# MyFiziq Technology Update

**Highlights**

- **Work underway on an optimised on-boarding experience for the front camera, single user app.**
- **Android SDK build currently being tested.**
- **Preliminary Testing of body fat calculation showing significant results.**
- **New release into the iOS has a reduced return time of 50 seconds.**
- **Partner experience and integration tools nearing completion**.

**MyFiziq Limited** (ASX: MYQ) (MyFiziq) is pleased to update shareholders with the following information regarding our technology developments and deliverables.

## Android Development

MyFiziq welcomed Android Developer Adam Pheonix to the team in January with a view of creating the Android MyFiziq SDK. Adam has a wealth of experience in Java and GPU development and has hit the ground running. Whilst still in early stages the core functionality of the iOS SDK has been replicated in an Android environment has moved rapidly with in house testing now underway.

CEO Vlado Bosanac stated: "Our initial plan is to get the Android up to the same level as iOS. My team needs to work through the differences in hardware and what challenges that may present across the multiple android devices we will enable. This is especially crucial with current research and development work focussing on in-device processing as Apple and Android are optimised for different libraries. Once we have achieved this we will look at creating SDK Boilerplate applications for our partners prior to creating a white label version."

## Partner Experience & Integration

Final preparations are being made to enable our current partners, Fitocracy and Mayweather, to easily integrate the MyFiziq SDK into their own apps. The MyFiziq team have created a suite of deliverables to ensure that Partner's development teams have access to extensive documentation and visual design guides.

Boilerplate app versions which highlight core functionality through example code have also been created in both Objective-C and Swift. Each partner will receive their own tenant environment with key metrics and user data available via a custom-built dashboard.

Each tenant will have access to their account via the MyFiziq dashboard. This will enable them to offer first level support and troubleshot any of their own user issues without having to directly rely on MyFiziq. Any additional metrics required by our partners will be available from our custom data store. We look forward to working with our partners to grow the functionality of this service."
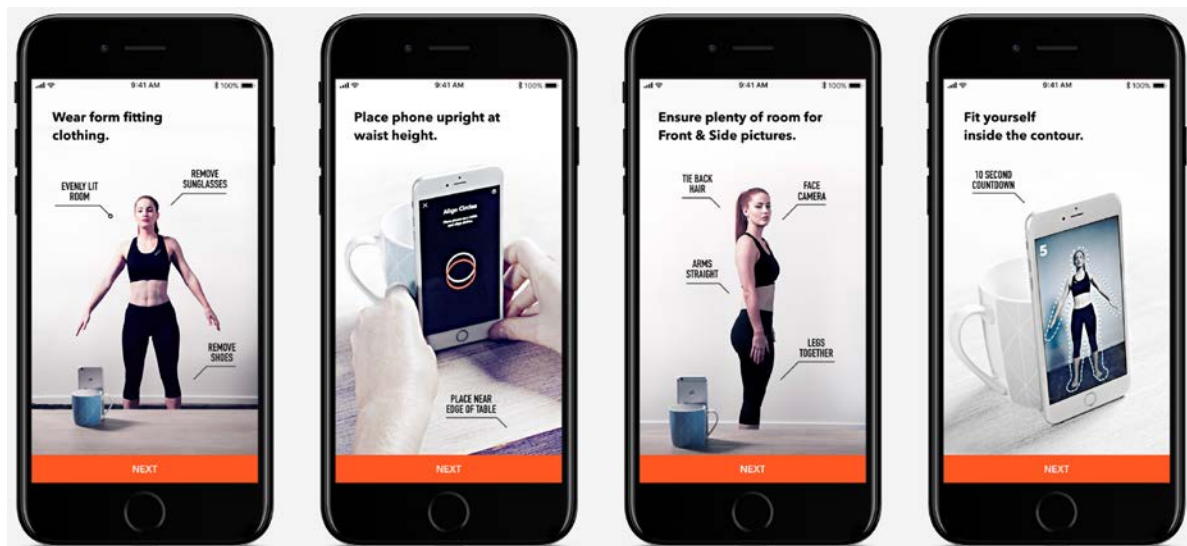
## Joint Venture – Body Composition Technologies ("BCT")

MyFiziq, on behalf of joint venture partner BCT, have started analysing data collected in collaboration with the University of Western Australia. The aim of this analysis is to enable a prototype of body-fat percentage estimation via proprietary regression techniques we have developed and run through our machine learning models. In parallel the data is also being used to further refine body circumference measurements for MyFiziq.

Dr Amar el-Sallam said: "Preliminary results from this data collection are very encouraging. We have some very exciting results from the MyFiziq model and the propriety protocol used to estimate total body composition. This will further assist with a number of health risk indicators that have an extremely high correlation to disease and other health conditions."

## User Experience upgrades

Following the successful release of the MyFiziq Front Camera app (v1.7.0) in December 2018, the MyFiziq team have analysed the results of the Image Capture Process and have designed updated screens to help guide users in creating the perfect avatars. A/B testing is currently underway in readiness for release.



"There are multiple factors that go in to creating an avatar." explained Senior Product Manager, Ryan Snowden. "I have redesigned the user engagement screens to simplify this process after user feedback received over the last month.

Previously our process involved a second user that could 'correct' any errors via communication with the subject. Our challenge now is to maintain the simplicity of the capture process whilst ensuring we are cognisant of the variables that can affect results. Our revised on-boarding experience will help in this regard."

## Image Inspection and Machine Learning Models

The MyFiziq Machine Learning and Computer Vision engineering team are currently refining the image capture process and are working on real-time analysis of images to ensure that they successfully fulfil the acceptance criteria.

Senior Technology Engineer Dr Amar El-Sallam said: "There is a direct correlation to the quality of the input image and the final result. It is imperative that, along with the UX changes, we help guide users to optimal conditions for creating accurate and repeatable results."

"With this in mind we have developed Machine Learning models utilising Apple's GPU frameworks which help to accurately identify the person within the image and ensure that we understand their location and pose. This, in combination with the scene analysis model we are developing for checking objects and unusual light-sources, will ensure that users have the best opportunity to consistently achieve optimal results."

## Computer Vision

The MyFiziq team have made excellent progress in a number of the key roadmap initiatives planned for 2018. With user functionality now complete the MyFiziq Machine Learning and Computer Vision Engineers are collaborating with Cloud and App Developers to refactor code to take advantage of new Core Libraries available via the latest iOS 11 release.

### Hardware Acceleration Performance Optimisation

Avatar creation processes that previously resided in the cloud are being prototyped to run directly in supported devices and take advantage of the on-board processors. With over 50% of MyFiziq users now on iPhone7 or greater, there are many potential speed improvements to be realised, as well as substantially reduced cloud costs.

### Machine Learning

Training on MyFiziq's state-of-the-art classification model continues with current results looking to increase both accuracy and repeatability values. The team continues to work on making this functionality available in Q2 with a goal to also allow inference directly in the user's device.

<u>Predictive Avatars</u>

One of the major objectives the MyFiziq team are looking to release this year is predictive models that learn from previous avatar results and will enable the app to estimate future results to assist in consumer goal setting and engagement. By extrapolating trend the application will be able to forecast circumference measurements over time to assist the user in understanding the results they can achieve under their chosen nutrition and exercise programs

<u>AWS Compute</u>

Recent changes to AWS Lambda have enabled the team to improve Avatar creation Process time. Backend changes implemented for the Front Camera interface had meant that return times had increased slightly however a refactor of core code and some AWS setting changes mean that return times are now superior to previous releases. These changes will be pushed to MyFiziq's production environment with the next release of the App. (v18.1.1 – est. Feb 2018). Current testing has shown a reduction of 50 seconds from the previous release.

Chief Technology Officer, Terence Stupple said: "I'm extremely happy with the progress the team have made so far this year. Our primary focus is to produce accurate and repeatable circumference measurements, but beyond that is ensuring we do it in the most cost-efficient manner possible without sacrificing quality. The roadmap we are following enables us to not only utilise leading-edge technology but allows us to reallocate cloud processing to user devices. This is positive for our end users as they get the benefit of a reduced return time from local processing, and compelling for MyFiziq and its partners as we reduce our cost footprint."

## About MyFiziq

MyFiziq Limited (ASX: MYQ) equips users through their mobile phone with a tool to track personal progress towards their health goals over time, whether that goal is weight loss / gain, muscle gain, dimension change, or maintaining their current physique. MyFiziq adds science and technology to this art in creating a comprehensive approach to measuring, tracking, and most importantly, seeing changes to your body shape and dimension over time. Until now, body measurements have required a tape measure, creating potential for human error. MyFiziq removes this margin of human error by tracking the individuals structure over 14,000 data points helping users keep track of their circumference measurements as they achieve their goals. For more information please visit: www.myfiziq.com

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