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## DreamLab app goes green in the fight against climate change

**2 November 2021** – Having helped in the fight against cancer and COVID-19, the Vodafone Foundation’s multi award-winning DreamLab smartphone app is now pivoting to tackle the 21st century’s greatest challenge, climate change.

The specialist app, which was developed in 2017 by the Vodafone Foundation Australia as an easy way for anyone with a smartphone to contribute to important cancer research, uses the processing power of idle smartphones to analyse complex data and accelerate scientific research, all while its users sleep.

Now DreamLab is on an international hunt for organisations who are working on significant climate change initiatives that could benefit from Dreamlab’s large-scale processing power, for example by helping to analyse the huge reams of data needed to accurately track the impacts of climate change.

The chosen organisations will need to have an existing climate research project that is technically compatible with DreamLab and must also address a specific climate-related issue that appeals across the 17 countries currently hosting the DreamLab platform.

In Australia, the computational power of DreamLab has been harnessed by the Garvan Institute for two projects to date. Project Genetic Profile looked at the genetic similarities between brain, lung, melanoma and sarcoma cancers. With DreamLab’s help, the research project was completed in half the time it would have taken Garvan’s super computers.

The second project, Demystify, saw DreamLab and Garvan again partner to analyse, understand and connect the dots between physical human traits – including hair colour, height, blood pressure – and their genetic basis. More than 500 million individual calculations for this research have been completed by DreamLab users.

DreamLab has also had great success with a number of important, international research projects including a COVID-19 research project in partnership with the Imperial College London.

The DreamLab Corona-AI project was launched in April 2020 by the Vodafone Foundation and Imperial College London and used artificial intelligence and machine learning to analyse virus-host and molecular interactions to identify combinations of drugs and food molecules with anti-viral properties.

To date, the DreamLab Corona-AI project has completed more than 300 million calculations and tested 450 billion molecular combinations – the equivalent of 11,664 years of high-spec desktop computing time.

Organisations looking to submit an expression of interest to partner with DreamLab on climate change research projects are encouraged to visit the Vodafone Foundation website at <https://www.vodafone.com/vodafone-foundation/focus-areas/dreamlab-app#dreamlab-app-goes-green>

The DreamLab app – which has been downloaded by close to 100,000 Australians and more than two million people worldwide - is available in the App Store for iOS or Play Store for Android. Vodafone customers can activate DreamLab for free using either mobile data or Wi-Fi.

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**Media enquiries:** Claudia Phillips, [claudia.phillips@vodafone.com.au](mailto:claudia.phillips@vodafone.com.au), +61 413 089 280