



# INNOVATING THE FUTURE:

**Disrupting Rail  
from the Outside In**

**[conference.hacktrain.com](http://conference.hacktrain.com)**

# PROGRAMME

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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?

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:**  
???  
Principal Data Scientist,  
Department for Transport

**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  
**1 PANEL SLOT**  
NCSC or DCMS

**PAUL SMITH**  
Global Field Operations  
Manager, Hyperloop One

# PROGRAMME

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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

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:*

**TOM EWING**

Principal Data Scientist, Department for Transport

*PANELISTS:*

**MAX GURVITS**

Director for CEE, CIS and MENA, Cross Border Angels

**1 PANEL SLOT**

Deutsche Bahn

**1 PANEL SLOT**

Trainline

10:55 - 11:10

## THE FUTURE OF ROLLING STOCK

**ANGEL TRAINS**

# PROGRAMME

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## THE FUTURE PROPHESIED

14:25 - 14:55

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

- Different acceleration model profiles
- 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 Rail

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:

**SENIOR  
REPRESENTATIVE**  
Network Rail

**1 PANEL SLOT**  
BAI Communications

**1 PANEL SLOT**  
Digital Railway

**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 hyperloop, maglev and boom high speed jets?
- What would rolling stock companies be able to create for existing infrastructure if money were no object?

#### MODERATOR:

**JAMES BROWN**  
Data and Performance  
Engineer, Angel Trains

#### PANELISTS:

**SENIOR  
REPRESENTATIVE**  
Angel Trains

**SENIOR  
REPRESENTATIVE**  
Rolling Stock Design  
company

**SENIOR  
REPRESENTATIVE**  
DfT

**SENIOR  
REPRESENTATIVE**  
SNCF

# PROGRAMME

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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.

15:00 - 15:35

## Sponsor Workshop RESERVED FOR NETWORK RAIL

In a perfect world of high-tech digital infrastructure, how could you encourage more multi-modal travel?

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.

### 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

#### STEVE PYER

General Manager, Mobike

#### JAMES TAYLOR

Managing Director,  
DriveNow UK

# PROGRAMME

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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

SPONSORED BY RICARDO