AI DEPLOYMENT LESSONS LEARNED

Missy Cummings, PhD

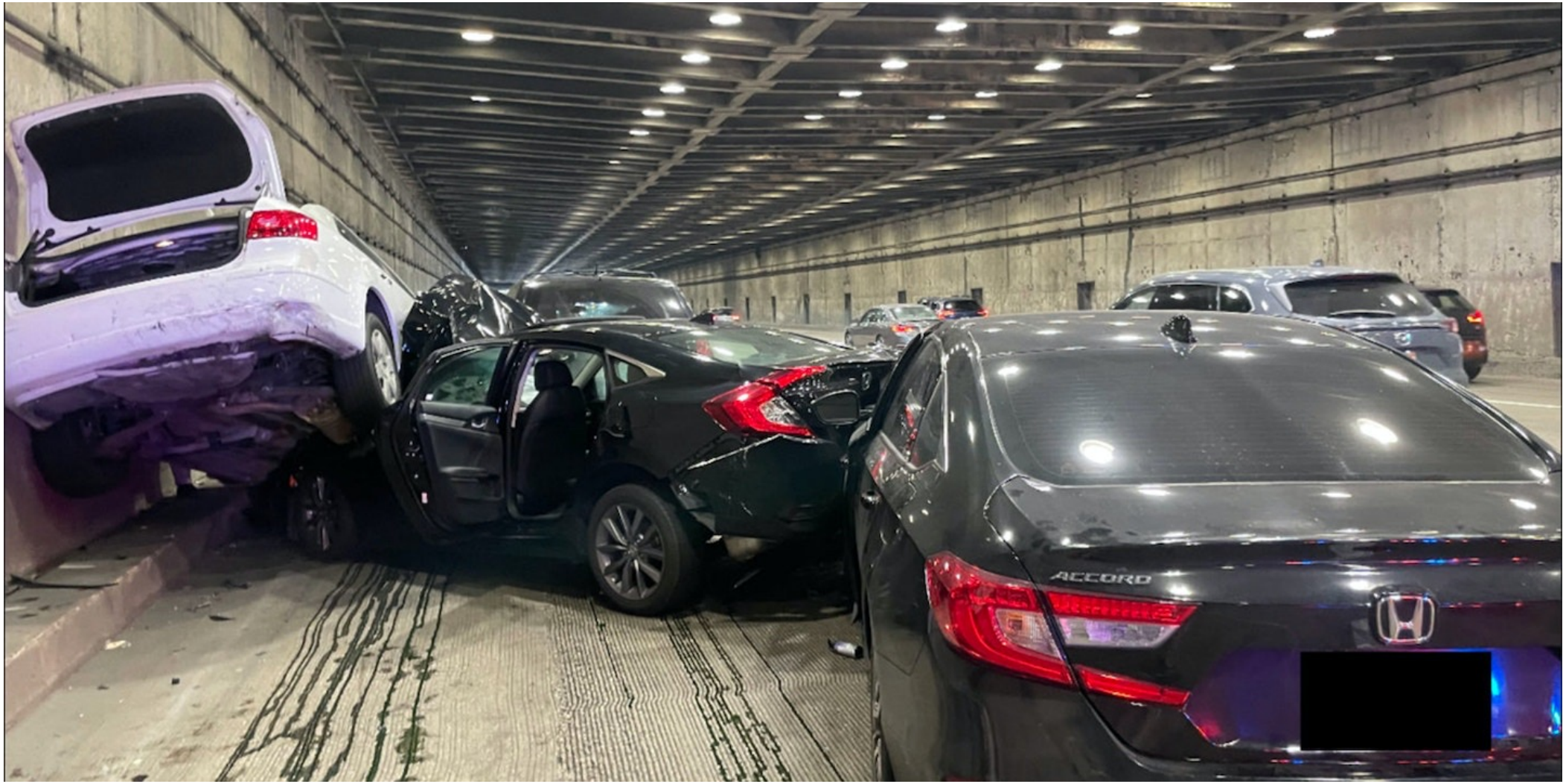
George Mason University

5 AI Deployment Lessons Learned

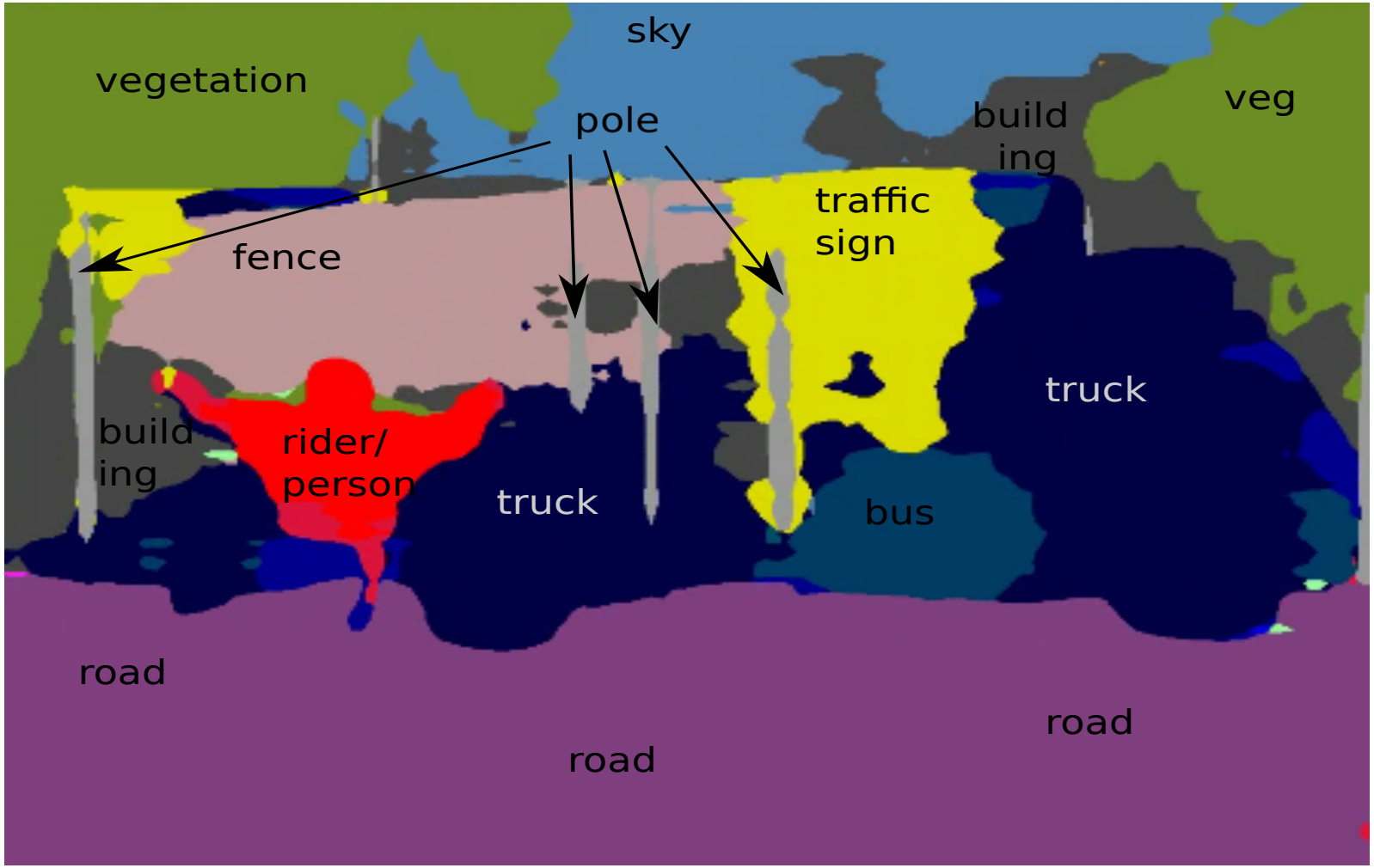
- Human errors in operation get replaced with human errors in coding
- Failure modes can be surprising
- Probabilistic estimates do not approximate judgment under uncertainty
- Maintaining AI is just as important as creating AI
- AI should be implemented with an understanding of system-level implications

Human errors in operation get replaced with human errors in coding

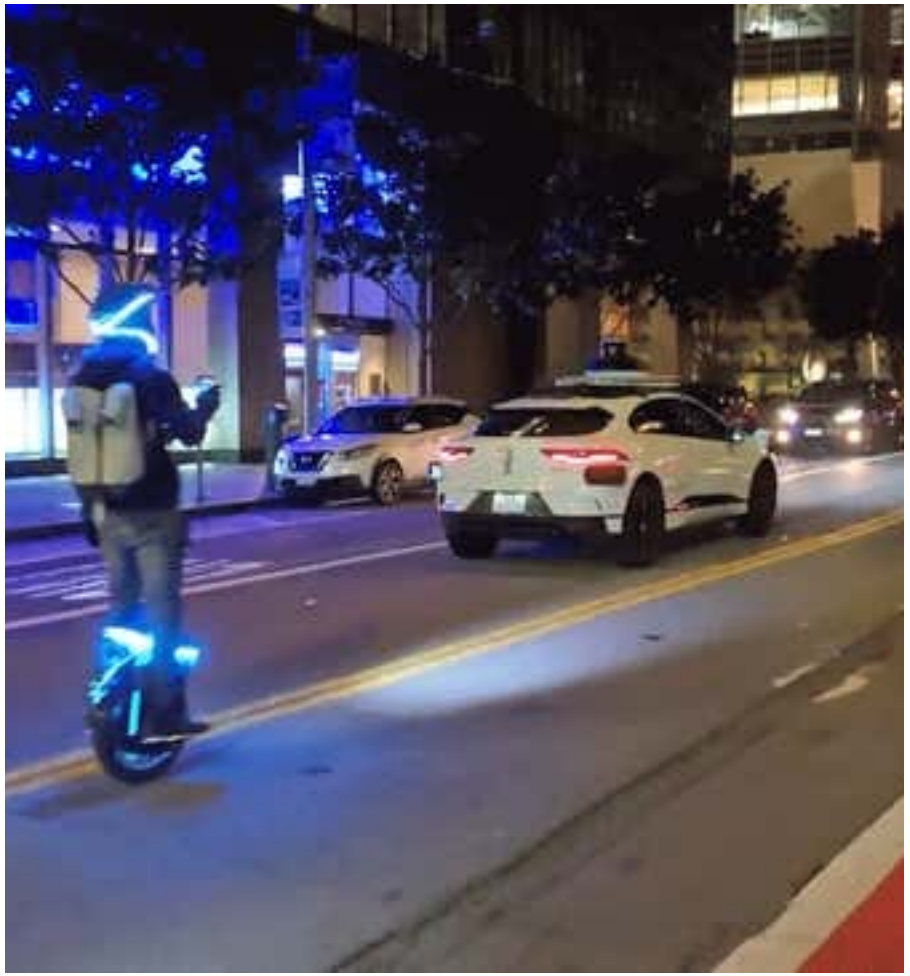
Failure modes can be surprising



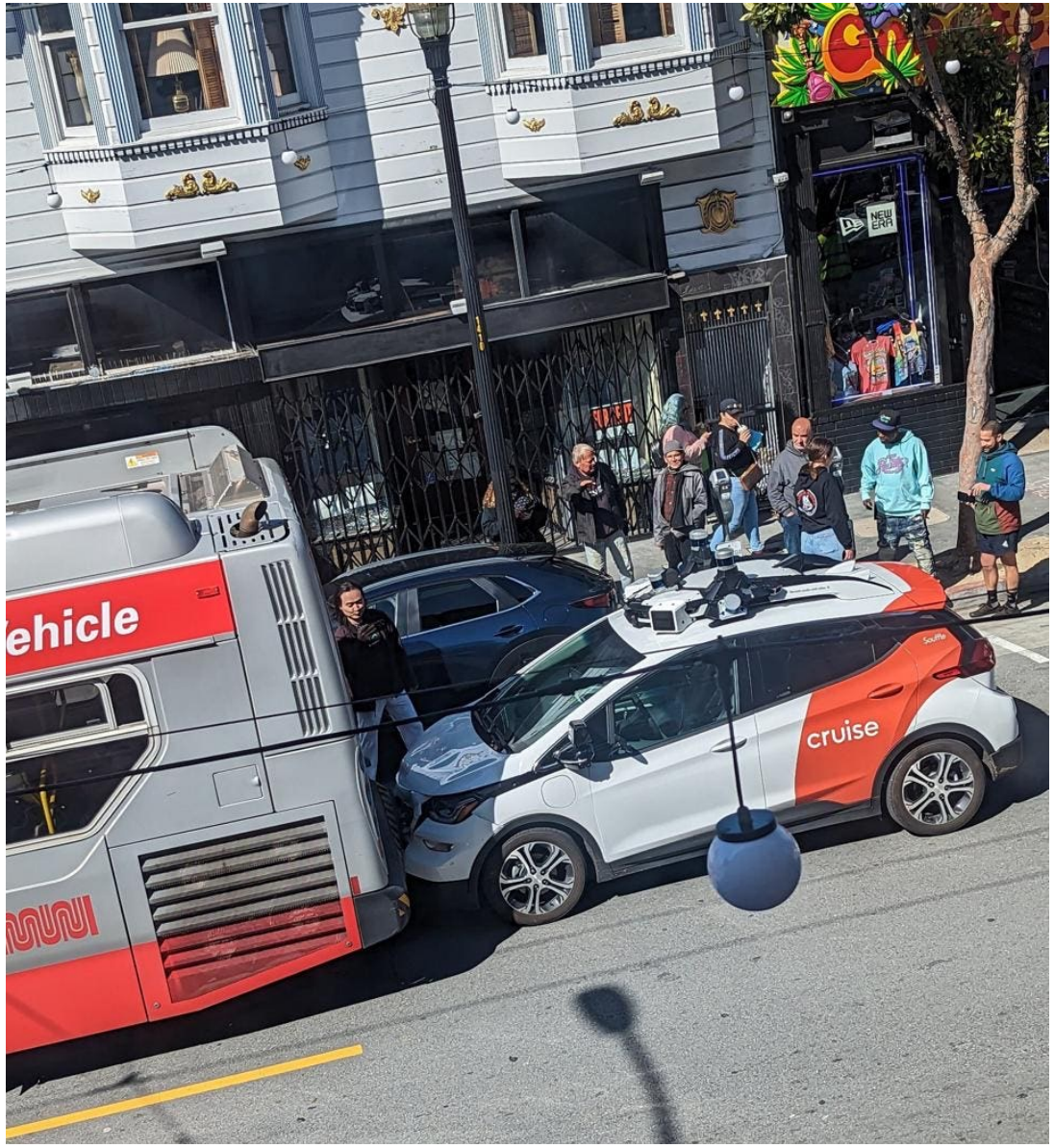
AI Problems


sky
vegetation
pole
build
ing
veg
traffic
sign
fence
truck
build
ing
rider/
person
truck
bus
road
road
road

Probabilistic estimates do not approximate judgment under uncertainty



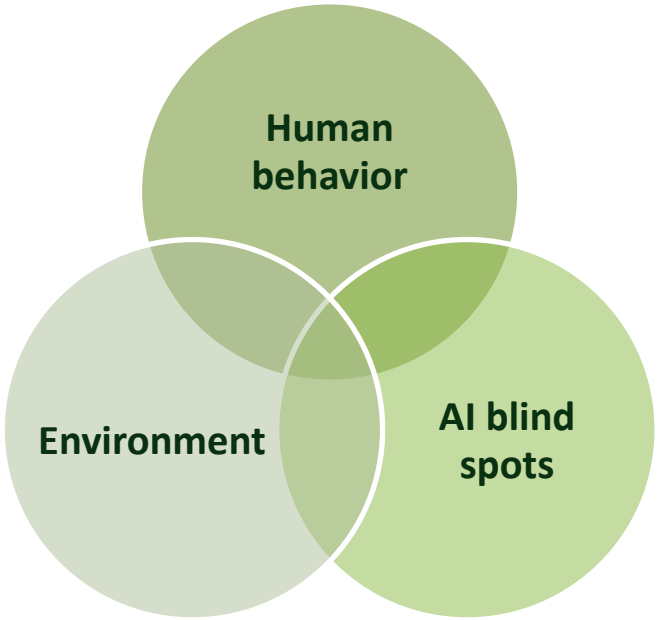
Maintaining AI is just as important as creating AI

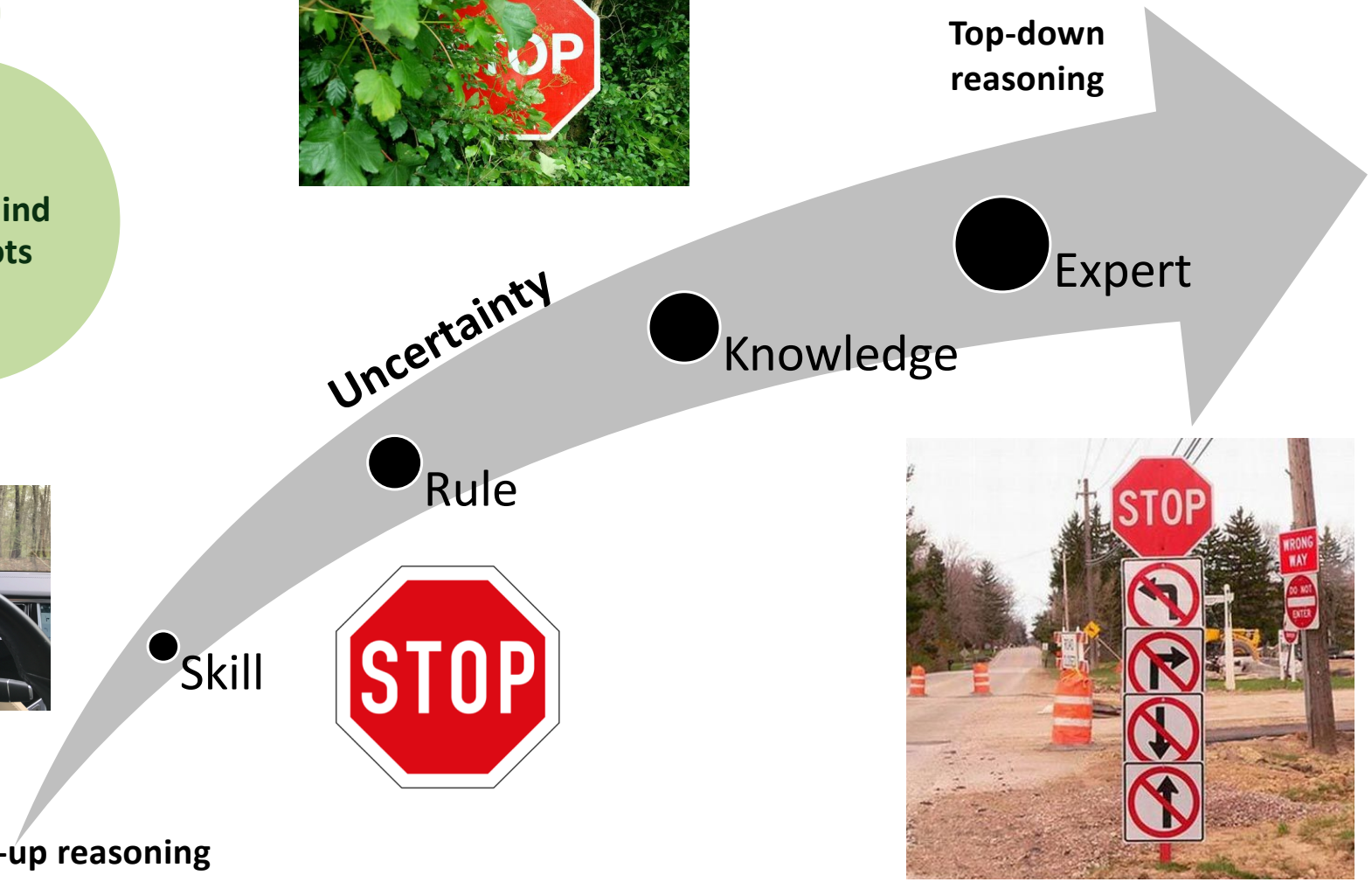


AI should be implemented with an understanding of system-level implications

https://www.thedrive.com/news/a-swarm-of-self-driving-cruise-taxis-blocked-san-francisco-traffic-for-hours

Autonomy/AI & Reasoning





The Uncertainty Wall

Top-down reasoning

Expert

Knowledge

Uncert ty

Rule

Skill

Bottom-up reasoning

Questions?