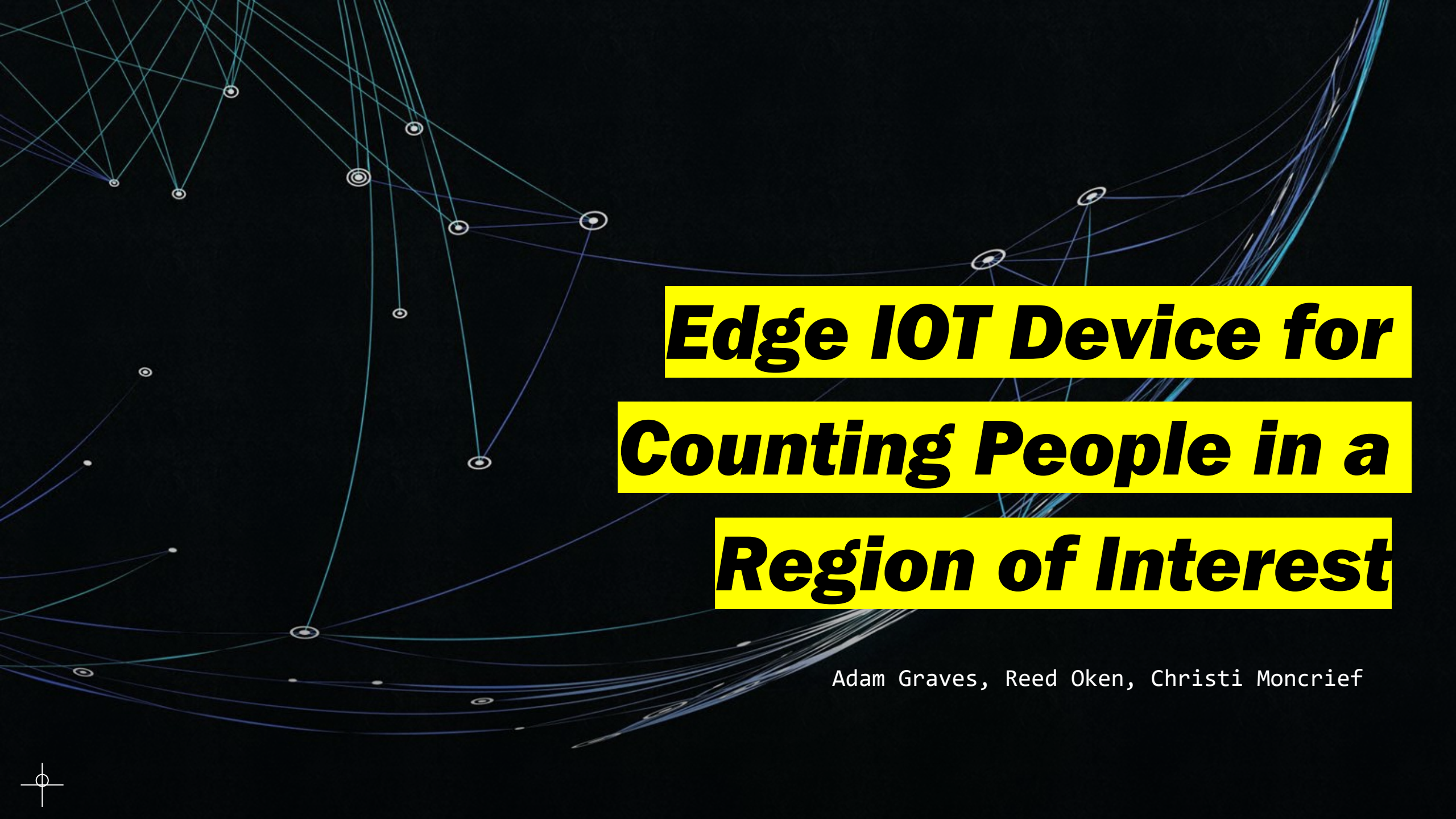
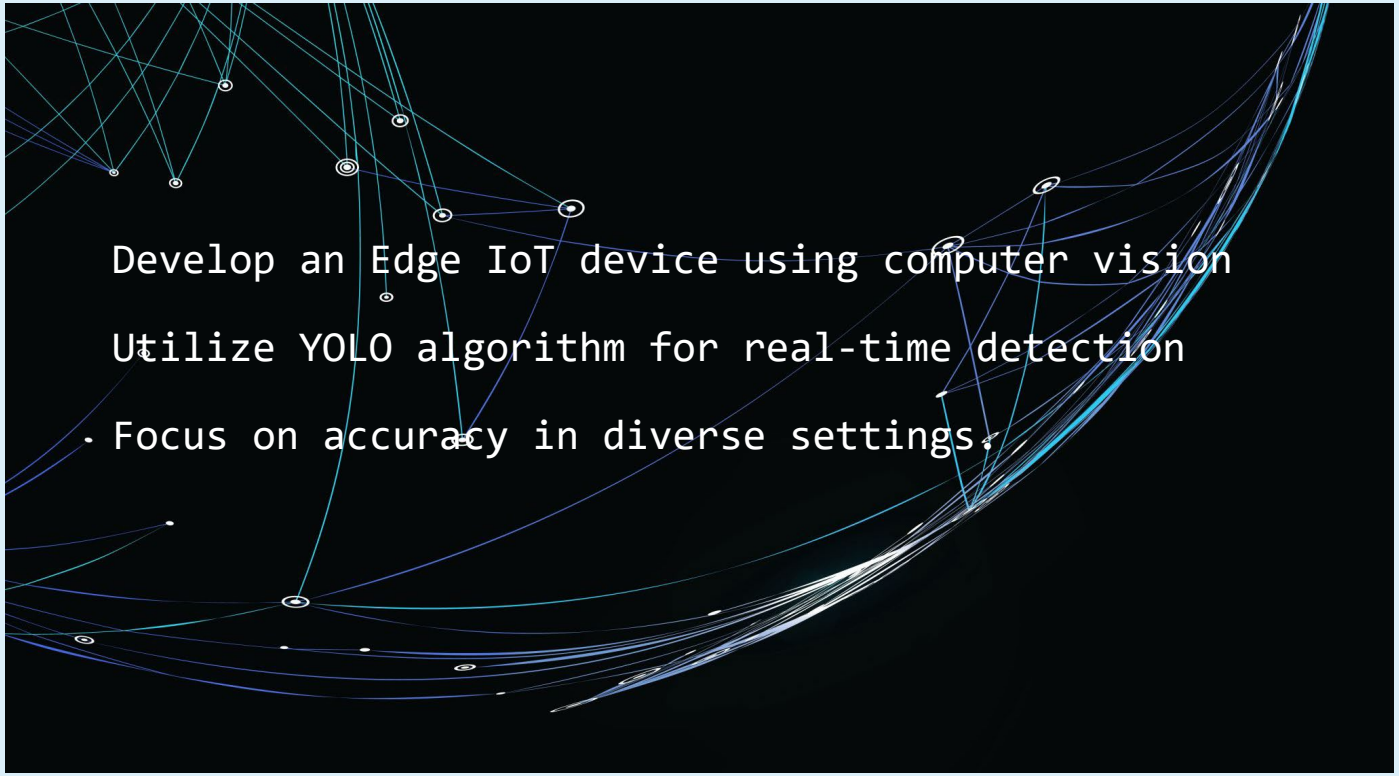


Edge IOT Device for Counting People in a Region of Interest

Adam Graves, Reed Oken, Christi Moncrief

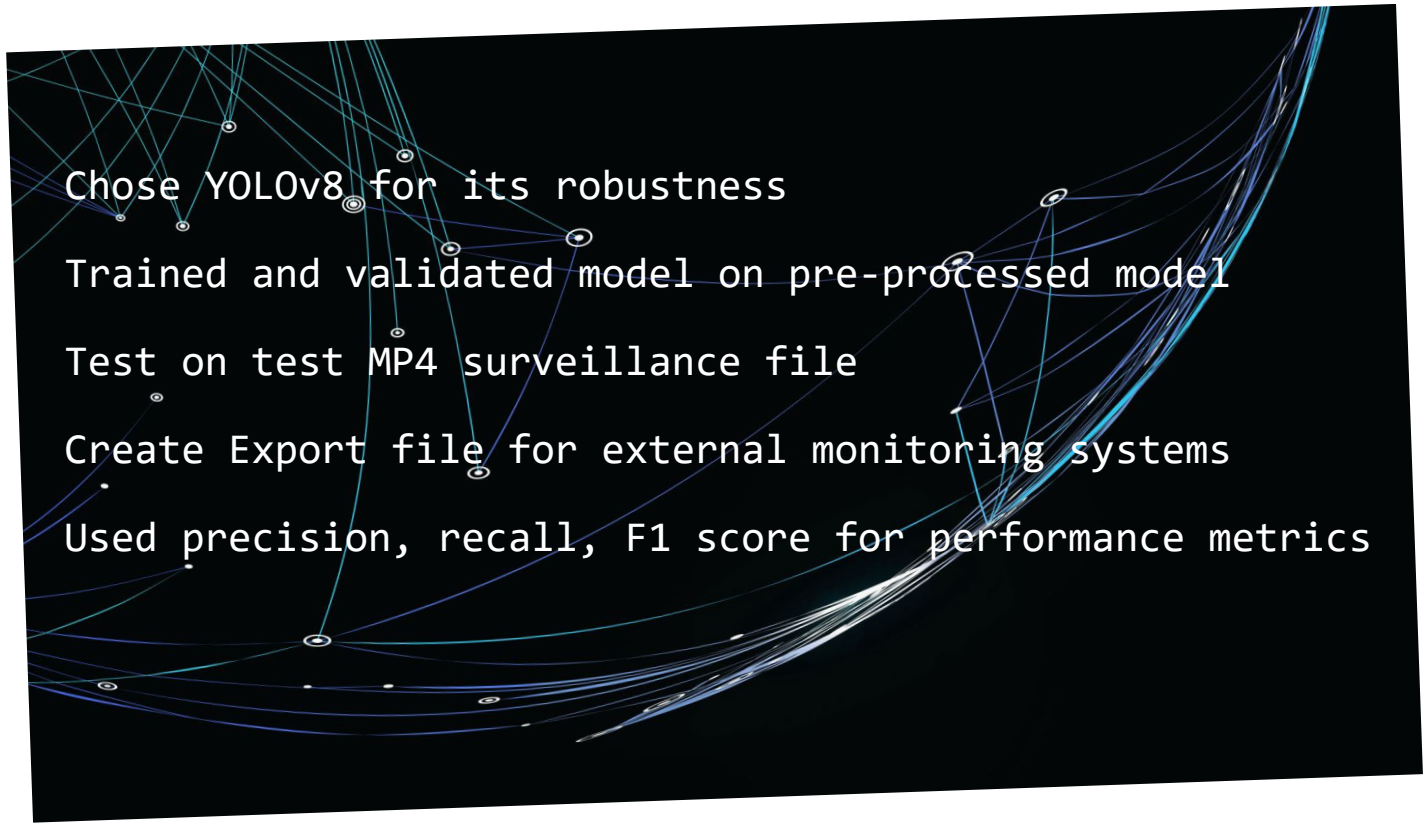

Need for accurate people counting in various environments
Crucial for safety and efficiency
Demand for adaptable, precise solutions

Situation

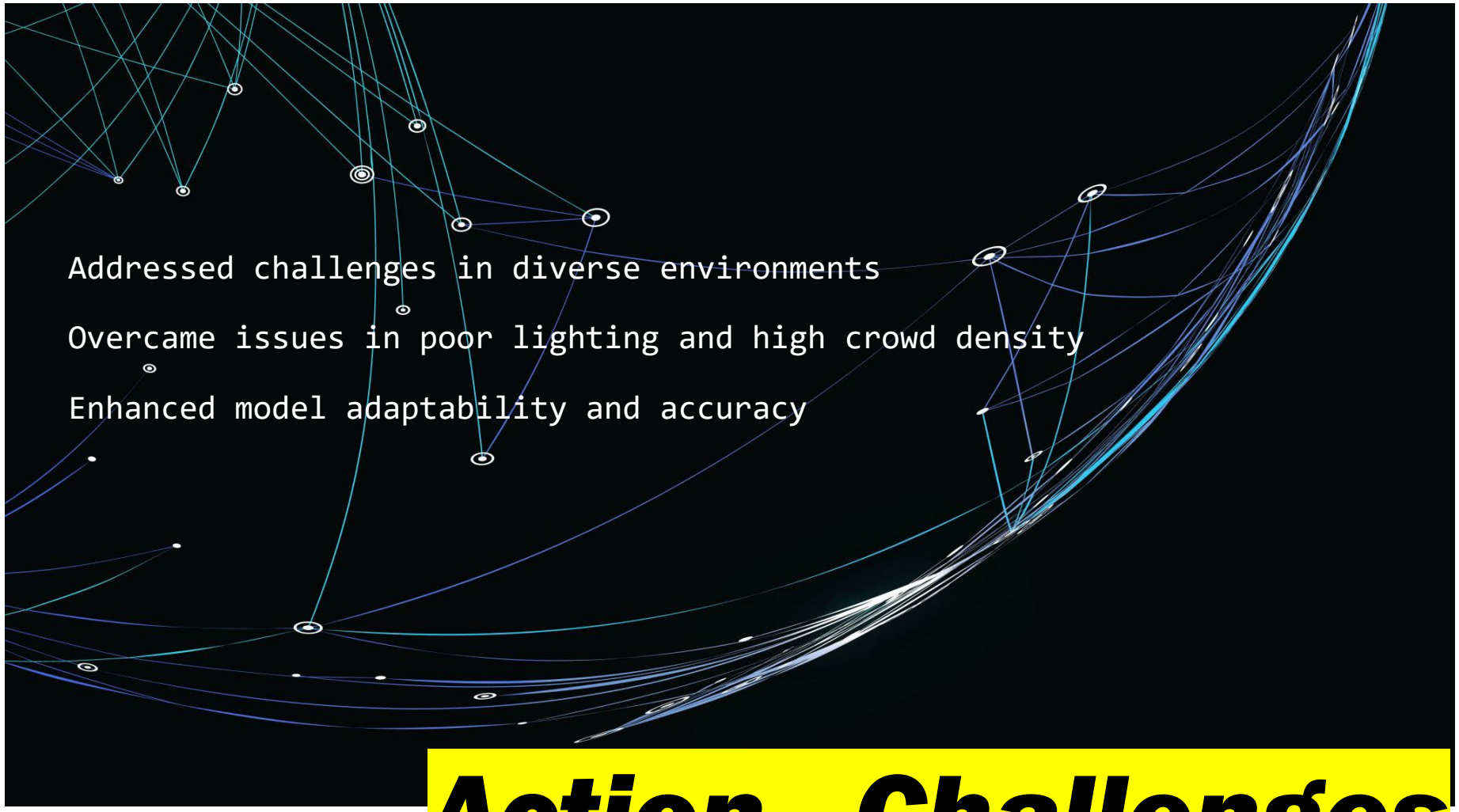

Develop an Edge IoT device using computer vision
Utilize YOLO algorithm for real-time detection
Focus on accuracy in diverse settings.

Task

Action – Data Preprocessing

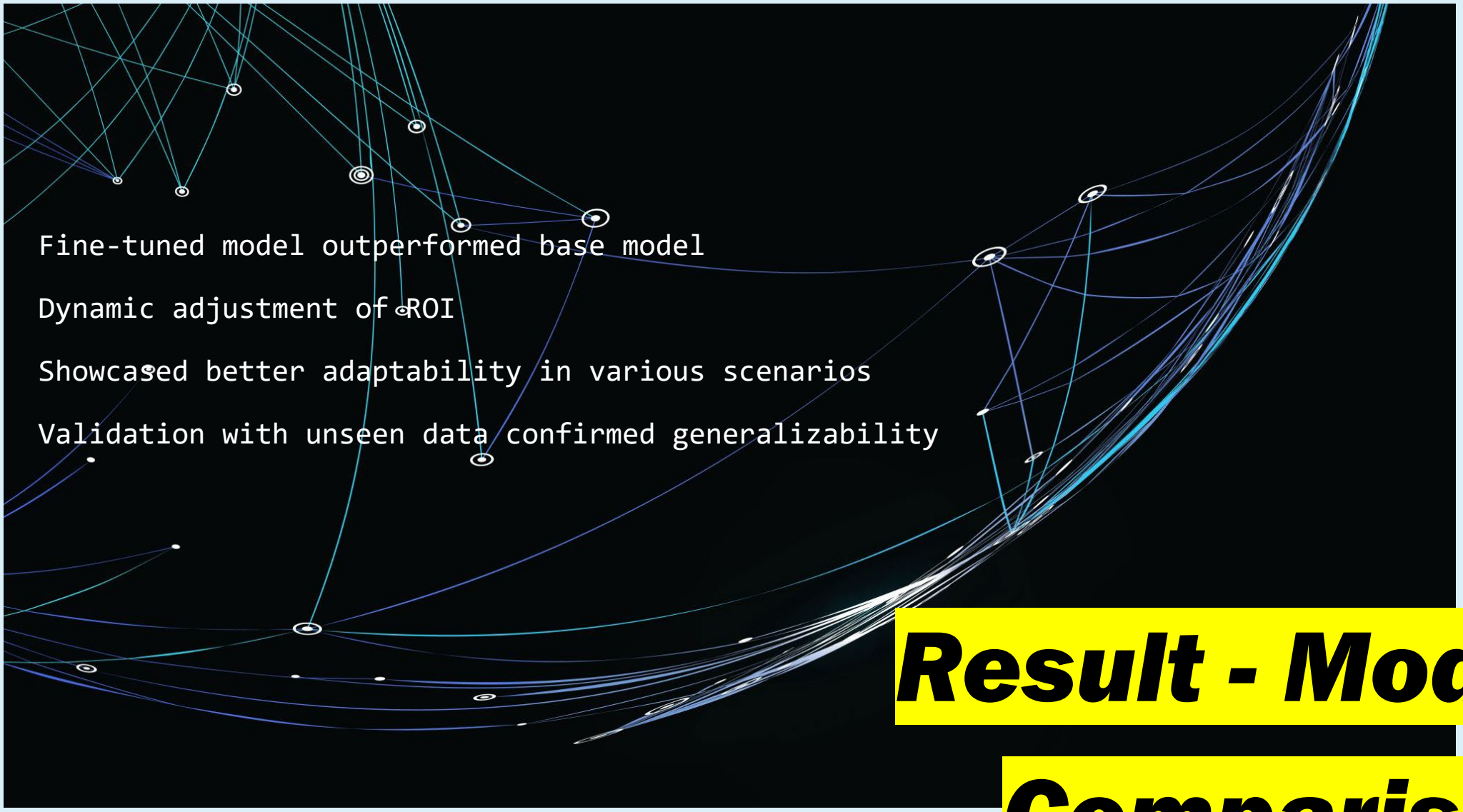


Action - Modeling

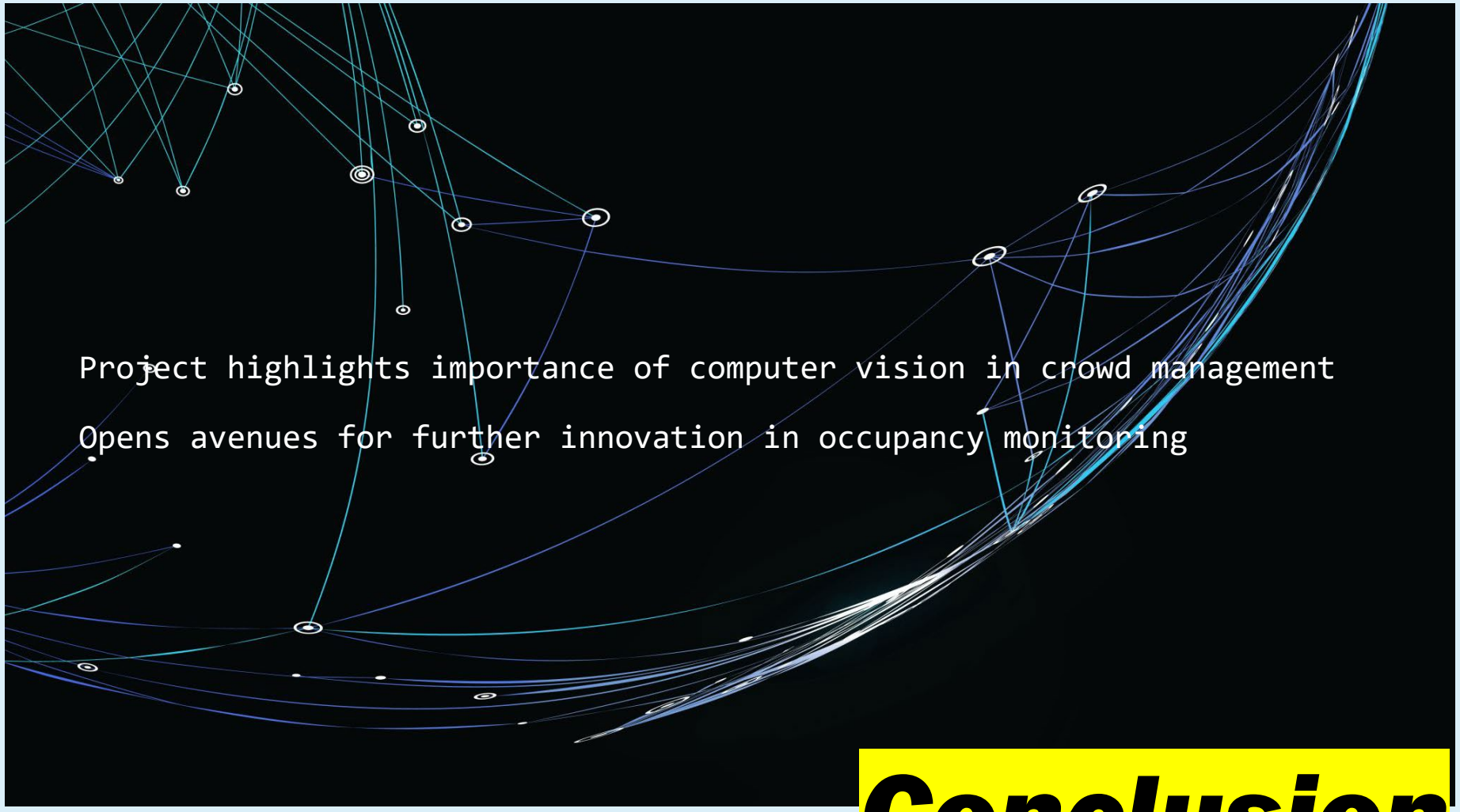


Action - Challenges

Result - Primary Findings



Result - Model Comparison


Project highlights importance of computer vision in crowd management
Opens avenues for further innovation in occupancy monitoring

Conclusion

Team Contributions

Adam

- In-code documentation, and readability
- Technical coding
- Model training, iteration, and testing

Reed

- In-code documentation, and readability
- Technical coding
- Model training, iteration, and testing

Christi

- Code validation
- Final technical report
- Built final presentation