#### ASECAP DAYS 2024



Road User Charging (RUC) in Europe An opportunity or a Threat? Greek Case Study

#### **Manos Vrailas**

President, Hellenic Association of Toll Road Network, HELLASTRON President, Nea Odos & Kentriki Odos



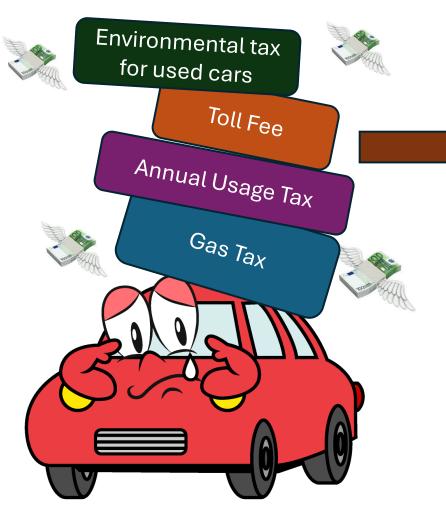
#### **Road Usage Charging (RUC)-Definition**







#### **RUC-An alternative charging method for Greece?**



TAX-/Fee	(€)
Gas Tax (9L/100Km)	945.00
Avg Annual Usage Tax	250.00
<b>Toll Fee</b> (50% of Kms in Tollways ->7,000Km)	450.00
Total Cost	1,645.00

What is the total Cost for

Road Usage e.g.15,000Km/Year

Equivalent to a Road Usage Charging of 0,11eurocent/Km

(0,68 USD/Km in pilot projects in USA)



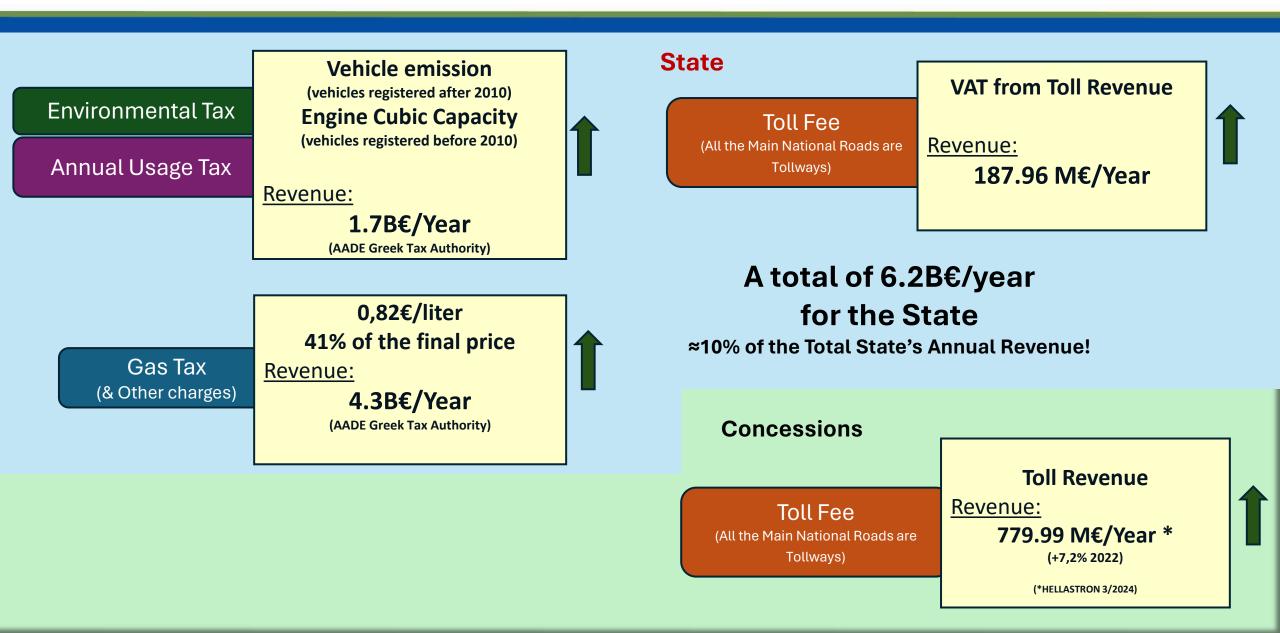
#### HELLASTRON

#### But....Is it applicable??



#### **Existing Annual Revenue from Road Usage in Greece**



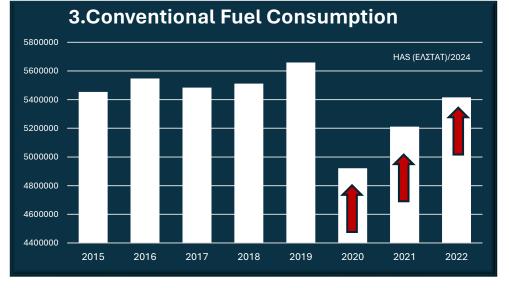


#### **Greek State Revenue from Road Usage – Threats?**



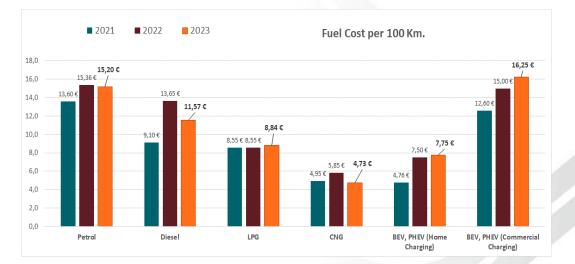


#### 6,704,305 Total Vehicles 91.5% Conventional Fuels (ACEA 01/2024)



+3,5% Estimated for 2023

#### 2. High Cost for BEV & PHEV Ownership & Commercial Charging

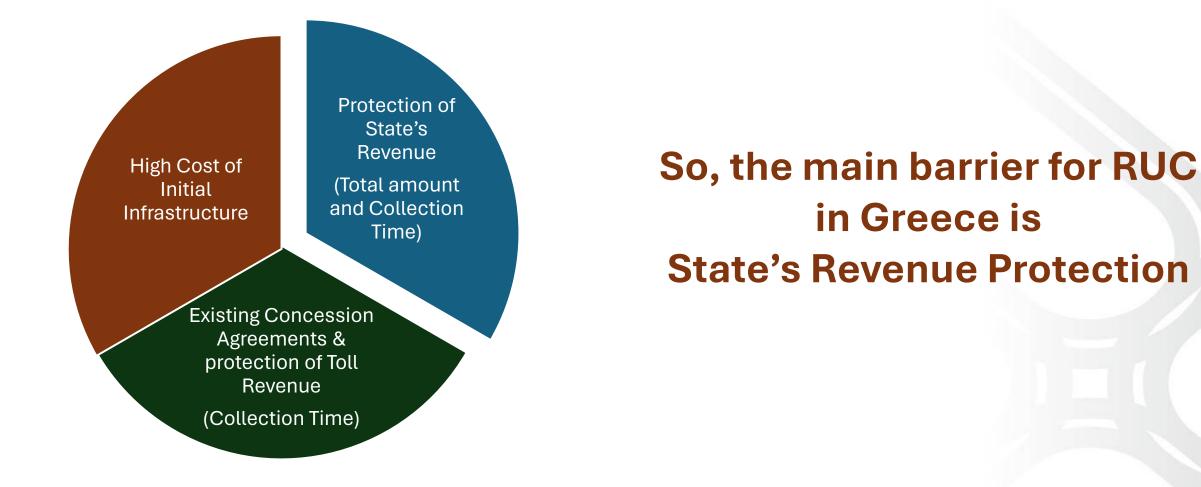


\*Assumptions:Vehicle 1,2cc 96Hp, with the following Consumption: a) Petrol 8,0 L/100Km b) Diesel 6,5L/100Km c) LPG 9,5 Kg/100Km d) CNG 4,5 Kg/100Km, e), Avg. Charging: 25 kWh



#### **RUC-An alternative charging method for Greece-Barriers**









#### Based on the fundamental definition of RUC It is <u>not</u> an alternative for the next 5-10 years

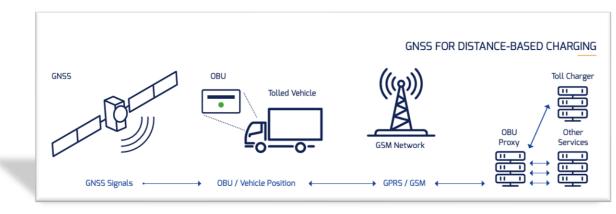


## What about the extended definition of RUC?



#### **RUC- for Environmental fee imposition?**

- For HGVs is an obligation according to EU regulation.
- RUC is the best approach for the HGVs Environmental fee charging



• However, some critical issues should be addressed (e.g. interoperability with the existing tolling system).







#### **RUC- for Environmental fee imposition-Advantages**





- Development of the national infrastructure for RUC,
- Elaboration of required institutional framework,
- Creation of state's mechanism for supervision and revenue collection,
- Creation of synergies with toll operators for interoperability (EETS context)
- Deployment of various charging policies for HGVs as pilot programs for the future generalized application

A great opportunity for the toll operators who have the experience of installing and operating integrated electronic "toll" collection mechanisms!!



#### **RUC-** as a Congestion control tool?





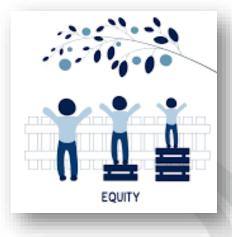
#### **RUC-Application in Greece, Conclusions**

#### **Strengths:**

- The fairest, transparent and efficient approach for road usage charging,
- Permits Deployment of various charging policies enhancing the social equity,
- Permits Deployment of policies promoting sustainable mobility,
- A valid and effective approach for HGV Environmental fee imposition
- A promising approach for congestion control,

#### **Weaknesses**

- Lack of experience of a full implementation in any country,
- Partially incompatible with existing tolling concessions in Greece,
- Demands significant investments that can only be realized with the participation of the private sector,
- Wrong application can lead to social inequalities or exclusions as well as to disruption of healthy competition





#### **Threats:**

- Under conditions could be considered as a threat for the state's revenue
- Causes a significant lag in state's revenue collection

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- Need for Reversal and Renegotiation of the existing concession contracts,
- Disturbance of the existing interoperability system operating in Greece

**Opportunities:** 

# THREATS

- Public Private Partnership for the development of the required infrastructure and the operation of the HGV environmental fee charging system as a pilot application of RUC,
- Integration of the existing Greek Interoperability in the EETS context,
- New stream of revenue for the Toll Operators within the context of a sustainable mobility from Value Added Services offered to the tollway users (park & ride, synergies with Mass transit services, etc.)









### Thank you!



#### **Manos Vrailas**

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Title: Road User Charging (RUC) in Europe – An opportunity or a Threat? When: Tuesday, May 14

Parallel Session 1 - Tolling schemes and CO2 reduction for net zero targets, 13:45-14:45

Moderator: René Moser, Managing Director and Senior Expert in Corporate Strategy, Innovation and International Affairs, ASFINAG, Austria

- Manos Vrailas, Hellastron, Greece Road User Charging (RUC) in Europe An opportunity or a Threat?
- Bern Datler, ASFINAG, Austria Introduction of CO2-Tolling in Austria on January 1, 2024 Challenges and Opportunities
- Matthew Daus, University Transportation Research Center, City University of New York at The City College of NY, USA New York city Congestion Pricing
- Javier Martinez Ordonez, Vialivre S.A., Portugal Satelise <sup>®</sup>: A Smart Mobility Solution for Road User Charging. Results of the pilot project in Portugal (2020-2022)
- Alessandro Taddei, Telepass, Italy Telepass experience in providing services in brand new CO2 Tolling schemas

Duration: 10min, 10-12 Slides Deadline: 29th of April 2024

