Driving Drones Webinar

Autonome outdoor robots voor uitdagende toepassingen

Tim Waegeman

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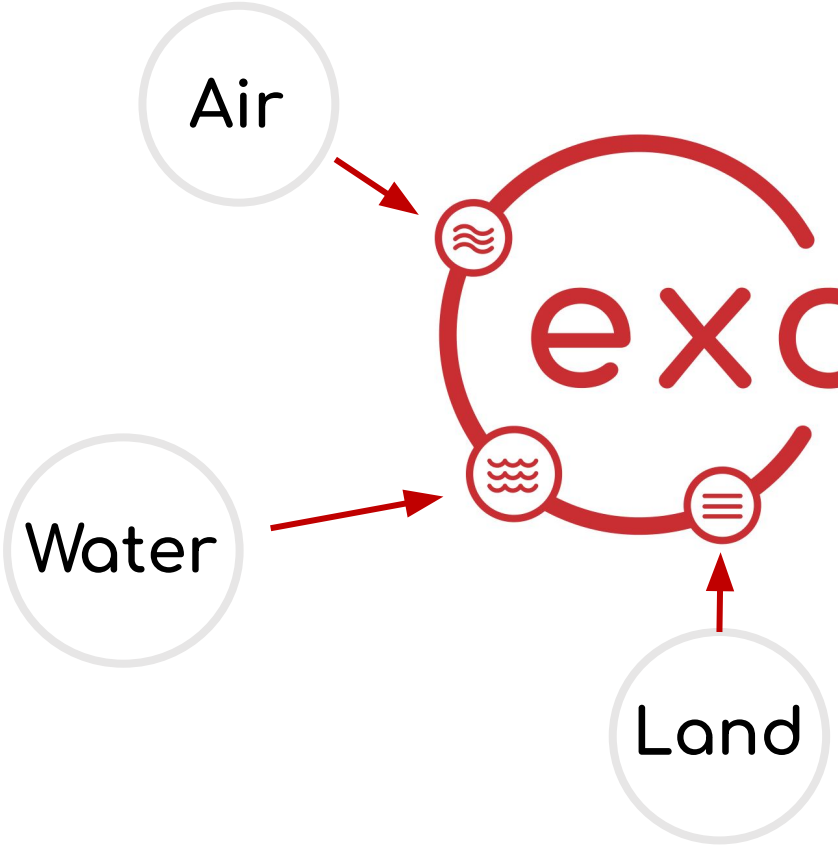

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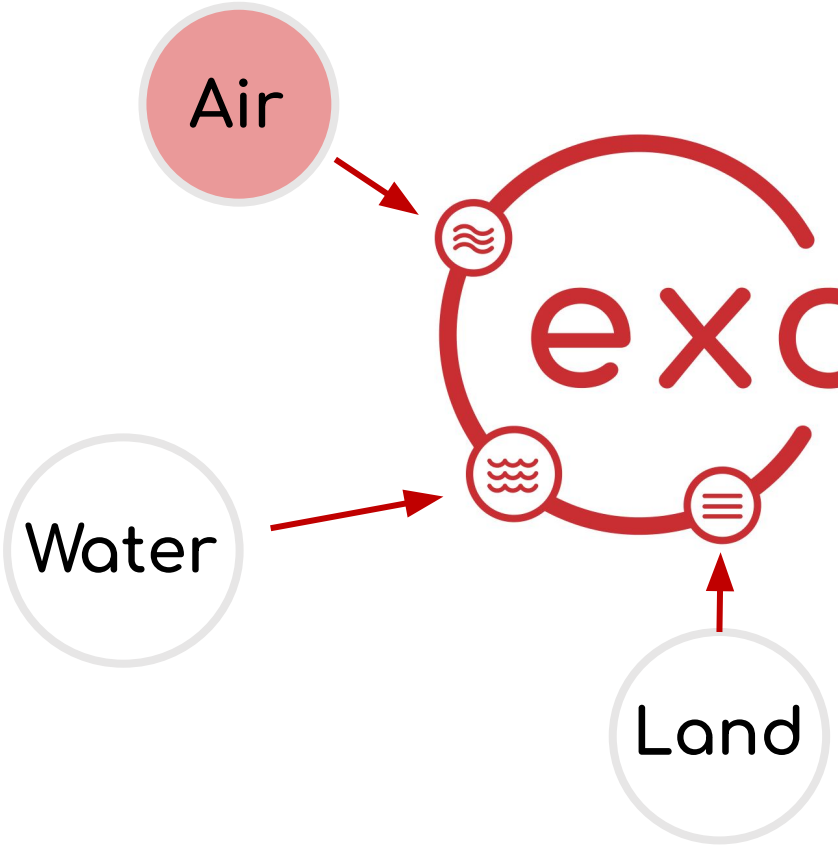
TECHNOLOGIES

Building Robots, Exploring Frontiers



exobotic TECHNOLOGIES

Building Robots, Exploring Frontiers

Air

Drones or Unmanned Aerial Vehicles

Air-G2

Air-G5

Air-GS1

Air

Applications

Drones or Unmanned Aerial Vehicles

- Movement is uniform and independent of its application
- Does rarely apply application specific forces on its environment
- The application, navigation and control rellies fully on perception

Land

Unmanned Ground Vehicles

Land-I1

Land-A1

Land-A2

Land-A3

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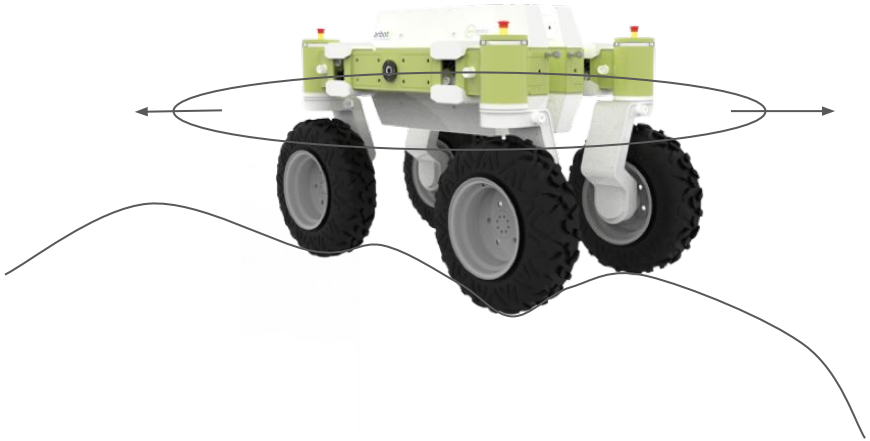
Land Applications

Land Use Case: Weed Mitigation

Land

Unmanned Ground Vehicles



- Movement is not uniform and could depend of its application
- Does apply application specific forces on its environment
- The application, navigation and control relies on perception, task and total dynamics

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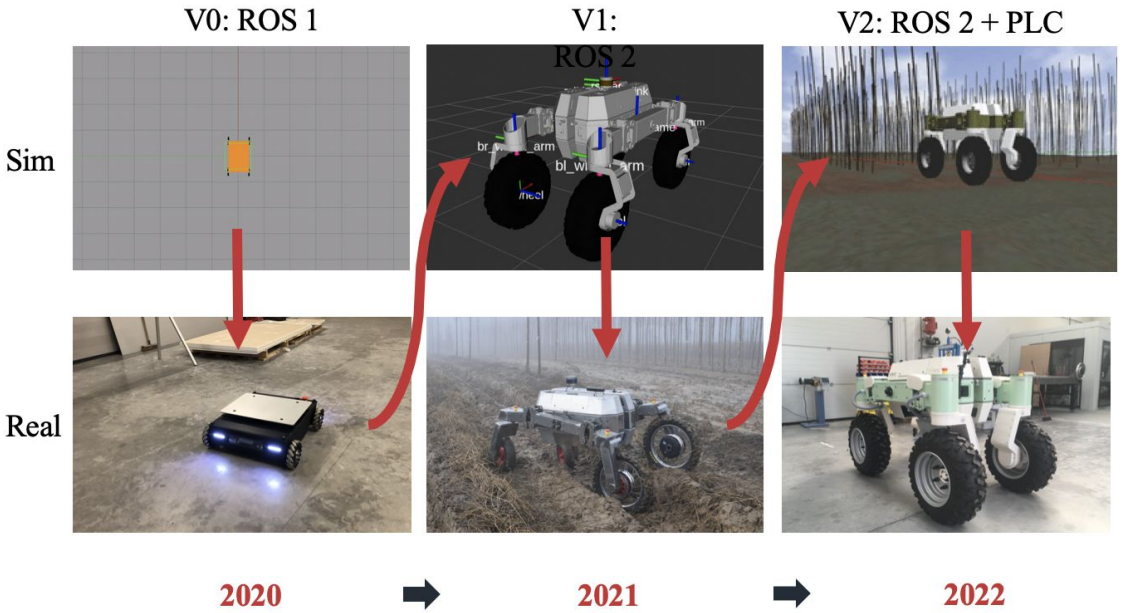
Land

Unmanned Ground Vehicles



- Limitations of simulation
- Real world validation is needed
- Robot needs to adapt to environment and not the other way around

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Land Movement dynamics testing

CIMAT

Land Use Case: Tree monitoring

Land

Closing the gap between user and product offering

Robot Service X euro/ha

Services

arboto.
HORTICULTURE ROBOT SERVICES

End users