Health Promotion Disease Prevention and Disease Management

glucoless

CONFIDENTIAL

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## Glucoless is a Clinically Proven, Personalised & Adaptive Al Platform, for Prevention and Management of Chronic Disease and Health Promotion

Glucoless acts as a personal **digital coach** that helps people achieve 150 minutes of **activity** per week and 5%-7% **weight loss** 







## **Clinical Trial at Johns Hopkins**

In a clinical trial conducted by Johns Hopkins Endocrinology, Diabetes and Metabolism Division, Glucoless achieved clinically significant outcomes on all measures evaluated:

- Reduction in HbA1C
- Weight loss
- Increase in physical activity

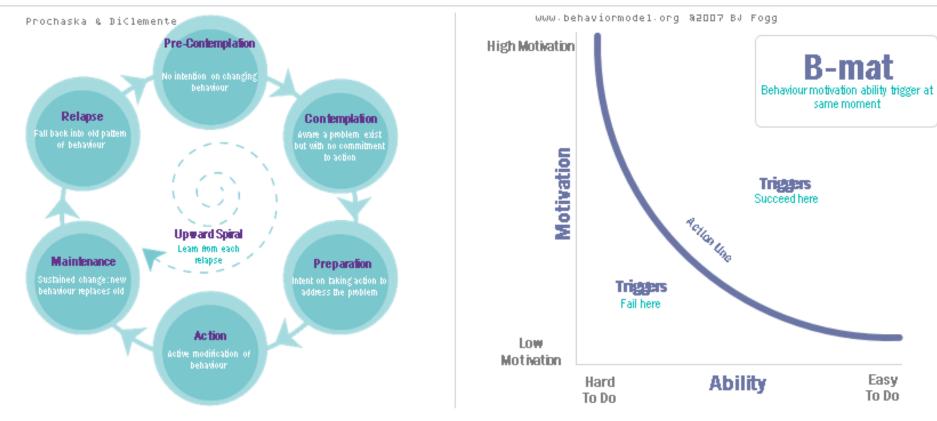
"The fact that the study demonstrated both weight and A1C reductions at only three months suggests that long-term effects will be comparable, if not superior, to existing interventions. This machine learning technology enables fully automated intervention; hence, supporting larger-scale deployment with greater costeffectiveness potential when compared with human-based diabetes prevention solutions". JMIR 2/27/18





## **Behaviour Change Science**

### James Prochaska Cycle of Change



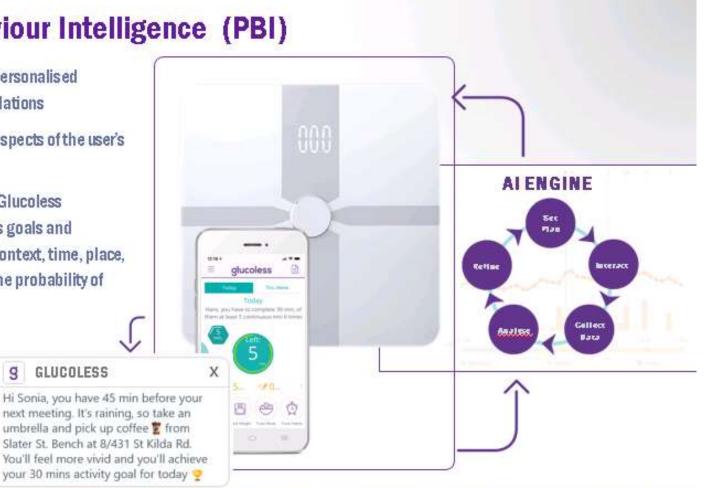


BJ Fogg's Behaviour Model

## **Personalised Behaviour Intelligence (PBI)**

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- Transforming'data dumps' into personalised meaningful real-time recommendations
- Continuously processes various aspects of the user's . life habits
- By applying predictive analytics, Glucoless continuously optimises the user's goals and messages, so they will be in the context, time, place, and tone-of-voice that increase the probability of action





## **Personalizesed Intervention – Weight**

- Weight-loss goals are continuously optimised based on the user's real-world achievements
- Stepping on a scale daily, correlates with weight loss by reminding us of our commitment to health.

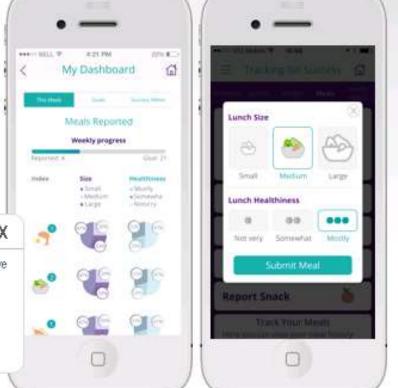




## **Personalizesed Intervention – Diet and Nutrition**

- Empowering and intuitive approach to nutrition tracking – targets dietary awareness rather than "obsessive" calorie counting
- Subjective reporting to address personal tracking and individual improvement







## **Patient Education**

### Customisable Patient Education - Tailored to Customer's Specific Emphasis





## **Customised From Baker Education Material**



#### Carbohydrates and Glycaemic Index (GI)

#### What are carbohydrates?

- Carbohydrate is found in a variety of food and drink, and provides the body with fuel (energy).
- Carbohydrates break down into glucose during digestion and raises blood glucose levels.

Fruit

- Many foods containing carbohydrate also provide dietary fibre, vitamins and minerals.
- The amount and type of carbohydrate you eat will affect your blood glucose levels.

#### Which foods contain carbohydrates?

#### Healthy carbohydrate choices:

- Wholegrain bread, Crispbread \_\_\_\_\_ Lentils, Legumes
- Wholegrain breakfast cereal
  Starchy vegetables (Potato, Corn, Sweet potato)
- Grains (e.g. Barley, Quinoa)
- Pasta, Noodles
  Milk, Yoghurt
- Rice
- Wholegrain flour, Wholemeal flour

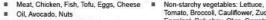




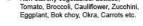
- Sugar, Agave syrup, Rice mait syrup, Coconut sugar etc.
- Jam, Honey, Maple syrup



Foods that do not contain significant carbohydrate:



Sugar free drinks, Artificial sweeteners



Potato crisps, Corn chips

Icecream, Custard





#### Making healthy meals

Choosing a new recipe or adapting a family favourite to create a healthy meal can be achieved with some simple strategies — make room for vegetables, use a suitable cooking method and select the right ingredients.

#### Take a balanced approach

1. Prioritise vegetable — aim for half of your recipe, chopping board and plate to be vegetables

- 2. Pick a protein fish, skinless chicken, lean red meat, lentils, egg or tofu
- Choose a lower GI carbohydrate corn or sweet potato, pasta or quinoa, grain bread or barley
   Add a splash of healthy fat cook with canola or drizzle olive oil on salad vegetables



#### Reducing energy (kJ) and staying satisfied

Simple swaps can transform meals into lower energy (kJ) options and boost vegetable intake. If you are aiming to reduce weight, reducing energy (kJ) intake by 2000kJ/day is often the target.

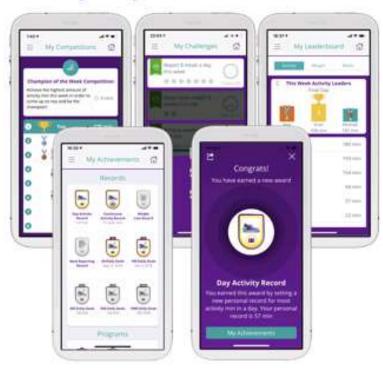
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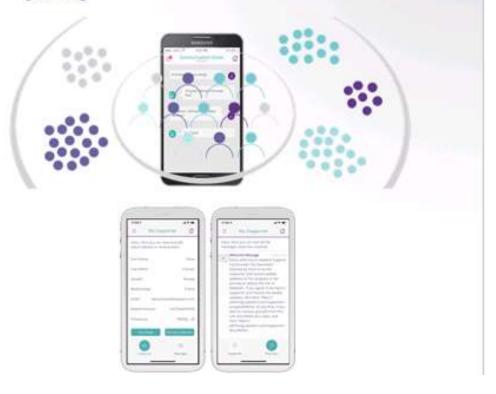


## **Tools for Long Term Engagement**

## Personalised Gamification adapted to the user journey



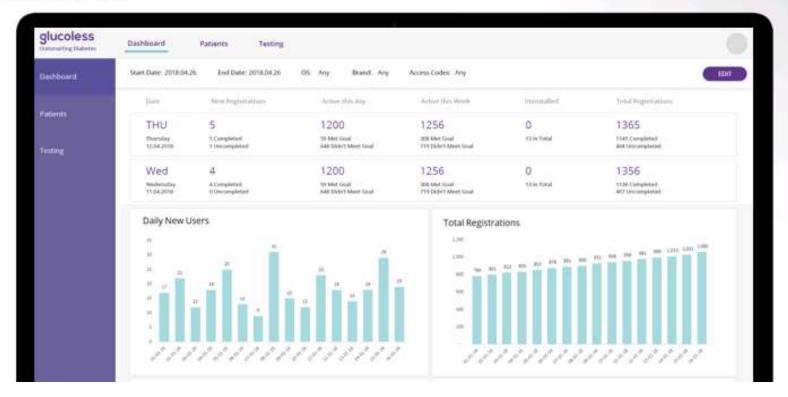
# Social tools to support the user in his journey





## **Management Dashboard**

Glucoless' dashboard enhances the health coach's ability to follow-up on his/her patients in a much more personalised and just-in-time manner.





## Where are we at?

- The app has now been adapted for the Australian market
- Baker education material has been integrated
- Consumer testing currently underway with 25 clients
- Evaluation of this testing and fine tuning
- Funding application for small RCT
- Fine tuning and pathways to open market



## **Many Thanks For Your Attention**

