


ONLINE PUBLIC DEMONSTRATION

17th November 2020, 10:00-12:00 CET



InteGrated and PHysically Optimised Battery System for Plug-in Vehicles Technologies

 This session is being recorded

1

GHOST

This project has received funding from the European Union's Horizon2020 Programme for research and innovation under grant agreement No.770019.



ONLINE PUBLIC DEMONSTRATION

17th November 2020, 10:00-12:00 CET



Base Unit System Validation at lab level

Dr. Felix Weidmann



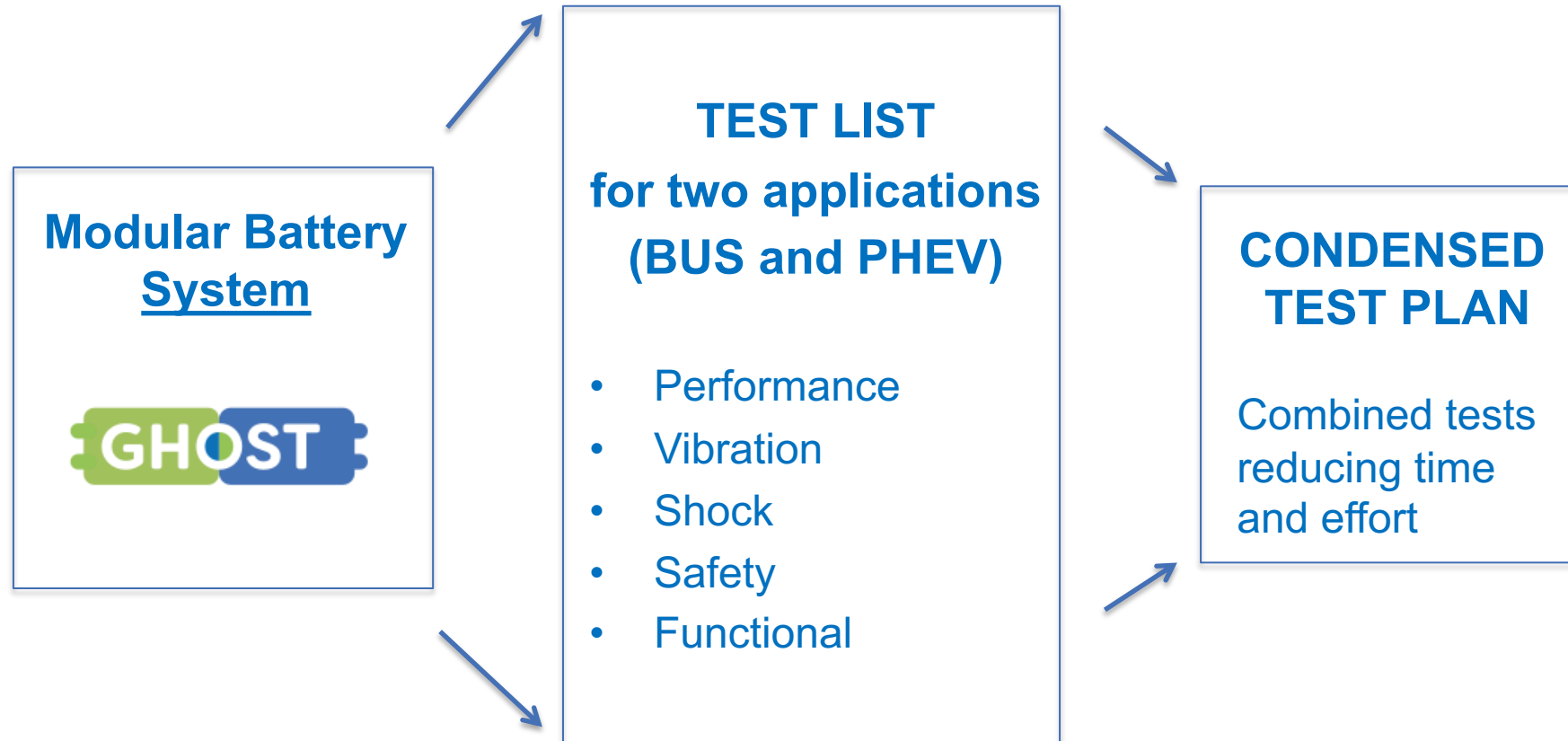
This session is being recorded

2

This project has received funding from the European Union's Horizon2020 Programme for research and innovation under grant agreement No.770019.



Workflow for GHOST Base Unit System Validation at lab level



Workflow for GHOST Base Unit System Validation at lab level

Two test lines

1. Dummy System
 - a) First mechanical validation (Shaker)
2. Functional System
 - a. First safety checks
 - b. Combined tests for both applications (thermal, electrical and mechanical on MAST)

CONDENSED TEST PLAN

Combined tests
reducing time
and effort

First test line - Dummy System

Device under test:
Weight dummy

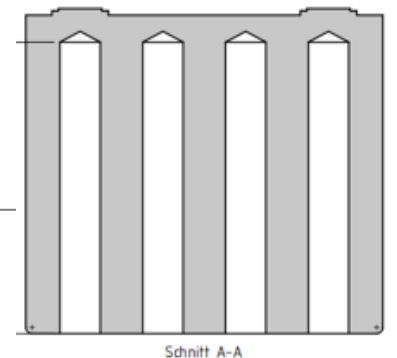
Mechanical Shock

Vibration

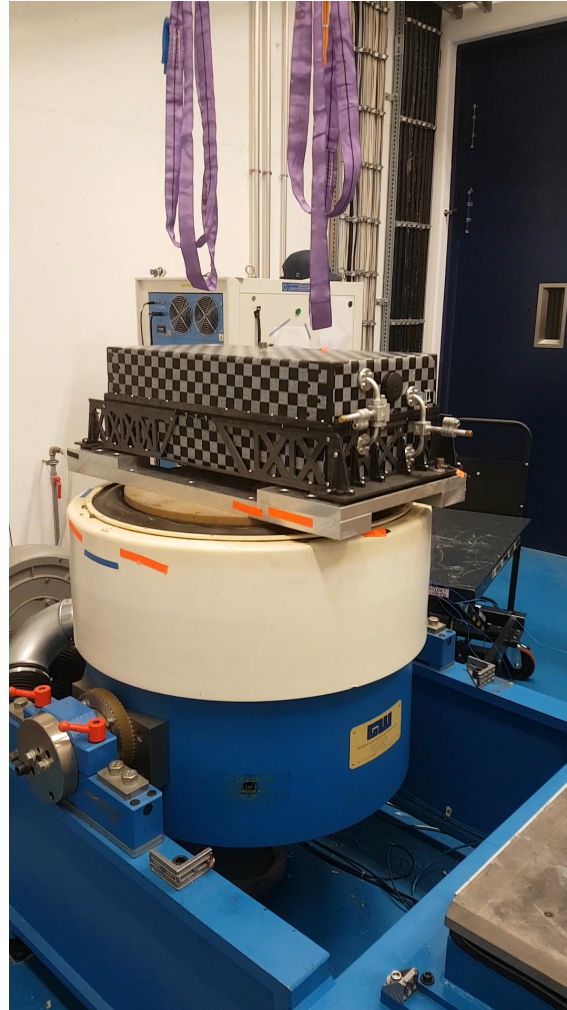
Tear down analysis

Dummy cells

- No active cells - safety first
- Volumetric placeholder with same weight
- Same centre of gravity



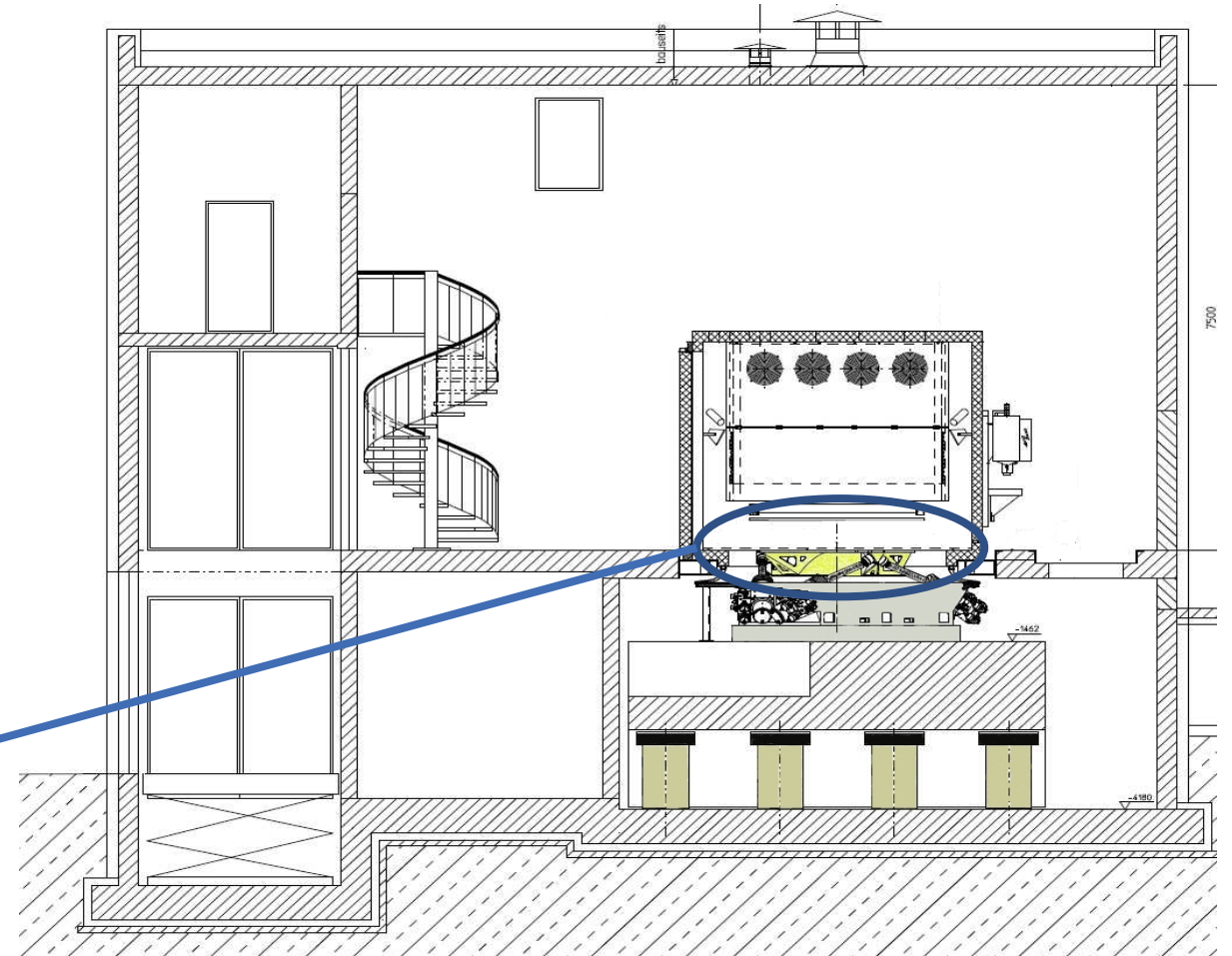
First test line - Dummy System



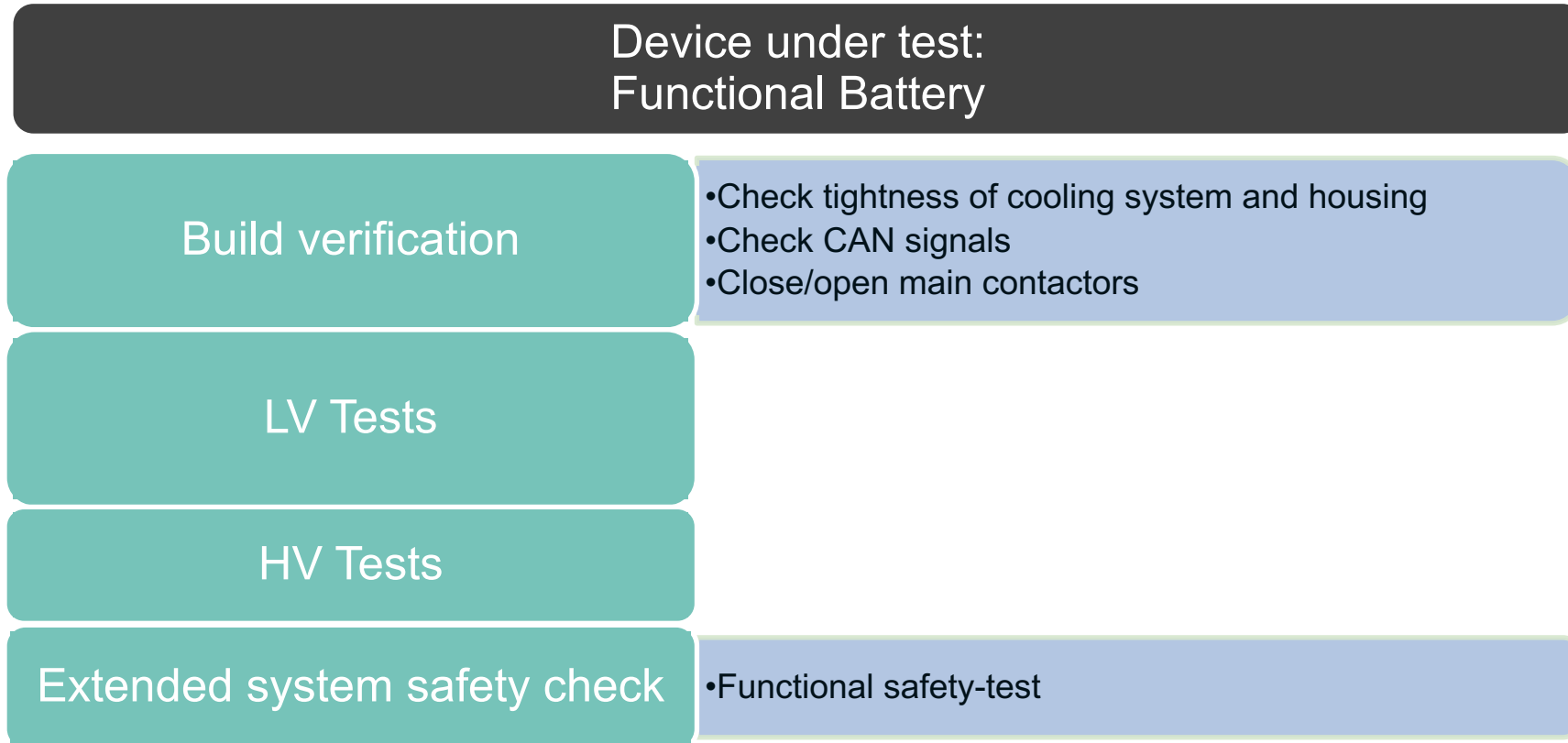
Second test line - Functional System

MAST- Multi Axial Swing Table

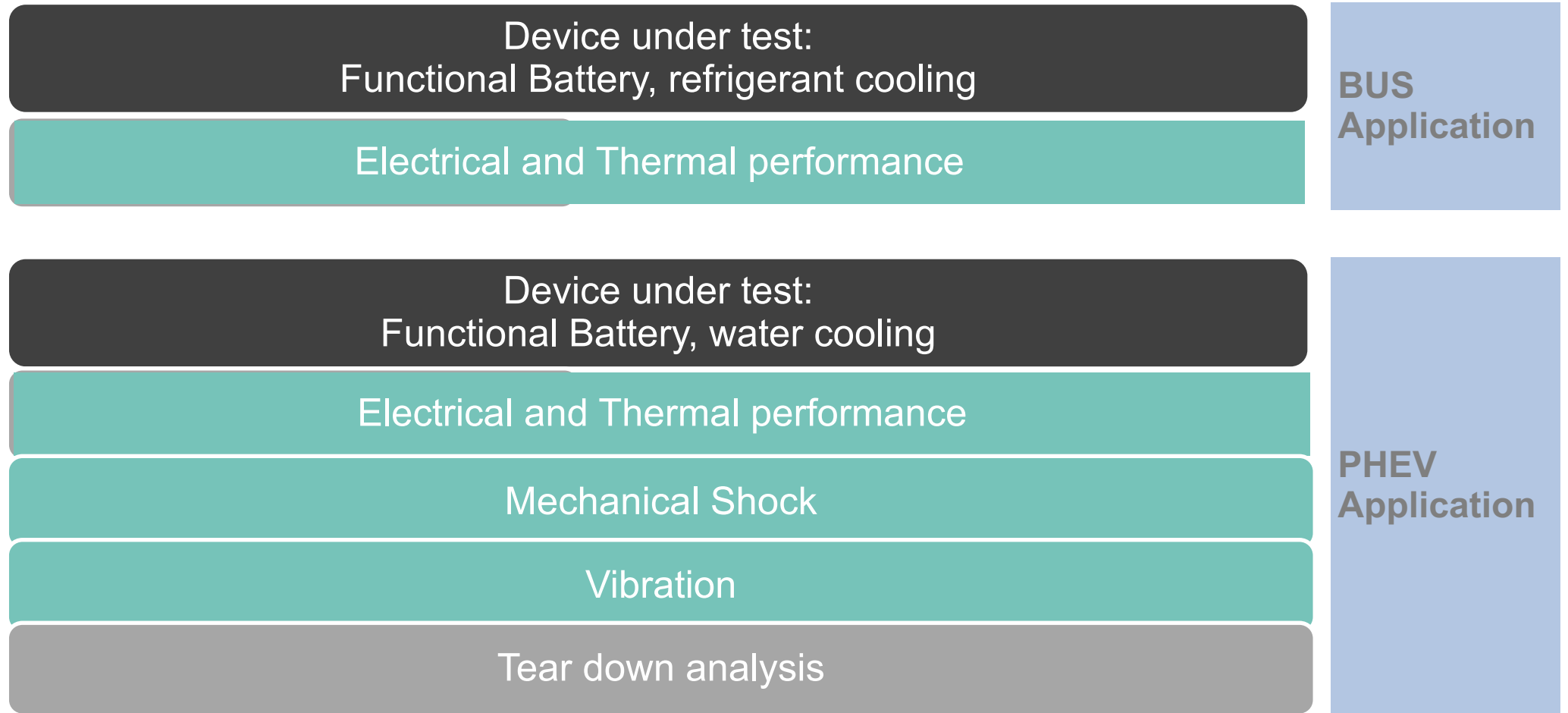
- multi-axial test rig (6 DOF)
- up to 200 Hz
- approximately 1.000 kg
- 250 kVA battery tester
- climatic chamber (-40°C to 80°C)



Second test line - Functional System



Second test line - Functional System



Thank you



Copyright ©

The content of this presentation has been produced under the EC contract 770019. It is the property of the GHOST consortium and shall not be distributed or reproduced and/or disclosed, in any form or by any means without formal approval of the GHOST Consortium.

The content of this presentation does not reflect the official opinion of the European Union. Responsibility for the information and views expressed in the presentation lies entirely with the author(s).

GHOST

ONLINE PUBLIC DEMONSTRATION

17th November 2020

Consortium



IVECO

TOYOTA



MOBILITY, LOGISTICS &
AUTOMOTIVE TECHNOLOGY
RESEARCH CENTRE



ikerlan



GHOST

This project has received funding from the European
Union's Horizon2020 Programme for research and
innovation under grant agreement No.770019.

