

# Heavy Machine Automation

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from **Teleoperation**

One **remote** operator  
=  
One machine



to **Semi Autonomy**

One **efficient** remote operator  
=  
One machine

to **Supervised Autonomy**

One **efficient** remote operator  
=  
**Multiple machines**



Where are we now?

- From teleoperation towards semi-autonomy
- Awarded **Pioneer Fellowship** 2/21 – 2/22
- Won **Swisscom 5G Start-Up Challenge**

# Markets

## Disaster recovery operations



### Ammunition cleaning at Mitholz

- > 1 Billion CHF Budget
- Starts ~2031 (10 years)
- Our solution is the only viable one so far.

## Automated forest management



### Silvere (Finnish forest management)

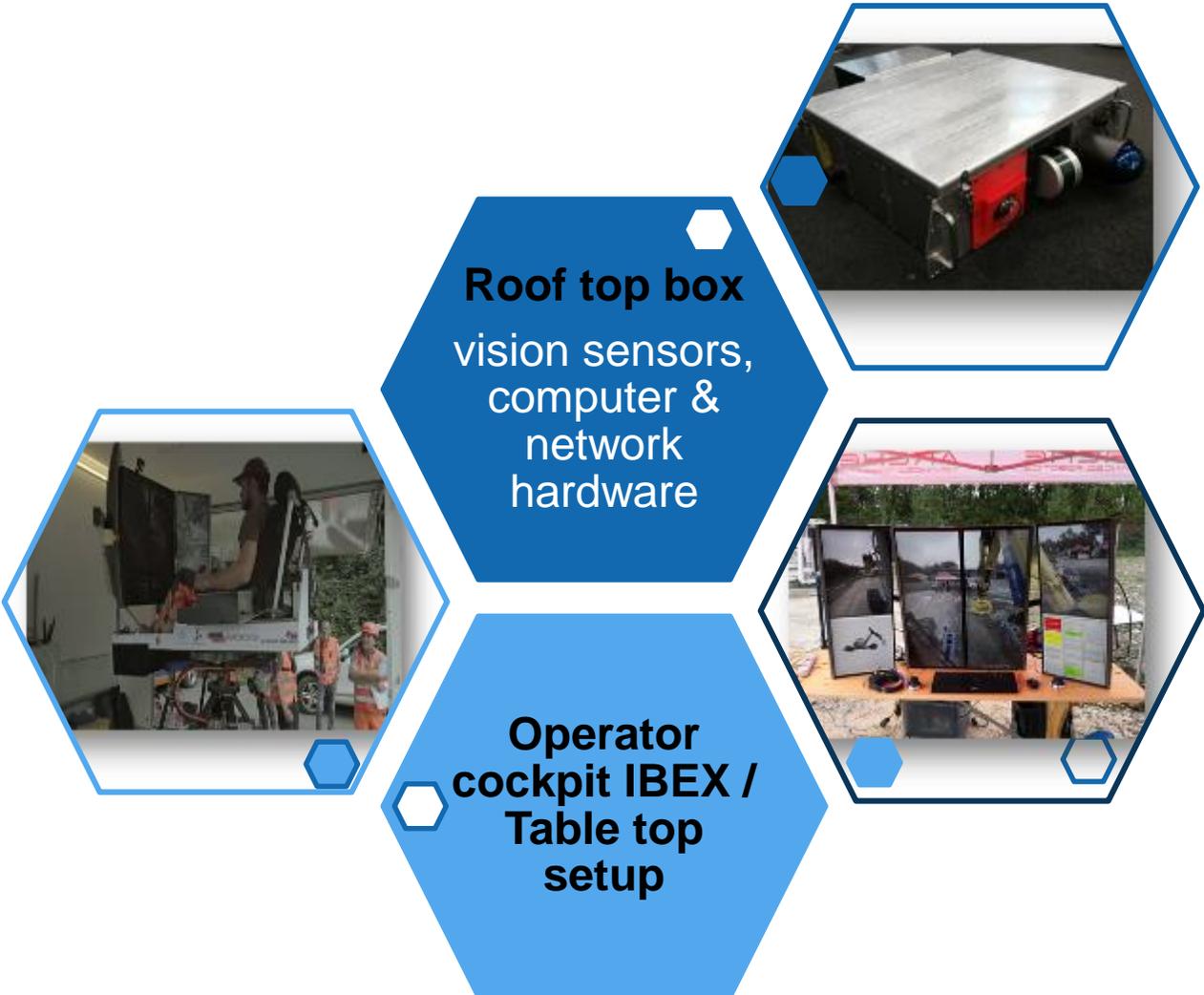
- 300 teleoperated machines
- 30% market share in Finland
- 5 Billion USD tree harvester market

## Construction machine automation

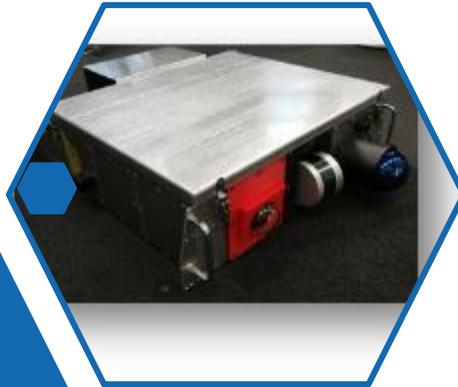


- One operator from home managing multiple machines
- 56 Billion USD excavator market in 2025

# The Product



**Roof top box**  
vision sensors,  
computer &  
network  
hardware



**Operator  
cockpit IBEX /  
Table top  
setup**



We sell **machine automation/teleoperation kits** for existing heavy machines

- Roof top box includes sensors/computers
- AR/VR tools for teleoperation
- Machine automation software through machine learning

**Potential customers:**

- government organizations
- machine manufacturers
- construction & mining companies
- forest management companies