

Derby City Council Utilising A.I Technology



















Our Challenges

Tried & tested Technology

Looking for Automation

Running Trials

Building the Business Case

Implementation

Lessons Learned

What Next?





Post Covid – Higher Cleaning Expectations

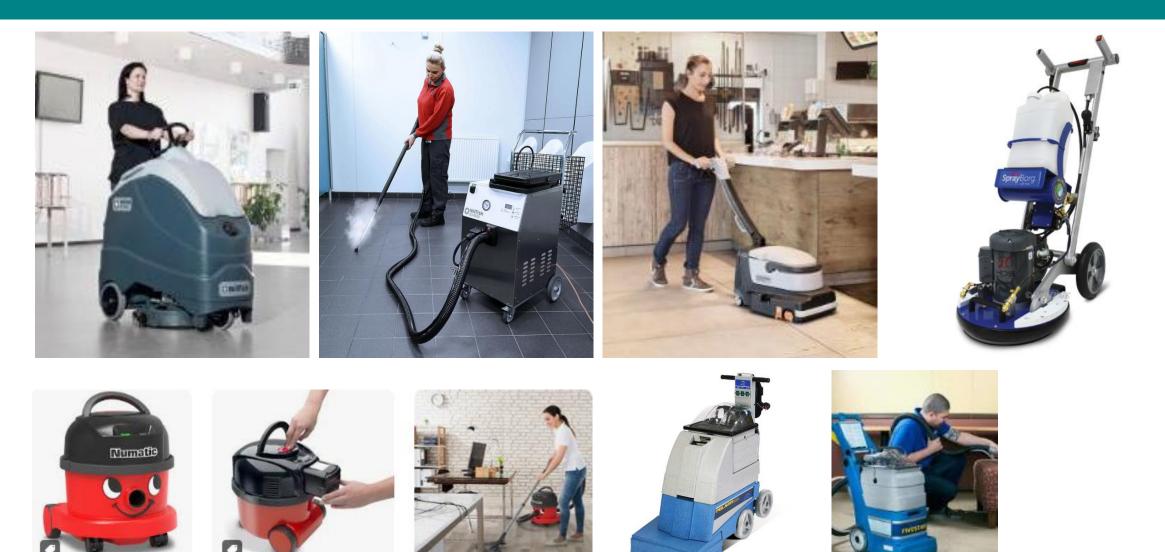
Shrinking Budgets

Ageing Workforce

Increased Salary Costs



Tried & Tested Technology





Looking for Automation

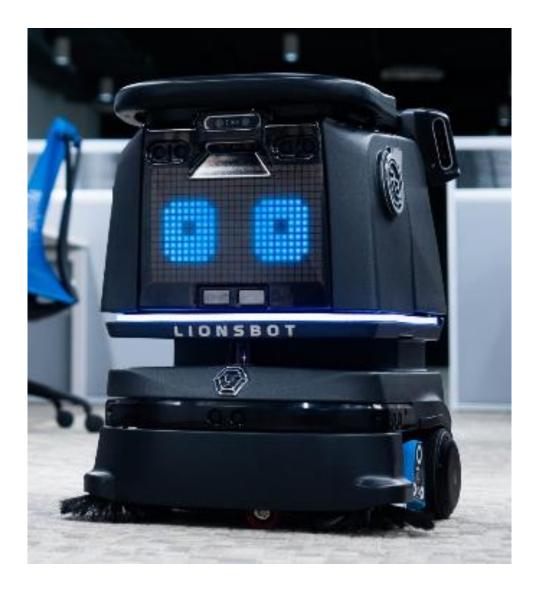
Our search began in 2019 @ Excel London

Delays due to cost

Lack of adaptable tech



LIONSBOT R3 Vac



R3 Vac: The Complete Vacuum Solution



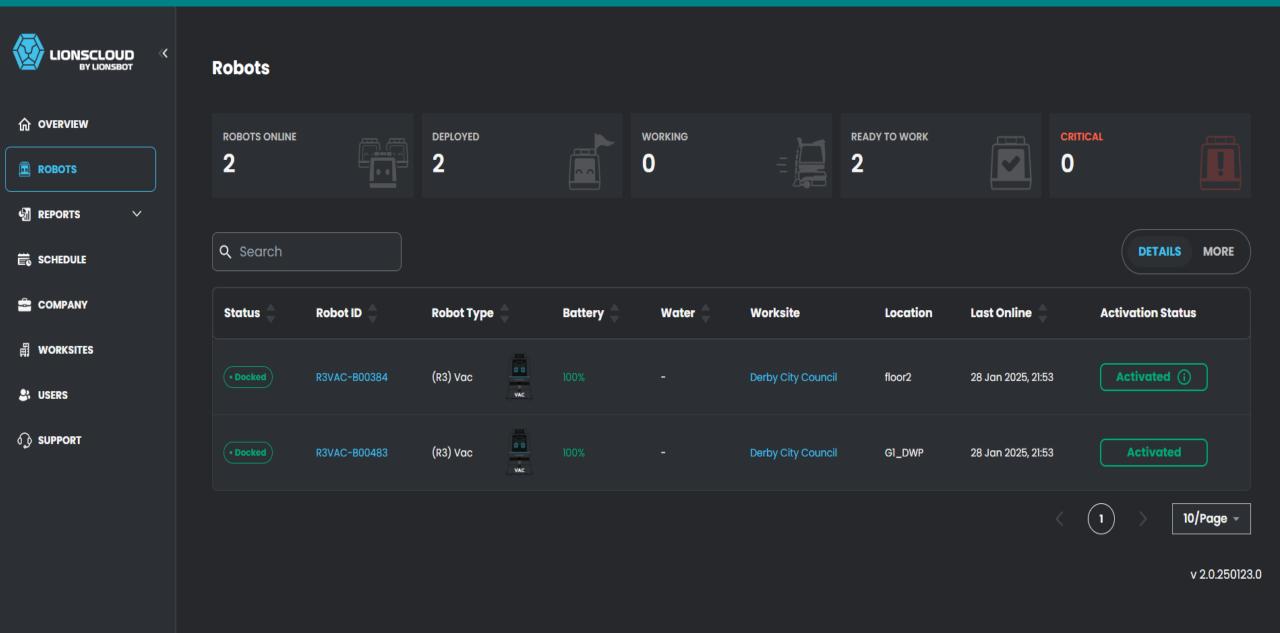
Running Trials

What do we need to consider?

- **Trial duration**
- **Operating times**
- Managing technical glitches
- **Ongoing maintenance**
- **Understanding productivity**
- **Potential disruption to staff & customers**
- **Robot supervision**



Software & App access



Software & App access



Reports

Cleaning	Monthly				
Cleaning Method		Start Time	End Time	Cleaning Duration	Мар
Autonomous		24 Jan 2025, 14:00:11	24 Jan 2025, 14:58:01	00h 57min 04sec	L2 floor2
Autonomous		24 Jan 2025, 06:45:11	24 Jan 2025, 07:42:30	00h 56min 34sec	L2 floor2
Autonomous		23 Jan 2025, 17:13:19	23 Jan 2025, 18:09:06	00h 54min 23sec	GI DWP
Autonomous		23 Jan 2025, 14:40:05	23 Jan 2025, 15:37:50	00h 57min Olsec	L2 floor2
Autonomous		23 Jan 2025, 14:00:11	23 Jan 2025, 14:35:15	00h 34min 39sec	L2 floor2

Robot Configuration Navigation Cleaning Perception Mingle Advanced Auto Home Wait Duration (s) (i) Dock Pose Y Offset (m) (i) Moving Speed (m/s) (i) **Cleaning Reverse Recovery** Bumper Hall Bypass 🛈 Allowed Close To Wall (i) Handlebar Bypass (i) Low Battery Auto Home (i)

What do we need to consider?

Cost of Machines Vs Payback

Inc Service Contracts

Number of cleaning Hrs saved 1hr A.I Machine Cleaning = 2hrs Manual Vacuuming

Draw up a cost model showing your break-even point



Implementation

Allocate sufficient time

Factor in ongoing monitoring, supervision and planned maintenance

Staff Training

From day 1 the A.I Machine is Learning and you will need to learn with it!



Lessons Learned

What's Next





THE R3 SCRUB PRO. PRO CLEANING, MADE EASY.



PATENT PENDING SINGLE PASS SQUEEGEE

With an improved airflow design, the squeegee leaves floors super dry, after the toughest of scrubs. Magnet driven design ensures complete safety and serviceability.



GREAT BRUSH PRESSURE

With a 7 kg downward pressure, and brush options for a wide range of floor types, the R3 Scrub Pro delivers professional grade cleaning in the tightest spaces.



ELIMINATE PRE-SWEEPING

With the addition of two-side brushes, the R3 Scrub Pro effectively pushes in debris from even the edges - eliminating the need for pre-sweeping.



Thank you

