GUIDELINES FOR DESIGNING EFFECTIVE GAMES AS CLINICAL INTERVENTIONS:

Mechanics, Dynamics, Aesthetizs, Outcomes Framework



SERIOUS Games (not purely for entertainment)



- . " gamified" interventions/ gamitication
 - Ly adding extrinsic rewards to an activity who adding nothing c motivational framework
 - Ly eventually feels like . leadurboards
 - TUBMHZULG >
 - ("punishing by rewards") . deadlines
- · points
 - · threats
 - · confetition for rewords

· achievements



- · create intrinsic motivation
 - by futting players in play-ful mindse -
 - Is rewards shouldn't interfere w) intrinsic motivation
 - · noncompetitive
 - " reinforcing
 - · contingent on performance standards -> cause players to want to improve

VO LUNTARY participation



3 GAME

simple definition: "a voluntary attempt to overcome unnecessary obstacles" in-depth definition:

FREE - voluntary participation

SEPARATE / UNPRODUCTIVE / MAKE-BELIEUE - clearly not real life and has no impact on UNCERTAIN - unforseeable outcome real life

GOVERNED BY RULES - rules only in game world, not IRL

need to have All to avoid problem of exhinsic motivation by changing player's () mindset

SEPARATION

Creates a safe player

Space where player

space where player

is not afraid to fair

UNPRODUCTIVE
needs to be unproductive
so that player's attention is
not recalled to real world
outcomes



UNLERTAINTY creater a challenge

MAKE-BELIEVE

allow players to let go of real world outcomes offered by game, like failure and negative feelings

FLOW

Flow: State of intense focus and concentration

How to create ~ flow ~ in a game

O vear goal to focus on

immediate feedback on player actions

Tasks that challenge player appropriately

Ly 1 increase confidence & self-efficacy

decrease negative emotions

motivation!

Creater intrinsic

-> allows players to take risks, experiment, and LEARN!

C GAMES CAN

Encourage behavior change

raise awareness

build self-efficacy to effect change

Marning!

- . simply raising awareness is not enough.
- · Do not use fear-related messaging.

 Be careful when trying to send a message!

 It may produce the opposite effect.

Teach

- · see: flow
- also, games are "cool"

 so pol more inclined to learn
 from them than traditional
 teaching methods



a framework for building engaging games

Mechanics

- . goals, rule sets, components of game,
- · elements for player to interact w/ directly

Aesthetics

emergent emotional responses that asise out of player participating in Dynamics.

8 types of aesthetics:

- · sersaton
- · fartasy
- · narative
- · challenge
- · fellowship
- · discovery
- · expression
- * submission

Aesthetics are a type of Outcome present in virtually any game

Pynamics

- · emergent player behaviors that come out of netraction w/ Mechanics
- · do most of the work achieving desired outcomes.

Outcome

behavioral or intellectual consequences of interacting w/ game.

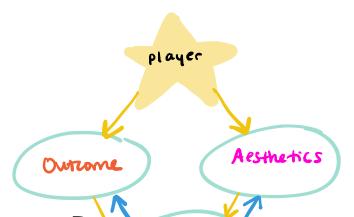
Games purely for entertainment are usually purely Assthetic outcome. Genous games need to consider how mechanics, Dynamics, and Aesthetics affect outcome

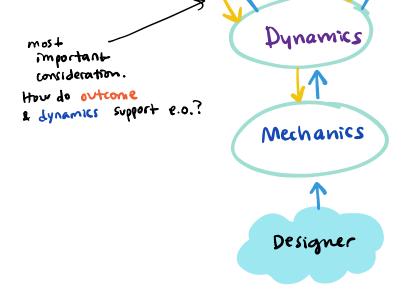
Types of outcomes:

- · Behavior Change
- . Attitude change
- · Information / raising awareness
- . self efficacy / confidence
- · explicit skill (math, proficiency at a task, etc.)
- · Implicit skills (memony, reasoning, etc.)

APPLYING MDAD

designer needs to consider from the player's perspective





An example of how to apply MDAO

