

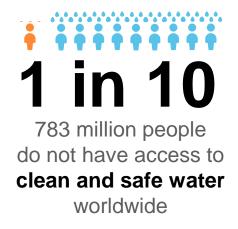


Propelair exists to reduce flushing away increasingly scarce drinking water

Water use has been growing more than 2x the population growth in the last century

An increasing number of regions are chronically short of water

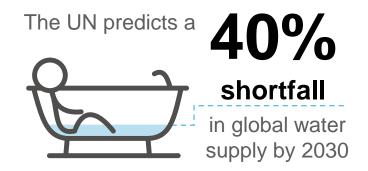
As the effects of cost and water supply issues have emerged, water saving initiatives have come into focus in both the regulatory environment and business

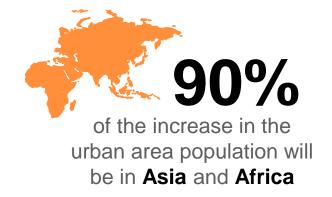


Water demand globally is projected to increase by



between 2000 and 2050*







Problem: toilets waste vast amounts of clean water

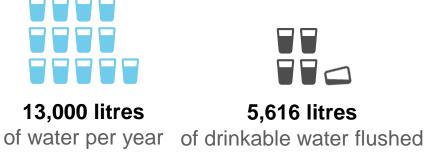
Water usage in commercial premises*



On average, an employee 'at work' uses*







Conventional toilet system issues



Drinking water price inflation



Currently inefficient – 6 to 9 litre flush



Poor hygiene



High maintenance costs



Unreliable drainage systems



Waste water costs



Slow refill / toilet queues



The Solution – Propelair The lowest water flush toilet in the world

Uses air to propel just 1.5 litres of water into existing drains, fully cleaning the bowl and removing all waste

How it works:

A two-section cistern; one for air and one for water

Before flushing, the lid is closed to **form a seal**

Refills in only 20-30 seconds



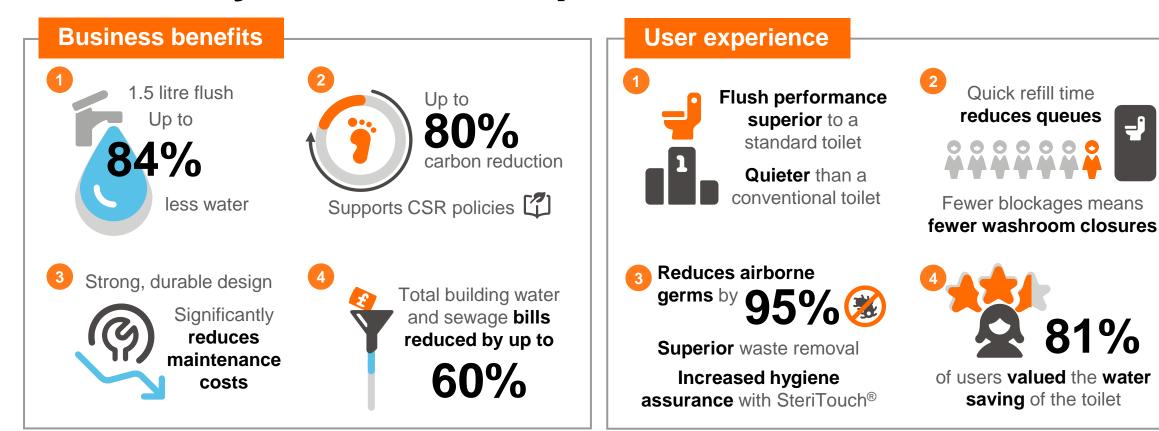
When flushing, water washes the pan, and air from the unique patented pump pushes out the pan contents...

the remaining clean water fills the 'water trap' at the bottom of the pan

Flushes in only 3 seconds – powerful and reliable, leaving a clean bowl



Efficiency without compromise





The Propelair toilet was chosen because of [our] commitment to carbon and water reduction. The toilet offers substantial water savings and feedback from our clients was positive. The design has been well received by our customers.



Big financial savings

Usual payback: less than 3 years

Propelair saves vast amounts of water, so saves operational costs

In addition, in the UK Propelair is listed on HMRC's Water Technology Product List as qualifying for an **Enhanced Capital Allowance** (ECA)

100% tax deduction in the year of expenditure - reducing the cost by 19% (the UK corporate tax rate)

We plan to launch low-capex and Savingsas-a-Service options imminently

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Example of potential savings (based on website calculator and assumed parameters)								
Assumed parameters Number of toilets 60	Per toilet (per year)	All toilets (per year)						
WC flushes per day 70	25,200 flushes	1,512,000 flushes						
Current flush 9 litres volume	189,000 litres water saved	11,340,000 litres water saved						
Building 360 days utilisation	196 kg 7.77g CO ₂ saved per year	11,748 kg CO ₂ saved per year						
Cost per m ³ £3.20	£605 saving	£36,288 saving						
Full cost of investment repaid after 1.6 years*								
* Standard installed price per unit After ECA saves 19% → net cost		£73,500 £59,535						

Now is the right time to install the Propelair solution

Water saving is on the agenda and becoming ever more urgent

Forms part of most big businesses' **CSR policies**

Constantly in media coverage

Businesses are actively looking for **incremental cost savings** from their buildings

No other toilet solution is so conclusive



Australia brought in a water-savings act in 2007/2008.



California will begin to enact new state-wide water conservation laws.







A project in Durham, run by The Water Hub, which itself is a collaborative project on Durham's Heritage Coast between **Durham University**, **Northumbrian Water**, **Environment Agency** and **Durham County Council**, aims to build an **eco-friendly building with water-saving solutions**.

Goldman Sachs dedicated \$1.2 billion to green buildings and green tech in 2018 alone. This was 60% of its overall budget for the green investments category by 2020. Yet, they only improved their energy efficiency by 10% compared to 2015 levels. Progress in water use reduction also slowed down in 2018.



The UK government has pledged to implement the recommendations set out by the Committee on Climate Change (CCC), creating a legally binding net-zero carbon target for 2050.



A prototype "off-grid" toilet system developed by researchers at RTI International, in partnership with Duke University and Colorado State University, began being tested in Durban, South Africa, in 2017.





COVID-19 will stimulate demand for greater hygiene

The fallout from COVID-19 will emphasise the need for more hygienic and sustainable solutions

Improved hygiene has been the major news trend

Washrooms have been identified as a potential transmission area

Long term behavioural changes expected with regards to hygiene, as demonstrated by Hong Kong's behaviour post SARS in 2003

Propelair toilets reduce airborne germs by 95%

While scientists have warned that COVID-19 <u>can be spread by fecal-oral</u> <u>transmission</u>...the disease can also be spread through what is known as "aerosolized feces" which means that it's more important than ever to close the lid of the toilet while flushing, according to experts. Forbes April 02 2020





Noteworthy percentages of the respondents self-reported increased frequencies of practicing favorable health-seeking behaviors in June 2003, as compared with the pre-SARS period. The community in Hong Kong responded to the SARS epidemic by practicing more favorable health-seeking behaviors. **Preventative Medicine Aug 2005**

Because of a phenomenon known as toilet plume, stool or urine can escape from the toilet into the air and spread disease, according to the Association for Professionals in Infection Control and Epidemiology



The experience of SARS traumatized Hong Kong, and the memories have endured in the territory's collective consciousness... The experience also brought about a rise in publichealth awareness and a sense of civic responsibility toward preventing illness, as well as an increased investment in health care and research... The Atlantic March 2020



Our clients' combined savings in 2020

1 billion litres

of water



savings from water & sewage bills























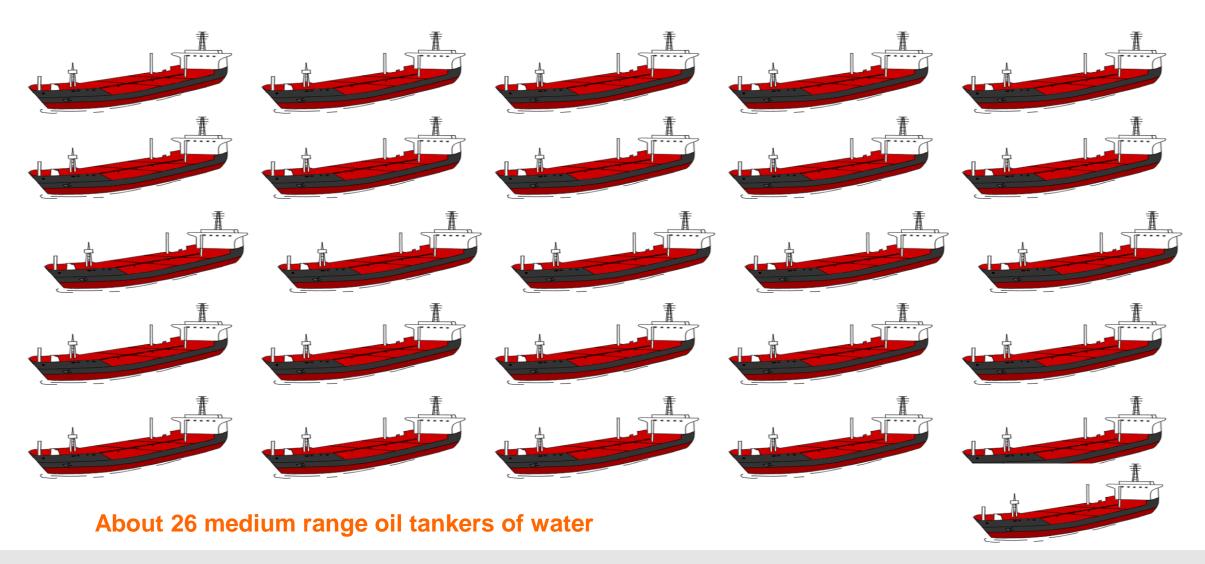






NEDBANK

Customers saving more than 1 billion litres per year





Financial Overview

Case studies





Estate potential

Units installed

Water saving achieved

Water saved per year

Lifetime savings

(based on a 10-year duration)

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865 units

82%

180,000,000 litres

>£4,000,000

>£400,000 annual saving in water bills

300 units

9 units (first trial)

81%

1,848,647 litres

>£1,200,000 (whole estate)

1,000 units

121 units

81%

14,314,300 litres

>£3,300,000 (whole estate)

Significant reduction in operational costs – fewer broken seats & blockages



Company Overview

The future is a smart, connected WC solution





Flush counter

Monitor usage and calculate savings in real time.

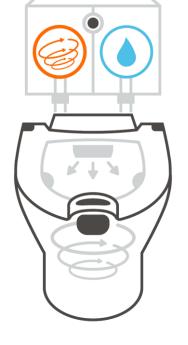
This will inform maintenance and cleaning schedules and facilitate the introduction of a "Savings as a Service" model.



Diagnostics and repair alerts

Multiple sensors monitor key functions allowing for fast diagnosis of issues without any dismantling.

Notifications will alert maintenance teams to issues in real time to drive rapid response and improved parts provision. Link to the BMS or remote platform.





Block detection and prevention

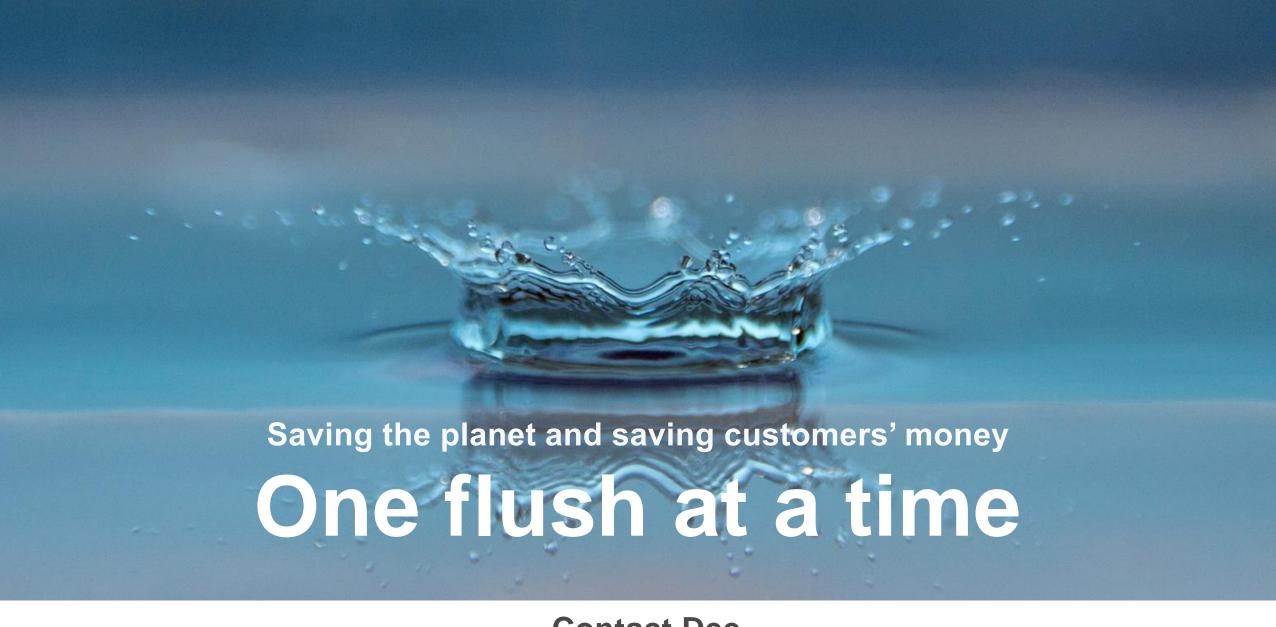
Sensors and valves in plumbing infrastructure will alert maintenance team to impending issues and control flows



Additional benefits

Future additional benefits could include user messaging, advertising opportunities, resource/performance management etc.







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