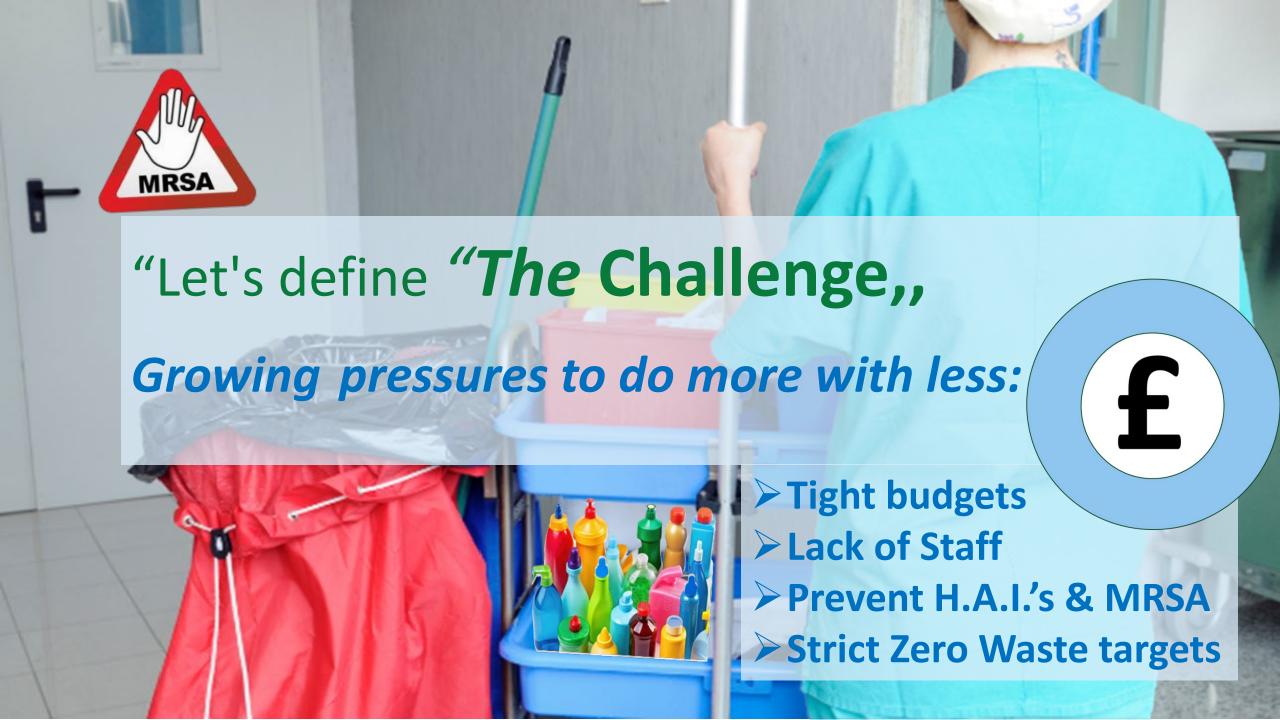




How can Innovative Cleaning Robots, Enhancing Hygiene and Productivity, with truly Plastic & Waste free cleaning, solving parts of your Challenges?







How can cleaning robots, help to prevent HAI's, fill in the shortage of staff and clean Zero-Waste?





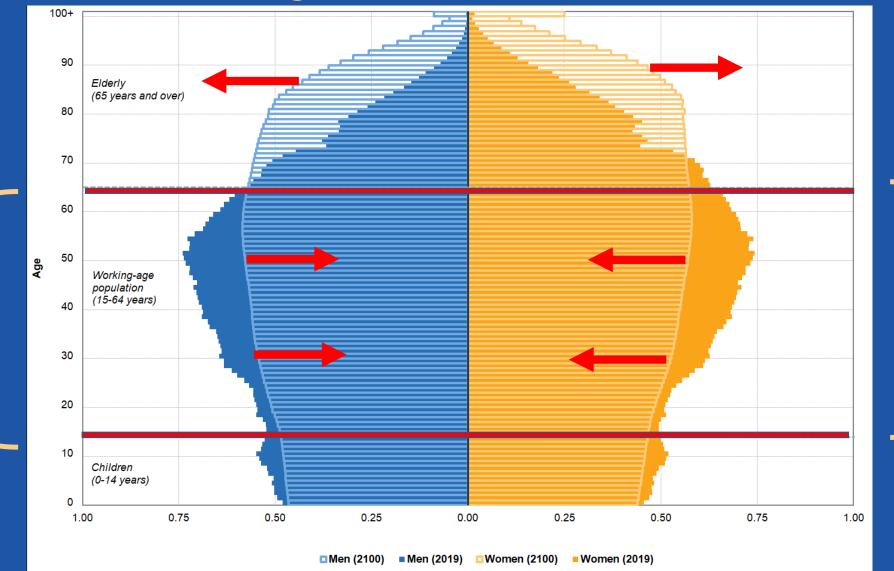
Think about FIFTY SHADES OF GREY!







The population pyramids show the decreasing % from 2019 until 2100



15 to 65

years old

15 to 65 years old



Nobel price winner Professor and Economist Bob Solow, stated:

"YOU CAN SEE THE COMPUTER AGE EVERYWHERE, EXCEPT IN THE PRODUCTIVITY STATISTICS"

4% in the "1980" to 0,3 % today



Time to Integrate smart Cleaning robots with a **Short ROI** *making* cleaners **operators**!

- 80% more productivity & cost reduction
- Solving part of the shortage of cleaning staff
- > Dealing less with recruitment issues
- Reducing stress, workload and RSI-related injuries





Which type "robots could help NHS?



Compact class, with workstation and auto-Squeegee rinsing Also can be used manual for incidents .



workstation

How do they work?

In a Nursing home, vacuum, scrubbing and drying







In a Hospital, sweeping, scrubbing and drying



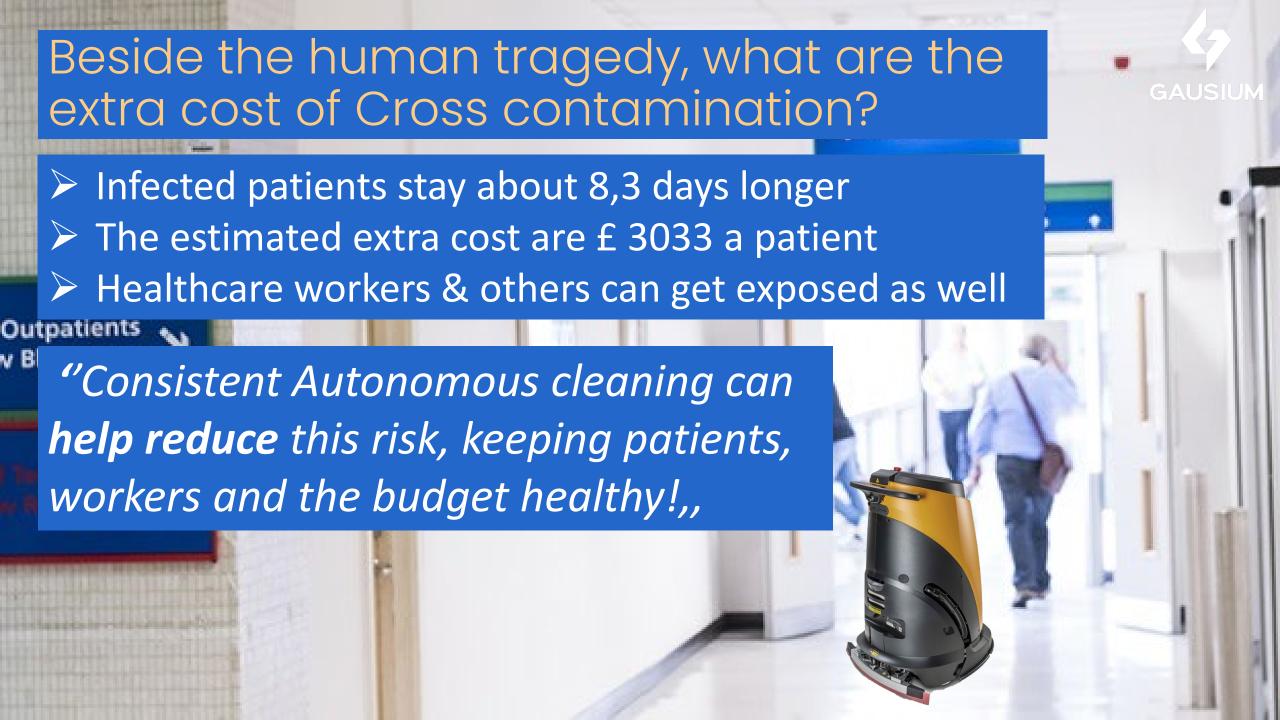
Successful, Global case studies implementing Robots, mostly started with a Proof of Concept



- ✓ Cleaning at daytime, or at nights
- ✓ Full floor tasks or "AI-Spot cleaning!?
- √ "Click on-off Squeegees and magnetics pads, avoiding Cross contamination
- ✓ Taking elevators & automated doors

Optional

- ✓ Wheel disinfection-mats
- ✓ UVC lights preventing a Biofilm



How interesting is the ROI?

GAUSIUM

A profit warning for £ 90.000

E.G. a Nursing home;

Vacuum, Scrub & dry 2 tasks total 16.146, Sq. Ft. Daily.

- 1. £ 20,00 Labor cost (all in)
- 2. 260 days a year
- 3. £ 2.236 cost for Phantas (£ 11.179:5) a year
- 4. £ 1.118 Estimated maintenance cost a year
 - £ 4.654 Total cost a year

£ 22.694 traditional cost a year same tasks.

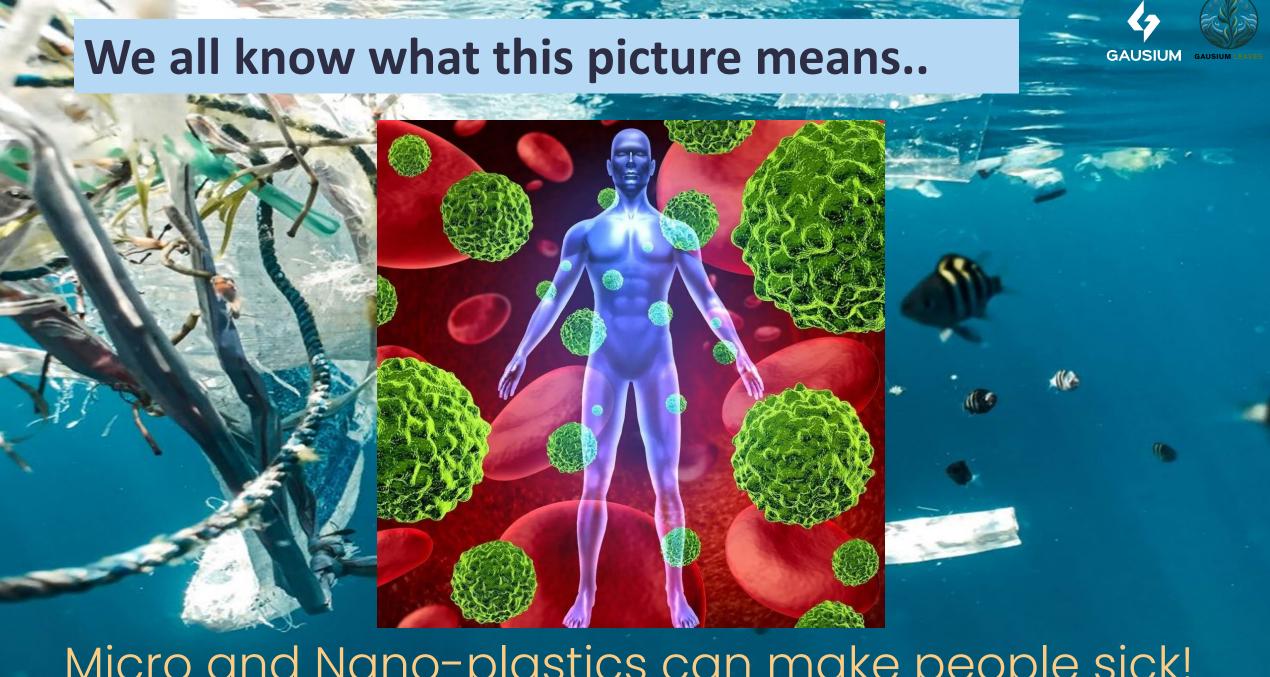
£ 18.040 less cost , -79,5 % a year!

ROI of 5 to 6 months!

Saving over £ 90.000 in five years!



ROI calculation Robot sample							date:	9-9-2025
Floor surface in square meters >		1500		1500		1500		
Phantas does average 550 sam an hour=		2,7		2,7			(hour	.1
Financias does average 550 squi an nour-	*Fill in	according your situation		2,7		2,7	(Hour.	9
	Phantas		-	walk behind Scrubber Dry		Manual Vacuum		ombined Cost
English								Vacuum & Scrubbing
labor cost	£	5.00		41,00 €		41,00 €	Vacc	idiii & Scrubbiiig
Hours to work (labour time)	L	0.00		1,80		1,80		
pauze	£	0,25			£	0,25		
Hour rate (salary)	•	20,00		-,	£	20,00		
additional night sift cost	£		É		£	20,00		
*Average hour rate/night shift rate with 80% of the time	£	20,00	_		-	20,00		
(*Including empoyer overhead cost beyond Pay)	-	20,00	_	20,00	-	20,00		
Cost of the machine	£	11.179,00	£	3,500,00	£	120,00		
Depreciation in five years	£	2.235,80	£	700,00	£	24,00		
Maintenance cost (average 5% to 10% a year)	£	1.117,90	£	350,00	£	50,00		
Energy cost and chemicals		simular		simular		simular		
Cleaning days a year		260,00		260,00		260,00		
Times of cleaning each cleaning day		1,00		1,00		1,00		
		11.179,00€		-				
Cleaning cost (salary) a year	£	1.300,00	£	10.660,00	£	10.660,00	£	21.320,00
Depreciation a year	£	2.235,80	£	700,00	£	24,00		
Maintenance cost a year	£	1.117,90	£	350,00	£	50,00	£	400,00
Cost for damages-repairs on building, inventory, machine self etc.		- €	£	250,00	£	-	£	250,00
Cleaning cost a year			£	11.960,00	£	10.734,00		
Cleaning cost a year vacuum and Scrubbing		4.653,70 €		22.694,00 €	<co< td=""><td>mbined vacuum/s</td><td>rubbir</td><td>ng)</td></co<>	mbined vacuum/s	rubbir	ng)
(no rights can be taken from this example)								
							In 5 y	ears:
cost savings with Robot in Euro's a year.			£	18.040,30			£	90.201,50
cost savings with Robot in % compared to Phantas			Г	79,49				
ROI in months				4,5	Wit	hin half a year!		

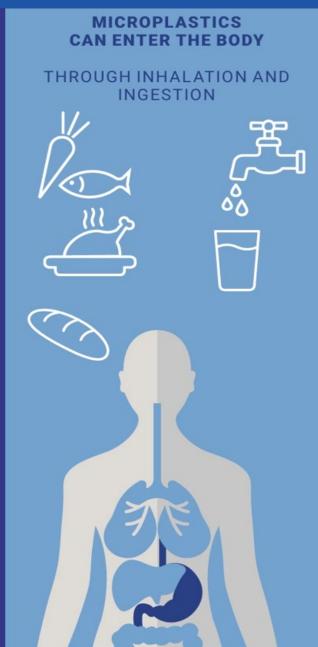


Micro and Nano-plastics can make people sick!

25% OF PLASTIC WASTE COMES FROM **CLEANING BOTTLES / POUCHES**







MICROPLASTICS ARE DIVERSE IN SHAPE AND COMPOSITION

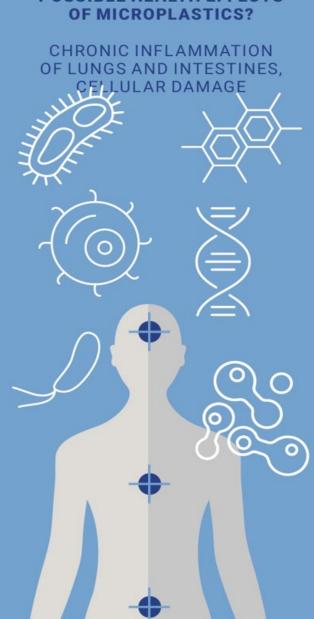




FOAM



POSSIBLE HEALTH EFFECTS



The circle of life = The circle of NHS



By helping prevent some deceases, using less "Single use plastics"

Eliminated Daily & Single use plastic cleaning bottles & pouches and PVOH based capsules & Sheets









Use recyclable carton packaging, Stop transporting 95% water in liquid chemicals!

How can NHS slow down this circle



OH! THO

How to Clean Zero waste & 100% Plastic Free?



By Re-invention of Cleaning agents!

Developed in the UK; Seaweed-Cellulose-Leaves

- ✓ Eliminating all single use plastics, 100% MNP's free!
- Effective on contamination, save on all floors
- 100% PVOH (Fossil based Polyvinyl Alcohol) free!
 - ✓ Unique, instant water-soluble Seaweed bound leaves
 - ✓ One 8-gram concentrated leaf, makes 2,3-liter concentrate,
 - Further diluted to1-2 %, reducing cost in use up to 80%!
 - Exact dosing with or without dosing equipment
 - A zero-waste recyclable carton packaging
 - A safe (pH 6.8) formula for sealed or unsealed floors
 - Reducing build up in joints and odors in wastewater tanks





Who did hear solutions that could reduce part of your challenges?

- **➤ Tight budgets**
- **≻** Lack of Staff
- > Prevent H.A.I.'s & MRSA
- **➤ Strict Zero Waste targets**









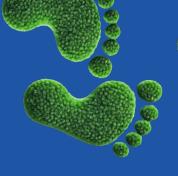


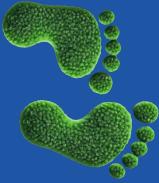


Start with robotic floor-cleaning, help prevent H.A.I.s' & labor shortage, clean 100% Plastic free & Zero waste.



Expand plastic & Zero waste cleaning to Interior, Sanitary, Kitchen & Personal Care.





Let's walk this journey together, for a healthier future!







FM today ask for automated solutions, free from plastics, waste and PVOH!



Thanks for listen, Peter Kwestro





