PASSION FOR TECHNOLOGY
APPETITE FOR CHANGE

CHROME ANGEL SOLUTIONS

In collaboration with

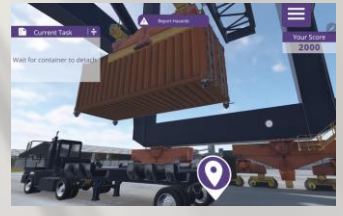
TOTEM learning

CATAPULT Connected Places

PORT SKILLS & SAFETY
IMPROVING STANDARDS THROUGH COLLABORATION

VR Simulation Serious Games for Ports

Proof of Concept

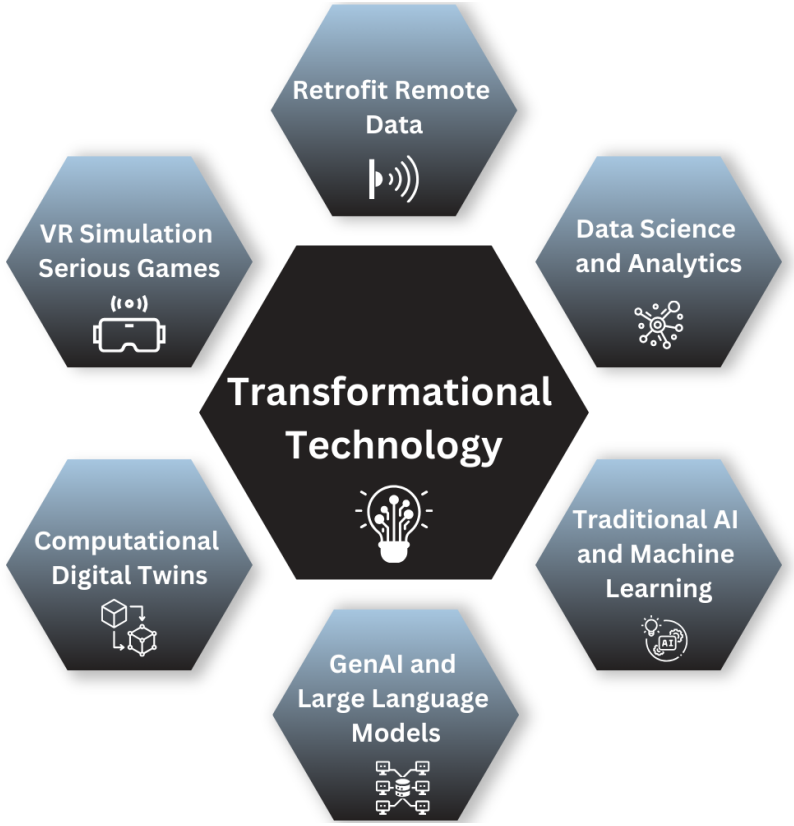


Strictly Confidential

CHROME ANGEL SOLUTIONS

founded 2006

- Dedicated to implementing transformational technology for Railways, Maritime & other Asset Intensive Industries
- Making a significant measurable difference to asset operation and maintenance:
  - improving customer experience
  - Improving performance/reducing costs
  - enhancing safety and security
- Through collaborating with market leading specialist technology partners
  - R&D: built on £2m+ of grant innovation funding & industry collaboration



TOTEM learning

UKRI Innovate UK | HM Government | CATAPULT Connected Places

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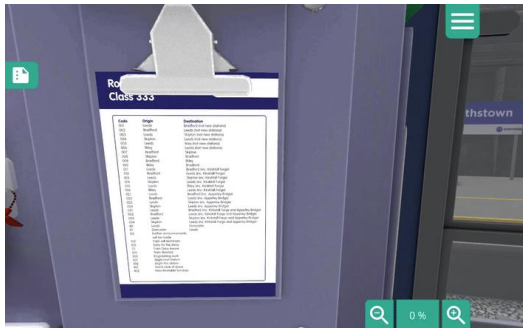
We build immersive interactive learning experiences with

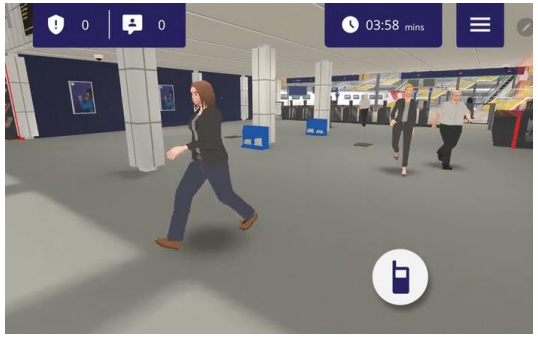
VR Simulation Serious Games

Operation

Maintenance



Safety & Security



Customer Experience

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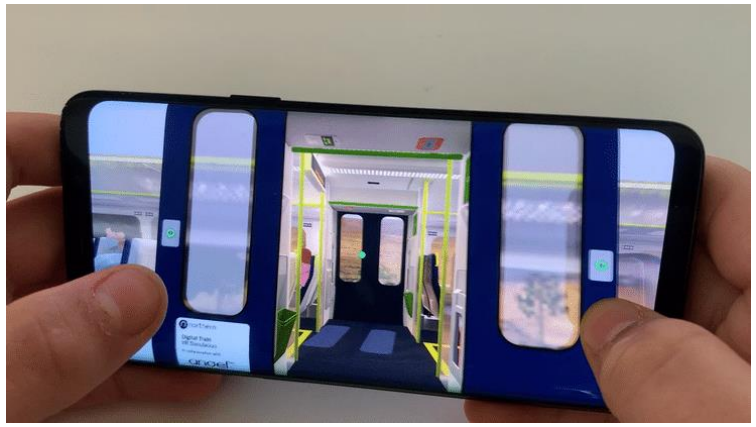
built on the world's leading games platform

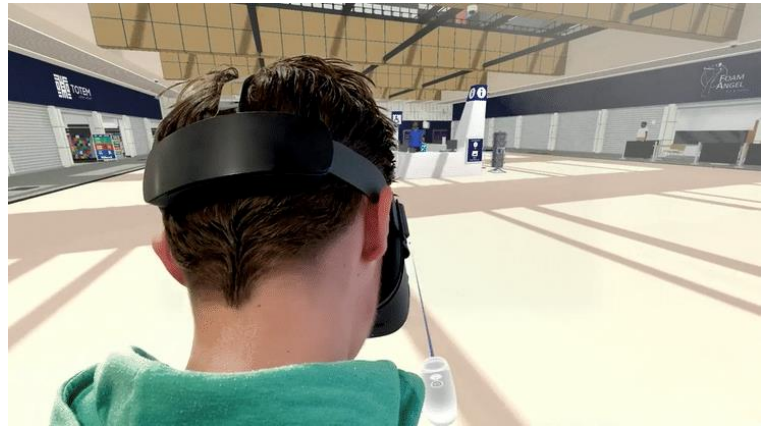
Made with unity

deployed at scale in app stores

iOS android

on a wide range of mobile devices, desktops and headsets





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The Laws of Learning

- The Law of Autonomy – active, choice, empathy
- The Law of Intensity – human memory and attention is quite poor
- The Law of Reinforcement – core loops and messages
- The Law of Effect – feel something

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Operator Training & Assessment

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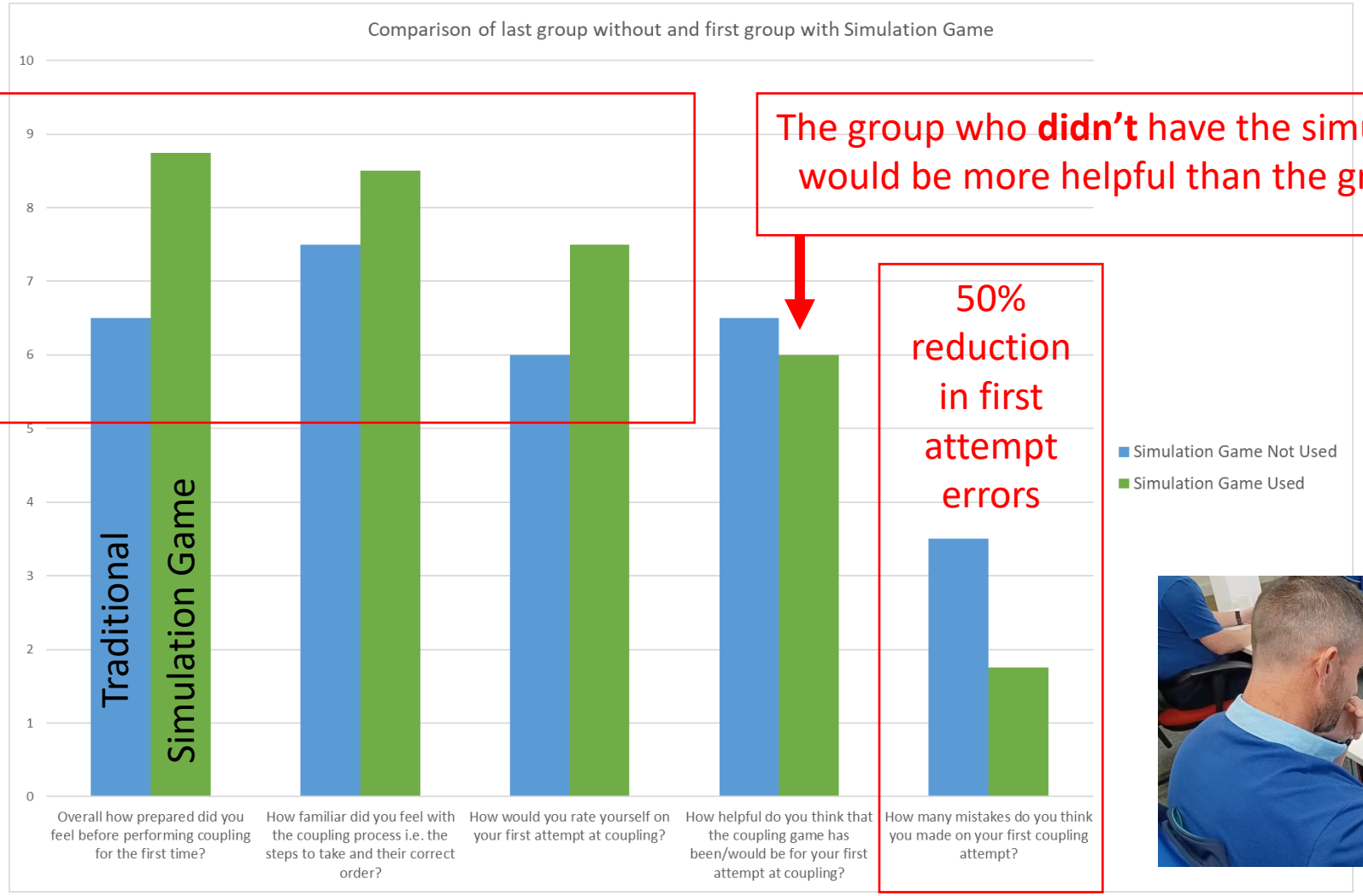
50% reduction in errors on first real world attempt

Significant Increase in confidence and knowledge



The group who **didn't** have the simulation thought it would be more helpful than the group who did…..

50% reduction in first attempt errors

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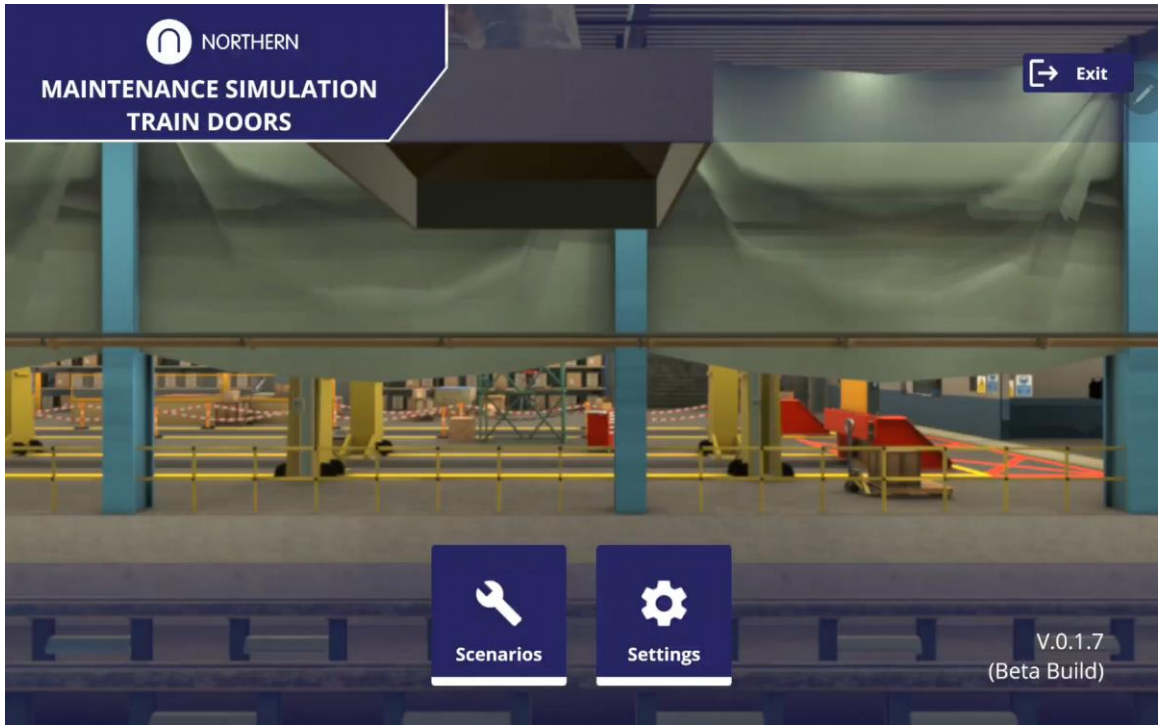
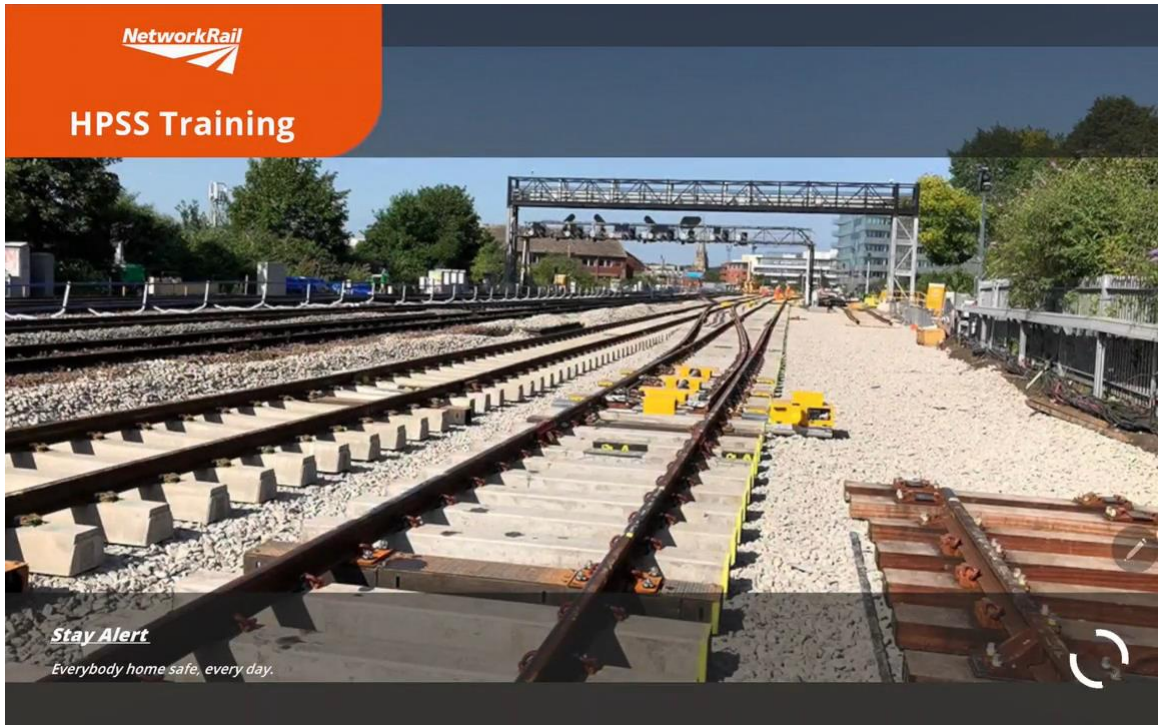
Installation, Maintenance and Fault Finding





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Directly transferrable to ports

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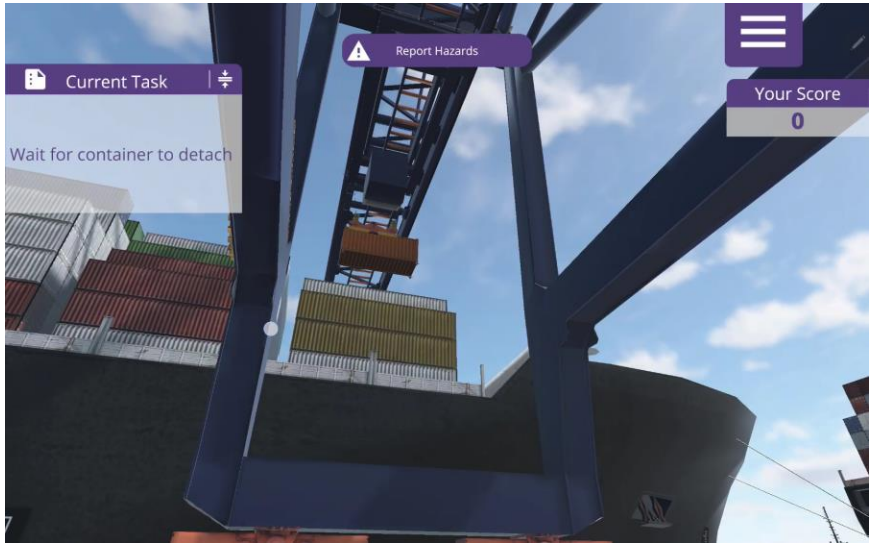
Serious Games. Serious Benefits.

If you need people to consistently do “the right thing right”.
If there are significant consequences when they don’t.
If traditional approaches aren’t making much difference.
Then Serious Games will be important to your future.

Are you **playing** the right **game?**



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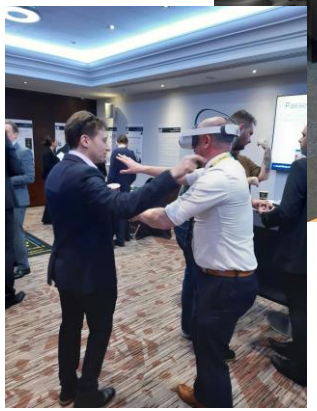
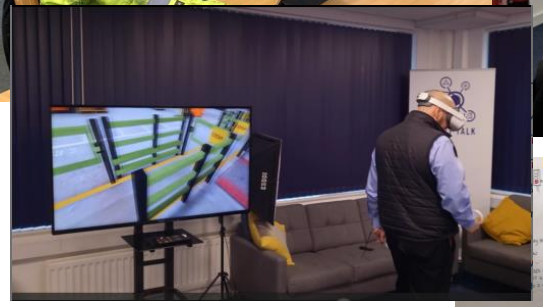
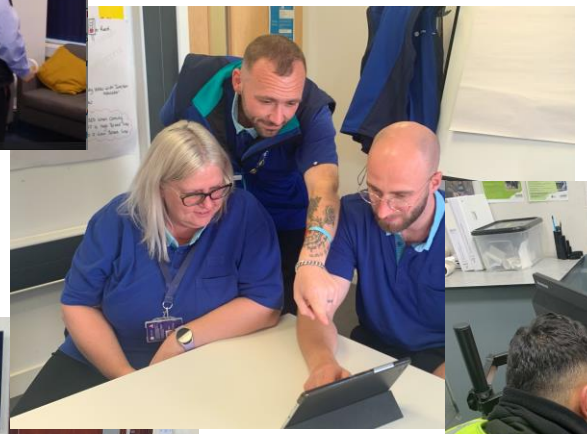
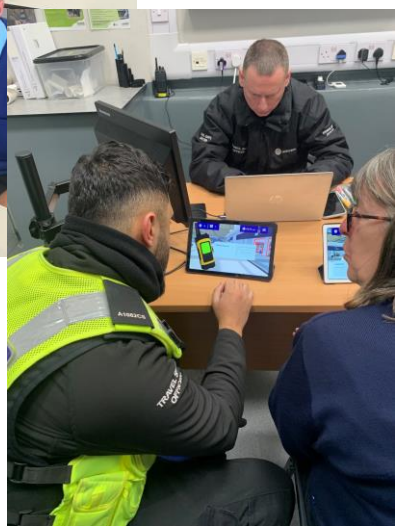
This is why it is exciting…





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