



OICA Statement on the possible Realisation of an accelerated Battery Aging Procedure

- Battery aging and understanding of degradation mechanisms is complex
 - The Li ion technology, which is currently the most widespread and well known RESS technology, still undergoes rapid and frequent changes
 - Upcoming technologies may have completely different degradation mechanisms and aging characteristics
 - Life time estimation models used by manufactures (as e.g. the one from Volvo Cars)
 - Existing standardized life time estimation test methods and models are too simplistic to provide satisfactory correlation with durability outcomes in the field
 - OEMs have different models for different vehicle categories due to strong impact of application conditions on battery durability
 - OEM life time estimations are based on considerations of simulation and testing data in combination with proprietary application specific adjustments to improve the reliability
 - The electrical performance of the battery (energy storage and/or power capability) are not necessarily the EOL parameters in all EV applications
 - Currently used simulation models are still being verified against field data from real customer usage.
- ➔ **No standardized accelerated ageing test methods are available which are providing a fair and representative aging estimation**