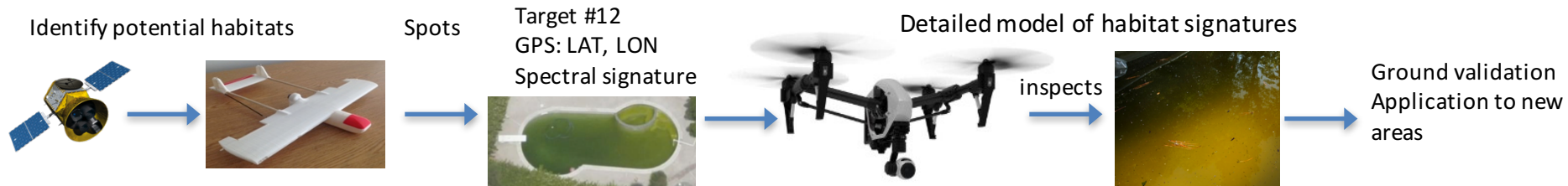


Detecting Zika-Vector Habitats with Autonomous UASs

Proposed Concept: A three-phase, multi-UAS, semi-autonomous system that can detect Zika-vector habitats in complex environments such as wooded areas and the backyards of homes.



Current research:

- Developed highly sensitive and specific model to remotely identify habitats for black fly vector of river blindness
- **Neural Network-based Obstacle-Avoiding Drone (NNOAD).**



Our Research Team:



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Team's collective experience: vector-borne diseases, vector control, molecular biology, vector biology and ecology, tropical public health, GIS, spatial modeling, vision-based localization and mapping, robotics, robot perception and manipulation, precision navigation with hazard avoidance, aerospace guidance, path planning, aviation, and aerospace systems.

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