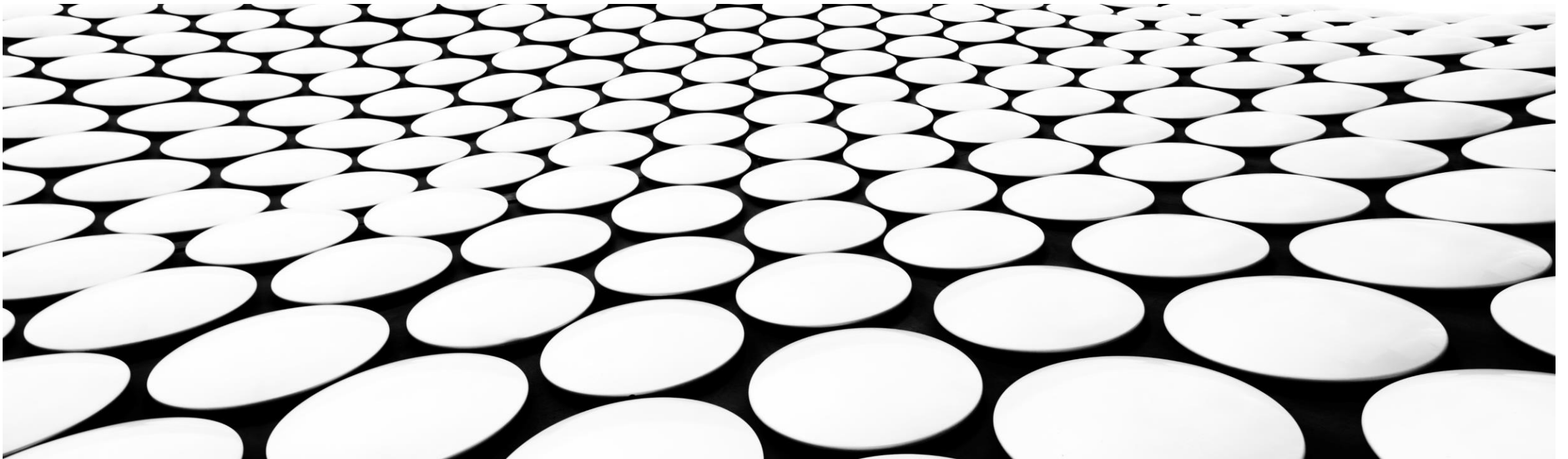
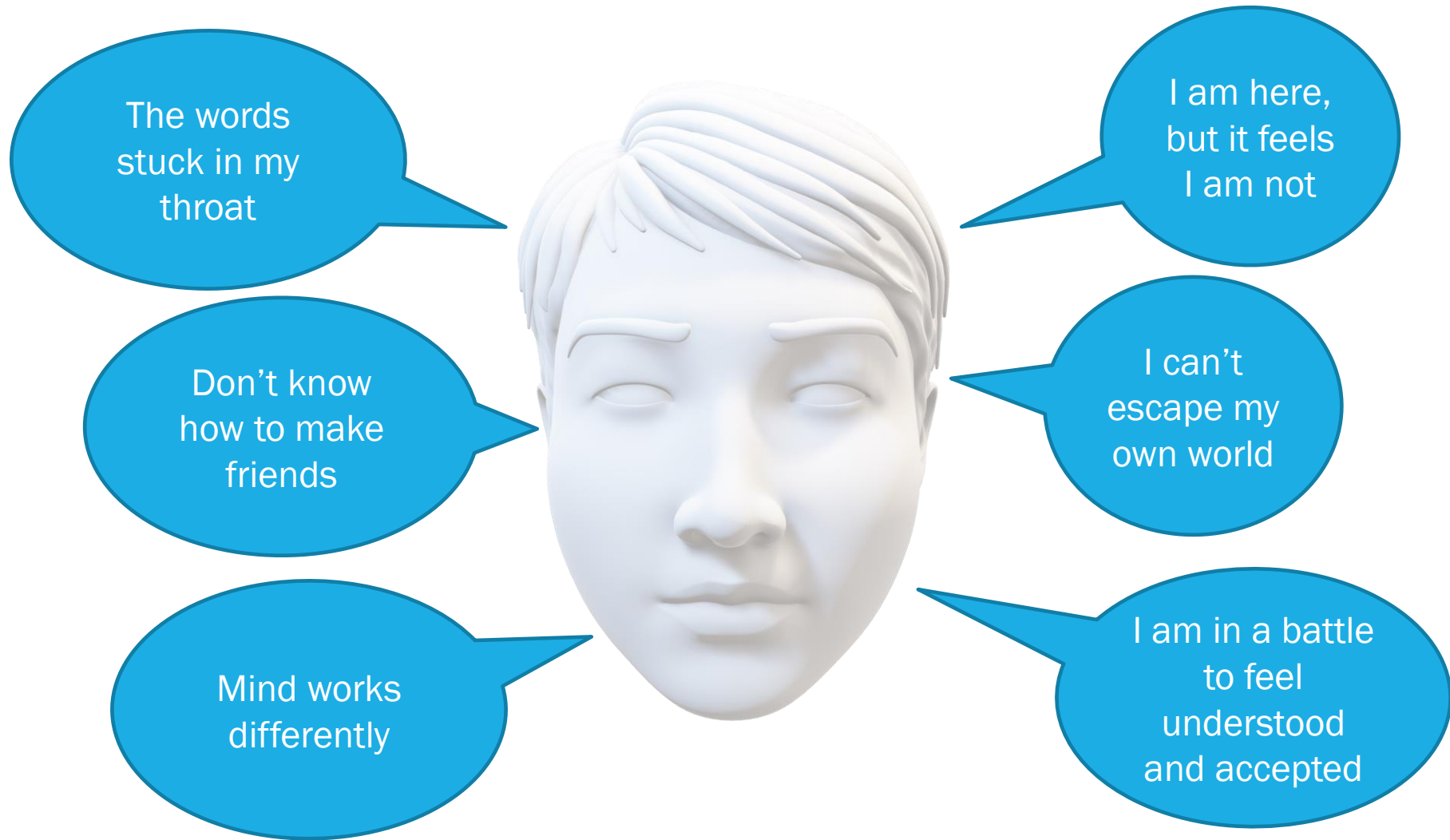

UNLOCKING EMPATHY: BRIDGING THE SPECTRUM IN HIGHER EDUCATION WITH VR

AHMED K. YOUSOF (AYOUSOF@ESU.EDU)

(EAST STROUDSBURG UNIVERSITY OF PENNSYLVANIA)



WHAT DOES IT LOOK LIKE TO BE A PERSON ON THE SPECTRUM?



“EVERYDAY” CHALLENGES THAT [ASD] STUDENTS FACE IN HIGHER EDUCATION

- Tolerating noise



“EVERYDAY” CHALLENGES THAT [ASD] STUDENTS FACE IN HIGHER EDUCATION

- Disconnect between brain and mouth



“EVERYDAY” CHALLENGES THAT [ASD] STUDENTS FACE IN HIGHER EDUCATION

- Overwhelmed by visual details.



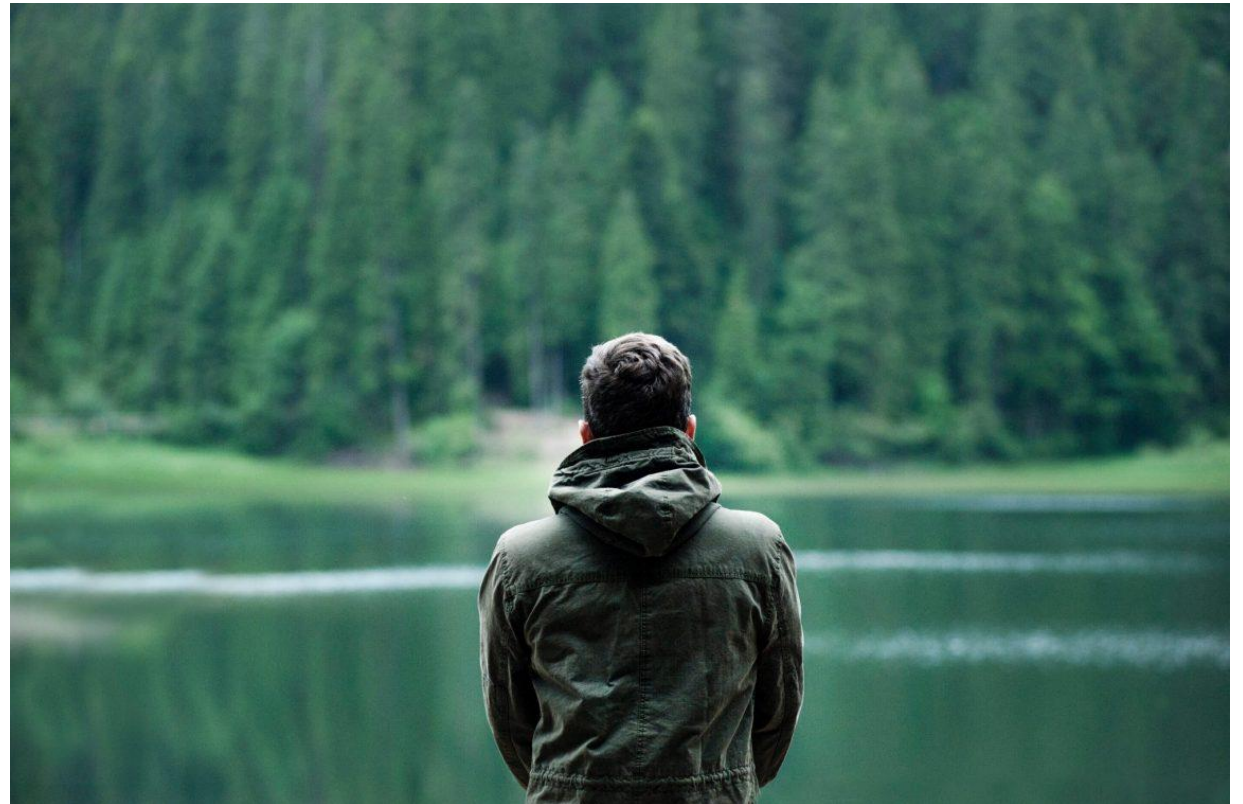
“EVERYDAY” CHALLENGES THAT [ASD] STUDENTS FACE IN HIGHER EDUCATION

- Appear to be unaware when people talk to them



“EVERYDAY” CHALLENGES THAT [ASD] STUDENTS FACE IN HIGHER EDUCATION

- Prefer being alone

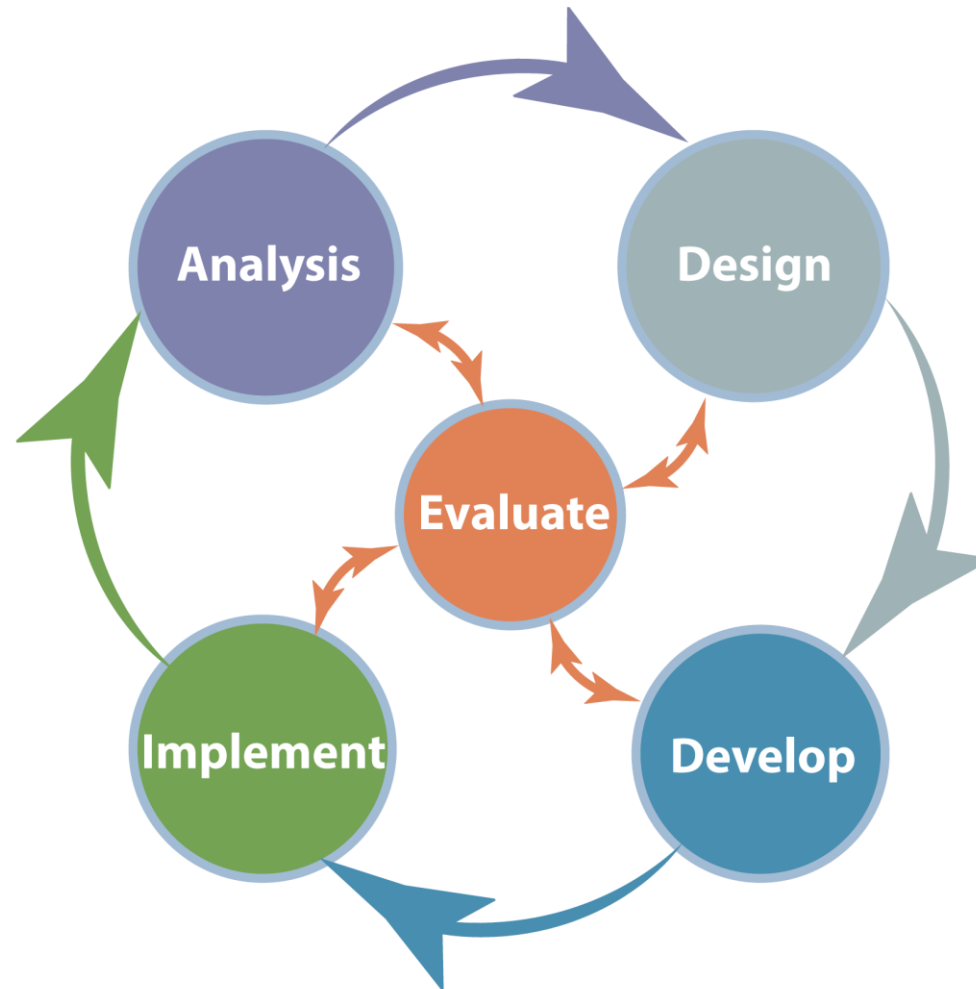


HOW VR CAN BE USED TO UNDERSTAND THE DAILY CHALLENGES?

■ State of Alterity



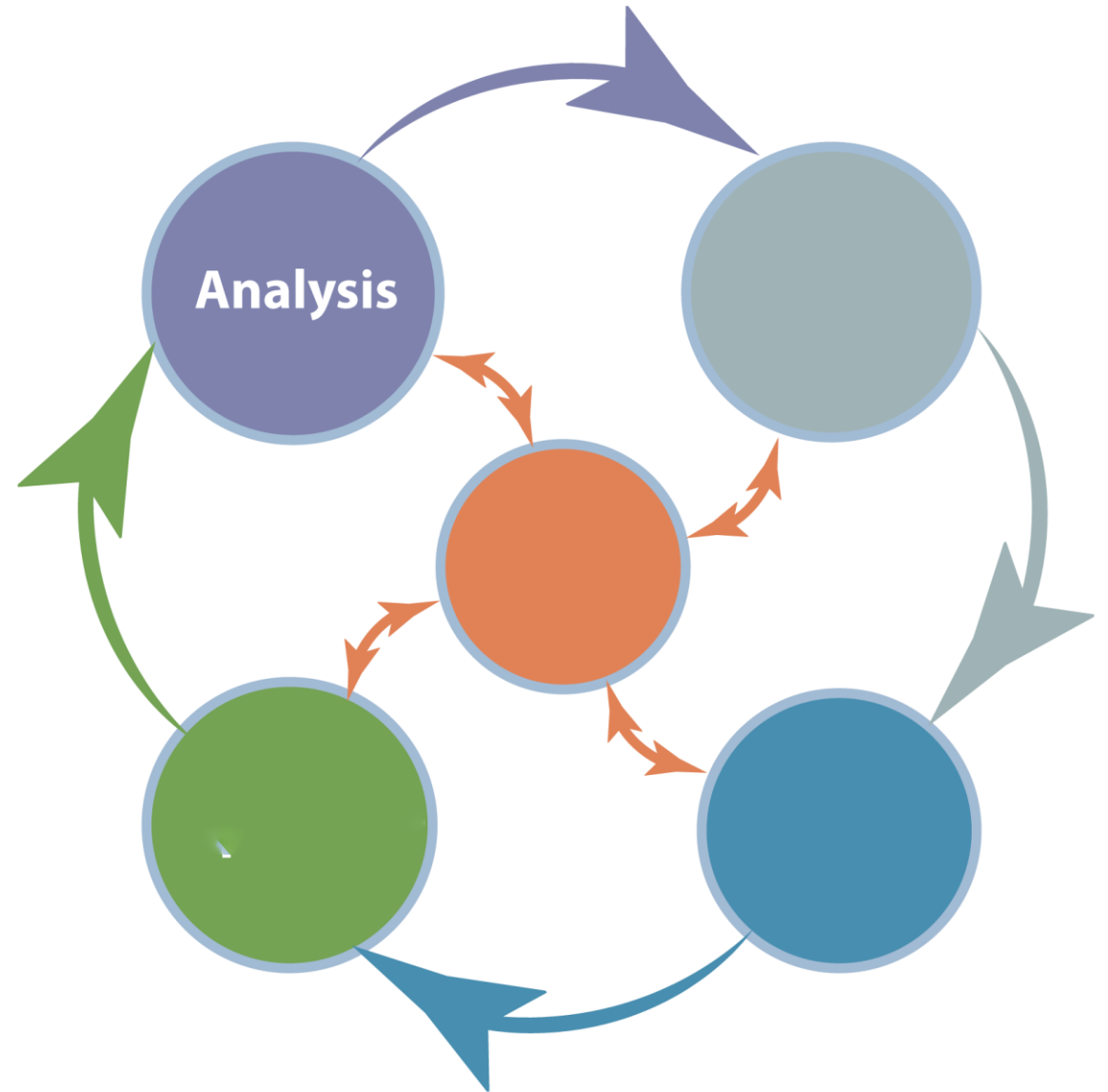
The ADDIE Model



ADDIE MODEL

1- Professional input

2- Input from ASD students



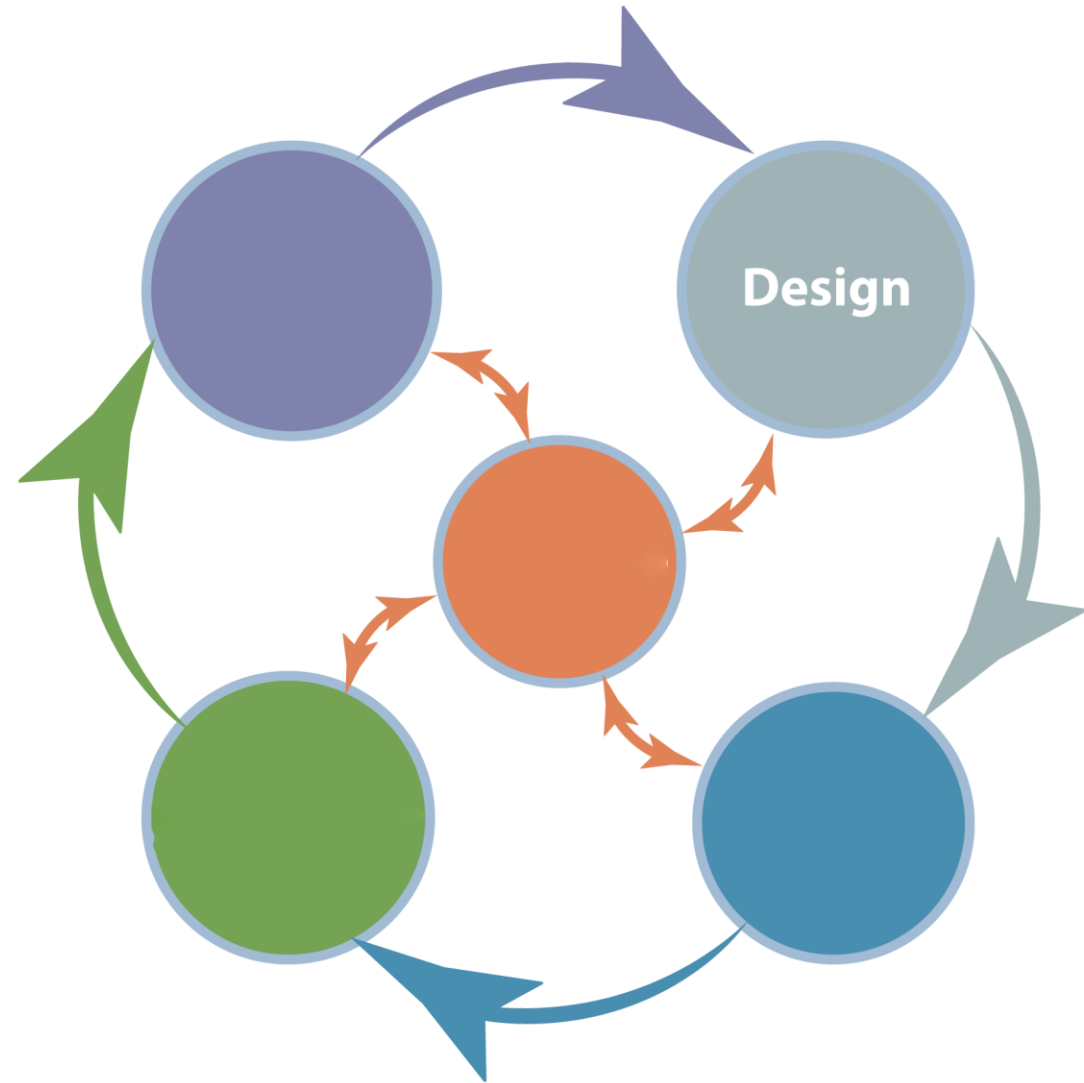
ADDIE MODEL

1- VR training module following ADDIE

2- 360 Video

3- Scenario-based = Interactive

4- You achieve the best score when you alter your identity and think like an ASD student

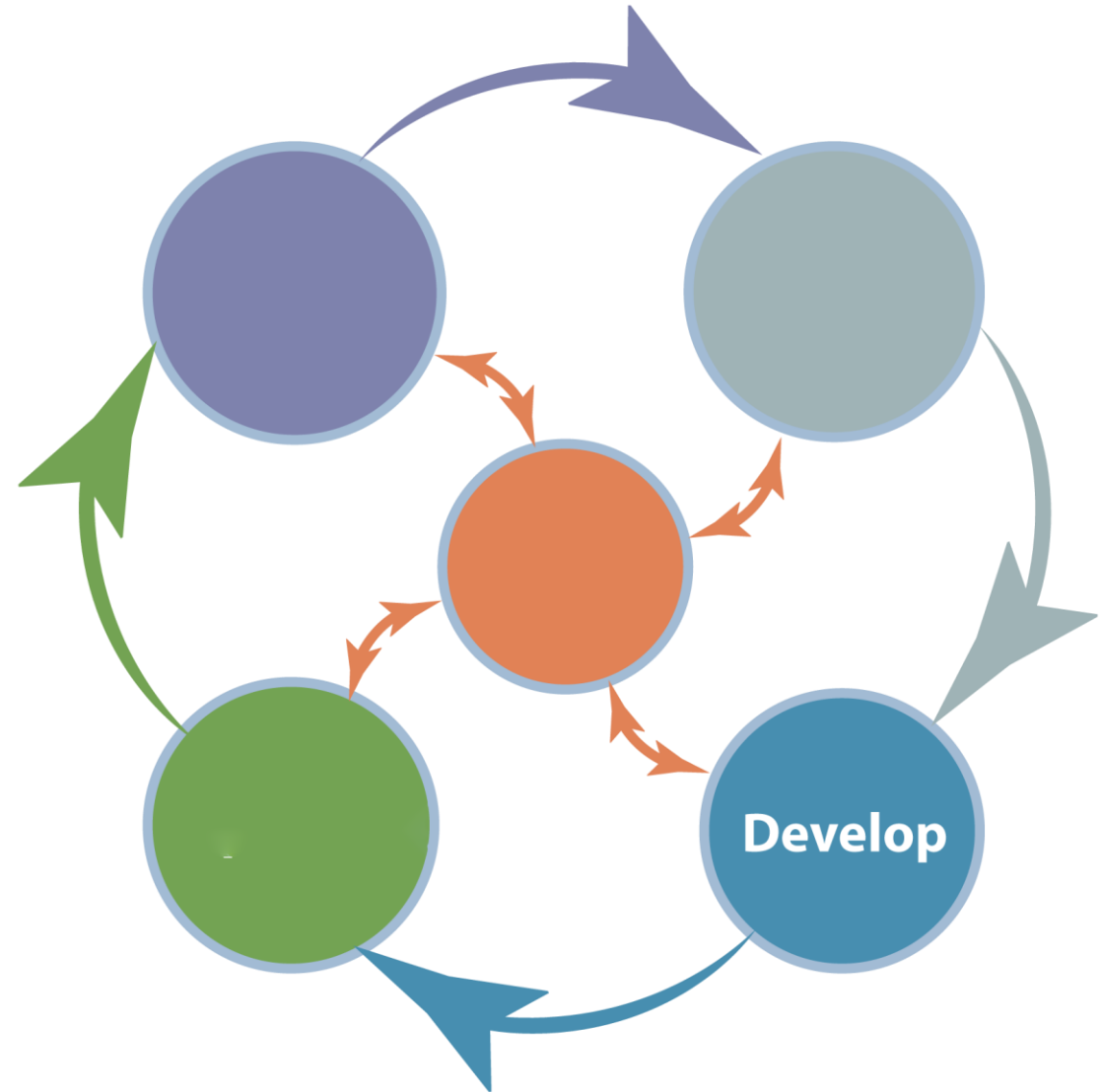


ADDIE MODEL

1- Scenario (Branching Tree)

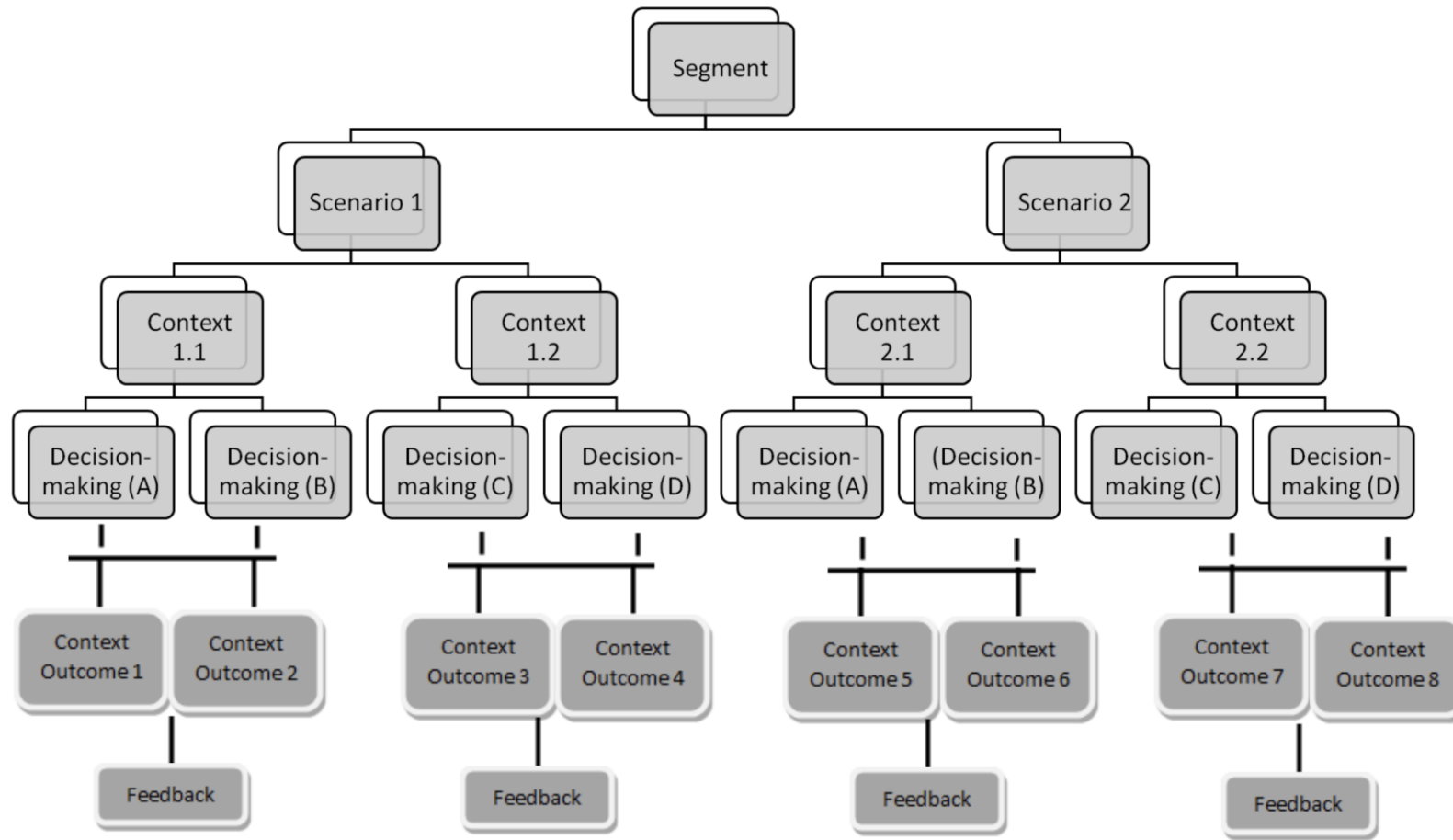
2- Insta360 Pro II Spherical VR 360
8K Camera

3- Script



ADDIE MODEL

1- Scenario (Branching Tree)



Develop

ADDIE MODEL

2- Insta360 Pro II Spherical VR 360
8K Camera

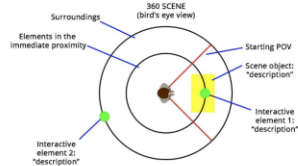


Develop

ADDIE MODEL

TITLE	If I were you....
AUTHOR	Ahmed Yousof
VERSION	1.1
DATE	2/1/2023
This is a very brief 360 interactive movie that is shot from the point of view of a college student who is diagnosed with Autism. The scenes will capture his/her journey throughout 5 hrs on campus. The scenes will portray his/her visual, verbal, and behavioral communication and challenges while attending classes and/or wandering everywhere on campus. The visual effects are not included in this script as well as the interactivity because they will be added later using specific software. The user can hear the inner voice of the student (which probably will be in 8K format). In this script, the camera represents the main character.	

Scene Representation



3- Script



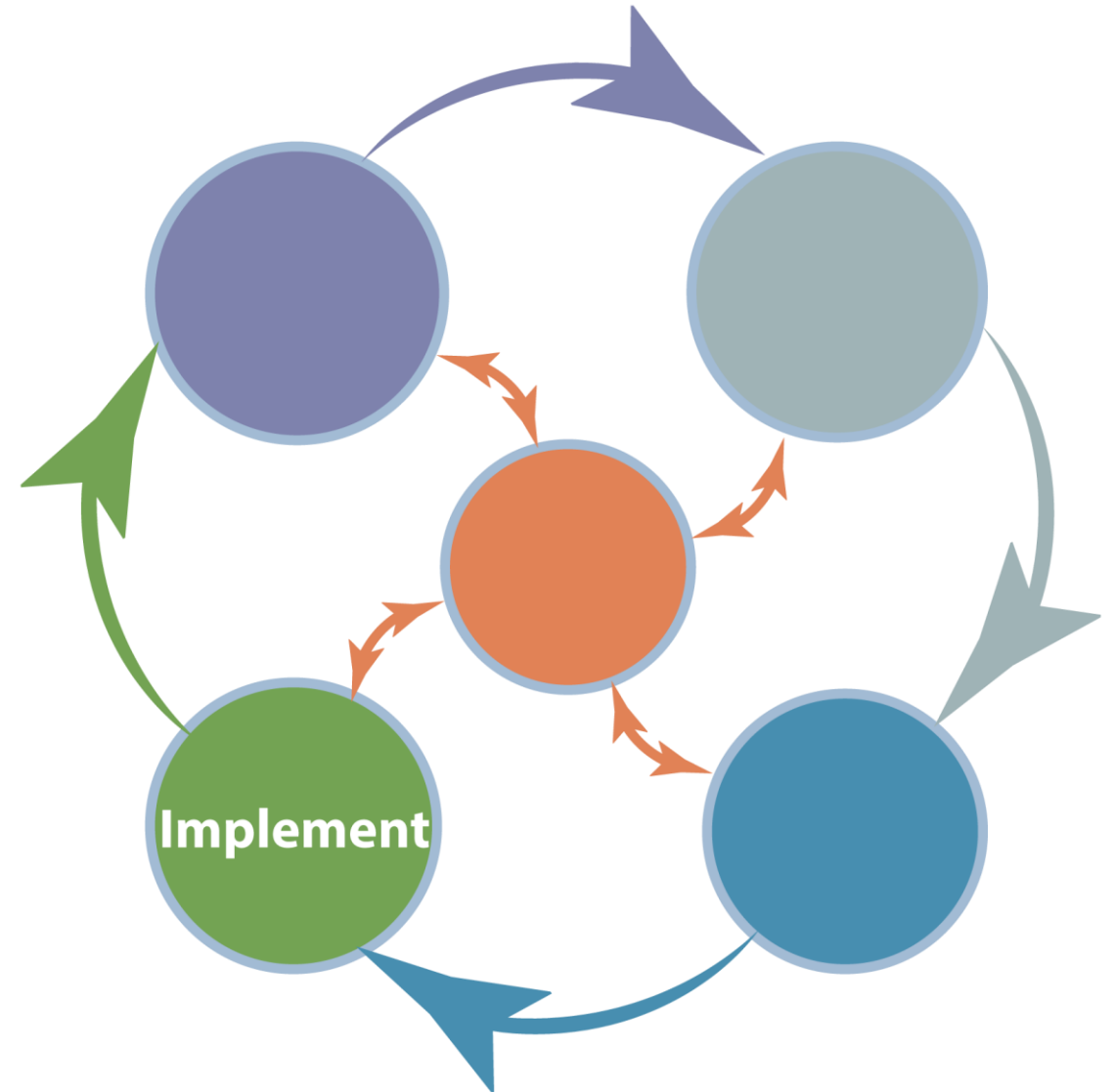
SCRIPT

	Audio	Visual Direction
cene 1.A (Proximity)	Wind and tree leaves can be heard in the background	<ul style="list-style-type: none">- University circle / Or parking lot- A hand is closing the car door and the camera is walking towards the building where the class is. A few students and passersby are walking in the yard. The camera is trying to walk away and create a distance from the walking students
Scene 1.B (Proximity)	Wind and tree leaves can be heard in the background	<ul style="list-style-type: none">- University circle / Or parking lot- A hand is closing the car door and the camera is walking towards the building where the class is. A few students and passersby are walking in the yard. The camera is getting in close proximity to students. Some of them will look at the camera with annoyed face, while others will try to make a distance by slightly stretching their hands toward the camera.
Scene 2.A (Proximity)	Talks and chats of people in the background.	<ul style="list-style-type: none">- Inside a hallway- The camera is walking to the classroom. The camera is keeping a distance from students who are walking in the hallway
Scene 2.B (Proximity)	Talks and chats of people in the background.	<ul style="list-style-type: none">- Inside a hallway- The camera is walking to the classroom in a very close proximity to students who are walking in the hallway. Some students will give a way to the camera, while others will make a distance by stretching their hands.

ADDIE MODEL

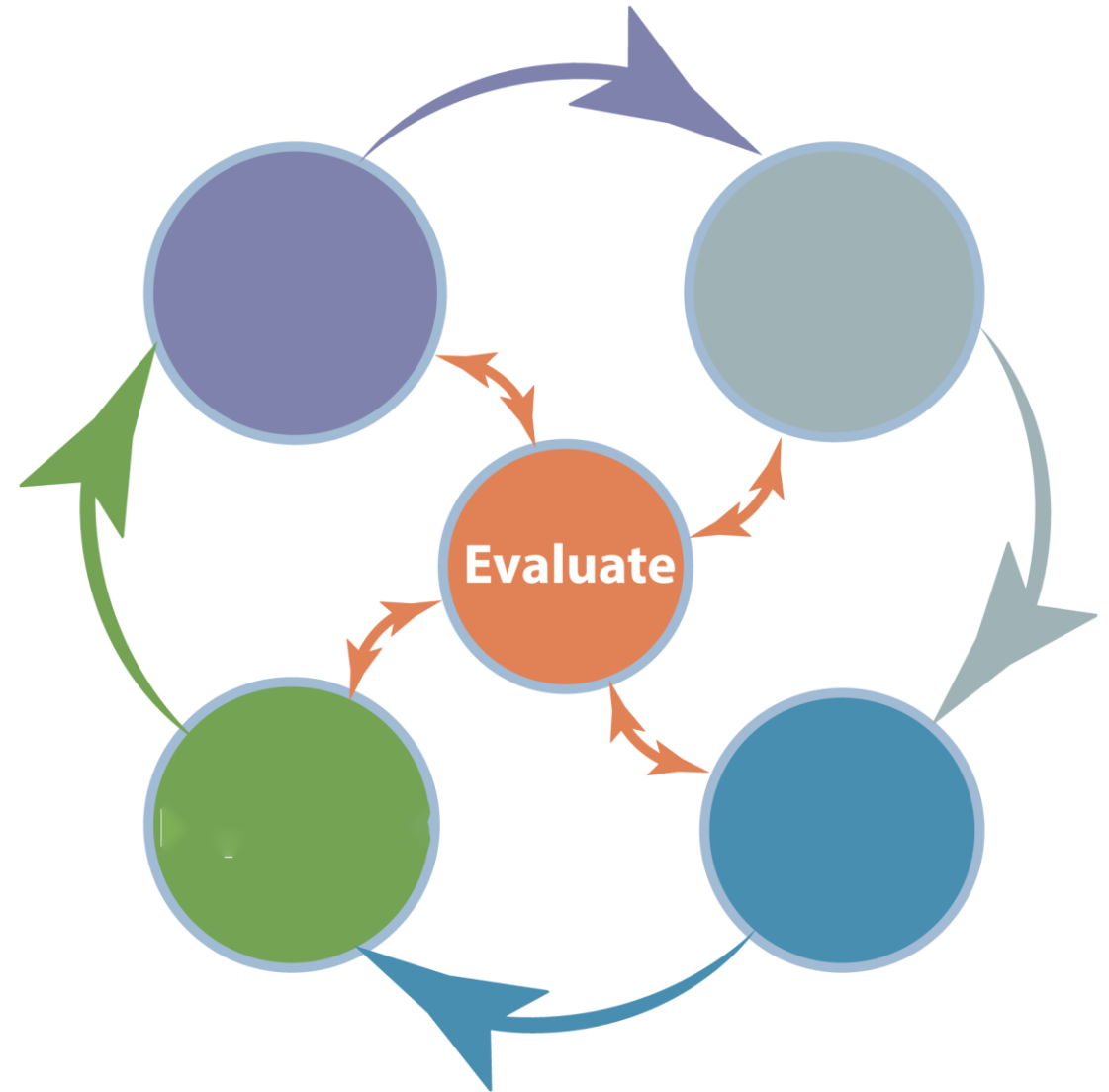
1- Technical Feedback (UI and UXD)

2- Piloting the training Module



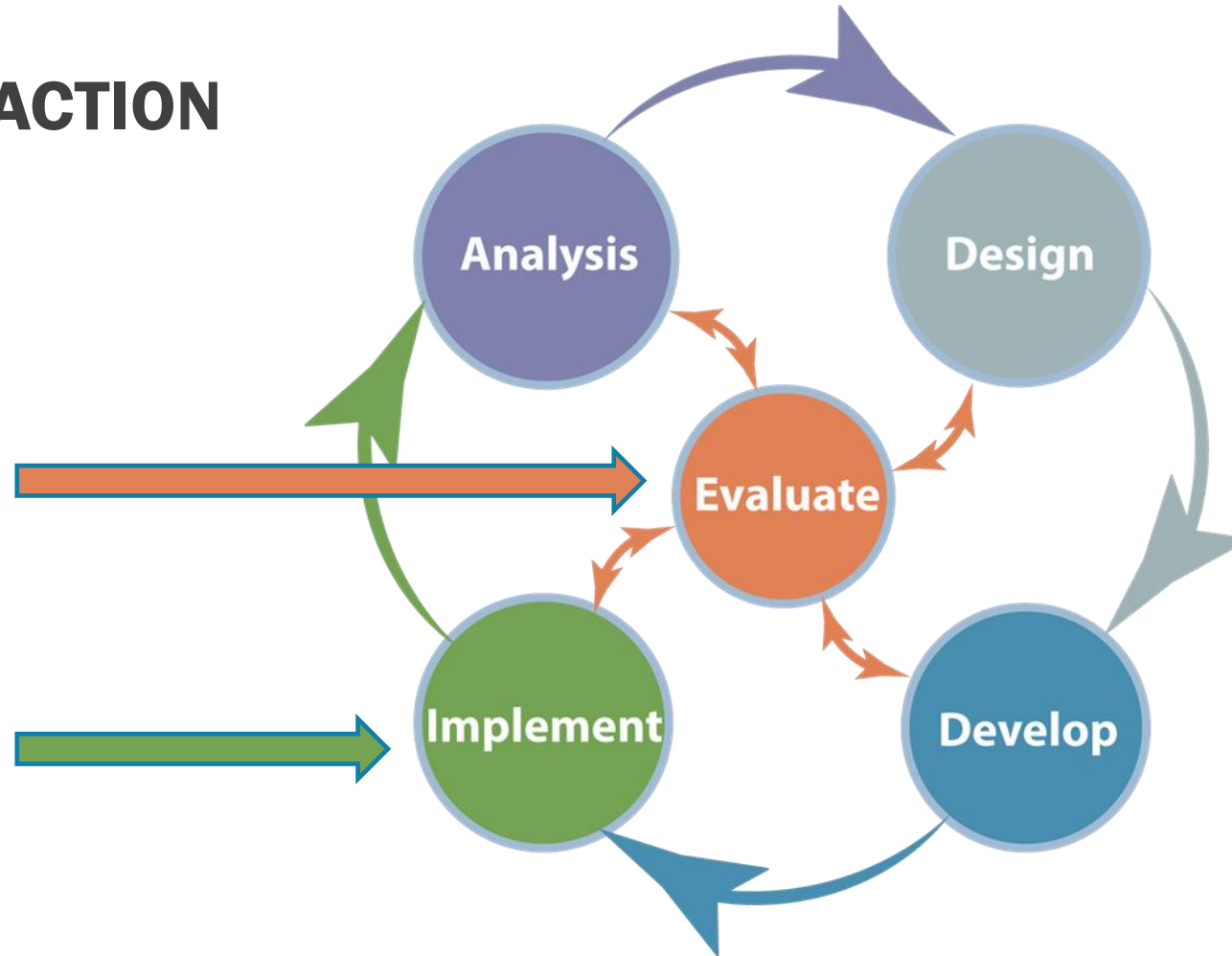
ADDIE MODEL

1- Assessing the effectiveness of the training module



CALL FOR AN ACTION

Help with the
implementation and
measurement of
effectiveness



QUESTIONS



THANK YOU

- Ahmed K. Yousof (*Ph.D.*)
- East Stroudsburg University of Pennsylvania (ESU)
 - ayousof@esu.edu