Final Event 24-25th of May 2022

Industrial feedback



Powerful Advanced N-Level Digital Architecture for models of electrified vehicles and their components

BLUWAYS Feedback on PANDA

Wim Vander Kuylen & Johan Lecoutere Bluways

- BLUWAYS





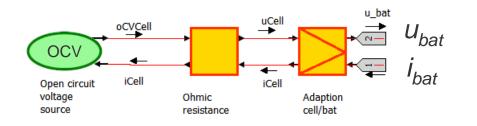
- 1. European project benefits
- 2. Bluways' responsibilities as a battery pack manufacturer
- 3. Bluways' software design approach in PANDA
- 4. Conclusion



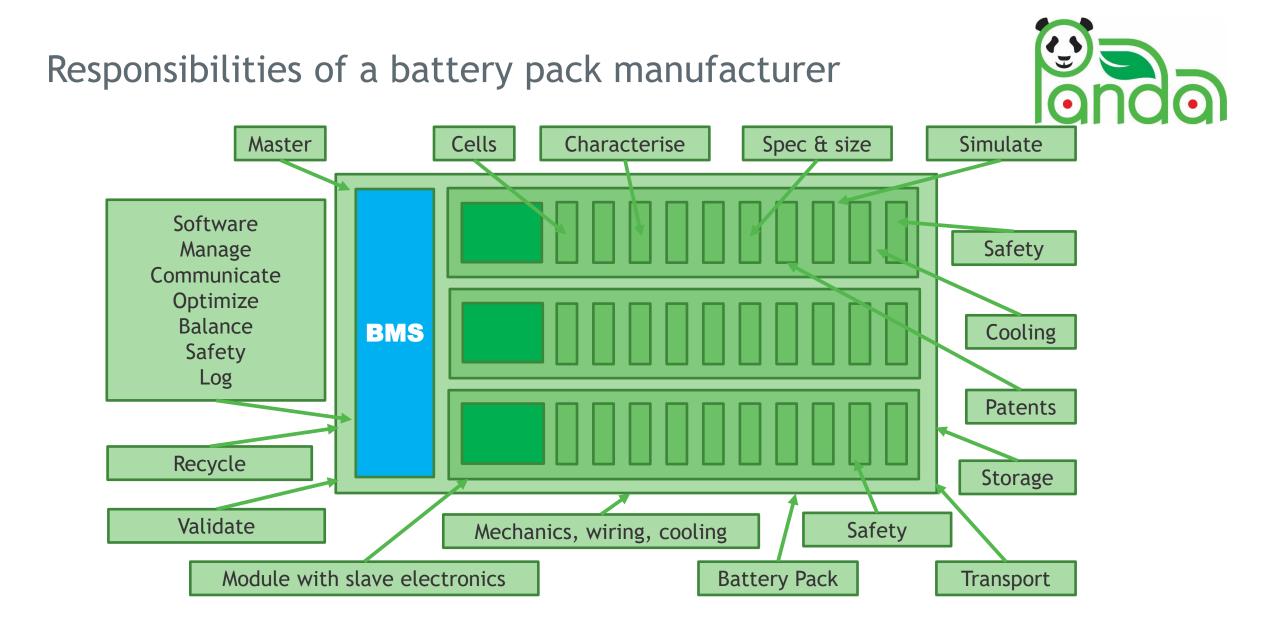
European project benefits



- ☑ As an industrial partner in PANDA, this project is an opportunity to:
 - Learn from academic partners in how to apply an EMR model to the design of a battery
 - Develop common methods with OEMs and suppliers
 - Share Knowledge and experience with other industrial partners
- ☑ A boost to be able to apply this extra knowledge in the design of a next generation battery
- To be a better supplier to our existing and future customers
- ◎ And therefore be able to grow in a more sustainable way and a better employer









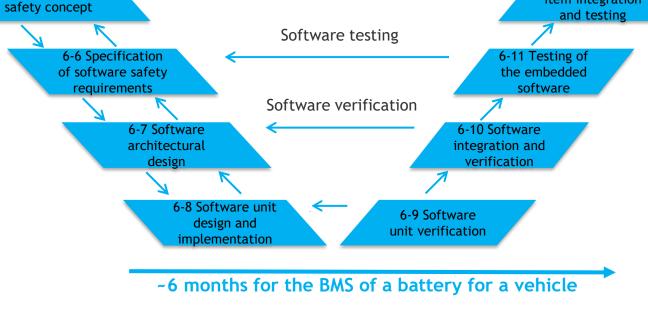
Bluways' software design approach in PANDA

Customer

specifications

4-6 Technical

- According to the ISO26262
 - to follow the main European approach: safety first
- To shorten the development time and effort of our customer
 - by showing the efficiency of using HIL testing instead of real testing in many cases.



System and item verification

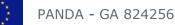


Product

delivery

4-7 System and

item integration



Conclusion



- ☺ The battery module was developed Bluways and validated.
 - I used for model validation by ULille and VUB
 - I used for HIL testing by ULille and VUB
- ☺ The battery model can be implemented in EMR
 - ☑ very good representation of the battery pack
 - creates good IP protection
- The EMR approach adds value to modeling and control design
- The cooperation between the academic and industrial partners generated a big success

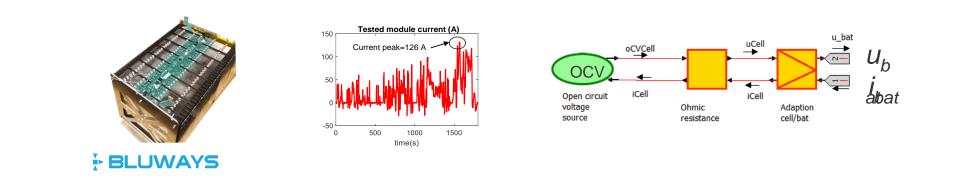






Thank for your attention!

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824256.