

Vodafone Business Extreme E Review

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MPN Solution
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Delivering in the most remote locations...



From this...

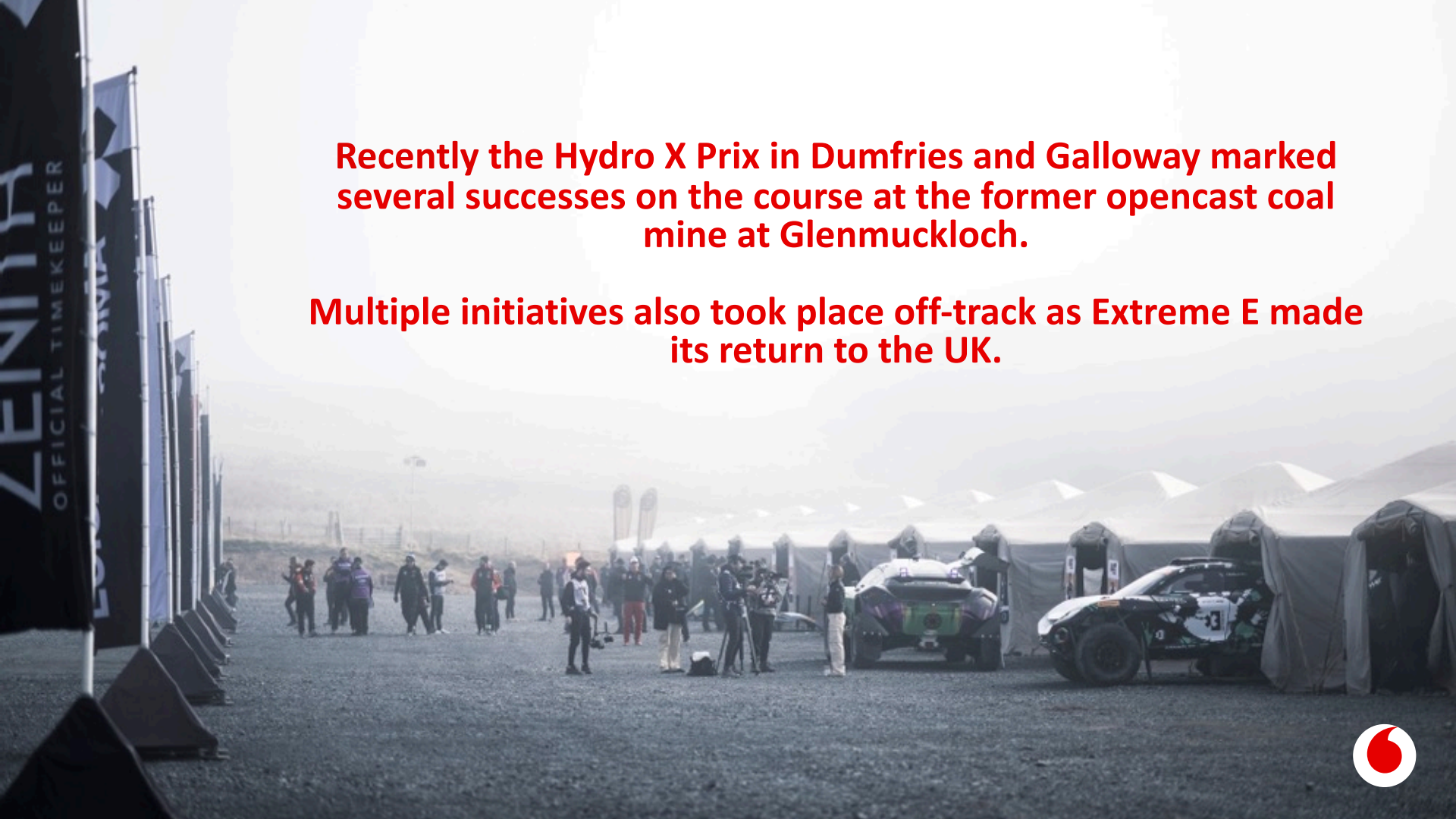


To this!



Recently the Hydro X Prix in Dumfries and Galloway marked several successes on the course at the former opencast coal mine at Glenmuckloch.

Multiple initiatives also took place off-track as Extreme E made its return to the UK.





This Extreme E collaboration sees Vodafone Business leading innovations and capabilities, such as 5G, MPN, IOT and MEC, integrated into Extreme E's global operations.

It includes the full involvement in the purpose-driven elements of the series, with special prominence on Extreme E's Legacy Programmes.

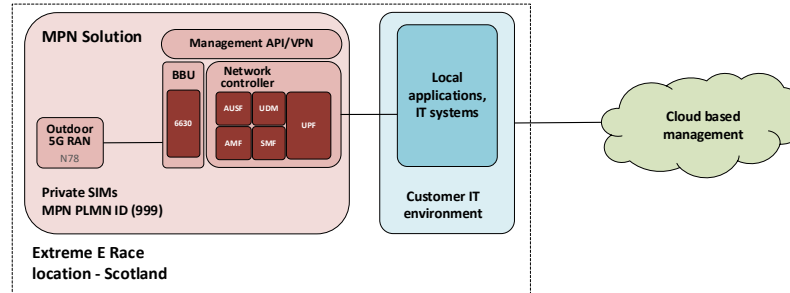
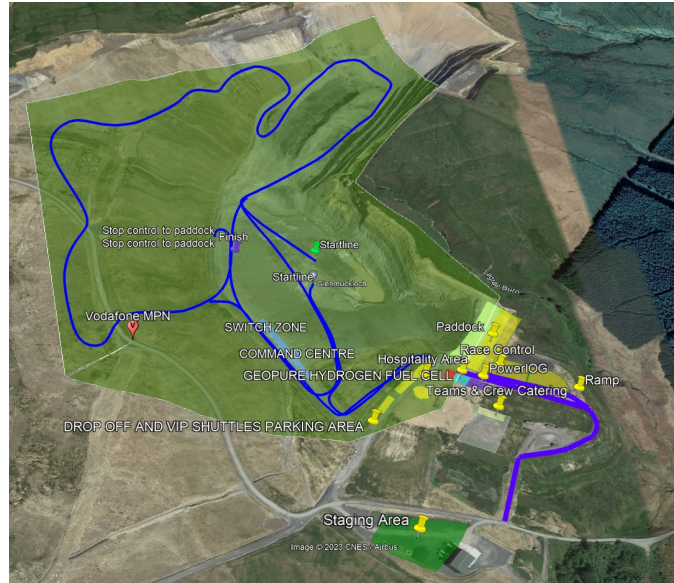


Extreme E - Scotland

The solution delivered to Extreme E consisted of an Athonet 5G SA core. The Ericsson Air 3227 radios were connected to the MPN via an Ericsson BBU (6630).

The whole solution is powered by a battery back up solution topped up by Solar energy. First ever Vodafone Solar powered MPN.

To overcome the challenge of connecting the MPN to race control, we made use of a Microwave link

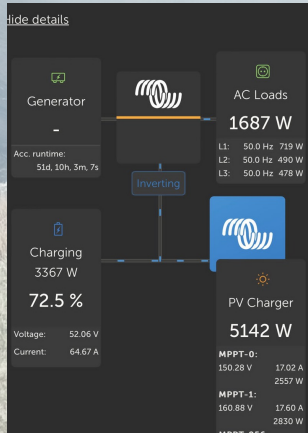


Extreme E - Requirement

The solution should provide enough bandwidth to support video streaming use cases.

Coverage in every corner of the track to provide access to track side cameras that feed back into Race control for track cut streaming

Provide enough bandwidth to support existing use cases like Proximie video collaboration solution as well as future solutions currently under development



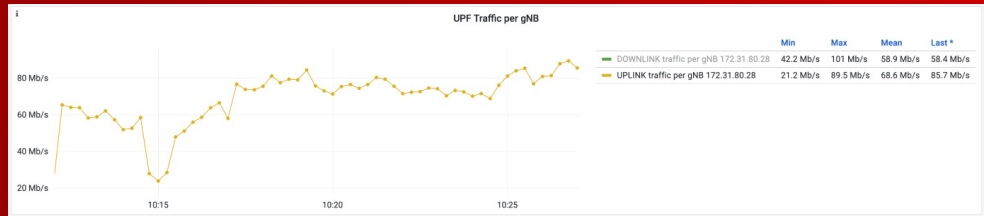
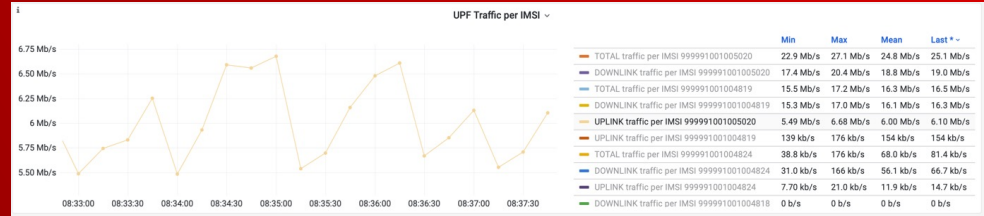
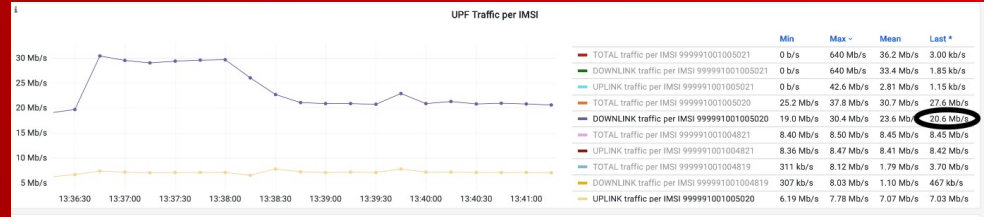
Extreme E - Learnings

Use cases expand every race. More and more partners see the benefit of leveraging additional connectivity on site

Device compatibility still big concern as not all supports 5G SA MPN.

Additional work to be done in the Newbury MPN Lab to test compatibility of various devices.

Increase priority on uplink throughput







Vodafone's purpose is to connect for a better future, enabling an inclusive and sustainable digital society, and many of its solutions have sustainability and inclusivity embedded.

Through its IOT solutions, Vodafone Business is helping a variety of sustainability efforts.





Vodafone transforms the way we live and work through its innovation, technology, connectivity, platforms, products and services.

Partnering with the Extreme E championship, Vodafone Business' technological innovations can support Extreme E to be a safer sport, including the implementation of hydro sensors in Scotland.



“At Extreme E, we pride ourselves on building partnerships with a purpose that provide real value and real business use cases for our partners. Thanks to our partnership with Vodafone Business, we are practising what we preach!”

Tom Julius

Head of Commercial Partnerships
at Extreme E







vodafone
business

Together we can