Who Are we

Steve Quantick
Strategic Business Development Director – Connected Places Catapult
Catapults – a force for innovation and growth

A network of world leading centres designed to transform and accelerate the UKs capability for innovation and future economic growth.
The Connected Places Catapult role

To drive jobs and growth the Connected Places Catapult:

- **Increases the supply of proven products and services that meet market demand**
  by helping companies to commercialize innovation through demonstration, testing and market exposure.

- **Identifies new areas for market making and disruption**
  by stimulating richer engagement between academics, SMEs and businesses.

- **Boosts demand for innovation from intelligent customers**
  by providing joined up support to public authorities and industry

Is part of

- **A network of 9 world leading Independent and neutral Catapult centres**
  designed to transform and accelerate the UK’s capability for innovation and future economic growth.
IM ACCELERATOR
SUPPORTING START-UPS TO DRIVE INNOVATION

Powered by

Supported by

July-December 2019 Cohort

lifeshare travel happy
parknav FOR BUSINESS
alchera TECHNOLOGIES
grid™
briteyellow®
OPENCAPACITY
Xtelligent
podaris
minicabit
eventually everything connects
Tomorrow’s Journey
PROTEAN
Level crossings
Download the guide, understand the warnings

There are many different types of level crossings and protection measures in place across Britain’s rail network. Do please plan ahead, be prepared and pay extra care and attention on and around level crossings.

For more information about using them safely and to understand the different warning signs and signals, download our free level crossings user guide.

It’s available in accessible and BSL formats at networkrail.co.uk/levelcrossings

For BSL and audio content, download ‘Signly Network Rail’ for free from the Apple App Store or Google Play and point your device at this leaflet.
Calvium is a leading digital technology agency combining expertise in experience design, software engineering and mobile innovation.

Richard Hull, Executive Chairman
richard@calvium.com
People, place and technology

Calvium are recognised as specialists in designing and delivering stellar location-based digital solutions for a wealth of leading clients.
Our clients include

- Battersea Power Station
- The Guardian
- Bristol Airport
- Bristol City Council
- City of London
- Tower Bridge
- University of Exeter
- National Trust
- Yodel
- Historic Royal Palaces
- National Theatre
NavSta

Helping passengers with invisible impairments travel independently through train stations

Partners

CATAPULT
Connected Places

open.

Transport for London

Innovate UK
Demonstrating Tomorrow’s Stations

Get off the escalator. Turn sharp right to get to Jubilee Westbound (Platform 1).
Through inclusive design and technological innovation, NavSta will be an integral part of the travelling public’s wayfinding toolkit.
BlockDox Patented Technology on Trains, Platforms & Stations

Real-time passenger footfall analytics

- Optimise boarding & alighting times
- Manage disruption & capacity
- Plan future station design & timetabling
- Understand passenger numbers
- Mitigate & manage risks
- Manage revenue protection

GDPR Compliant!!

Data Analytics to Help Shape, Manage & Deliver Smarter Stations
Technology Vendors

Civil Engineers

Transport Planners

Neighbours

Regulators

Even more activist groups

Activist groups

Environmental Engineers

Transport Operators

Policymakers

Property Developers

Urban Planners

Planning

Implementation
Infrastructure productivity: How to save $1 trillion a year
THE PROJECT LIFE CYCLE

PHASE

- DISCOVERY PHASE
- DEVELOPMENT PHASE
- DELIVERY PHASE

STAGE

- CONCEPT STAGE
- FEASIBILITY STAGE
- REQUIREMENTS STAGE
- STRATEGY STAGE
- DEFINITION STAGE
- IMPLEMENTATION STAGE
- CLOSING STAGE
- OPERATIONAL READINESS STAGE
- INITIAL OPERATIONS STAGE

years to decades
EARLY-STAGE FEASIBILITY

DETAILED PLANNING & DESIGN

ENGINEERING

CONSTRUCTION

OPERATIONS

Excel

PUBLIC HEARING

AUTODESK CIVIL3D

AUTODESK BIM 360

FieldSaword

AUTODESK REVIT

AUTODESK

GRAPHISOFT

ARCHICAD

PTV VISSIM

Esri ArcGIS

the mind of movement

Bentley MicroStation

Hexagon Geospatial

SketchUp

PlanGrid

Procure

AssetPanda

BaseStone

Jolt
EARLY-STAGE FEASIBILITY

DETAILED PLANNING & DESIGN

ENGINEERING

CONSTRUCTION

OPERATIONS
Stakeholders

Visualisation & Engagement

Planning & Management

Parametric Models

3rd-Party Desktop

3rd-Party Cloud

APIs

APIs

Podaris

Immense

Urban Intelligence

LandInsight
EARLY-STAGE FEASIBILITY • DETAILED PLANNING & DESIGN • ENGINEERING • CONSTRUCTION • OPERATIONS

making transport & development planning more accurate • agile • inclusive • cost-effective
The team

Nathan Koren (UK)
Founder / CEO
BsD Architecture (ASU, 2001)
MBA (Oxford, 2008)
3X co-founder
Expert in transport innovation

Devon Barrett (UK)
Co-founder / CTO
Ben Woodhouse (UK)
Technical Writer
Felipe Sabino (BR)
GIS Developer
Thank you!

Devon@Podaris.com
MIXED REALITY INDOOR MAPPING TO ENABLE SMART STATIONS
A PLATFORM FOR BUILDING AR-VR WAYFINDING SOLUTION
ON BOARD ENTERTAINMENT THROUGH AR-VR

Live streaming?  Virtual retail?  Immersive experience?  Live streaming?
LOCATION-BASED MESSAGING AND JOURNEY TRACKING
LOCATION INSIGHTS
Thank you

Fredi Nonyelu
Chief Executive

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What is a testbed?

- A proving ground to **develop, test and showcase** the best new technologies that solve real challenges
- A place to **collaborate** with companies, academics and users
- **Reduce the risk** and the up-front investments in innovations
- Deployment at difference scales to test products or services before investing in full-scale development
- **Verify and validate** early in development, enabling new business opportunities and knowledge to develop
- A place to **inspire** others with sustainable, innovative solutions

“By improving trains, tracks and stations right across the country, we will deliver more reliable, frequent and comfortable journeys for passengers and better connect our communities”
Rail Minister, Andrew Jones