HACKTRAIN
4.0 CONFERENCE

INNOVATING THE FUTURE:

Disrupting Rail from the Outside In

Inmarsat, 99 City Road
London, EC1Y 1BJ

24th November 2017

conference.hacktrain.com

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PROGRAMME

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8:30 - 9:30	**REGISTRATION & BREAKFAST**
9:30 - 9:45	**INTRODUCTION**

RIVER TAMOOR BAIG
CEO, Hack Partners

9:45 - 9:50	**SURV.AI**

ULRICH BOULON
Surv.AI

THE HERE AND NOW

09:50 - 10:00	**OPENING KEYNOTE**

PETER WILKINSON
Managing Director, Passenger Services, Department for Transport

10:00 - 10:15	**CREATING A CULTURE OF INNOVATION**

MARK HOLT
CTO, Trainline

10:20 - 10:50

Panel Discussion:
CREATING A CULTURE OF INNOVATION

Participants will discuss how innovation can be facilitated so that organisations can establish the necessary culture required of disruption. Speakers will also talk about the role that regulation plays in encouraging or obstructing change and more specifically about how new data technologies could reimagine UK transport.

MODERATOR:

MAX GURVITS
Director for Cross Border Angels

PANELISTS:

STEVE PYER
General Manager, Mobike

TOM EWING
Principal Data Scientist, Department for Transport

HEINZ UPHOFF
Head of Account Management for Passenger Transport, DB

DAVE SLOCOMBE
Product Director, Trainline

DIEGO DIAZ
Director, SNCF International

10:55 - 11:10

INVESTING IN THE FUTURE

Technologies such as AI & Autonomous Vehicles may sound a long way off, yet given the long timescales of rail vehicles and infrastructure these technologies will have profound impacts on infrastructure being designed and financed now. What are the main drivers of future transportation? How will technology change the way we travel? What do we need to do today to maximise the benefits, and minimise the disruption, caused by future changes facing the industry?

MALCOLM BROWN
Chief Executive Officer, Angel Trains

PROGRAMME

11:15 - 11:35

MODERN EUROPEAN RAILWAY CYBER SECURITY ISSUES

To what extent has the network been compromised? Although hackers have infiltrated networks - including rail infrastructure itself - these breaches have been exploratory so far, rather than disruptive. Attackers are inside critical infrastructure and can access, monitor and collect intelligence but they are not actively trying to create chaos. Could this be because they are not organised enough? What can we expect when they do assimilate and what elements of the rail network are most vulnerable to attack?

MATT SIMPSON
BAE Systems

11:40 - 12:10

Panel Discussion:
CYBERSECURITY - ASSESSING THE THREAT POSED BY THE INTERNET OF THINGS

As more devices are connected to the internet, digital attacks are leading to real world consequences. Connected devices often lack basic security protection to ward off hackers and are especially vulnerable to attack. Is increased investment in IoT the answer? Considering that investment is expected to increase five-fold over the next five years as adoption of these devices picks up, is a solution under way?

MODERATOR:

MATT SIMPSON
Head of Transport Security, BAE Systems

PANELISTS:

CHRIS MOYER
Global Chief Technologist, DXC Technology

PAUL WATTS
CISO, Network Rail

COLIN BROWN
Digital Railway Principal Architect and Security Lead, Network Rail

12:20 - 13:20

LUNCH

REMY BERTHOU
CIO, SNCF Reseau

THE NOT SO DISTANT FUTURE

13:20 - 13:40

MACHINE LEARNING & ARTIFICIAL INTELLIGENCE IN INFRASTRUCTURE

JULIEN SIMON
AWS Evangelist

13:40 - 14:05

RIGHT HERE, RIGHT NOW, THE NEW CUSTOMER NEVER WAITS

PAUL PAPADIMITRIOU
CEO, Intelligencr

14:05 - 14:20

HYPERLOOP'S CULTURE OF INNOVATION AND BEATING THE ODDS

PAUL SMITH
Global Field Operations Manager, Hyperloop One

PROGRAMME

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THE FUTURE PROPHESIED

14:25 - 14:35

Presentation:
BARRIERS TO PRODUCT APPROVAL

HAIDER KHOKHAR
Reroo

14:35 - 15:00

Presentation:
CAN WE SAVE £80 MILLION BY ENABLING MULTI-MODAL VIA THE BLOCKCHAIN?

A high level overview of blockchain technology and its application in the transport industry, covering:

- The technical impact of transport privatisation
- The origins of blockchain technology
- How we can use blockchain technology to solve issues in the passenger transport industry

LINUS NORTON
Blockchain Specialist

14:25 - 14:55

Panel Discussion:
WHAT DOES THE FUTURE INFRASTRUCTURE LOOK LIKE?

- How does Digital Railway impact the industry and what are the tangible outcomes which passengers can expect.
- How will the industry get more real time information about rail asset health in order to resolve issues before they cause delays.
- How will rail infrastructure change in order to address issues pertaining to more extreme weather conditions. Snow, leaves and heat have all proven to be pain points in this country.

MODERATOR:

APURVA SINHA
Head of Innovation and Information Governance, Network Rail

PANELISTS:

DAVID WABOSO
Managing Director, Digital Railway

ANDREW CONWAY
Director of Engineering, BAI Communicatons

STEVE WHITE
4LM Implementation Director, TfL

JEAN-JACQUES THOMAS,
Chief Innovation Officer, SNCF

14:25 - 14:55

Panel Discussion:
THE FUTURE OF ROLLING STOCK

- What can passengers expect in terms of on-board experience from the next generation of rolling stock?
- How will rolling stock evolve to keep pace with new transport projects like autonomous buses or cars and with evolving work patterns?
- How do you balance increasing capacity with providing passengers a personalised experience?
- How would you create timeless designs so that train designs can last for 40 years versus car designs which last 5 years.
- How do you make trains more accessible?

MODERATOR:

JAMES BROWN
Data and Performance Engineer, Angel Trains

PANELISTS:

SENIOR REPRESENTATIVE
Angel Trains

PHILIPPE DE LAHARPE
Project Chief of Telediagnostics rolling stock, SNCF

1 SLOT RESERVED
Bombadier

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15:00 - 15:35

Panel Discussion:
DEFINING THE NEXT ERA OF MULTIMODAL TRANSPORT

- Have you thought about integrating your transportation system with other modes of transport?
- If yes, what's been preventing you from doing it? If No, why not?
- What do train operators need to do to allow your tech to integrate with theirs?
- How important do you think multimodal is when taking into consideration the rise of megacities and the increasing demand for transport.

MODERATOR:

CARMEL ROCHE
Senior Director of Product & Business Development, SilverRail

PANELISTS:

Go-Ahead/GTR

LILLI MATSON
Director of Transport Strategy, TfL

ANDY FARMER
Executive Director for Strategy, ORM

JAMES TAYLOR
Managing Director, DriveNow UK

15:00 - 15:35

Panel Discussion:
WHAT SUPPORT DO STARTUPS NEED TO SUCCEED IN TRANSPORT?

- What is a startup?
- Creating a successful startup - corporate collaboration.
- Aligning different methodologies, priorities and culture.
- Securing funding for pilots.
- Most common challenges encountered during procurement.

MODERATOR:

TANJA KUFNER
Managing Director, Startupbootcamp, Smart Transportation and Energy Berlin

PANELISTS:

MARIUS PIGULLA
New Digital Business, Deutsche Bahn and Beyond 1435

JOSHUA PINES
Co-Founder, Sirenum

RIKESH SHAH
Head of Commercial Innovation, Transport for London

ADAM STEAD
Founder, Apollo Rail

15:00 - 15:35

Sponsor Workshop
ROLLING STOCK: DESIGN THE FUTURE TRAIN

Once the task has been set, participants will have 40 minutes to work on the project and 10 minutes to present their findings at the end.

PROGRAMME

15:40 - 15:50 TEA BREAK

15:50 - 16:10 THE POWER OF DATA & AI

STEVE KING
CEO, Blackswan

16:10 - 16:15 STARTUP PITCH

JAMES ZORAB
Founder, Rail Buddy

16:15 - 16:35 THE HACK TRAIN
INCUBATION FUND

TOBY STONE
Chairman, Hack Partners

16:40 - 16:55 CLOSING REMARKS

RIVER TAMOOR BAIG
CEO, Hack Partners

17:00 - 18:00 DRINKS RECEPTION

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