



# DevOps in a Windows (Enterprise) World

Carl Molyneux

Lead ALM Engineer, UKHO



@dotnetalm



<https://www.linkedin.com/in/carl-molyneux>

# Hello

Carl Molyneux

Application Lifecycle Management Team Lead  
UKHO

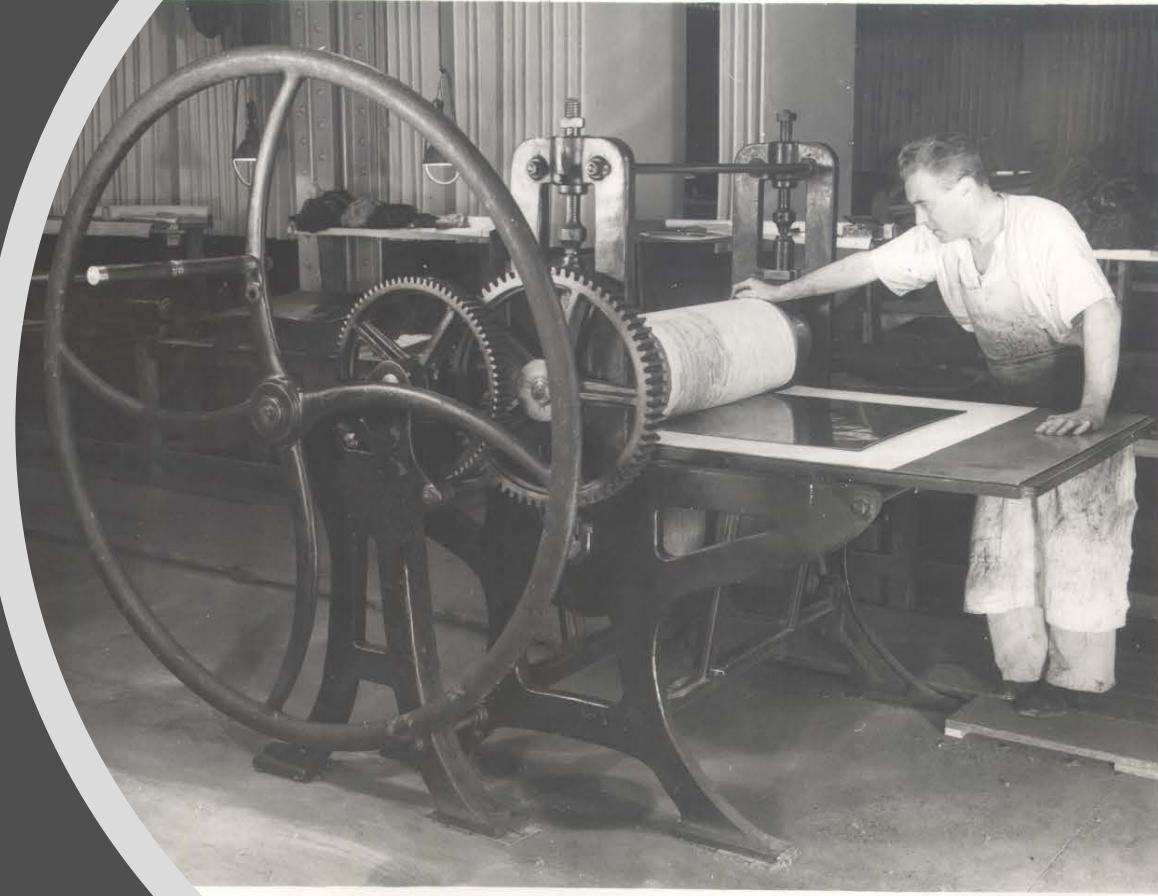


# Setting the Scene



United Kingdom  
Hydrographic Office

# Where Have we Come From?



# Where Are We Going?

- Member of the Geospatial Commission that will set the UK's geospatial strategy
- We are becoming a Marine Geospatial Information Agency (MGIA) above and beyond our function as a Hydrographic Office
- We will provide not only pre-packaged product, but data services





So  
What?



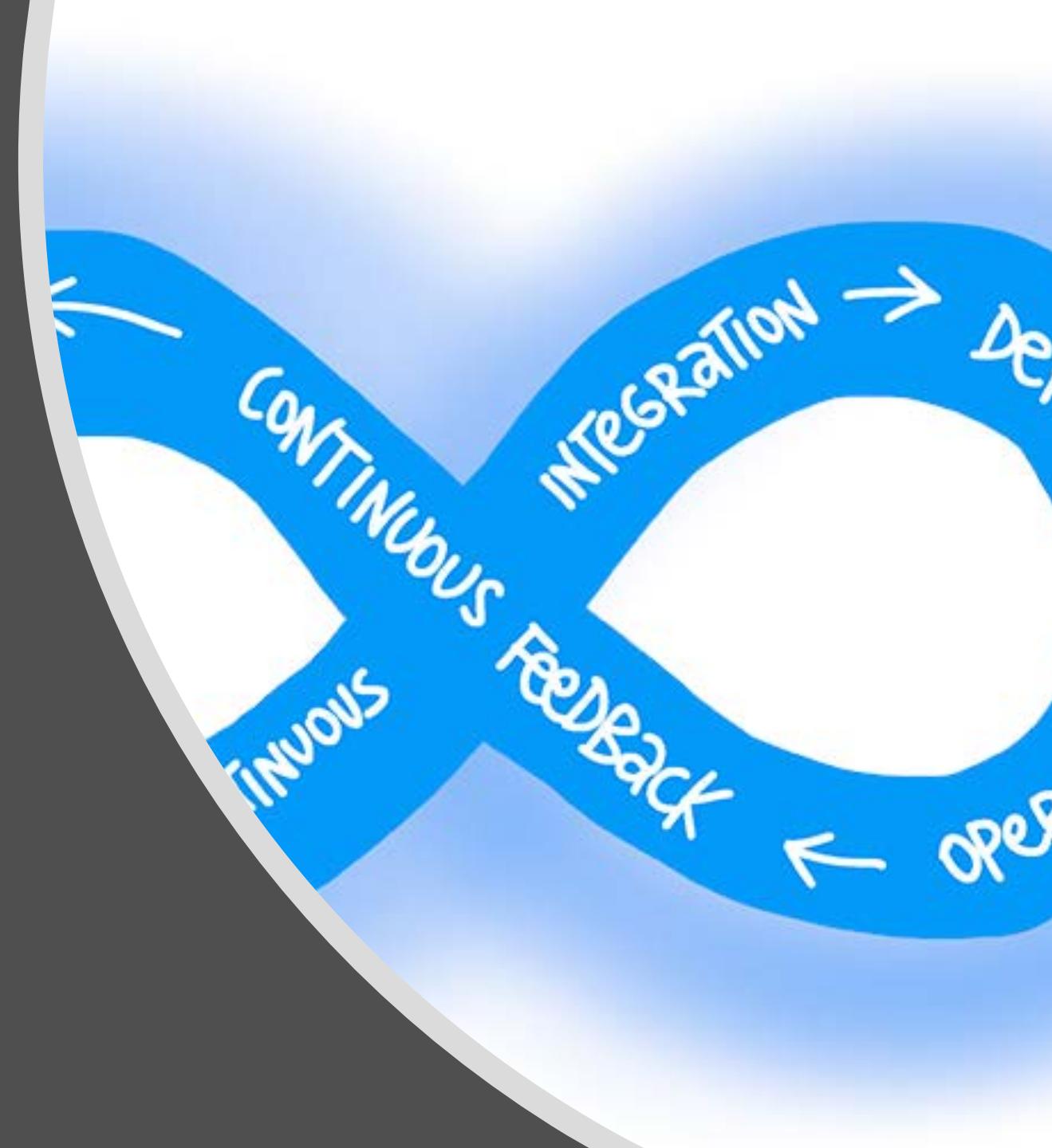
And How Does it Relate to DevOps?

# What is DevOps to the UKHO?

*“DevOps is the combination of cultural philosophies, practices, and tools that increases an organization’s ability to deliver ... [It] enables organizations to better serve their customers and compete more effectively in the market.”*

- Amazon

<https://aws.amazon.com/devops/what-is-devops/>



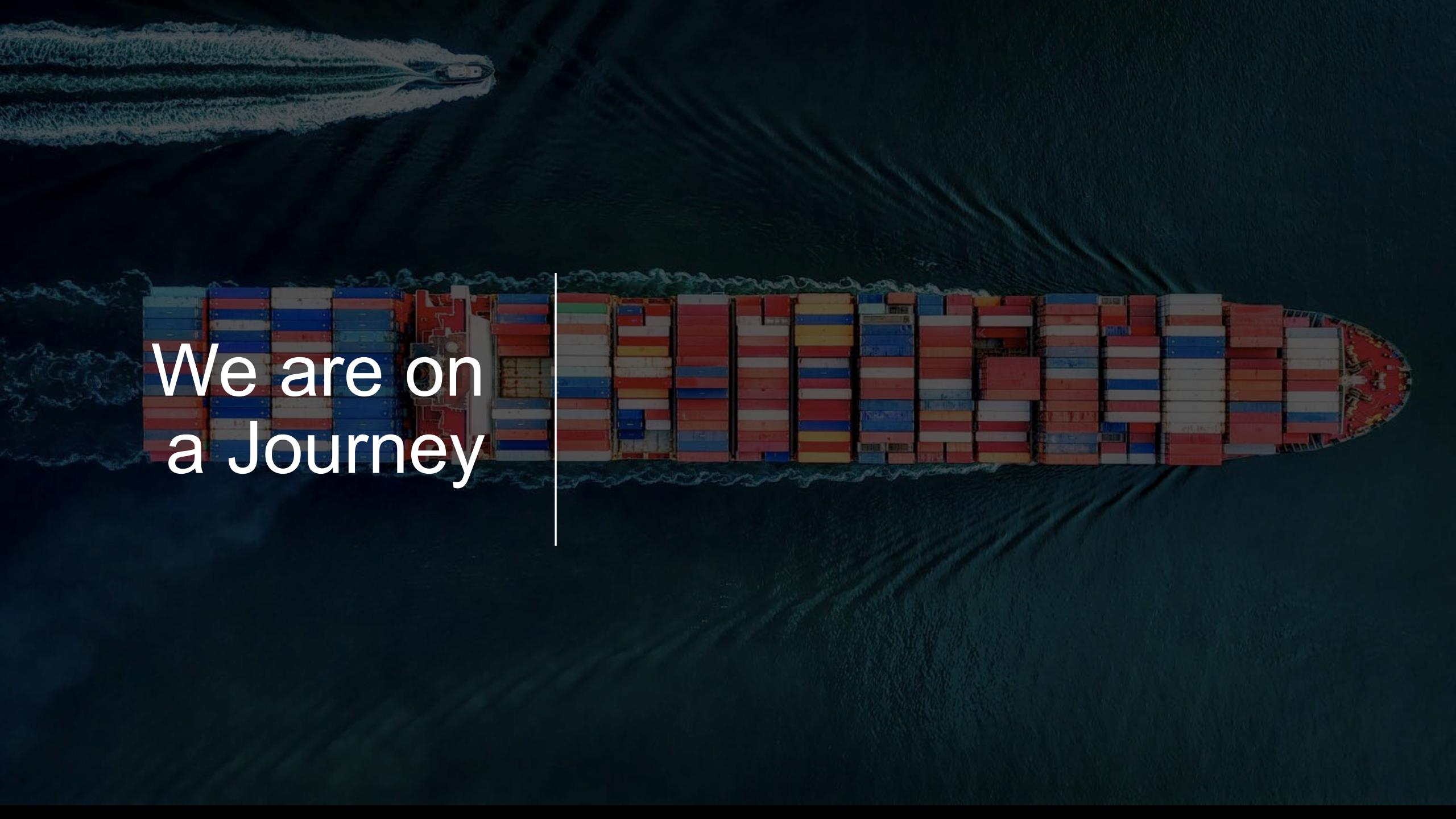


We are Undergoing a Digital Transformation

To compete in new markets and maintain our existing market share, while maintaining our high standards in safety we need to...

- Adapt quickly & smoothly.
- Be resilient
- Store data better
- Build systems more intelligently



The background image shows a large cargo ship at sea, viewed from an elevated angle. The ship's hull is white with blue and red markings. It is heavily loaded with stacked shipping containers in various colors like blue, red, green, and yellow. A smaller white boat is visible in the upper left corner, leaving a white wake. The ocean has dark blue and greenish-blue waves.

We are on  
a Journey

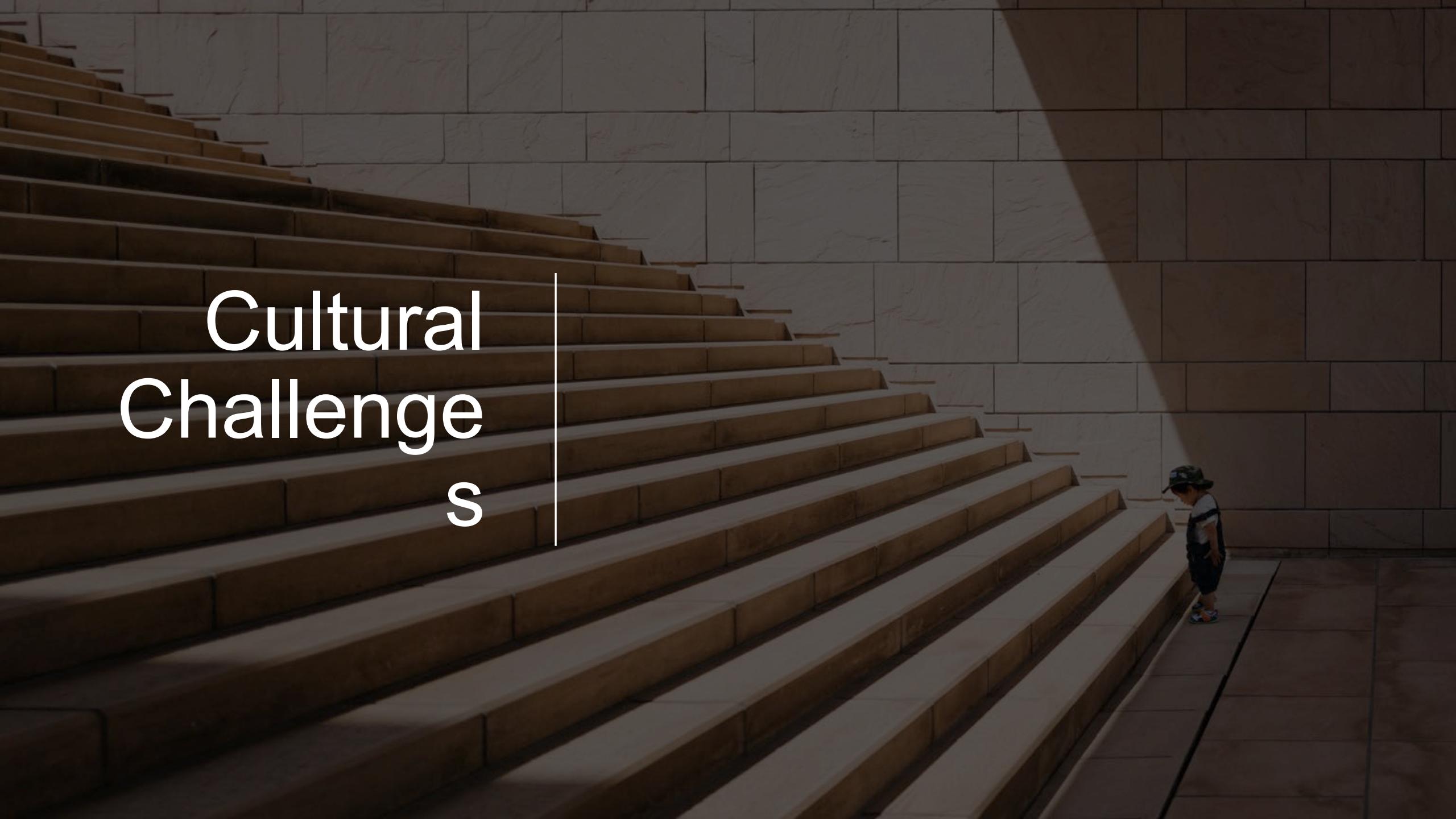


United Kingdom  
Hydrographic Office

# People & Culture

*"The Way We Do Things Round Here"*  
People make the culture

# Cultural Challenge



A wide-angle photograph of a large, modern concrete amphitheater or concert hall. The structure features a series of long, light-colored wooden benches arranged in a tiered, sloping pattern that rises from the foreground towards the background. The walls of the amphitheater are made of large, rectangular concrete blocks with a visible grain or texture. A single person, a young boy wearing a cap and shorts, stands on the right side of the image, looking up at the massive structure. The lighting is bright, casting long shadows and highlighting the geometric forms of the architecture.

## S



How Did We  
Address  
This?

# Outcomes

1

100m SPRINT

2



United Kingdom  
Hydrographic Office

# Process

Process is put in Place for a Reason

A photograph of a person climbing a steep, textured rock face at night. The climber, wearing a red shirt and black shorts, is illuminated by a headlamp, showing them from the waist up as they grip a horizontal ledge. The background is dark, with some blurred lights visible in the upper right corner.

# Process Challenge s

---



How Did We  
Address  
This?



# Outcomes





United Kingdom  
Hydrographic Office

# Tooling

*Enabling Our Teams*

# Tooling Challenge s

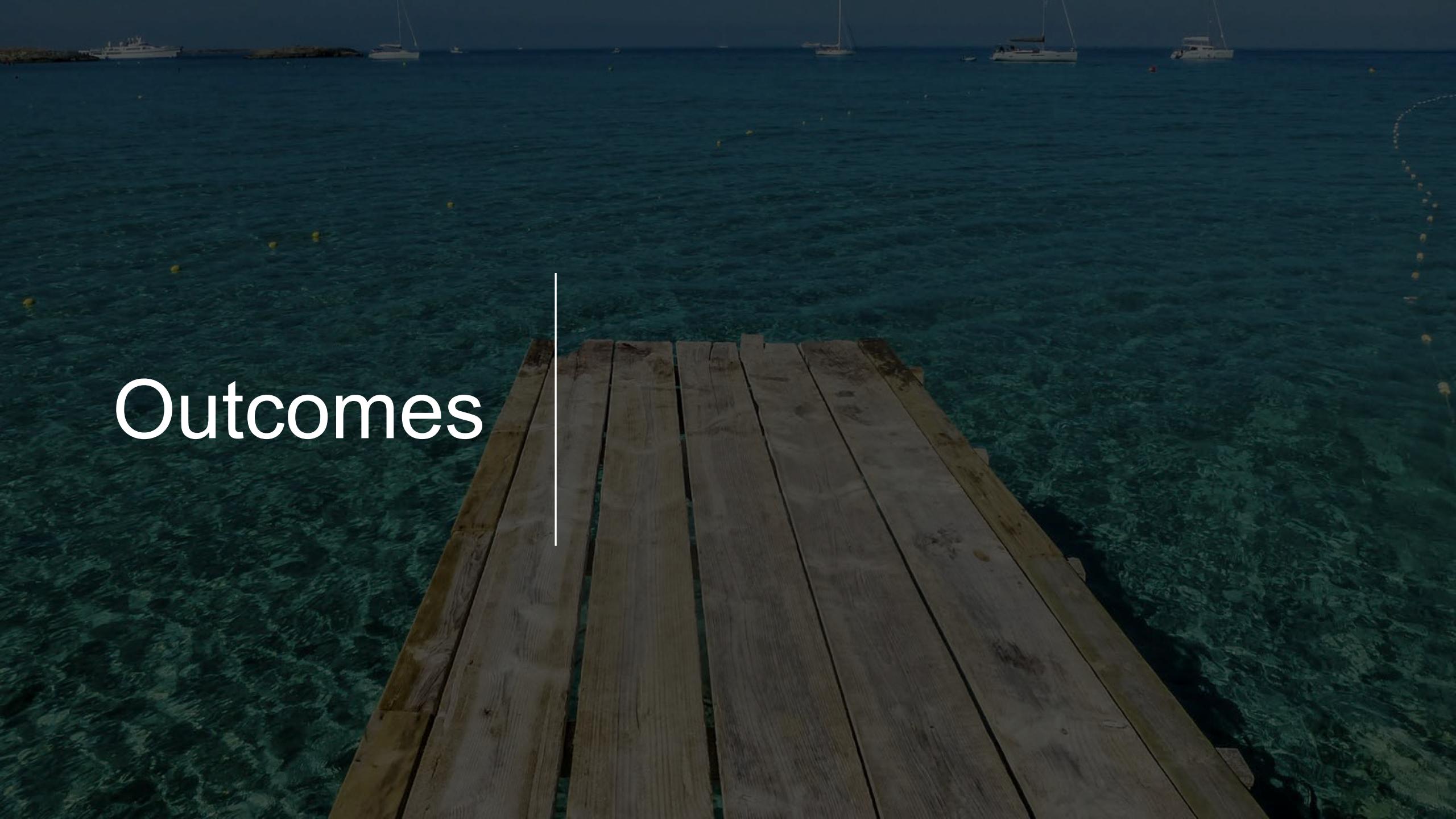
A large, dark blue-grey iceberg dominates the right side of the frame, its surface textured with deep crevices and ridges. In the lower-left foreground, a white research vessel with a dark superstructure and red lifeboats is partially visible, surrounded by smaller ice floes. The sky above is a uniform, pale grey.

---

A photograph of a large stack of shipping containers under a cloudy sky. The containers are stacked in several layers, with some containers having the "MSC" logo on them. A white vertical line is drawn through the center of the image, creating a visual divide.

How Did We  
Address  
This?

# Outcomes

A photograph of a wooden pier made of horizontal planks, extending from the bottom center towards the horizon. The water is a deep, dark blue with visible ripples and reflections. In the distance, several sailboats are anchored. A white vertical line is positioned to the right of the pier's edge, creating a visual separator between the title and the background image.



United Kingdom  
Hydrographic Office

# Lessons Learnt

*What we learnt doing the things that  
we did*



The Biggest Challenge is People & Culture

A photograph showing a person from the side, wearing a red and blue plaid shirt, gesturing with their hands while speaking. They are standing behind a podium. On the podium, there is a laptop displaying a presentation with various colored charts and graphs, along with some papers and a small electronic device.

Keep Communicating



Copy the Questions, Not the Answers



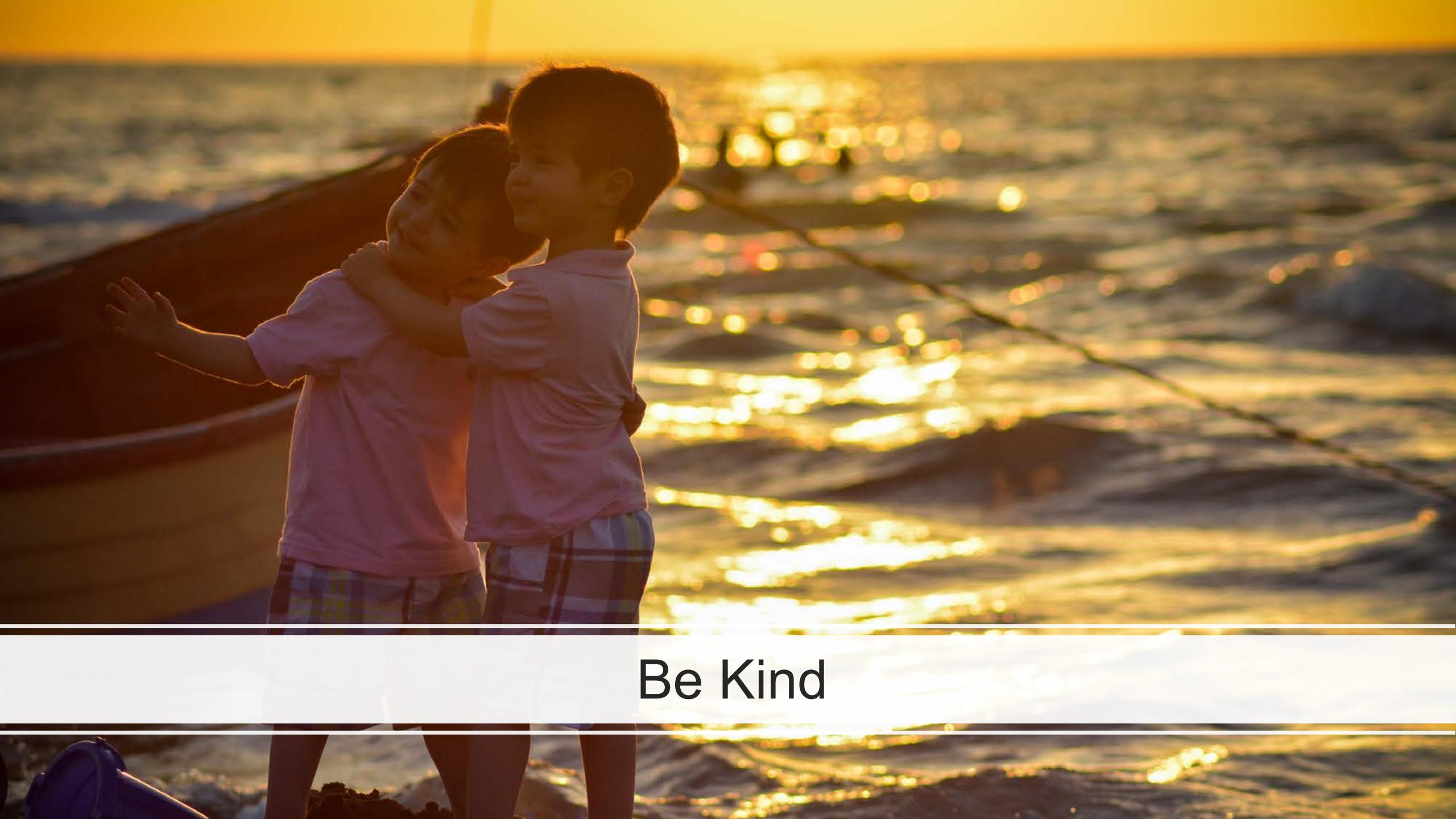
Bring the Right People on the Journey



Build a Community



There is Always Room for Improvement

A silhouette of two people standing on a beach at sunset, looking out over the ocean. The water is reflecting the golden light of the setting sun.

Be Kind



Expect Change



Support From the Top



---

Tackle Organisational Impediments

---



---

Don't Boil the Ocean

---

# Useful Books and Links

- Continuous Delivery – Jez Humble & Dave Farley

The background features a large, abstract graphic on the left side. It consists of a dark blue shape that resembles a stylized face or a mountain range, with white and light blue splatters and dots scattered across it, giving it a textured, liquid-like appearance.

Thank You

@dotnetalm

<https://www.linkedin.com/in/carl-molyneux>