



IBERDROLA
ESPAÑA

26.05.2017

ELECTRIFICACIÓN DEL TRANSPORTE

Retos y oportunidades

ELECTRIFICACIÓN DEL TRANSPORTE



El cambio ya ha llegado

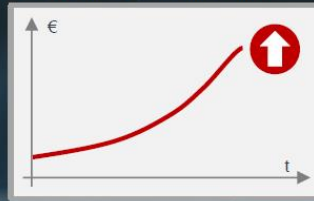
The time is right for e-Mobility in the high-volume market!

CO₂-Targets



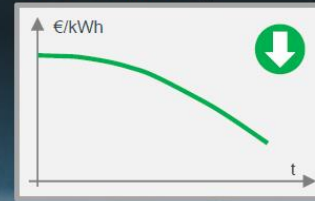
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Cost of combustion

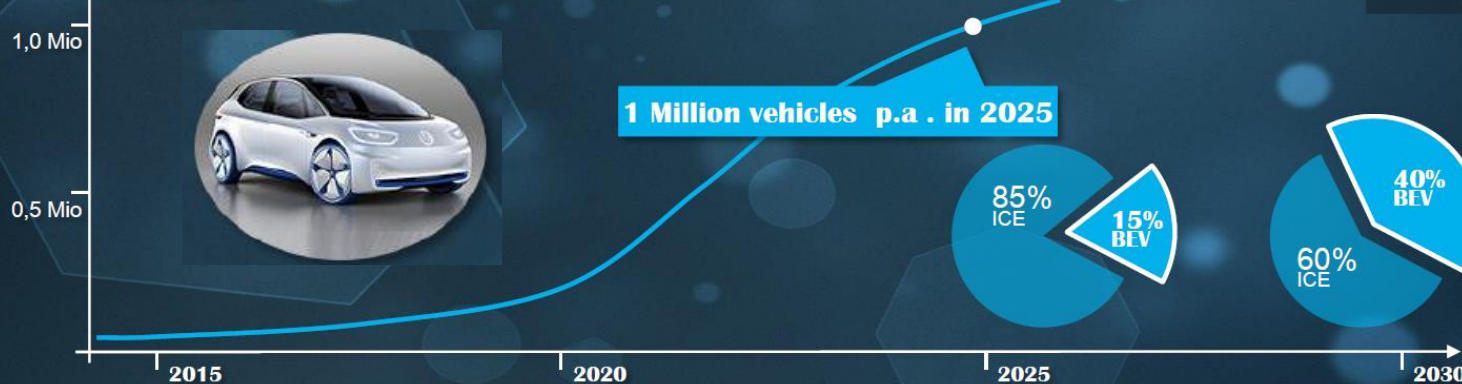


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Cost of battery



Vehicles / year

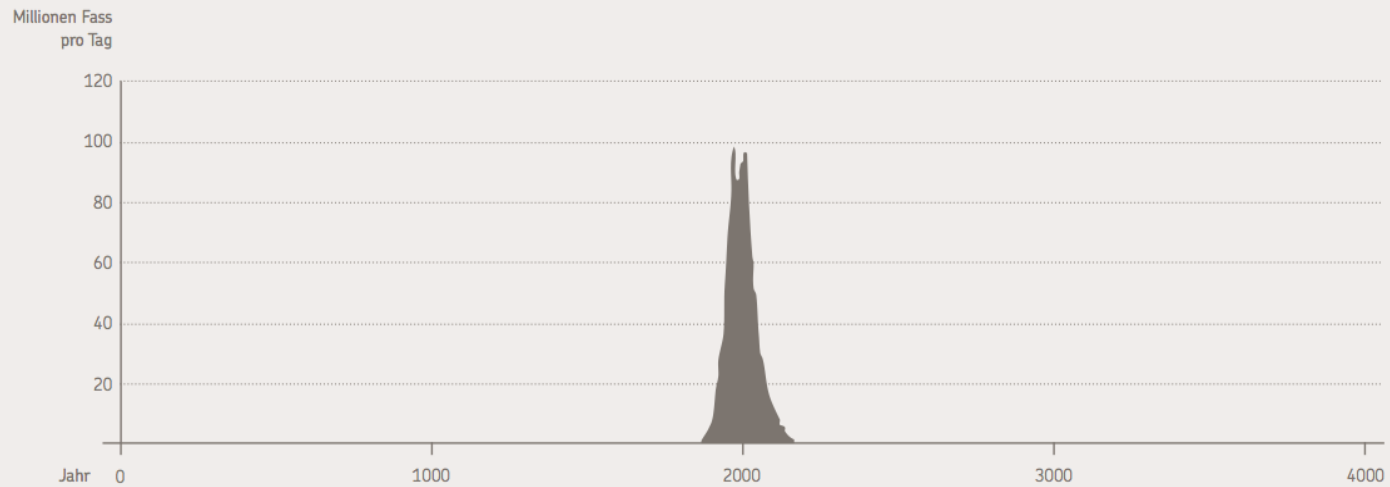


Q: When will EVs reach consumer cost parity, and what will be the impact on EV sales?

- Europe is first in 2018E but still at a loss for the OEMs; true cost parity (5% OEM margin) is reached in 2023E.
- Raising forecasts by ~50% to 14% global sales penetration (30% in Europe) by 2025E.

// Erdölzeitalter auf langer Zeitachse

OIL AGE SEEN FROM A DISTANCE

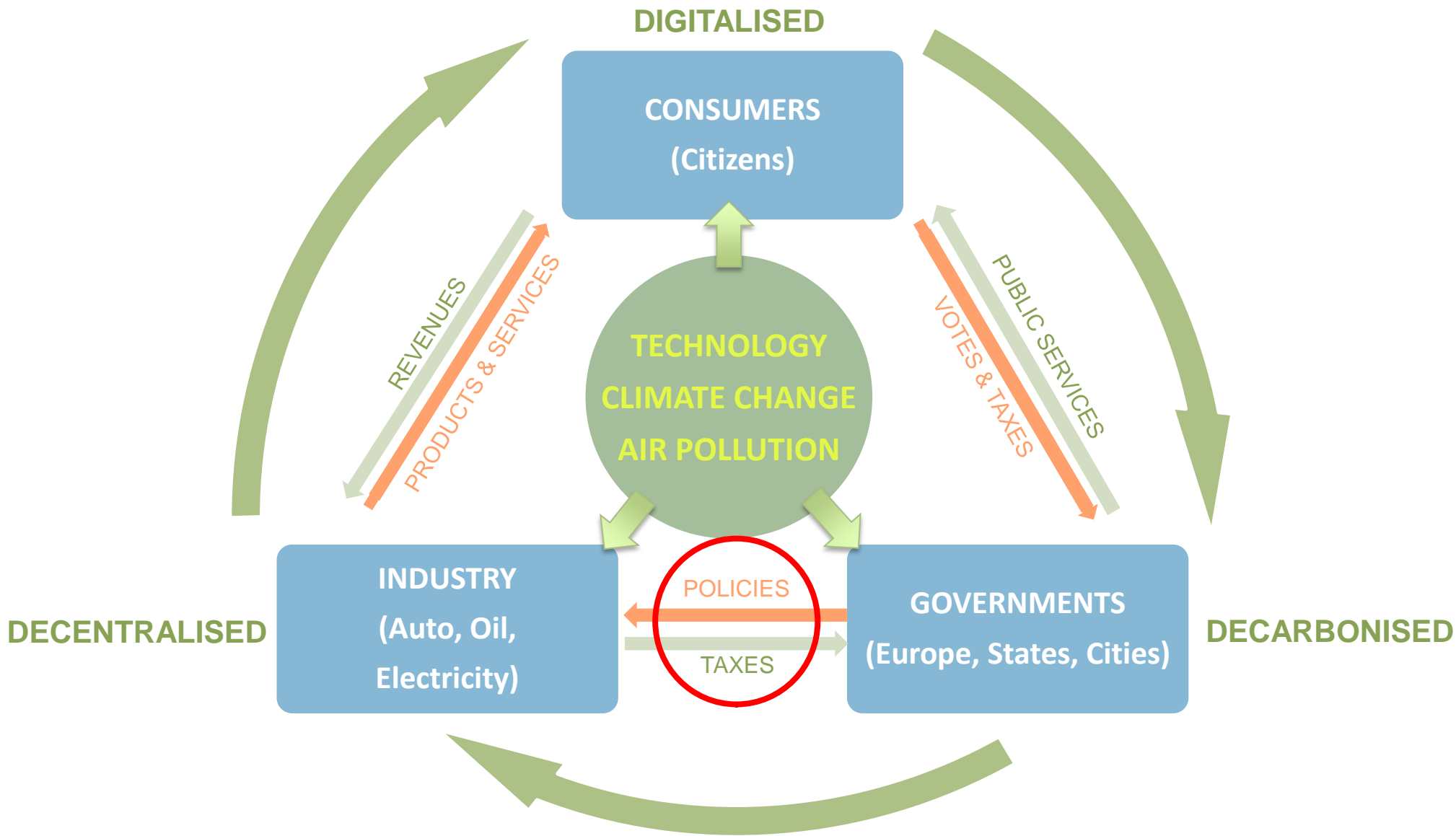


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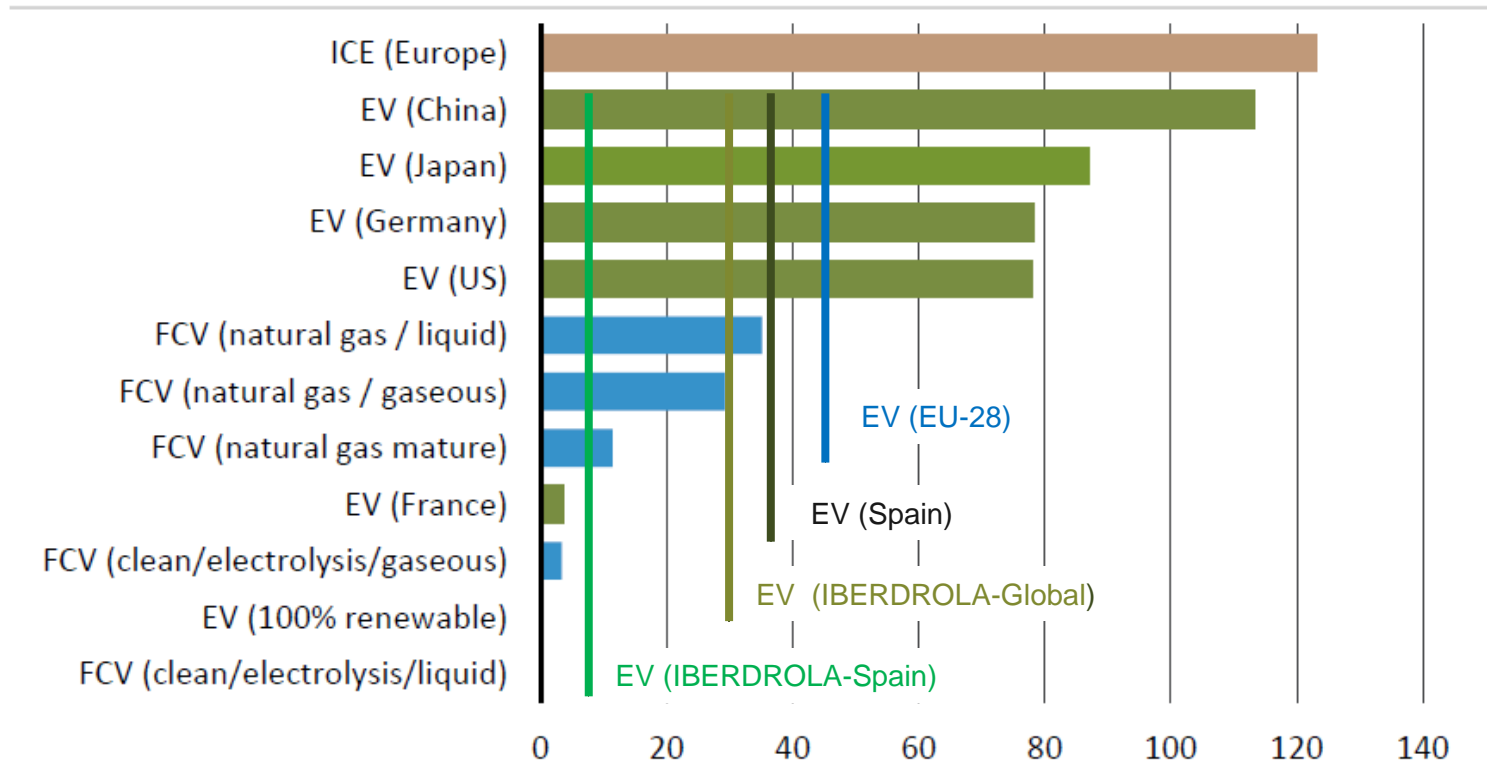
Swiss Institute for Peace
and Energy Research

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CLAVES DEL CAMBIO



CO₂ emissions caused by vehicle energy consumption (gr/km)



Source: UBS estimates, Iberdrola, REE 2016 and European Green Vehicles Initiative

DESCARBONIZACIÓN

Considering all its lifecycle, EVs are among those with less CO₂ emissions now and in the future.

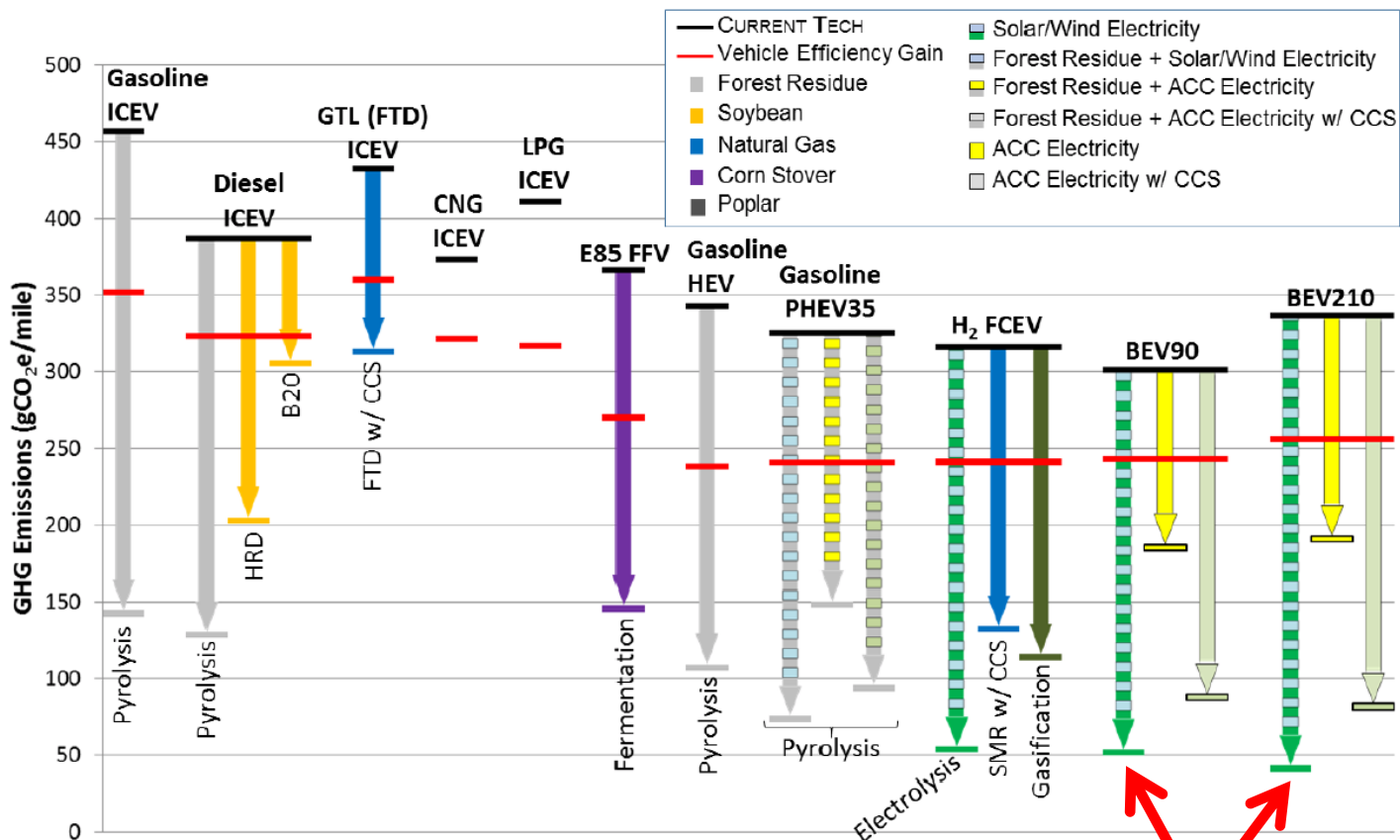


Figure 2: Total emissions for all vehicles and all time periods

Fuente: EPRI. "Cradle-to-Grave Lifecycle Analysis of U.S. Light Duty Vehicle-Fuel Pathways: A Greenhouse Gas Emissions and Economic Assessment of Current (2015) and Future (2025-2030) Technologies"

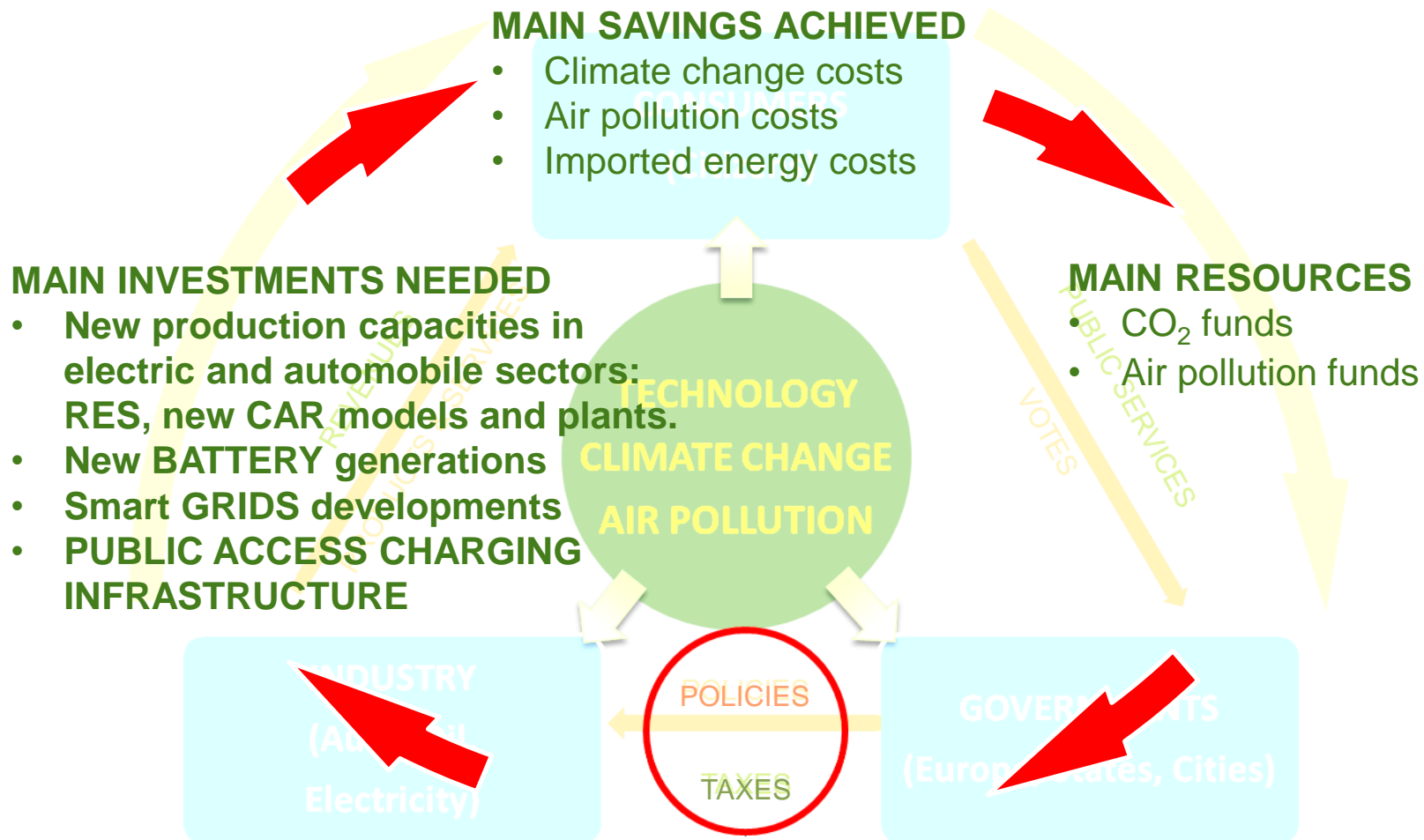
EL COSTE DE LA CONTAMINACIÓN



According to recent studies* based on publicly available European data, if **ICE vehicles were to truly reflect their exhaust emissions-related human health costs, each EU-based ICE car would have to pay back €2,371 per year** to correctly compensate the public, and truly reflect its footprint on human health. This represents some €23,000 during its lifetime and an average sticker price of €50,150 of a ICE car in the EU

*Rethinking the cost of conventionally fuelled road transport. March 2017. Bellona Europa

ACTIVAR Y RENTABILIZAR EL CAMBIO



LA REGULACIÓN DEBE PROMOVER UNAS CONDICIONES FAVORABLES DESDE UNA PERSPECTIVA GLOBAL