• Phase 1: UBE  $\rightarrow$  base MPR + wide tolerances; range  $\rightarrow$  monitoring

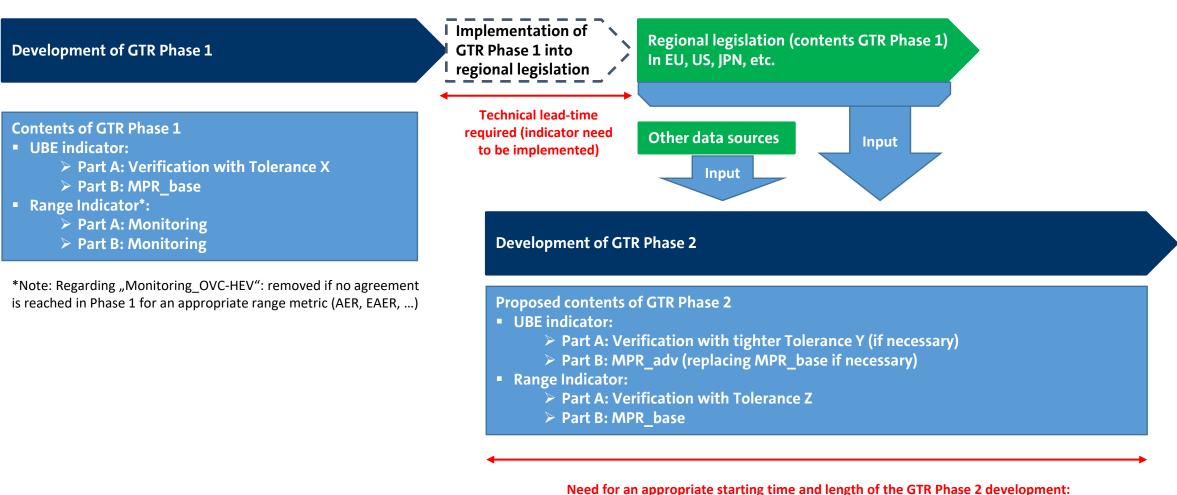
		OVC-HEV	PEV
Phase 1	UBE indicator	Part A: Verification with Tolerance X Part B: MPR_base	Part A: Verification with Tolerance X Part B: MPR_base
	Range indicator	Monitoring_OVC-HEV*	Monitoring_PEV

\*Note: Regarding "Monitoring\_OVC-HEV": removed if no agreement is reached in Phase 1 for an appropriate range metric (AER, EAER, ...)

• Phase 2: UBE  $\rightarrow$  advanced MPR + tighter tolerances; range  $\rightarrow$  MPR + tolerances (based on monitoring)

		OVC-HEV	PEV
Phase 2	UBE	Part A: Verification with Tolerance Y	Part A: Verification with Tolerance Y
	indicator	Part B: MPR_adv	Part B: MPR_adv
Phase 2	Range	Part A: Verification with Tolerance Z	Part A: Verification with Tolerance Z
	indicator	Part B: MPR_base	Part B: MPR_base

Tolerances	Tolerance X (P1) >> Tolerance Y (P2); Tolerance range Z >>> Tolerance UBE Y
MPR_base =	Base MPR to ban substandard products from the market
MPR_adv =	Data driven MPR based on Phase 1 experience/learning (if needed)



Robust and wide data base is required for the indicator evaluation (indicator need be available + evaluation on broad basis of vehicle, especially aged vehicles)

 $\neq$ 

## Information for the legislator

Range indicator (cycle/procedure based)

- $\rightarrow$  Relevant for comparison with MPR
- $\rightarrow$  No information for the customer

## **Customer information**

UBE indicator (cycle/procedure based)
→ Relevant for comparison with MPR
→ Should be shown to the customer as important for second hand users

Remaining battery range (individual for each customer)

- $\rightarrow$  Not relevant for comparison with MPR
- → Will be shown in the HMI as important for knowing when to charge the vehicle