



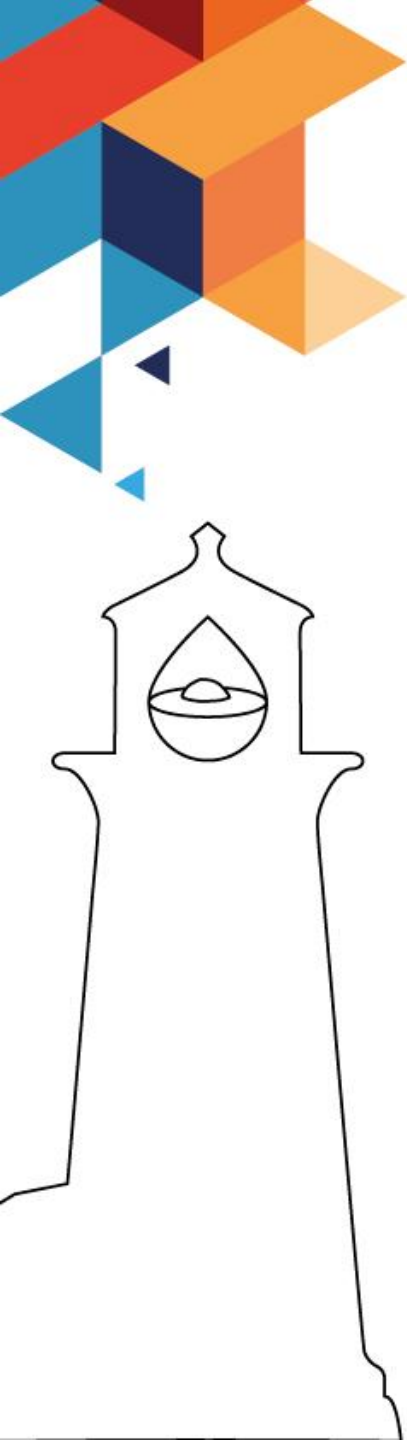
# **OBSERVATORY** island meeting

23<sup>rd</sup> & 24<sup>th</sup> April 2019 | Helgoland (Germany)

## **Mobility meets the environment**

**David Bonn**

in association with



## Helgoland – a unique status for its transport

### Current Situation

- Traffic regulations ban use of automobiles and bicycles,
- Emergency services operate using electric vehicles,
- Locals use push-along scooters,
- Deliveries to businesses use electric vehicles.

## Helgoland – a future for its transport

### The Future

- Increase in eco-tourism will result in more mobility impaired visitors,
- Introduce electric/solar powered pleasure boats,
- Introduce limited number of e-scooters,
- Autonomous pods to take tourists around the island sites.

## The Mobility Options for Helgoland

Tourists staying at hotels:

- Autonomous pod from ferry to hotels
  - Equipped with wheelchair access
  - Hire e-scooters at hotels
- Autonomous pods equipped with virtual reality
  - Pre-defined trips around the island augmented with virtual reality presentations of key locations



## Minimising environmental impact on Helgoland

### Inter-island travel:

- Electric/solar inter-island ferry
  - Remove dependency of fossil fuel to reduce sea pollution
  - Solar/battery powered boats to observe nature
- LNG ferry from mainland
  - Cassen Eils Helgoland leading the way with more to follow
  - Battery technology could be a dual-fuel option



## Helgoland – a future for its transport

- As an island, integrate mobility needs with the wider plans of the island.
- Address the needs of all visitors to the island as well as the locals.
- Consider the impact of losing the electricity feed via the cable link.
- Pollution from boats can have a detrimental impact on the environment.
- Become a live test bed for autonomous tourism combined with virtual reality experience.



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# Thank you

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