



# Smarter Robots for Smarter Workflows

# Empowering users through modularity, autonomy, and real-world usability.

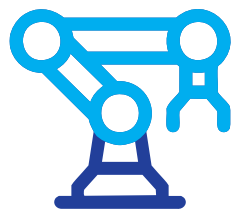
## Robot Types & Life Cycle



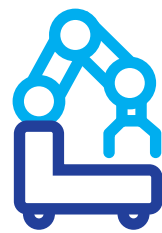
Service Robot



Delivery Robot



Robot Arm









Mobile Robot

Purchase    Deploy    Maintain



### Typical Workflow

-  BUS: Schedule on time services
-  Taxi Stand: Adhoc Dedicated
-  Delivery Grab Service: Adhoc
-  Urgent Shared Delivery  
Robot will immediately perform the task for point-to-point delivery
-  **Grab Share Service: Adhoc**  
Normal Delivery  
Robot will wait within a certain duration (eg 30mins) for same location pick-up or same location drop-off
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# Empower Robot Adoption

## Different Approach



### Latching

- Tradition AGV operation
- Can leave the trolley there for AMR to pick up by itself



### Fixed Top Module

- Convenient to use
- Enable smart application
- Don't need sending & receiving station

## Track Record

- For Chemo-medication Scheduled and Ad-hoc Delivery
- For Scheduled and Ad-hoc CSSD and SCM Supply Delivery
- For Scheduled and Ad-hoc Specialist Clinic CSSD Sets Supply
- For Scheduled Linen Supply to Specialist Clinic
- For Scheduled Pharmacy Supply Delivery (In-patient and Out-patient)
- For Ad-hoc Meal delivery
- For Secured Delivery of Endoscope
- For Scheduled Pharmacy Supply Delivery (In-patient and Out-patient)
- For Scheduled Food Delivery
- For Secured Delivery of Medications
- For Secured Delivery of Meal
- For Secured Delivery of Linen items
- For Secured Delivery of Cleanroom Parts



## Summary

- Deployed over 100+ robots in Singapore!
- Over 30 robots for secured delivery!
- Applications connected to Robotics Middleware Framework (RMF) and Non-RMF backends!



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