

# Squash Traxy & Asset Watcher

## Mining Solution

### Background

Mining Industry is a wide area. So you must manage each fleet, each its condition, and do check and re-check fleet and inventory availability and functionality of fleet.

### Challenge

1. Record utilization each tool
2. Tracking your (movement) asset (TMS)
3. Record your inventory
4. Oil Wear and Analysis (KOWA)
5. Planned Maintenance (PM-Pro)
6. Continuous Improvement (CI)
7. PM Inspections

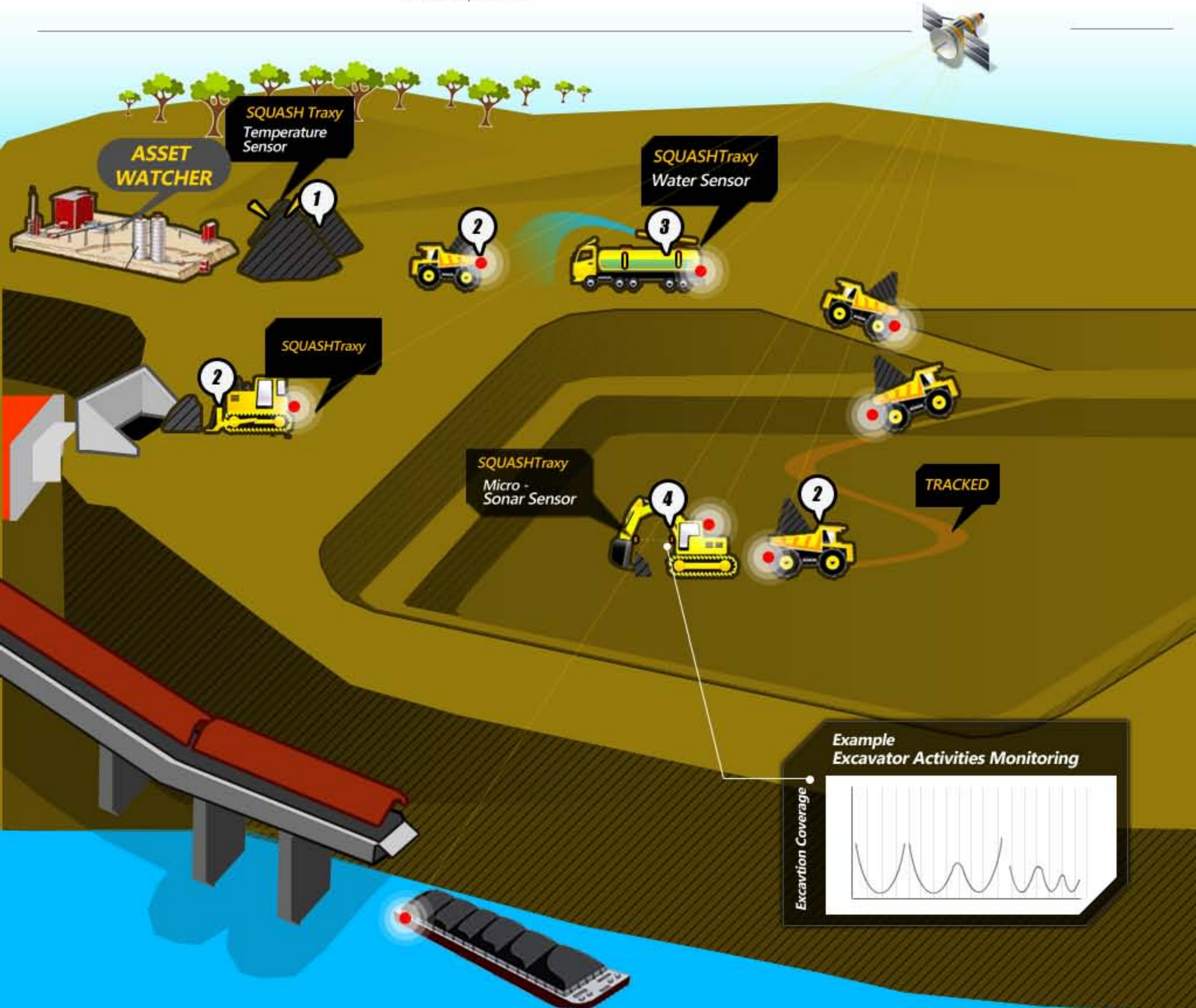
### Solutions

#### A. Availability and Utilization

Installing **Asset Watcher** in all devices and peripherals

#### B. Status Monitoring Heavy Vehicle and its content.

Installing **SQUASH TRAXY GPS-TRACKER (Micro-1000)** in all vehicles and connecting to all sensors



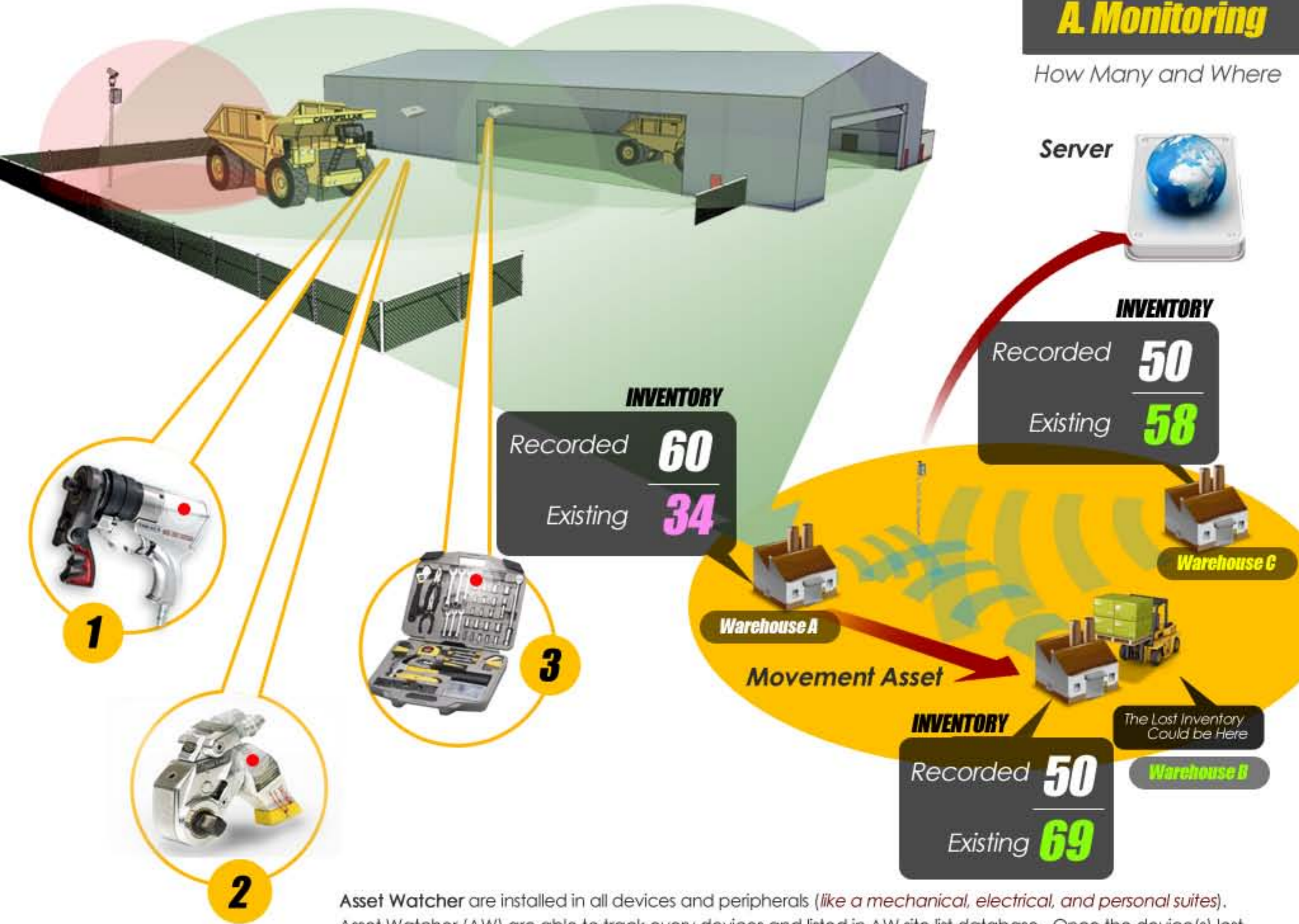
- 1**  
Temperature Sensor
- 2**  
Camouflaged Camera
- 3**  
Water Sensor
- 4**  
Sonar Sensor
- GPS**  
Micro -1000  
Squash Traxy



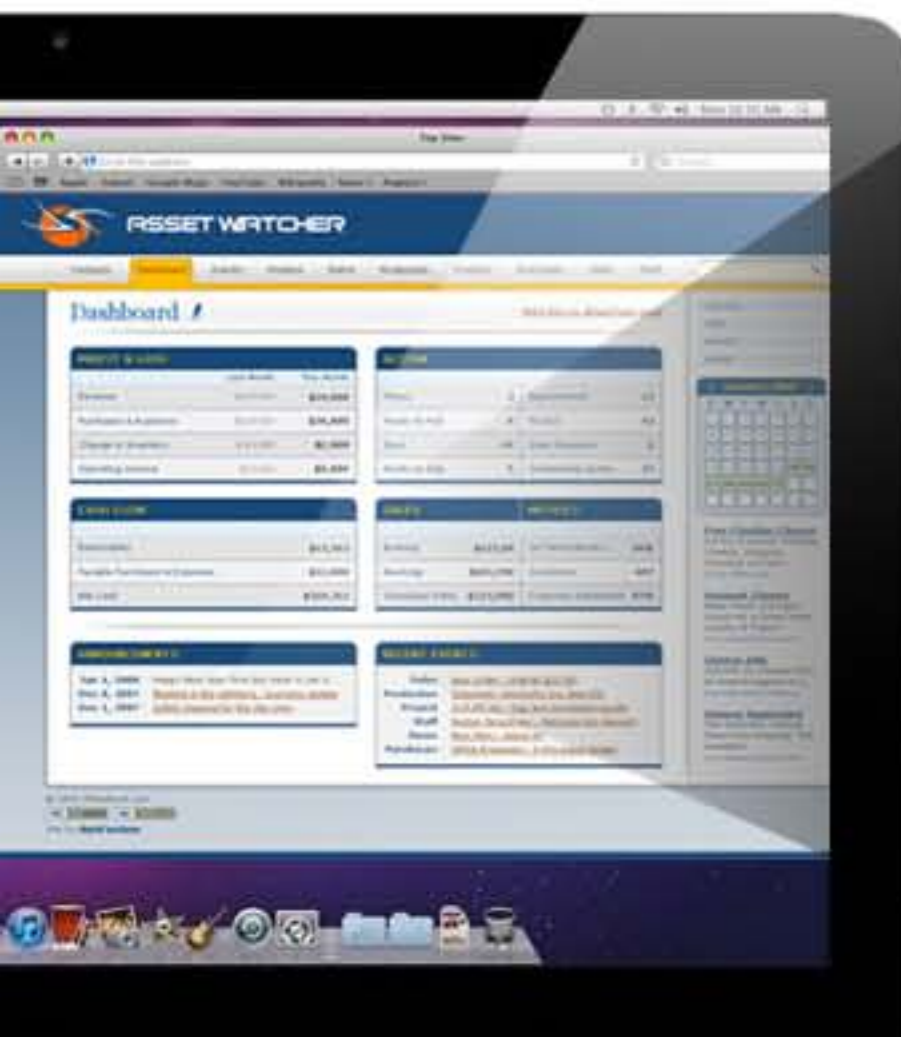
# ASSET WATCHER IMPLEMENTATION and FUNCTION

## A. Monitoring

How Many and Where



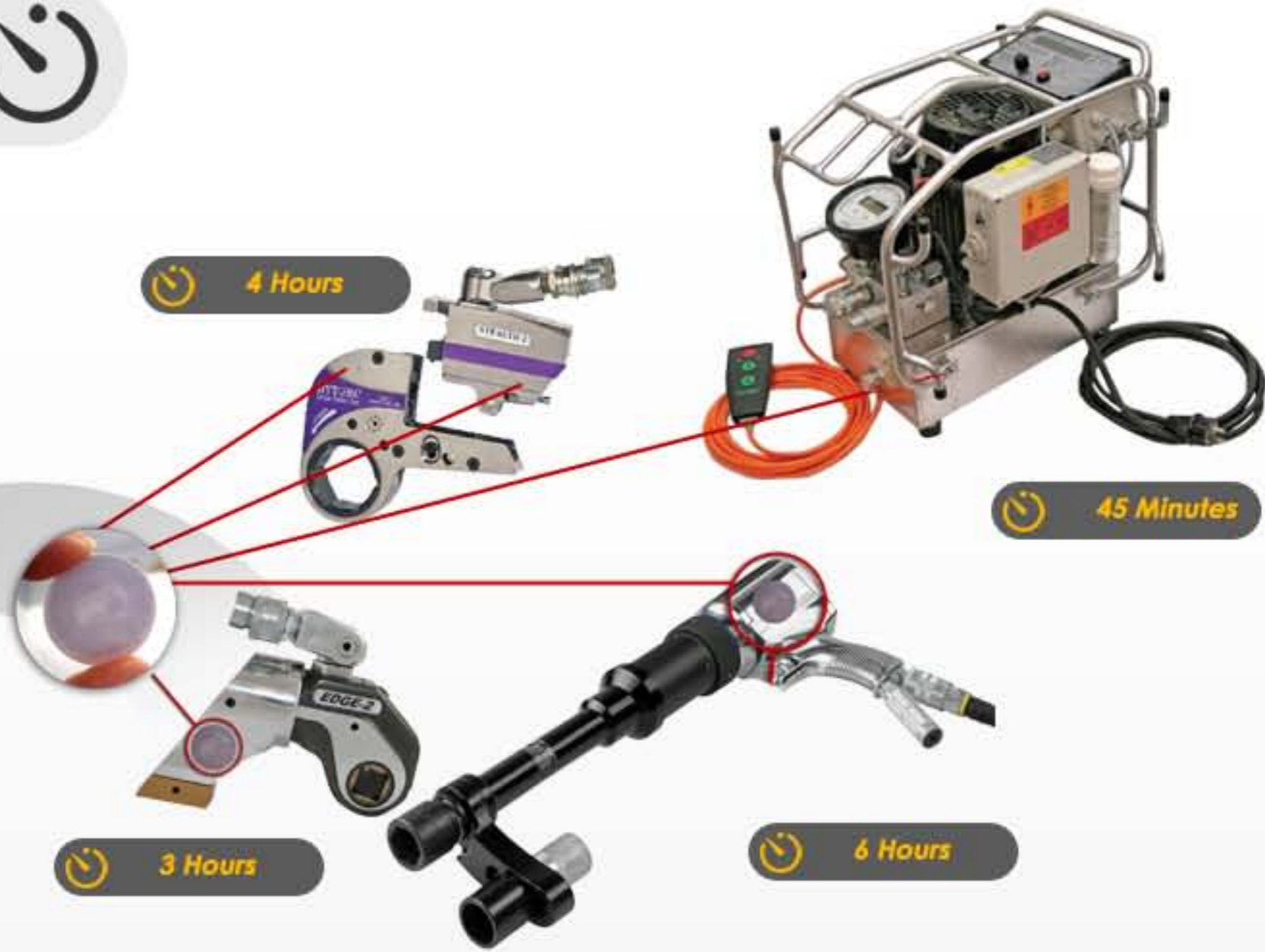
Asset Watcher are installed in all devices and peripherals (like a mechanical, electrical, and personal suites). Asset Watcher (AW) are able to track every devices and listed in AW site list database. Once the device(s) lost or gone the value and its list in database are updated in a realtime. If certain site(s) have devices more than usual, that mean there is a illegal devices brought to its (foreign) site. It can be seen from tag id and device id on databases.



RECORDING		60	EXISTING		34
TAG ID	Tool Name		TAG ID	Tool Name	
125 00123	Fuel Injector Remover		125 00123	Fuel Injector Remover	
200 04023	Davco Diesel Filter Wrench		200 04023	Davco Diesel Filter Wrench	
204 00544	HD Universal Joint Puller		204 00544	HD Universal Joint Puller	
204 078888	Socket, Ford IPR Sensor		204 078888 <b>L</b>	Socket, Ford IPR Sensor	
200 00957	Socket, HD Spicer Drive		200 00957	Socket, HD Spicer Drive	
200 03345	Socket, Oil Galley		200 03345 <b>L</b>	Socket, Oil Galley	
204 04023	Budd Wheel Socket Set		204 04023	Budd Wheel Socket Set	

**L** Red letter with L symbol means that tools is lost or out from coverage

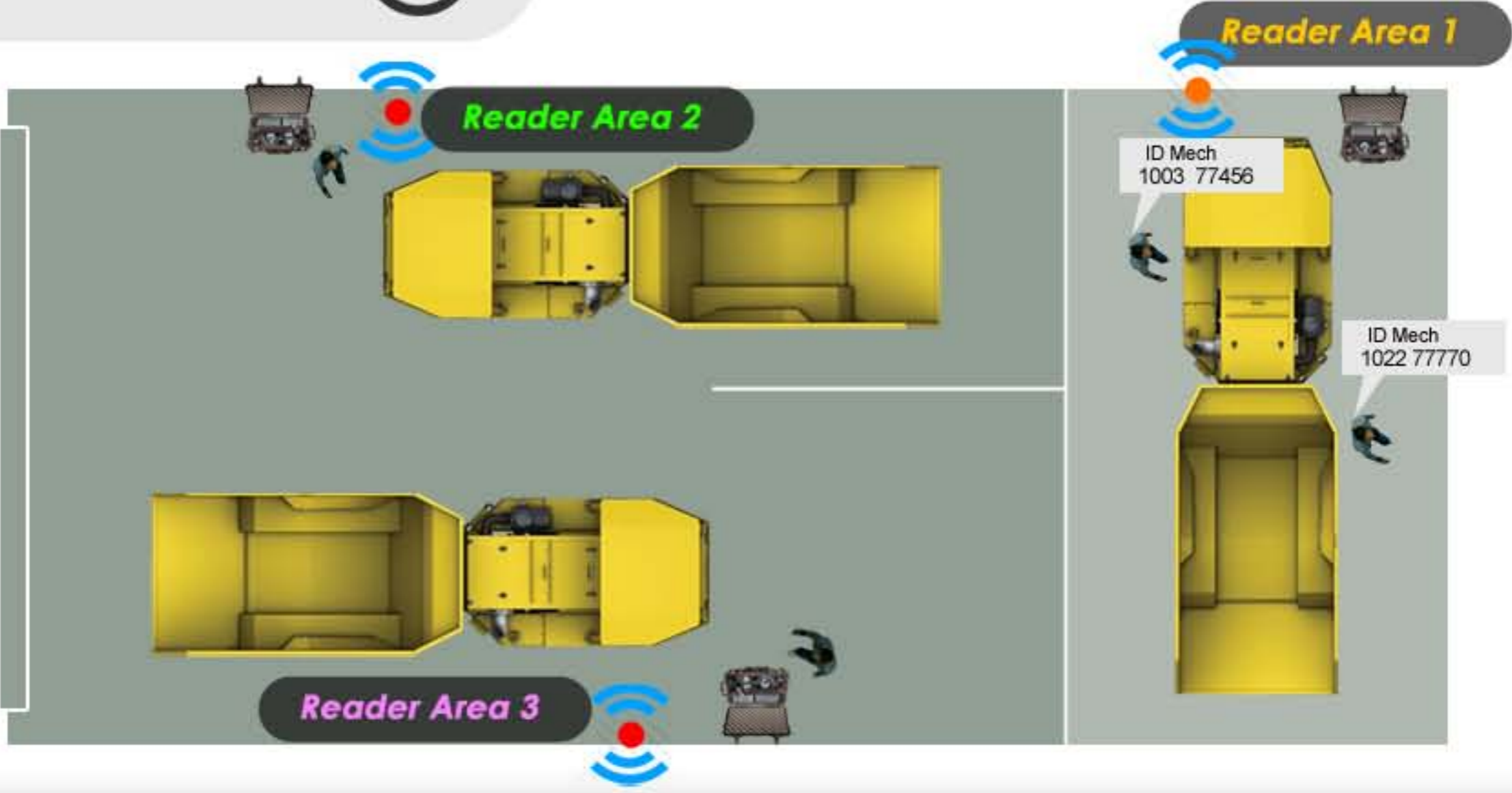
## How Long Tool Rent



RENT TABLE						
TAG ID	Tool Name	Status	Start Time	Ends	Durations	Rates (IDR)
125 00123	Fuel Injector Remover	In Box	-	-	-	150
200 04023	Davco Diesel Filter Wrench	Rent - Running	12:20:12 12 May 2013	16:30:12 12 May 2013	4h 10m	150
204 00544	HD Universal Joint Puller	In Box	-	-	-	150
204 00501	Socket, Ford IPR Sensor	In Box	-	-	-	75
200 00967	Socket, HD Spicer Drive	In Box	-	-	-	150
200 03345	Socket, Oil Galley	In Box	-	-	-	75
204 04023	Budd Wheel Socket Set	In Box	-	-	-	150



After tool detached from its case, reader will counting how long tool rent until they are back in its case.



**Work Utilization**

HD Vehicle	Mechanic	ID Mech	Tool 1	Tool 2	Tool 3	Tool 4	Tool 5	Activity	Duration
<b>Area 1</b>									
	Dirk Kwaskovic	1022 77770	204 7664	204 7664	200 7444	-	-	Tires Change	01:30:33
	Jeff Chang	1003 77456	204 6784	204 3312	204 5122	-	-		
<b>Area 2</b>									
	Duke Vladimir	1022 35490	204 7664	204 7664				Oil Change	00:12:33
<b>Area 3</b>									
	Doddy Dude	1022 77340	204 7122					Tires, wheels, lug bolts Check	00:43:33



If They're in the Same Place :

1. RFID Active and send Notification
2. Counter /Timer Active until they are separated (out of area)

