EVE IWG 72nd session pilot phase

June 17th
-online-

Pilot Phase location and timing

- confirmed -

	CW25	CW26	CW27	Point of contact	Method	Confirmation	Vehicle	Participants
Volvo			Sweden, Hällered Proving Ground, *1st July*	Elie Garcia, Elie.garcia@volvo.com	**1a**	**Yes**	N3 Truck, >16t Tractor	**EPA**, James Sanchez
Scania		Sweden, Södertällje, *27.-28. June*		Rong Sun, Rong.sun@scania.com	**1a**	**Yes**	N3 Truck, >16t (Rigid/Tractor)	**JRC**, Elena Paffumi, Gian Luca
Daimler Truck	Germany, Stuttgart, *19.-21. June*	Germany, Stuttgart, *whole week*	Germany, Stuttgart *whole week*	Axel Trentzsch, axel.trentzsch@daimlertruck.com	**1b**	**Yes**	CW25: M3 Citybus CW26-27: N3 Truck >16t Rigid	**JRC**, Elena Paffumi, Gian Luca **UTAC**, Jose Fernandes **TÜV Nord**, Manuel Hagemann (*Witnessing as technical service*)

SOCE verification by UBE*measured* in Part A & certification

- Based on the current text, SOCE correlation has to be verified based on UBE$_{measured}$
- For UBE$_{measured}$ we believe in possible alternatives which are displayed below
- OICA intends to verify the following items during the pilot phase of Method1a and 1b
    - ⇒The impact of loading rates on UBE and UBC
    - ⇒Justification of alternative proposals listed below, especially #4
    - ⇒Improvement of WD description for Method1a and 1b

#	UBE$_{measured}$ verification	comments	Resulting formular
1	Verify Current, Multiply with on-board Voltage to get **UBE$_{measured}$**	Accuracy low, feasibility limited and external influences of voltage measurement too high	$x_i = SOCE_{read,i} - \dfrac{\int I_{external} dt * U_{monitored}}{UBE_{certified}} * 100$
2	Verify current and Voltage begin of life externally on pack level By that, sensors are being certified life-long (see also EU-VI PEMS)	On test rig level, accuracy of signal verification is very high and approved/well established	$x_{I,i} = I_{read} - I_{measured}$ $x_{U,j} = U_{read} - U_{measured}$
3	Verify current and Voltage in alignment with authorities	Depending on ech cps authority	No formular needed anymore
4	Verify **UBE$_{measured}$** by comparing charged energy from charger with on-board energy	Using the charge cycle to verify UBE **UBE$_{discharged}$** and **UBE$_{charged}$** may be subject to a maximum allowed deviation of e.g. 5% (comparing slides 3 & 4)	$x_i = SOCE_{read,i} - \dfrac{UBE_{charged}}{UBE_{certified}} * 100; UBE_{certified} = UBE_{charged,begin\ of\ life}$