

A blurred background photograph showing three people—two women and one man—looking intently at a laptop screen. The laptop has an Apple logo on its back. A small carton of Vivid Matcha Green Tea is visible on the desk next to the laptop.

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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BAE SYSTEMS
INSPIRED WORK



Go-Ahead



PARTNERS



PROGRAMME



8:30 - 9:30

REGISTRATION & BREAKFAST

9:30 - 9:45

INTRODUCTION

RIVER TAMOOR BAIG
CEO, Hack Partners

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 CEE, CIS and MENA, 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 Corporate Direction

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? And 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?

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?

12:20 - 13:20

LUNCH

THE NOT SO DISTANT FUTURE

13:20 - 14:05

FUTURE OF INFRASTRUCTURE

14:05 - 14:20

HYPERLOOP'S CULTURE OF INNOVATION AND BEATING THE ODDS

MATT SIMPSON
BAE Systems

MODERATOR:
1 SLOT RESERVED FOR NCSC OR DCMS

PANELISTS:
MATT SIMPSON
Head of Transport Security,
BAE Systems

PAUL WATTS
CISO, Network Rail

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

REMY BERTHOU
CIO, SNCF Reseau

PAUL SMITH
Global Field Operations
Manager, Hyperloop One

PROGRAMME



THE FUTURE PROPHESIED

14:25 - 14:55

Presentation:
**ENABLING
MULTIMODAL
VIA BLOCKCHAIN
TECHNOLOGY**

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

**SENIOR
REPRESENTATIVE**
Network Rail

ANDREW CONWAY
Director of Engineering, BAI Communications

1 PANEL SLOT
TfL

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

**SENIOR
REPRESENTATIVE**
Rolling Stock Design company

**SENIOR
REPRESENTATIVE**
DfT

PHILIPPE DE LAHARPE
Project Chief of Telediagnostics rolling stock, SNCF

PROGRAMME



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:

JUSTIN STENNER
Head of Technology,
Heathrow Express

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

LONDON MIDLANDS LABS

ADAM STEAD
Founder, Apollo RailDriveNow UK

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

16:15 - 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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