SMaRT

Sand Mitigation around Railway Tracks
www.smart-eid.eu

a H2020 / MSCA / ITN / EID project

Workshop / ESRs short secondment
Hitachi Rail STS Offices
Via Volvera 50
Piossasco (TO) - Italy
February 5th 2020

Oxford University, UK
Politecnico di Torino, IT
OptiFlow Company, FR

Handrail STS
Hitachi Rail STS

Astaldi S.p.A.
Reco – Salcef Group

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SMaRT Workshop / ESRs’ short secondment at Hitachi Rail STS

February 5th 2020
Via Volvera 50- 10045 Piossasco (TO) - ITALY

Agenda of the Workshop

Hitachi Rail STS meeting room

09:30 – 10:30 Hand shaking and welcome to participants
Claudio Mason, Principal Signaling Integrator Automation at Hitachi Rail STS
Maurizio Pichierri, Control Centers Integration & Advanced Services at Hitachi Rail STS

Overview of the SMaRT past activities: focused on science, addressed to industrial needs
Luca Bruno, SMaRT scientific coordinator

10:30 – 12:00 Technical short course: Fundamentals of Signalling and Transportation Systems along railway
First training unit. STS: devices and their Working Principles
Lecturer:
M. Bianchi - Senior Signaling Design Engineer at Hitachi Rail STS
M. Vercelli - Principal Commissioning Manager at Hitachi Rail STS

12:00 – 13.00 Technical short course: Fundamentals of Signalling and Transportation Systems along railway
Second training unit. STS: Lesson learned from Etihad Rail Stage 1, design requirements for forthcoming Etihad Rail Stage 2
Lecturer:
F. Giachino - Senior Signaling Design Engineer at Hitachi Rail STS
M. Resta - Senior Signaling Design Engineer at Hitachi Rail STS

13:00 – 14.00 Lunch break

14.00 – 15.00 ESRs’ short presentations on current and forthcoming R&D activities
• Conceptual design of Sand Mitigation Measures (SMM) for STS devices and other point-wise railway equipment (e.g. turnouts) – Speaker: Marko Horvat
• Preliminary performance assessment of the SMM by means of computational simulations - Speaker: Roberto Nuca
• Final performance assessment of the SMM by means of field tests - Speaker: Ciaran Nash

15.00 – 17.00 Open Discussion of the joint working team SMaRT – Hitachi Rail STS
Shared R&D perspectives and development lines
Specialists at Hitachi Rail STS:
  Claudio Mason, Principal Signaling Integrator Automation
  Maurizio Pichierri, Control Centers Integration & Advanced Services
  M. Bianchi - Senior Signaling Design Engineer
  M. Vercelli - Principal Commissioning Manager
  F. Giachino - Senior Signaling Design Engineer
  M. Resta - Senior Signaling Design Engineer

SMaRT Early Stage Researchers attending the Technical Short Course:
  Marko Horvat (ESR1) – Politecnico di Torino
  Roberto Nuca (ESR2) – Optiflow Company
  Ciaran Nash (ESR3) – University of Oxford

SMaRT Tutors attending the Workshop:
  Luca Bruno – Politecnico di Torino
  Luigi Preziosi – Politecnico di Torino
  Nicolas Coste – Optiflow

SMaRT scientific staff members attending the Workshop:
  Lorenzo Raffaele – Politecnico di Torino
  Andrea Lo Giudice – Optiflow
SMaRT Workshop at Hitachi Rail STS. Hitachi Offices in Turin

SMaRT Workshop at Hitachi Rail STS. Tour de Table (counterclockwise direction): L. Bruno (Politecnico di Torino, standing), M. Pichierri, M. Resta, M. Bianchi, M. Vercelli, F. Giachino, C. Mason (Hitachi Rail STS), L. Raffaele, L. Preziosi (Politecnico di Torino), A. Lo Giudice (Optiflow), R. Nuca (Optiflow, behind the camera), C. Nash (University of Oxford), N. Coste (Optiflow), M. Horvat (Politecnico di Torino)
SMaRT Workshop at Hitachi Rail STS.
Technical short course, first training unit. STS: devices and their Working Principles
Lecturer at the white board: M. Bianchi

SMaRT Workshop at Hitachi Rail STS.
Technical short course, second training unit. Lesson learned from Etihad Rail Stage 1, design requirements for forthcoming Etihad Rail Stage 2