# Anti Diabetes App

Kaiser Permanente product pitch

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## Background

Why Are We Here?

•We can reduce the risk from diabetes to millions of people by helping them live healthier with an mobile app

#### Say NO to Diabetes

## **Business Case**

#### **Initial Focus**

Where are we starting?

- •Reduce risk from type 2 diabetes respectively medical cost as well
- •Growing problem among worldwide and specifically US citizens which cause significant cost on Kaiser Permanente

## Opportunity

What's the problem?

- •Recent statistics shows that ~10% of the US population have diabetes
- •<u>Kaiser Permanente serves ~12.6 million people</u> so Kaiser Permanente serves ~1.26 million people who have diabetes
- •<u>People diagnosed with diabetes incur on average \$16,750 annually in medical expense</u> which is ~2.3 times the medical expenses of a person without diabetes

The above means that KP members spent **~\$12 billions annually\*** more due to diabetes

\*\$16,750-(\$16,750/2.3)\*1.26 mil = \$11.9 billions

## Opportunity

What's the problem?

#### Recent researches shows that:

- 30 min physical activity per day reduce risk from diabetes 40-70%
- 30 min physical activity per day reduce risk from diabetes 58% while medical treatment with 31%

## Proposal

What's Our Solution?

 Mobile app for supporting people with diabetes or helping others to avoid diabetes by encouraging healthier way of living (both eating and physical activity)

#### Return On Investment

#### What can we do?

#### **Estimated Costs:**

- In house development would cost ~1 million USD to bring up the mobile app to acceptable level for both Android and Apple but would add additional costs for operational support afterwards
- It is possible to do outsourced development which would probably speed up development and cost a bit less on a long term
- It is possible to invest in existing apps through strategic partnerships

#### Expected ROI:

So, by encouraging people to do ~30 min physical activity per day, KP can save ~50% from medical costs for diabetes or ~\$6 billions annually

#### Measurement

How will we know if we're successful?

- Collect data from end users as rating and feedback of the application
- Collect health data related to diabetes from end users of the app (sugar level, weight, activity) and compare with the data from 1 year back
- Reduction of medical costs spent on diabetes medicins compare to estimated costs

# Competitors

## MySugr

#### **Diabetes Tracker log**

- One of the recommended apps on the market with Apple Rating: 4.7 stars Android Rating: 4.6. Sources:
  - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6475849/
  - https://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-apps/

#### Key features:

- Automated blood sugar logging and graphs
- Carbs tracker
- Motivational challenges to improve health
- Syncs with the Apple Health app to collect physical activity and step data points

## Glucose Buddy

#### The most comprehensive diabetes management app

- •One of the recommended apps on the market with Apple Rating: 4.8 Android Rating: 4.0. Sources:
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6475849/
- <a href="https://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-apps/">https://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-apps/</a>
- Key features:
  - Blood sugar tracker
  - Carbs tracker
- Syncs with the Apple Health app to collect physical activity and step data points

## Our Advantages

Why are we better?

- ·We have huge database with millions of members and potential users
- •We are respectful health organisation which adds more trust on our advices on the app
- •We can provide more specific activity and cabs plan to each individual based on the medical records and health data we have

# Roadmap and Vision

### Roadmap Pillars

Where do we go from here?

- •Help millions of people to improve their health and avoid type 2 diabetes
- ·Big themes:
- Theme 1: Little but regular physical activity can improve your health
- Theme 2: Personalized advices lead to success
- Theme 3: Easy to use app for every age, nationality and gender

# Little but regular physical activity can improve your health

- •Feature 1: Connect with existing apps and gadgets (i.e. smart watch) to collect physical activity data
- •Feature 2: Encourage every day activity by setting milestones and targets and connecting with health conditions and blood sugar/weight improvements

#### Personalized advices lead to success

- •Feature 1: Collect habits and location data (eat habits, physical activity habits, sleep habits, location information) and visualise it
- •Feature 2: Use collected data to propose improvements:
- different meals
- sleep habits
- activity in nearby locations such as parks

# Easy to use app for every age, nationality and gender

- •Feature 1: Work on both Android and Apple platform
- •Feature 2: Easy to use UI based on UX research and users feedback/rating
- •Feature 3: Support multiple languages, chosen based on the database of KP members and potential users

## Where do we go from here?

- Decide on development team:
- Research possible strategic partnership with existing apps to minimize dev cost and operational support cost
- Research setting up internal team
- Create MVP product with Feature 1 from each theme
- Active gathering of feedback and data for medical costs of users to verify assumptions in this product pitch
- Keep adding features and collect ideas through feedbacks for improvements
- Apply same approach to other diseases which can improve people health and medical costs

#### Sources of research:

- Financial burden and KP members:
  - <a href="https://about.kaiserpermanente.org/our-story/news/public-policy-perspectives/integrated-care">https://about.kaiserpermanente.org/our-story/news/public-policy-perspectives/integrated-care</a>
  - https://www.cdc.gov/diabetes/library/spotlights/diabetes-facts-stats.html
  - <a href="https://type2diabetes.com/living/the-financial-burden">https://type2diabetes.com/living/the-financial-burden</a>
  - https://diabetes.org/about-us/statistics/cost-diabetes
  - https://khn.org/news/diabetes-cost-ft/
- Physical activity impact on diabetes:
  - https://diabetesjournals.org/care/article/39/11/2065/37249/Physical-Activity-Exercise-and-Diabetes-A-Position
    n
  - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1120973/
  - <a href="https://www.cdc.gov/diabetes/managing/active.html">https://www.cdc.gov/diabetes/managing/active.html</a>
- Existing apps:
  - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6475849/
  - <a href="https://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-apps/">https://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-apps/</a>
  - https://www.byramhealthcare.com/blogs/The-Best-Diabetes-Apps-of-2021
- Estimate cost of development:
  - <a href="https://www.thedroidsonroids.com/blog/mobile-app-development-cost-in-2022">https://www.thedroidsonroids.com/blog/mobile-app-development-cost-in-2022</a>
  - Offshore vs inhouse <a href="https://www.applicoinc.com/blog/much-cost-build-app/">https://www.applicoinc.com/blog/much-cost-build-app/</a>
  - https://www.collectiveray.com/how-much-does-it-cost-to-outsource-app-development