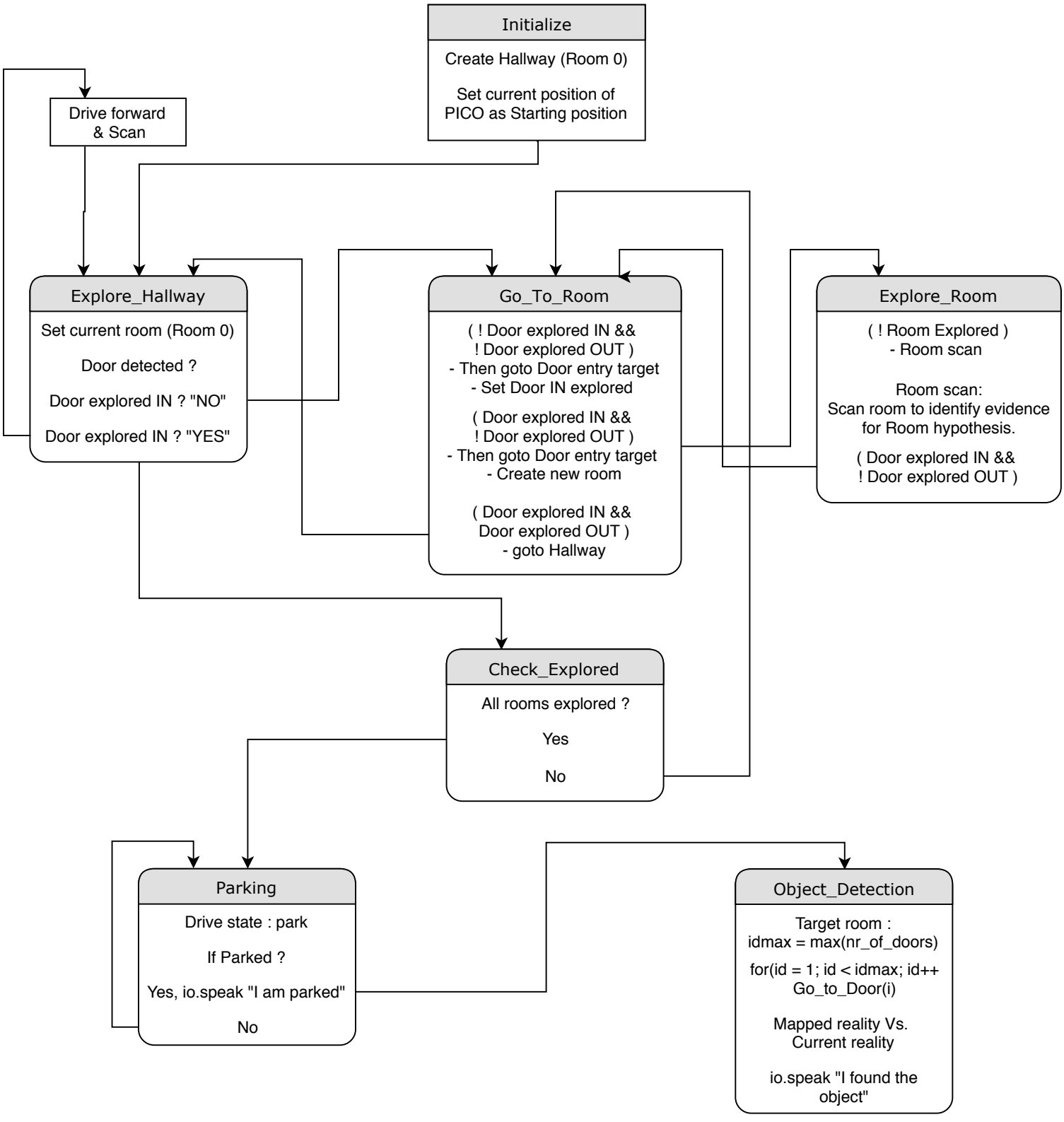
Initialize
Create Hallway (Room 0)
Set current position of PICO as Starting position
Drive forward & Scan
Explore_Hallway
Set current room (Room 0)
Door detected ?
Door explored IN ? "NO"
Door explored IN ? "YES"
Go_To_Room
(! Door explored IN && ! Door explored OUT)
- Then goto Door entry target
- Set Door IN explored
(Door explored IN && ! Door explored OUT)
- Then goto Door entry target
- Create new room
(Door explored IN && Door explored OUT)
- goto Hallway
Explore_Room
(! Room Explored)
- Room scan
Room scan:
Scan room to identify evidence for Room hypothesis.
(Door explored IN && ! Door explored OUT)
Check_Explored
All rooms explored ?
Yes
No
Parking
Drive state : park
If Parked ?
Yes, io.speak "I am parked"
No
Object_Detection
Target room :
idmax = max(nr_of_doors)
for(id = 1; id < idmax; id++
Go_to_Door(i)
Mapped reality Vs. Current reality
io.speak "I found the object"