

from	until	duration	PROGRAM February 10th 2022	BY
08:30	08:40	10 min	OPENING - Welcome	prof.dr.ir. A.G. (André) Dorée (University of Twente / ASPARi)
08:40	09:10	30 min	Introduction - Position Paper <i>"What do we want / need in the paving industry in The Netherlands"</i>	ir. B. (Berwich) Sluer (Boskalis / ASPARi)
09:10	10:30	80 min	THEME 1: STANDARDISATION; "TOP-DOWN" OR "BOTTOM-UP" ?	dr. ir. S.R. Miller (University of Twente / ASPARi) Dr. D. (Darius) Sossdorf (VDMA)
			30 min Machines in Construction 4.0 (MiC 4.0) - What is MiC 4.0? - Why did the equipment-industry choose to set a standard? - How is this standard established? - How do contractors play a role in MiC 4.0? - How does the cooperation between equipment builders and contractors work? - What are the experiences with the users (contractors / clients)?	
			30 min Setting a Standard by the Department of Transportations (US, DOT) - Why did the joint DOT's choose to set a standard? - How is this standard established? - How do contractors and equipment-manufactures play a role in the standard? - How does the cooperation between equipment-manufactures and contractors work? - What are the experiences with the users (contractors / clients)?	
			20 min Discussion	
10:30	10:40	10 min	PAUSE	
10:40	11:40	60 min	THEMA 2: DIGITISATION OF THE PAVING INDUSTRY	prof.dr.ir. A.G. (André) Dorée (University of Twente / ASPARi) Norbert Mattivi Kevin Garcia (Trimble)
			20 min Machine Guidance and Big Data - Why is it essential to you that independent parties play an important role in the digitisation of the paving-chain? - What role can a machine-independent party play in the digitisation-process? - How do you deal with different systems/ontologies in the context of real time process control?	
			20 min Digital systems to improve operation / digital-native operators - Why is it essential to you that equipment-manufacturers play an important role in the digitisation of the paving-chain? - What role can a equipment-manufacturer play in the digitisation-process? - How do you deal with different systems/ontologies in the context of real time process control?	
11:40	11:50	10 min	20 min Discussion	Dr.-Ing. A.G (Axel) Mühlhausen (HAMM AG)
			PAUSE	
11:50	12:50	60 min	THEMA 3: OPEN SYSTEMS	dr. ir. F. Vahdatikhaki (University of Twente / ASPARi) Sönke Demuth (Dynapac)
			20 min Open Communication as a business strategy - Why are you going for open standards / open data? - What changed your mind? - What do you need from contractors and other equipment manufacturers?	
			20 min Demonstration linked systems - What do you want to achieve with linked standard systems? - Why are open systems essential for continued development? - What do you need from clients (DOT's), (other) contractors and other equipment-manufacturers?	
12:50	13:30	40 min	20 min Discussion	ir. D. (Denis) Makarov PDEng ir. B. (Berwich) Sluer (BOSKALIS / ASPARi)
			WRAP UP / APPOINTMENTS / HOMEWORK / FURTHER DEVELOPMENTS - What did we learn today? - Which of the themes or subjects needs further attention or study? - What can we agree to to speed things up? - Is it helpful or necessary to meet again? (when, who and how)?	