

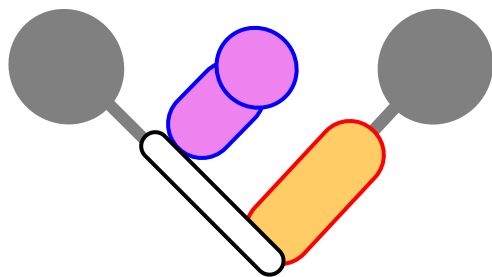
Final Event  
24-25<sup>th</sup> of May 2022



Powerful **A**dvanced **N**-Level **D**igital **A**rchitecture  
for models of electrified vehicles and their components

*University of Lille spin-off*

***ViSys** – **V**irtual prototypes for e-mobility **S**ystems*



**ViSys**

RELIABLE VIRTUAL PROTOTYPES

Abdoulaye Pam  
Florian Tournez  
Anatole Desreveaux  
(Alain Bouscayrol)

[www.project-panda.eu](http://www.project-panda.eu)



# The leaders of the spin-off



**Dr. Abdoulaye PAM**

PhD on HIL for HEV (ULille 2020)  
R&I Engineer @ SNCF



**Florian TOURNEZ**

PhD on HIL for xEVs  
(in progress)



**Dr. Anatole DESREVEAUX**

PhD on EV (ULille 2020)  
Post-doc @ Univ. Paris-Saclay



**Pr. Alain BOUSCAYROL**

L2EP – University of Lille  
Scientific Advisor

Contribution in

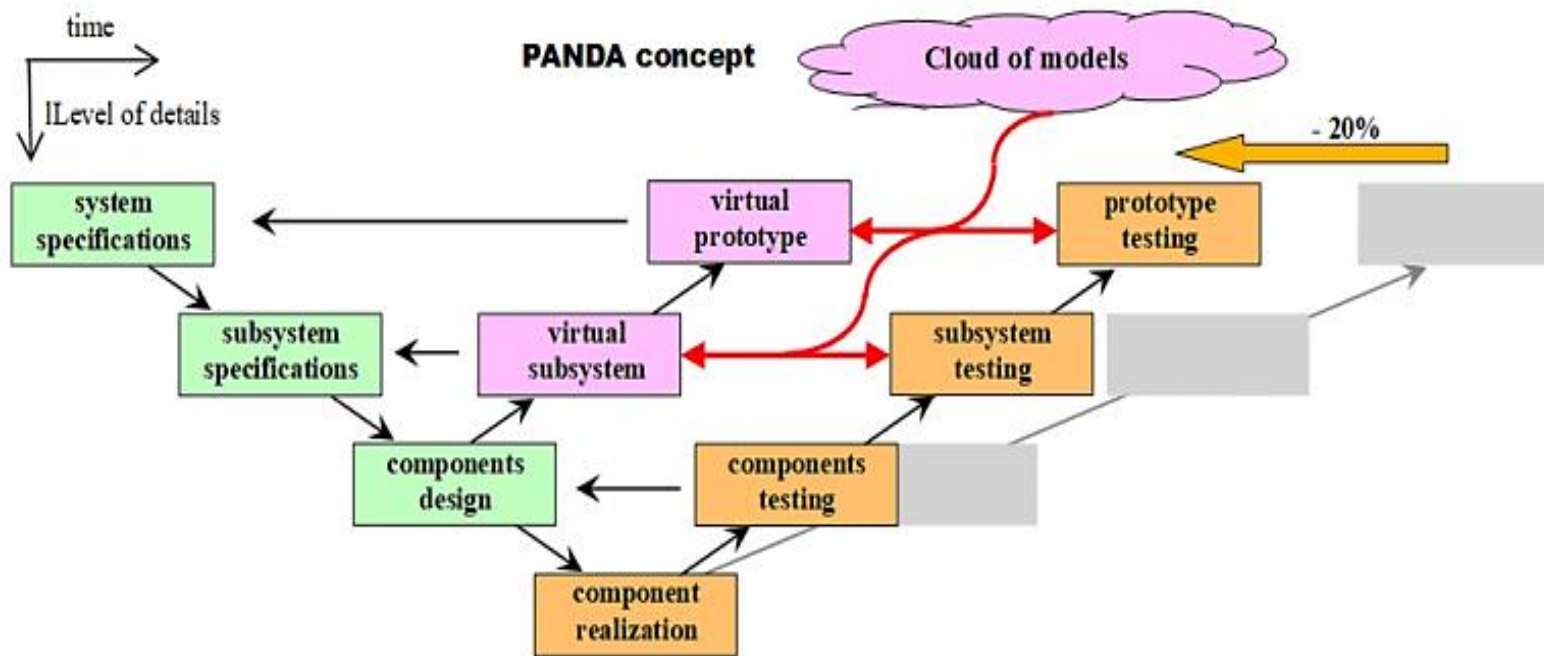


Contact us at [contact@visys.fr](mailto:contact@visys.fr)



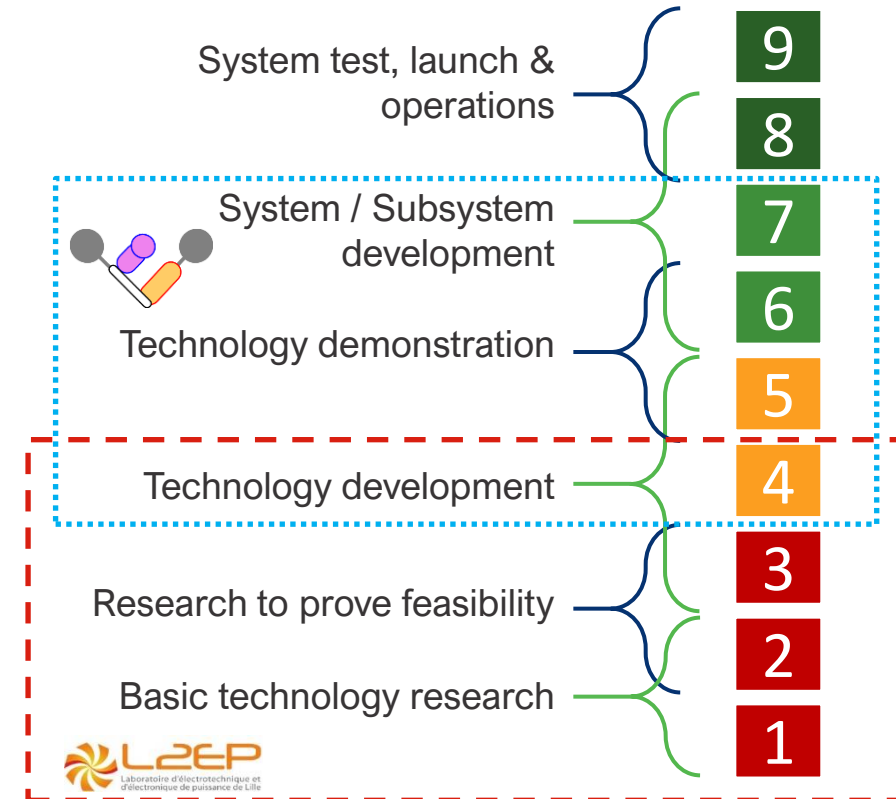
# Spin-off objective

- PANDA's methodology shown a reduction of the development time by **20%**
- However, the industry needs to adjust to the methodology



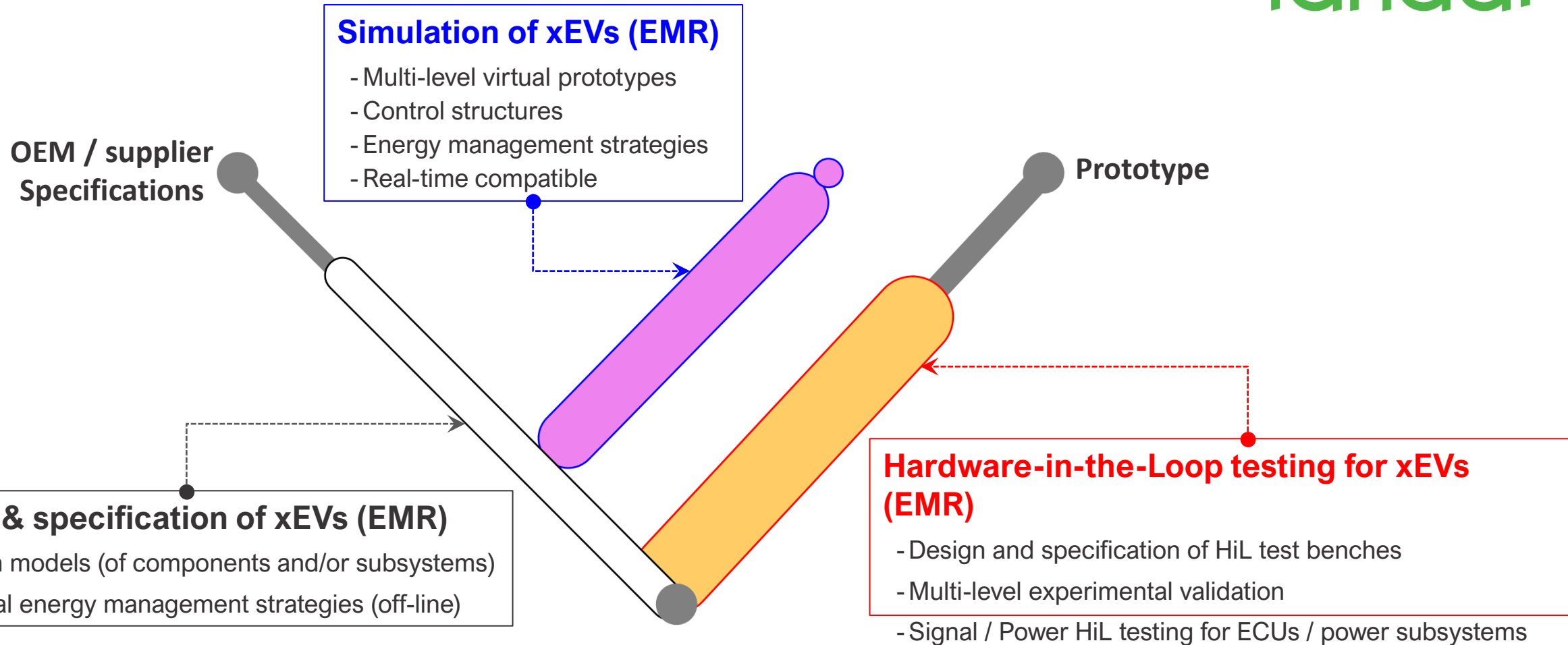
**=> PANDA = W cycle + EMR + cloud of models**

## Relationship with L2EP (TRL)



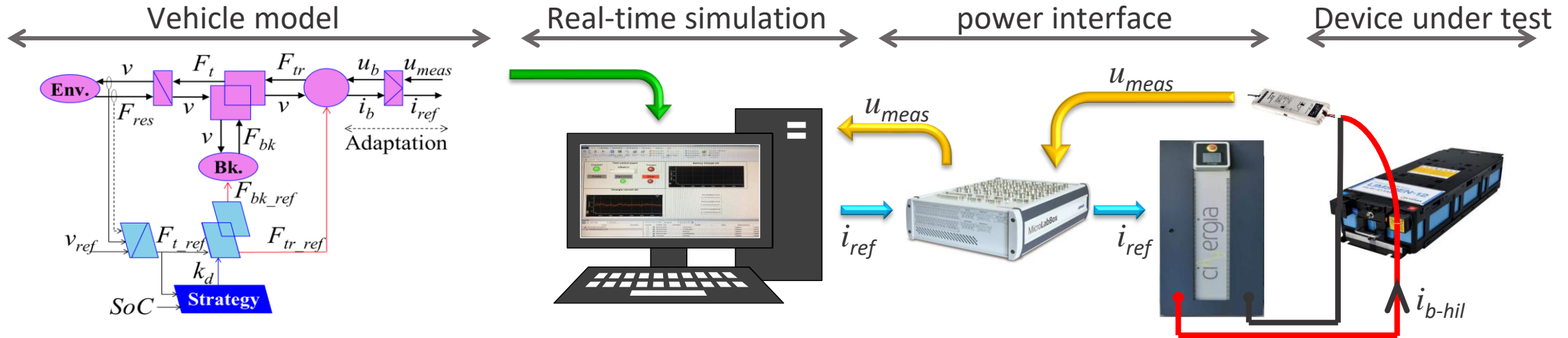
Our objective is to support companies in developing new e-mobility systems using the W-cycle and EMR

# We want to help OEMs & suppliers "adjust"

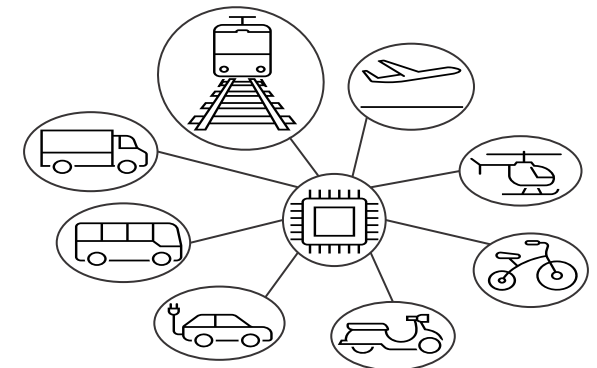


The combination of the W-cycle and EMR will help anticipate & solve problems → save time.

# What we produce for our clients

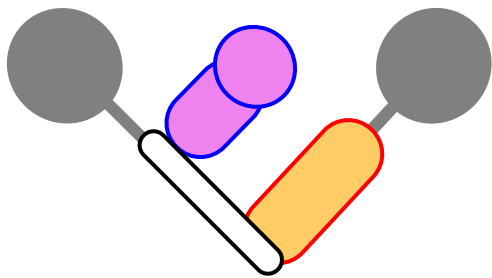


- ✓ No need for co-simulation
- ✓ Systematic interconnexion of our models
- ✓ Systematic development of control structures
- ✓ Smooth adaptation of simulations for HiL tests
- ✓ Reliable simulations to help prevent, quickly identify, and solve problems



We produce reliable virtual prototypes for real-time validation of EVs components / subsystems.





**ViSys**

RELIABLE VIRTUAL PROTOTYPES



# Thanks for your attention

Contact us at [contact@visys.fr](mailto:contact@visys.fr)



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