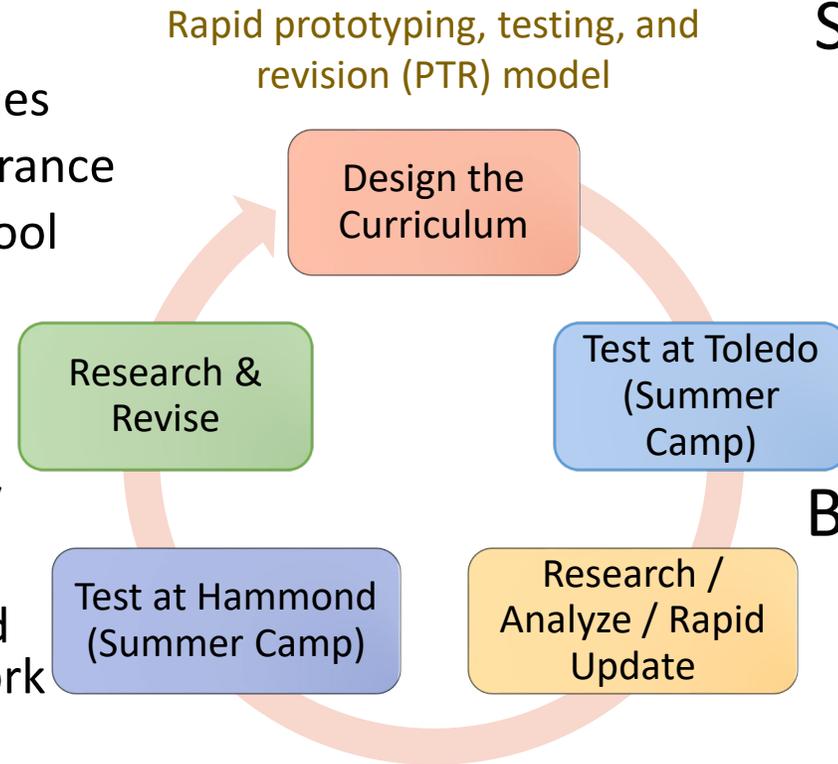# SaTC: EDU: Collaborative: **IN**teractive Animated **VI**sualization and PracTice basEd **Cyber**security Curriculum and Training (**InviteCyber**) Framework for Developing Next-gen Cyber-Aware Workforce

Challenges

- Increased Use of Smartphones
- Skill Gap, cybersecurity ignorance
- Lack of nationwide high-school cybersecurity curriculum standards

Solution

- Cybersecurity curriculum w/ smartphone app dev
- Accompanied with animated visualization based framework
- Enhancing cyber-awareness

Rapid prototyping, testing, and revision (PTR) model

- Design the Curriculum
- Test at Toledo (Summer Camp)
- Research / Analyze / Rapid Update
- Test at Hammond (Summer Camp)
- Research & Revise

Scientific Impact

- Identify module/topic characteristics that interest students
- Evaluate curriculum quality
- Evaluate change in student perception and problem-solving

Broader Impact

- Two geographical areas of OH and IN will be directly impacted
- Possibility of wider adoption
- Address cybersecurity skill shortage (long term)