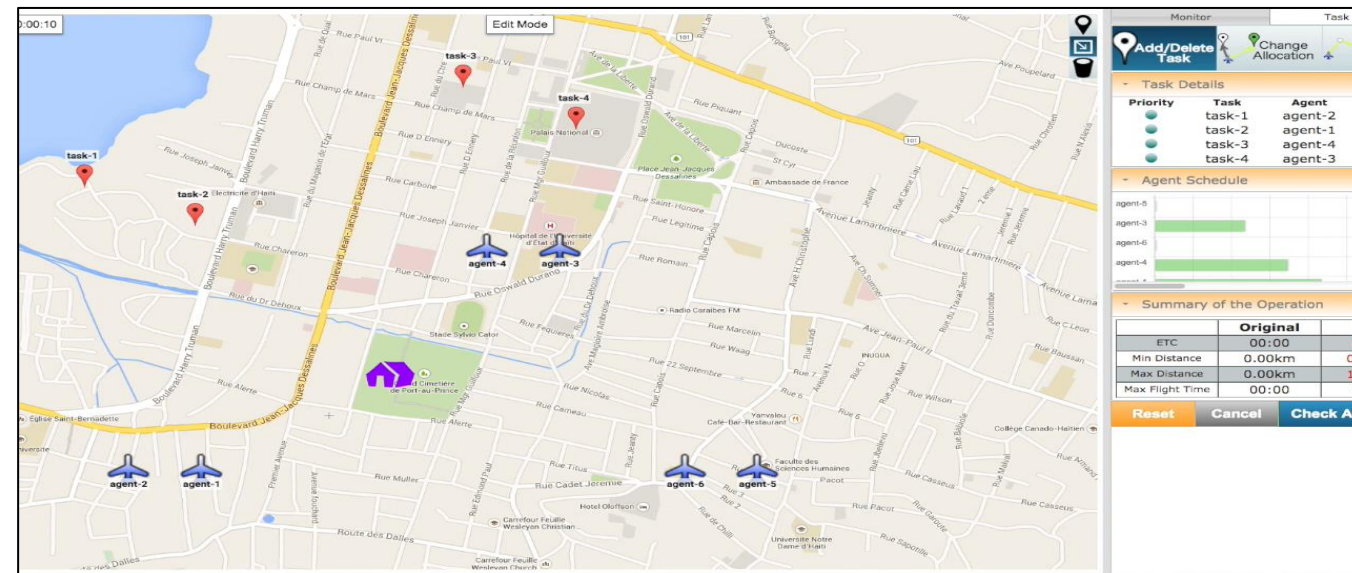


# Mixed Initiative Multi-UAV Coordination

- *Ramchurn et al, 2015 (IJCAI), Wu et al., 2015 (IJCAI), Ramchurn et al., 2016 (to appear in JAIR)*
- 1 pilot -> 3+ UAVs
- Heterogeneous UAVs running max-sum
- Flexible Autonomy
  - 'Adjust' max-sum plans
  - React to UAV drop-outs
  - Transfer of control between Silver, UAVs, and Bronze operators
- Validated on real UAVs
- Tested with 40 users
- Next step: user study with UAV control



# Multi-UAV Multi-User Coordination

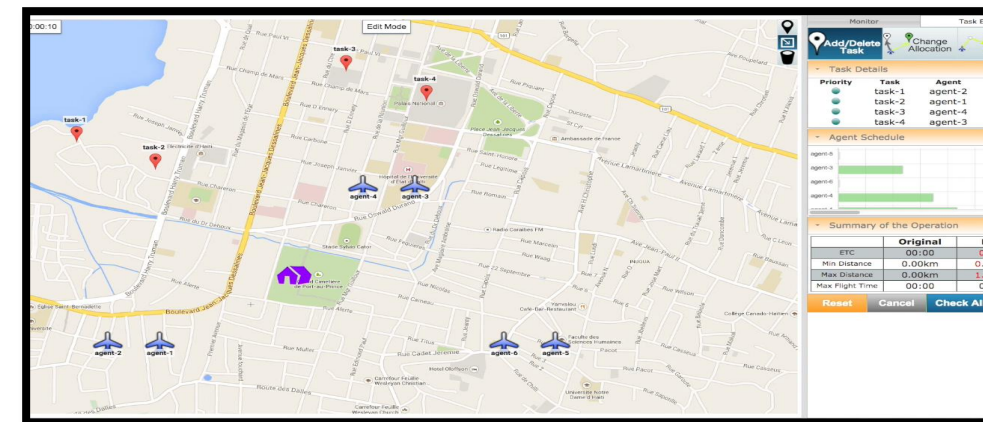


Max-Sum Coordination



N operator to M UAV

$N \ll M$



Tactical Commanders