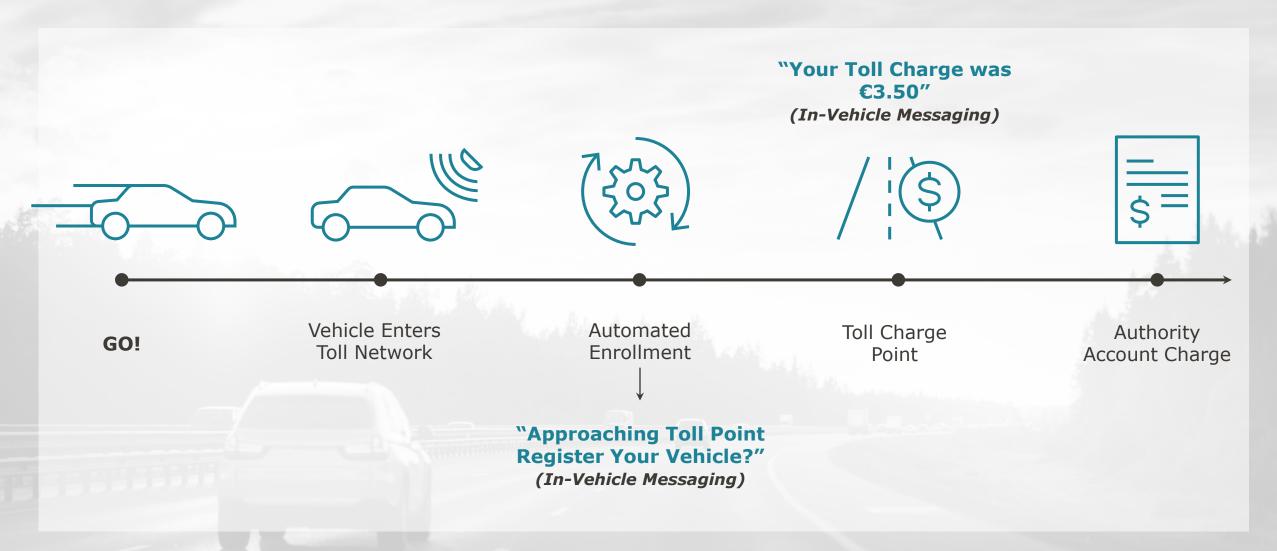
## Connected vehicle as an enabler







## In-vehicle tolling concept in a nutshell





#### **Pilot results with Stellantis**

#### **Goals and Scope**

- In-vehicle tolling/RUC\* management for vehicle OEMs
- Image-based tolling improvement for tolling authorities



Connected vehicles in pilot



Toll transactions



Tolls in California

#### **Pilot results**

In-vehicle tolling/RUC\* management

100% accuracy

of vehicle identification, toll charge and messaging **Image-based tolling improvement** 

100% matching

of medium and low confidence tolls requiring manual review

#### **Next steps**

- Feedback from Stellantis and Tolling Authority was extremely positive
- We are now in active discussions for a larger-scale pilot in US / Europe
- Future pilots to include more applications

Note: \*Road usage charging (RUC) is a policy where motorists pay for use of the road network based on distance traveled, sometimes also distance-based user fees



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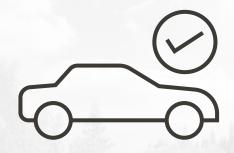


### **Enforcement support services**

Direct access to 30+ VLA Equal treatment for domestic Vehicle owner identification and foreign customers network ToL outsourcing service Reduce administration and Establishing liability for fleets speed up collection process High collection rate across Increase profitability of Collection of fees & fines 130+ countries worldwide, operations by variety of payment options minimizing bad debt Customer service Unburden operations and Customer service outsourcing with enhance customer satisfaction 22 languages supported



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