

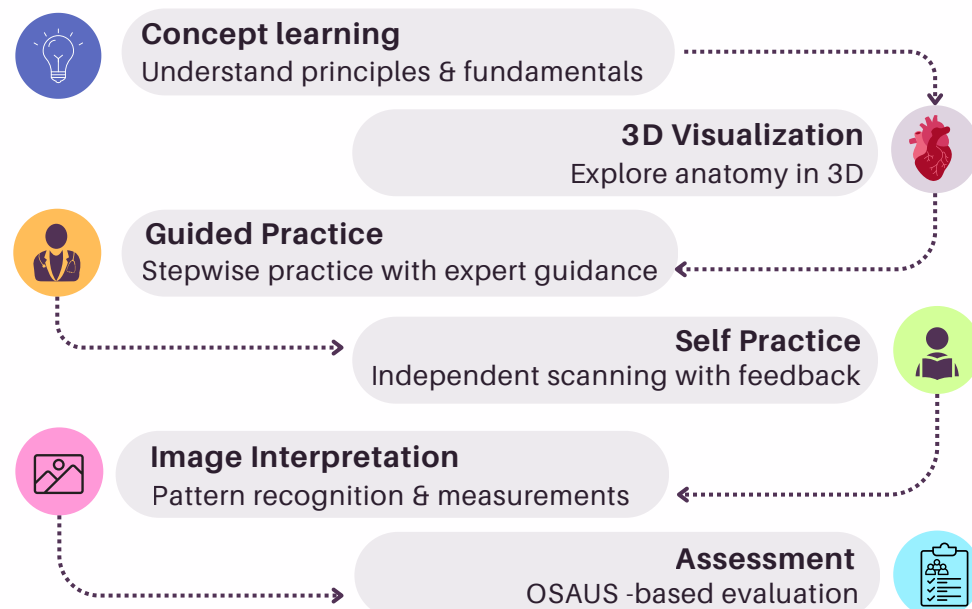


1 WHY? Clinical Training Challenge

-  Lack of spatial anatomy understanding
-  Steep learning curve & high dependence on mentors
-  Limited hand-on practice opportunities
-  Time & resource intensive traditional apprenticeship

Need for an immersive, sel-directed, scalable training solution to build competency early and improve clinical outcomes.

2 HOW? Training Framework



3 WHAT? Our Mixed Reality Simulator



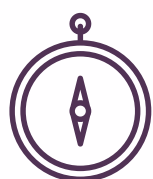
Real Volumes >300+ 2nd trimester normal fetal ultrasound volumes

ISUOG BT Guidelines Based training experience

LMS Integrated Learning management System



Replicates Real-scan conditions



Intelligent feedback & haptic cues



Dynamic fetal movements



Diverse cases & scenarios



Safe, repeatable & self-directed learning

4 DID IT WORK? Qualitative Validation



12
TRAINEES



8
EXPERTS

Overall Usability Rating

4.35 / 5



(Highly Usable)

Ease of use/Intuitiveness

4.46

Percieved Realism

4.31

Improvement in understanding

4.39

Training Effectiveness

4.33

“The simulator is intuitive, realistic and highly usable. It can help trainees build confidence and skills for early clinical practice”