Digital Therapeutics

UNLIMITICS™

FIRST GENERATIVE AI-POWERED SCHOOL SIMULATION GAME - OPTIMISE STUDENTS' EXECUTIVE FUNCTIONING SKILLS

- WELCOME MESSAGE
- UNLIMITICS & DTX
- CURRENT MARKET
- TECHNOLOGY HIGHLIGHTS
- DEMO: QUEST 1
- NEXT STEP

WELCOME

WHAT IS UNLIMITICS™?

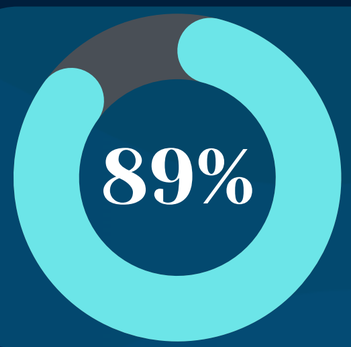
Specifically designed to advance the Executive Functioning Skills of Grade 1 to Grade 8 students, Unimitics generates AI-calibrated scenarios based on real-time input from teachers, clinicians, and guardians. Children can relive a particular moment from their school life for do-overs.

WHAT’S DTX?

“Digital therapeutics deliver evidence-based therapeutic interventions to patients that are driven by high quality software programs to prevent, manage, or treat a medical disorder or disease. They are used independently or in concert with medications, devices, or other therapies to optimize patient care and health outcomes.”

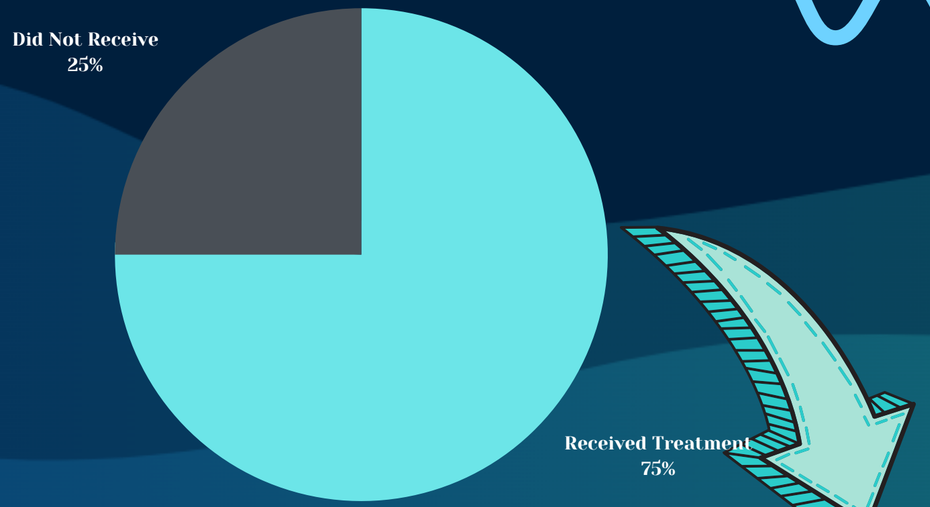
HOW'S THE MARKET?

Amongst participants with ADHD



DEFICITS IN AT LEAST 1 EXECUTIVE FUNCTION

Psychostimulant Medication?



62%

ON PSYCHOSTIMULANT MEDICATION

48%

ADVERSE EFFECTS

PSYCHOSOCIAL TREATMENT?

Unlimitics

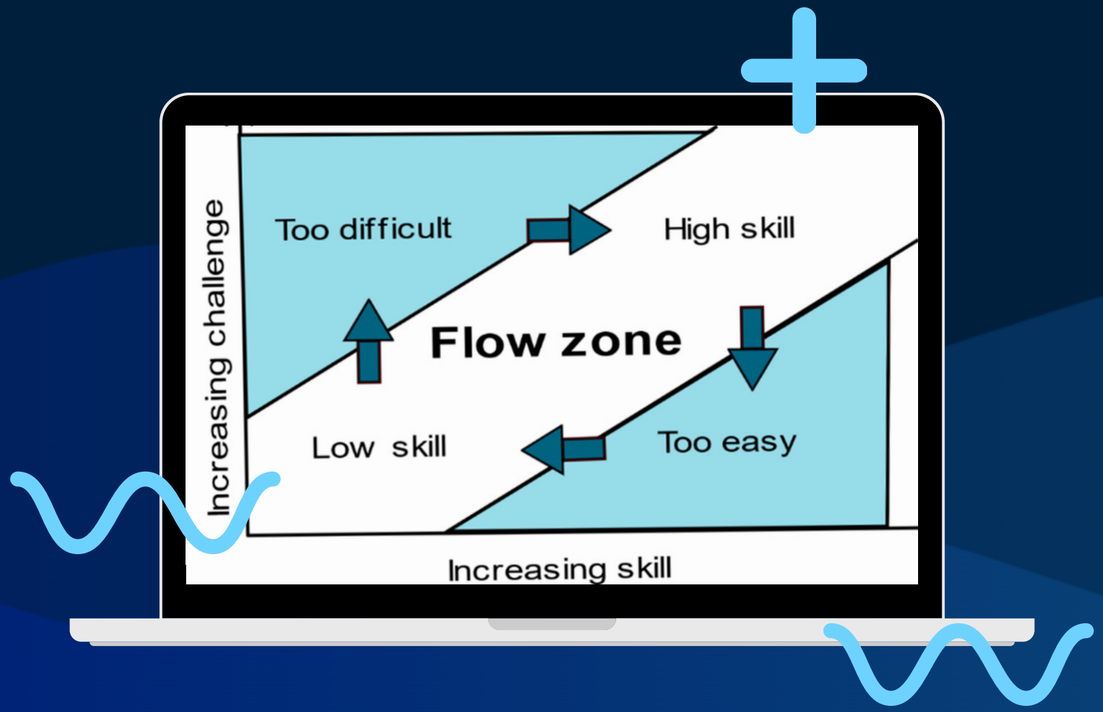
IS THE CHOICE

+ DTX

TOTAL HEALTHCARE COST

TREATMENT EFFECTIVENESS

DYNAMIC DIFFICULTY ADJUSTMENT (DDA)



IT ADJUSTS

...

THE GAME'S PARAMETERS AND COMPONENTS IN REAL-TIME

THE GAME'S DIFFICULTY TO THE PLAYER'S SKILL LEVEL

PLAYERS INTERACTION DATA

INITIAL DATA FROM THE CHARACTER DESIGN FOR TAILOR GAMIFICATION

TIME ELAPSED ON THE QUEST

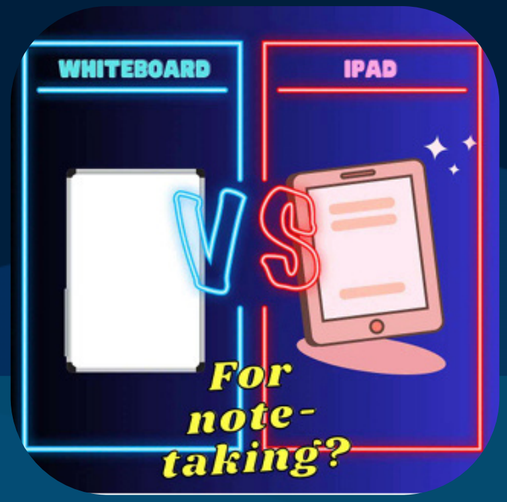
BEHAVIOURAL PATTERN OF PLAYERS

CREATE YOUR OWN CHARACTER

At Personality Panel, players can choose a name, physical ability, social skills, clothing, accessories.

OUR BEST TEAM

Reinforcers



Preferable self-management Style

Common Distractions

COMMERCIALISATION MODEL

01.

MICRO-LEVEL

Children with ADHD, Primary Care Providers, Parents & Guardians

02.

MESO-LEVEL

Teachers, Special Education Needs (SEN) Departments, Mental Health Professionals, Community Members

03.

MACRO-LEVEL

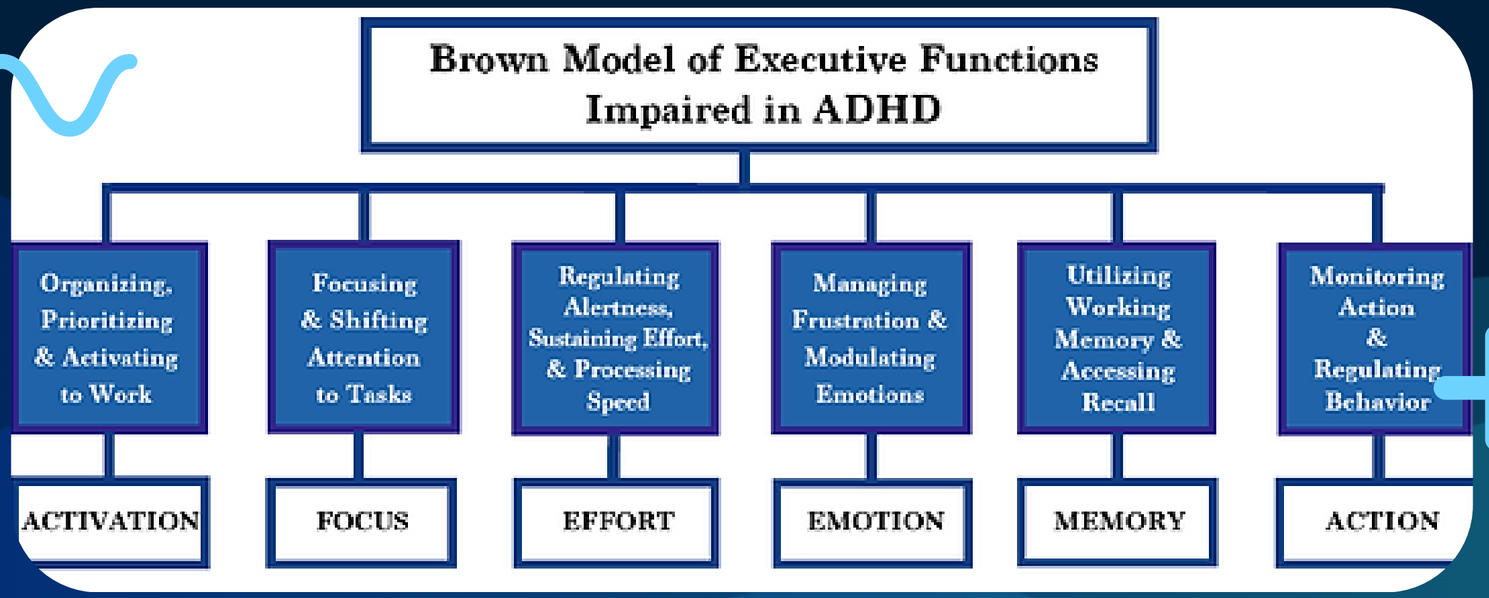
Education Bureau of Hong Kong, NGOs, Formulary Decision-makers

04.

INTERNATIONAL

Markets other than local Hong Kong - PRC, APEC

SCENARIO-BASED LEARNING: THE BROWN MODEL OF EXECUTIVE FUNCTIONS



ACTIVATION

You came back home with three homework assignments:

(1) Compose a 15-second audio clip with your musical instrument using GarageBand

(2) Draw a charcoal self-portrait

(3) Write one paragraph using at least three descriptive devices

As soon as you turn on the computer to work on the music homework, You aren't quite sure what to include in the 15-second clip. You start to google random things online.

However, you need to finish the task before your mum comes back, or else you will lose your weekend computer time.

STAGE 1
OBSTACLES IDENTIFICATION
&
STAGE 2
OPTIONS EXPLORATION

BEFORE THE DEBUT

ARTIFICIAL INTELLIGENCE/MACHINE LEARNING (AI/ML)-BASED SOFTWARE AS A MEDICAL DEVICE (SAMD) AND PREDETERMINED CHANGE CONTROL PLAN

GOOD MACHINE LEARNING PRACTICE

REAL-WORLD PERFORMANCE

THANK YOU