

EXPERT DISCUSSION FORUM

“CAN ELECTRONICS SENSE ITS OWN HEALTH?”

29 MARCH, 2018

ZWIJNAARDE

AGENDA

Time	Topic	Speaker
14h00	Welcome	Bart Vandevelde
14h05	How the world moves, step by step, from Fides/Mil (constant failure rate) towards Physics of Failure based life time predictions for electronic systems	Geert Willems
14h20	Data-driven system health monitoring	Elena Tsiorkova
14h35	State of the art on Prognostic Health Monitoring for Electronic Systems	Bart Vandevelde
14h50	Towards PHM self-awareness – share some experience from the mechanical world	Jeroen Firlefijn
15h05	Coffee Break	
15h25	Group Discussions	
16h05	Summary of group discussions	Moderators
16h30	Innovation goal defined in PHANTOM SBO project (submitted in 2017)	Walter Daems
16h45	Expectation from the industry for a strategic basic research (SBO) project focusing on near-failure sensing of electronics	
16h55	Next steps: invitation to IAB	Tom Tourwé

GROUP DISCUSSIONS

PROPOSED QUESTIONS

- What are the reliability challenges for your electronic systems?
- What would you be willing to sense on the electronic system? And why?
- In what phase would you get advantage of data analysis? For what purpose?
- What would your electronic system gain from the possibility of sensing an upcoming failure or analysis of the history before failure?