



**BIOMARKERS &
DIGITAL THERAPEUTICS
FOR MENTAL HEALTH**

by Sentio Solutions



PROBLEM | MENTAL HEALTH DISORDERS AFFECT 1 IN 4 PEOPLE

INCREASED ANXIETY AND DEPRESSION AMIDST COVID-19 CRISIS

01. ACCESS TO CARE

Individuals
experiencing up to
4 months delay to
access psychotherapy

02. MEDICAL COSTS

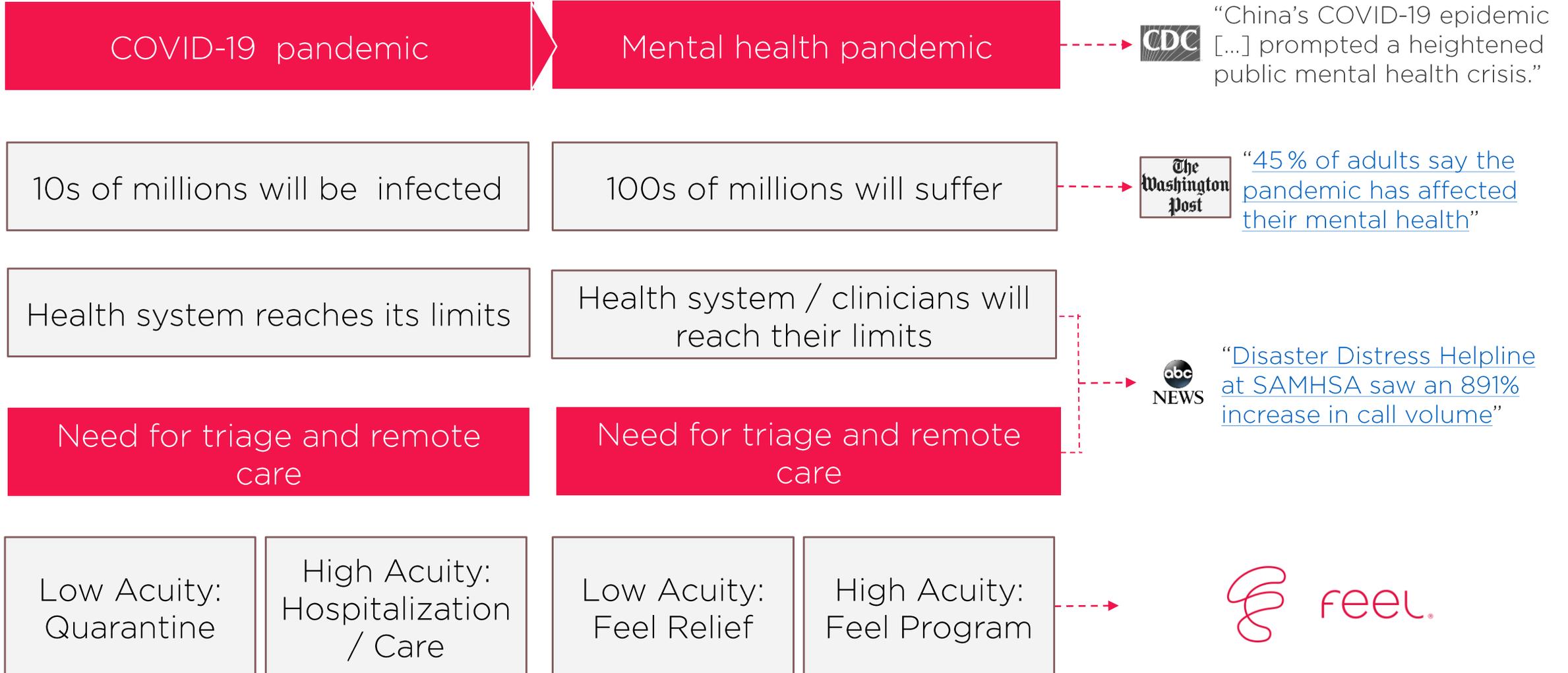
Mental health patients
cost insurers **\$9k**
more per year with
4x medical expenses
and **6x ER visits**

03. DISABILITY

Mental health is the
**leading cause of
disability** worldwide
accounting for **37% of
healthy years lost**



A MENTAL HEALTH PANDEMIC IS COMING



CURRENT PARADIGM | NO OBJECTIVE MEASUREMENT FOR MENTAL HEALTH

WE DON'T
INTERVENE
UNTIL IT'S TOO
LATE

NO OBJECTIVE
DATA & TOOLS
FOR MENTAL HEALTH

DELAY TO **DIAGNOSE &**
PROVIDE **SUPPORT OR**
TREATMENT

EVERY OTHER MEDICAL PRACTICE HAS
OBJECTIVE
MEASUREMENT TOOLS



THERMOMETER



STETHOSCOPE

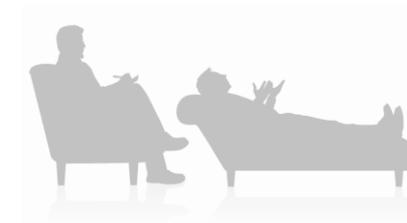


BLOOD PRESSURE
MONITOR

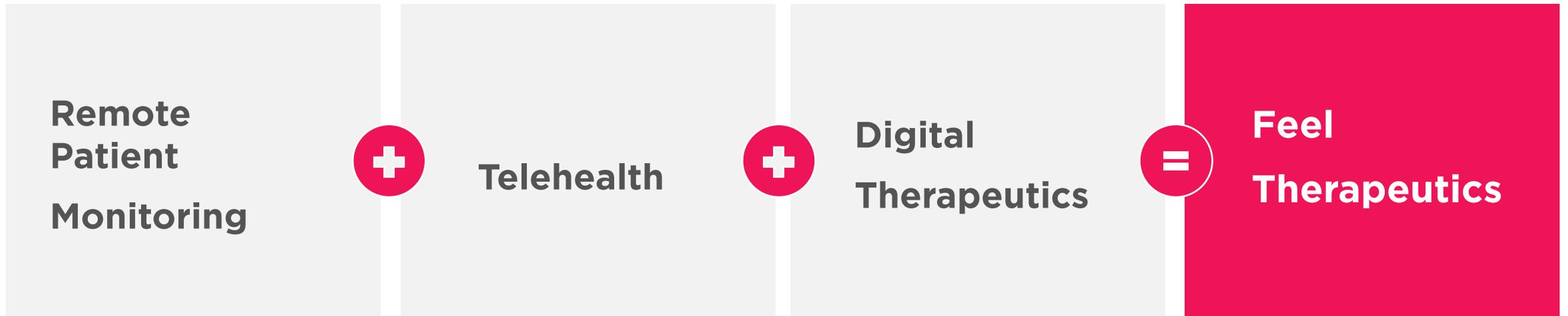


GLUCOSE
METER

MENTAL HEALTH SUPPORT
ONLY AT THE POINT OF CARE



SOLUTION | DATA-DRIVEN THERAPEUTICS FOR MENTAL HEALTH



PROPRIETARY TECH: EMOTION RECOGNITION ALGORITHMS

PATENT
PENDING



SENSORS

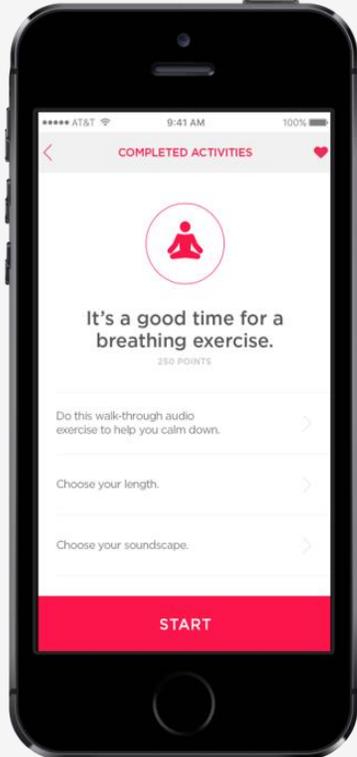


01100
10110
11110

ALGORITHMS

JOY
SADNESS
STRESS
ANGER
CONTENT

EMOTIONS



COACHING

OFFERINGS | TIERED OFFERING BASED ON LEVEL OF NEED OF THE POPULATION

FEEL RELIEF PROGRAM

4-week program

- (1) 30-minute assessment session with professional coach
- (3) 15-minute weekly sessions with professional coach
- App based CBT therapy exercises

FEEL PROGRAM FOR DEPRESSION & ANXIETY

16-week program

Feel Emotion Sensor

- (1) 60-minute assessment session with licensed therapist
- (15) 15-minute weekly sessions with licensed therapist
- App based CBT therapy exercises

FEEL PROGRAM FOR CHRONIC CONDITIONS

Management of mental health comorbidity



Feel Relief Program

Offer CBT-based support to all your members during COVID-19 crisis

Triage based on PROMS

Feel Program for Depression & Anxiety

We help you select the ones that have a mental health condition to offer a higher level of support

Triage based on biomarkers & PROMS

Feel Program for Chronic Conditions

We help you select the ones that have ongoing needs to offer year-long access to support and resources

FEEL RELIEF PROGRAM | RESPOND TO CRISIS WITH THE RIGHT LEVEL OF SUPPORT

A four-week, fully remote program that includes weekly sessions with trained mental health coaches supervised by a licensed therapist to help participants build resilience and acceptance skills.



Feel App: A mobile app where users can journal their emotions to recognize patterns and triggers of thoughts, emotions, and behavior.



Feel Coach: Weekly remote sessions with a trained mental health coach, personalized based on the data the coach receives through the app. In those virtual sessions, the coach will demonstrate useful techniques to address stress and negative feelings.



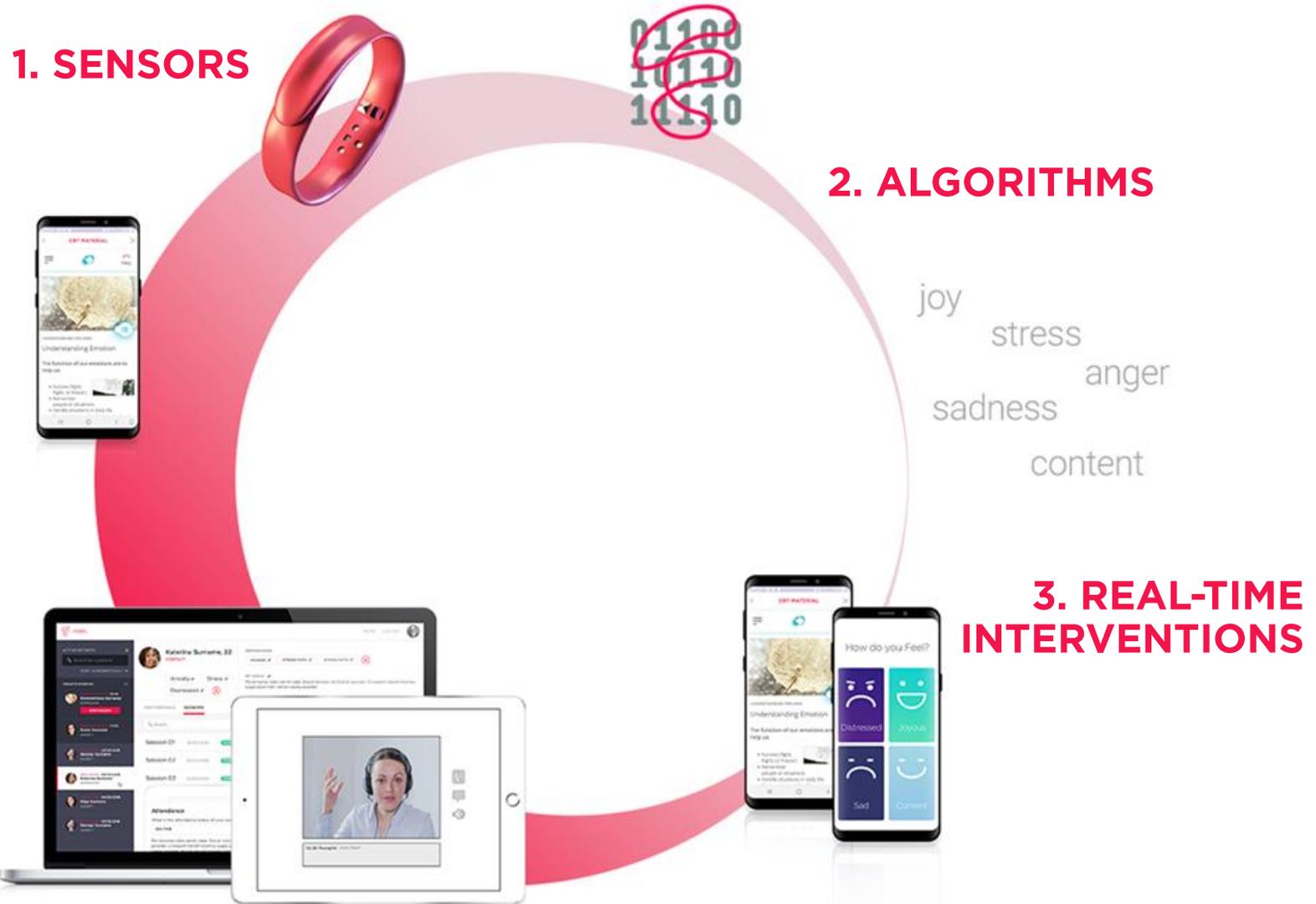
Mental Health Resource Center: Tutorials, exercises, tips, advice and reading material which focus on the challenges faced during the outbreak and use evidence-based techniques such as CBT, Mindfulness, and Positive Psychology to help participants develop mental health coping skills.

MENTAL HEALTH TRIAGE

Immediate support and triage population appropriately based on their needs.



FEEL PROGRAM | END-TO-END PROGRAM FOR DEPRESSION & ANXIETY



FEEL IS UNIQUE | WHAT SETS US APART

**24/7/365
monitoring,
support and care**

**Preemptive and
real-time
intervention**

**Data-driven,
personalized
therapy**



MISSION | BRING OBJECTIVE DATA & ONTIME INTERVENTIONS TO MENTAL HEALTH

TRADITIONAL PSYCHOTHERAPY

UNTIL NOW

Traditional in-person or digital psychotherapy



DATA DRIVEN DIGITAL THERAPEUTICS FOR MENTAL HEALTH

TODAY

FEEL PROGRAM FOR DEPRESSION & ANXIETY
FEEL + CBT THERAPY



BIOMARKERS & DIGITAL THERAPEUTICS FOR MENTAL HEALTH

2023

CLINICALLY VALIDATED BIOMARKERS FOR DIAGNOSIS & MANAGEMENT OF MENTAL DISORDERS

(e.g. indicators of relapse, mood swings, depressive episodes, panic attacks etc.)

TEAM OF 61

8 PHD's IN BIOMEDICAL
ENGINEERING, DATA
SCIENCE & PSYCHOLOGY

12 DATA SCIENTISTS

RESEARCH PARTNERS



DEPARTMENT OF
PSYCHIATRY,
UNIVERSITY OF
CALIFORNIA,
SAN FRANCISCO
(UCSF)



DEPARTMENT OF
PSYCHIATRY,
HARVARD
MEDICAL SCHOOL



AEGINITION UNIVERSITY
HOSPITAL, NATIONAL
& KAPODISTRIAN
UNIVERSITY OF ATHENS

KEY PEOPLE



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COLUMBIA
UNIVERSITY



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TSIRBAS
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PARTNERSHIPS
DELOITTE, FORMER
DIR. POPULATION
HEALTH, OPTUM

INVESTORS



anthemis | group



Felicis Ventures

SOSV

WHAT'S COMING | RESEARCH STUDIES FOR DISCOVERY OF MH BIOMARKERS

Scope	Period	Participant number	Status
Emotional and Cognitive Effects of Psychological Interventions	09/2016 - 08/2017	159	Completed
Learning and memory brain functions	09/2016 - 08/2017	100	Completed
Psychological profiles and personality traits	01/2018 - present	100	Ongoing
ADHD and high-functioning autism in adults	05/2018 - present	100	Ongoing
GAD and MDD as comorbidity to kidney health issues	09/2018 - present	280	Ongoing
GAD and MDD as comorbidity to heart problems	09/2018 - present	150	Ongoing
Burnout & Depersonalization	09/2018 - present	200	Ongoing
ADHD and learning disabilities	02/2019-TBD	150	Pending
Eating disorders	02/2019-TBD	20	Pending