# Discussion Questions

**1.** Can simulated data replace the real world data for autonomous driving? Computer vision?

**2.** How should the balance between real-world data and rendered synthetic data be optimized? Will the distribution gap between the generated synthetic data and the real-world data influence the model training?

**3.** Can simulated data be used to address the events from long-tail distribution (i.e., accidents, etc.)?

**4.** Is simulation truly necessary for autonomous driving?

**5.** Why is manual 3D asset creation problematic and how do authors tackle this issue? Any alternative ways to address these issues?

**6.** What are the advantages of using 3D information for placing new objects in existing images? Will future approaches also require explicit 3D modeling for this task?

**7.** Would the models trained on the GeoSim data generalize to scenarios in other countries?

**8.** Can GeoSim also incorporate other types of objects (i.e., cars, pedestrians, animals)?

# Discussion Questions

**1.** Can simulated data replace the real world data for autonomous driving? Computer vision?

# Discussion Questions

**2.** How should the balance between real-world data and rendered synthetic data be optimized? Will the distribution gap between the generated synthetic data and the real-world data influence the model training?

# Discussion Questions

**3.** Can simulated data be used to address the events from long-tail distribution (i.e., accidents, etc.)?

# Discussion Questions

**4.** Is simulation truly necessary for autonomous driving?

# Discussion Questions

**5.** Why is manual 3D asset creation problematic and how do authors tackle this issue? Any alternative ways to address these issues?

# Discussion Questions

**6.** What are the advantages of using 3D information for placing new objects in existing images? Will future approaches also require explicit 3D modeling for this task?

# Discussion Questions

**7.** Would the models trained on the GeoSim data generalize to scenarios in other countries?

# Discussion Questions

**8.** Can GeoSim also incorporate other types of objects (i.e., cars, pedestrians, animals)?