Can airships take scenic flights back to the future?

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A concept airship, the Aether, which Mr Henderson showed his research participants so they could conceptualise what a modern airship might be like. Credit: Massey University

Massey University School of Aviation assistant lecturer Isaac Henderson has always been fascinated by airships, so he embarked on a master's thesis to find out if they could be brought back into the mainstream.

"We are starting to see modern airships in the freight and logistics sector, but very few people think they can be brought back for mass passenger services," Mr Henderson says, "so I thought it was important to know what consumers actually think."

The airship era ended prematurely, Mr Henderson believes, after the Hindenburg disaster in 1937, which killed 36 people.

"It was one of the first air accidents to be recorded on camera and it was broadcast everywhere. It created this conception that airships were really dangerous. Then World War Two started, aeroplanes became more advanced, and airships were gone."

While airships cannot compete with conventional aircraft when it comes to speed, they offer other advantages.

"They are extremely fuel efficient, which means they are environmentally friendly and have a much lower cost base to operate," Mr Henderson says. "They also have the luxury of space – you can build a luxurious cabin where people can eat and drink and walk around and, when you are looking at scenery, the slow speed is actually an advantage."

**Bungy jumping from an airship?**

For his master's thesis, Mr Henderson conducted market research to determine if there was market for scenic airship services in New Zealand. Over 500 people took part in the various phases of the research.

"I developed a methodology for testing new and radically different tourist products because I didn't want to make any assumptions about people's attitudes to airships," he says. "Early on, there were some really crazy things suggested in the focus groups that no researcher would ever have considered putting in a survey."

He determined not only that there was a sizeable market for both short scenic flights and luxury overnight tours in airships, but there was also an interest in adventure tourism.

"As airships are lighter than air, they can easily hover in one place, so some study participants asked why not bungy jump at 5000ft and have all your friends watch you do it? I have to admit it really surprised me that over 30 per cent of participants were willing to pay to do that."

Mr Henderson also found that while participants had concerns about safety, those concerns were
easily overcome.

"Most participants said they would be comfortable flying in an airship if the operation was approved by the Civil Aviation Authority, which it would have to be anyway. They also accepted that modern airships would be safer due to improvements in construction materials and control systems and the use of helium, which is not flammable, unlike hydrogen."

The business case for airships looks good

Mr Henderson's thesis, which focuses on a potential Queenstown service, shows there is significant consumer interest in scenic airship experiences. His research analysed how many people would be willing to pay different prices, as well as the underlying motivations for purchasing a flight on such a service.

"One of the key motivations throughout the study was novelty – consumers do not see scenic airship services as similar to existing tourist experiences. My master's thesis is basically the business case for establishing an airship tourism business and it clearly shows that people are willing to pay for such a unique experience."

He says the only existing example of an airship tourism venture is the heritage experience offered at the site of the old Zeppelin factory.

"But that is quite different to a scenic flight from Queenstown to Milford Sound," he says. "Just imagine being on a cruise ship but you are up in the air and you can see everything below you. It's literally a ship in the sky – but it's better and faster."

Mr Henderson's methodology and findings have been published in the journal Tourism Management and he has lectured about the possibility of a new airship era at Massey University and to branches of the Royal Aeronautical Society.