

# RDG Prototype Ramp Project



## The Project Team



Micky Ball



Michael Addlington



Neil Ovenden



Sharon Forbes

## The story so far...



### 1 THE PROBLEM

July 2016

20 to 25 different ramps currently on the rail network – cumbersome, heavy, take time to deploy.



### 2 THE IDEA

August 2016

Focus groups: reduce anxiety, accidents and dwell time - better experience for customers and staff - 'create a new prototype ramp'.

#### Feedback from focus groups

- "Existing ramps too steep"
- "Struggle to stay on ramp"
- "Need to feel confident when using ramps"
- "Needs to be safe and consistent"



### 3 THE TEAM

October 2016

Making the idea a reality: Micky Ball, Michael Adlington, Neil Ovenden, Sharon Forbes.



### 4 THE PITCH

October 2016

Micky Ball and Michael Adlington pitched idea at UIS event (unlocking information systems).



### 5 PARTNERSHIP - CECENCE

December 2016

RDG partner with Cecence – specialists in engineering innovation – who carry out research within the industry, look at all the compliance issues and create a fresh approach.



### 6 INDUSTRY ENDORSEMENT

August 2017

The team presents to industry PTSRG (People on Trains and Stations Risk Group) the ramp concept gets PTSRG endorsement.



### 7 THE DESIGN AND PROTOTYPE

September 2017

Cecence brings the ramp to life – creating a workable prototype.



### 8 UNVEILING

November 2017

One year on, Micky and Michael unveiled the new prototype ramp at UIS event.



### 9 NEXT STEPS

November 2017

Working with industry partners – train companies and Network Rail – trial the new RDG prototype ramp across the network.

## KEY INNOVATIONS

### Lighter, lower, longer

Creating a better experience for customers and staff

The **new RDG prototype ramp**, utilises composite materials, making it around 25% **lighter – easier to use**, the angle it sits at will be 6.6 degrees, a reduction of 25% - **reducing anxiety for users**, will extend from 1,600mm to 2,000mm – **longer and versatile, can fit 90% of train/platform combinations, significantly reducing the number of ramps currently required**, has wheels and is easy to store – **less restrictive**, is built to last – **long term cost savings**.

Rail Delivery Group



**Please note: Materials** – this is a prototype ramp and has a combination of aluminium and composite materials. If and when we go to full production we expect to increase the amount of composite materials. This will give a corresponding weight saving.