

Intelligent Plumbing Evolution of Caroma Smart Command



GWA Research Commitment

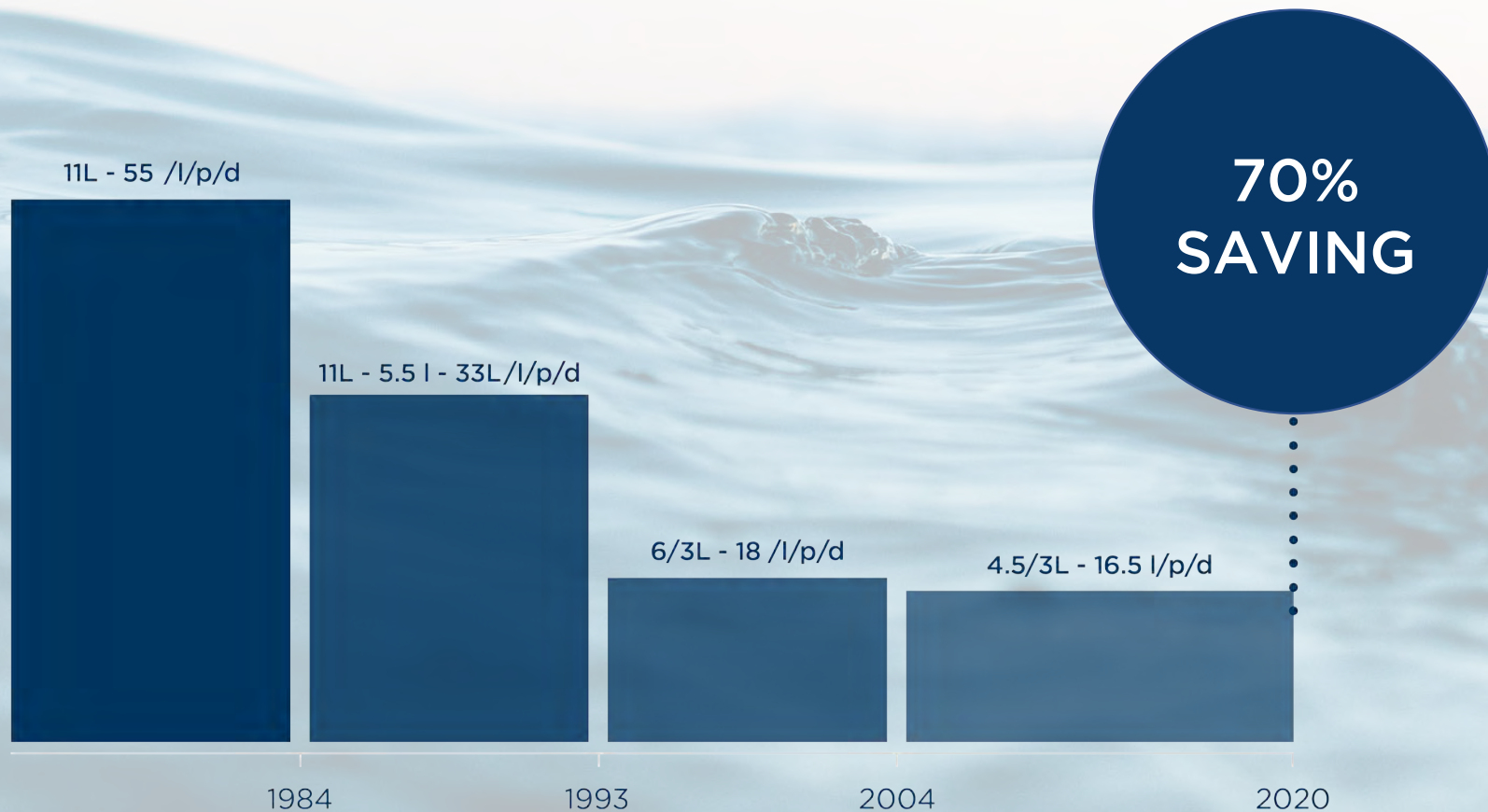
Water Conservation & Sustainability 1984

**VICEROY - FIRST TWO BUTTON DUAL FLUSH CERAMIC CISTERN
STATE OF THE ART FOR THE TIME - CAROMA DNA**



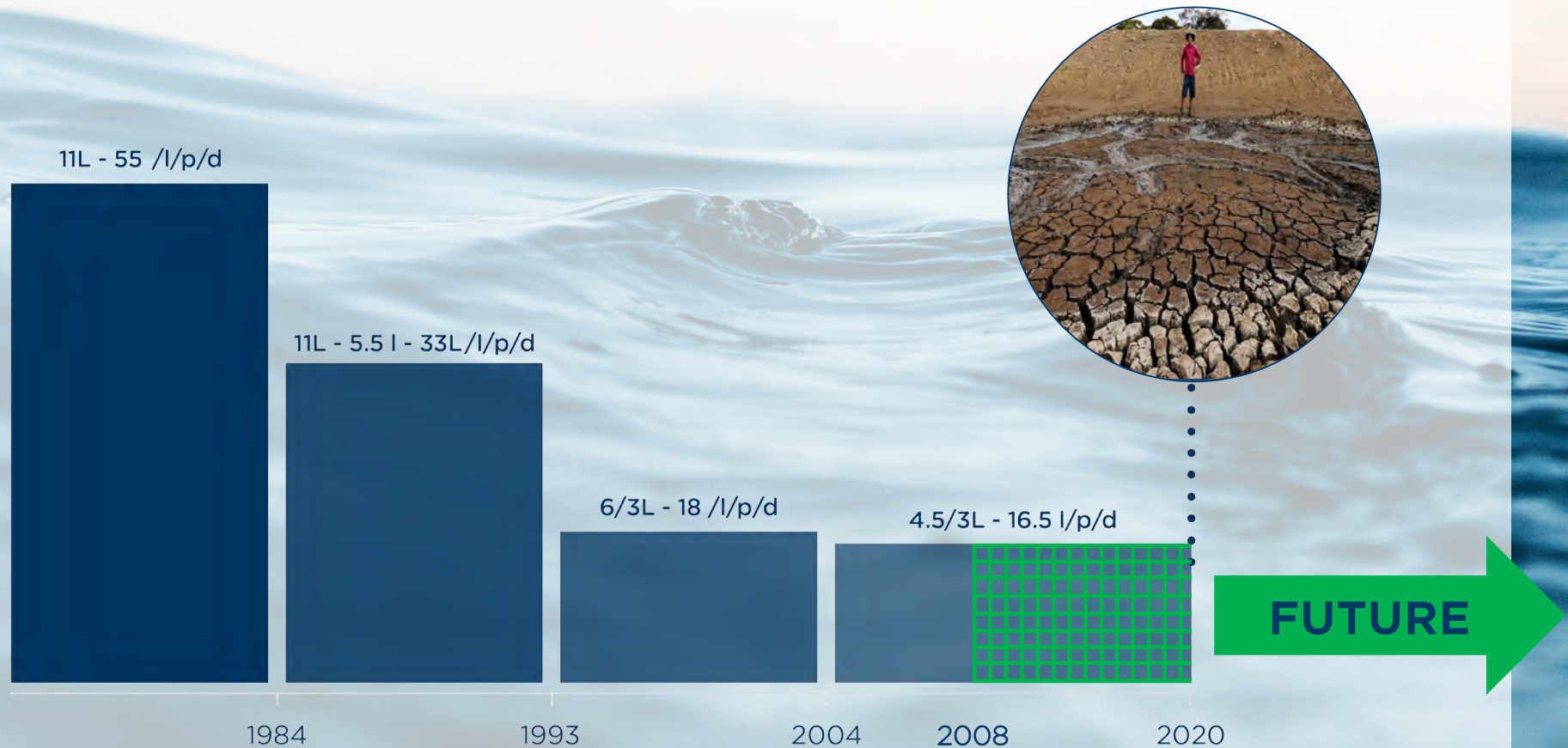
GWA Research Commitment

Water Conservation & Sustainability 1984



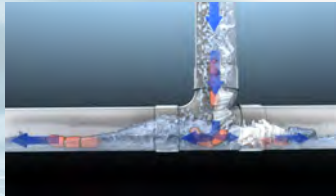
GWA Research Commitment

Water Conservation & Sustainability 1984



GWA Research Commitment

Water Conservation & Sustainability



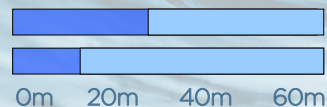
Research >



Amended to AS/NZS 3500



Research >



AS 3500 Revision



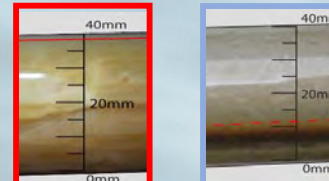
Research >



Learnings



Research >



Learnings

GWA Research Commitment

Concept Evolution – Investigation of a building plumbing issue in Melbourne



Caroma Smart Command

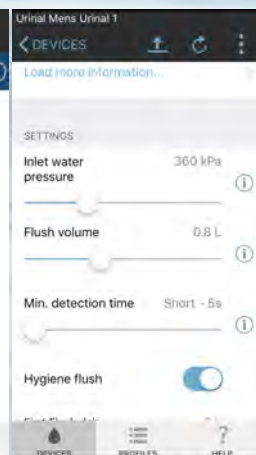
Concept Evolution – Smart Urinal



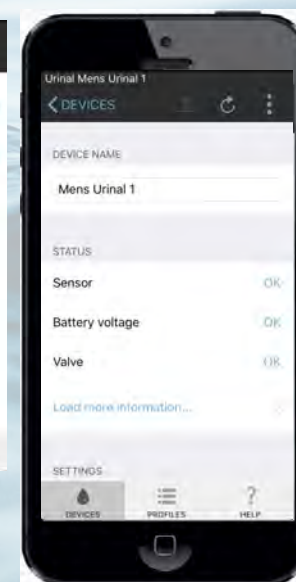
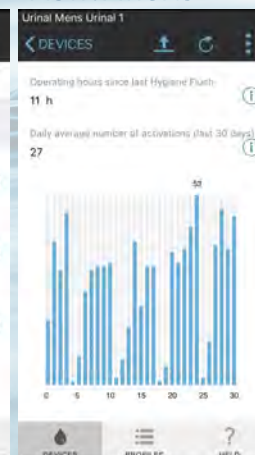
URINALS



PARAMETERS

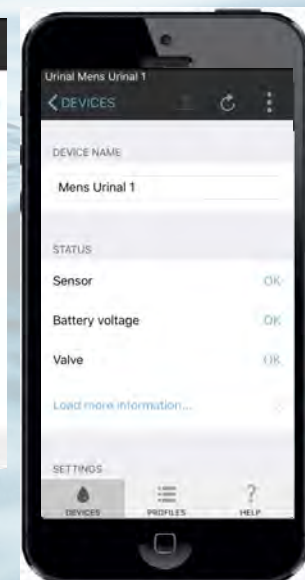
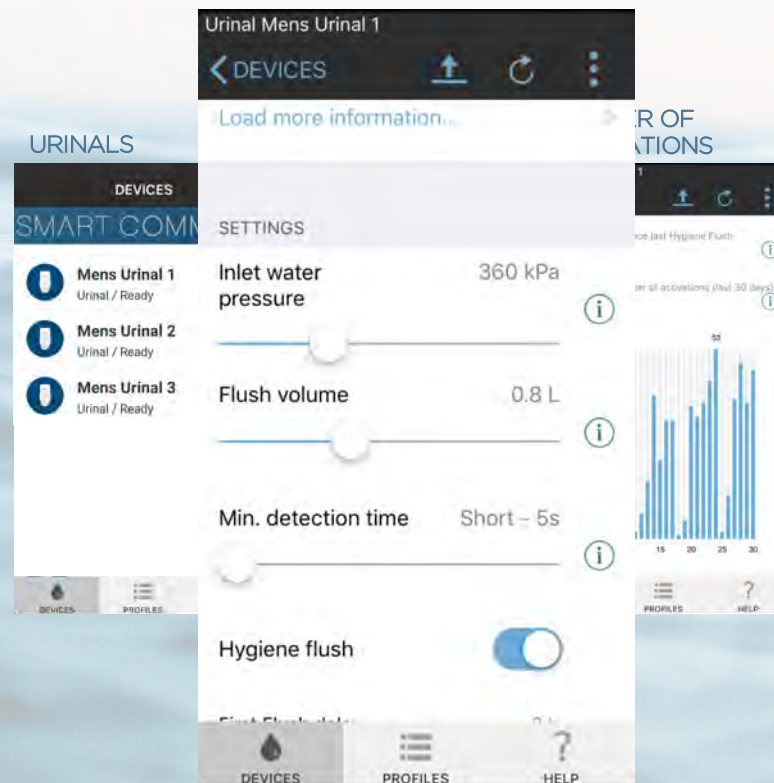


NUMBER OF ACTIVATIONS



Caroma Smart Command

Concept Evolution – Smart Urinal



Caroma Smart Command

Intelligent Bathroom Eco System

Eureka moment for us | Internet of things (IOT)



Caroma Smart Command

Sustainability Building Water Savings



25% reduction in building water usage.*



Water leaks account for around 15% of a building's water use.²



Caroma Smart Command sustainability benefits are recognised in major sustainability ratings such as Green Star, NABERS water and WELL.



*Norman Disney & Young

2. Sydney Water <https://www.sydneywater.com.au/SW/your-business/managing-your-water-use/leak-prevention/index.htm>

Caroma Smart Command

Wellbeing of Building Tenants



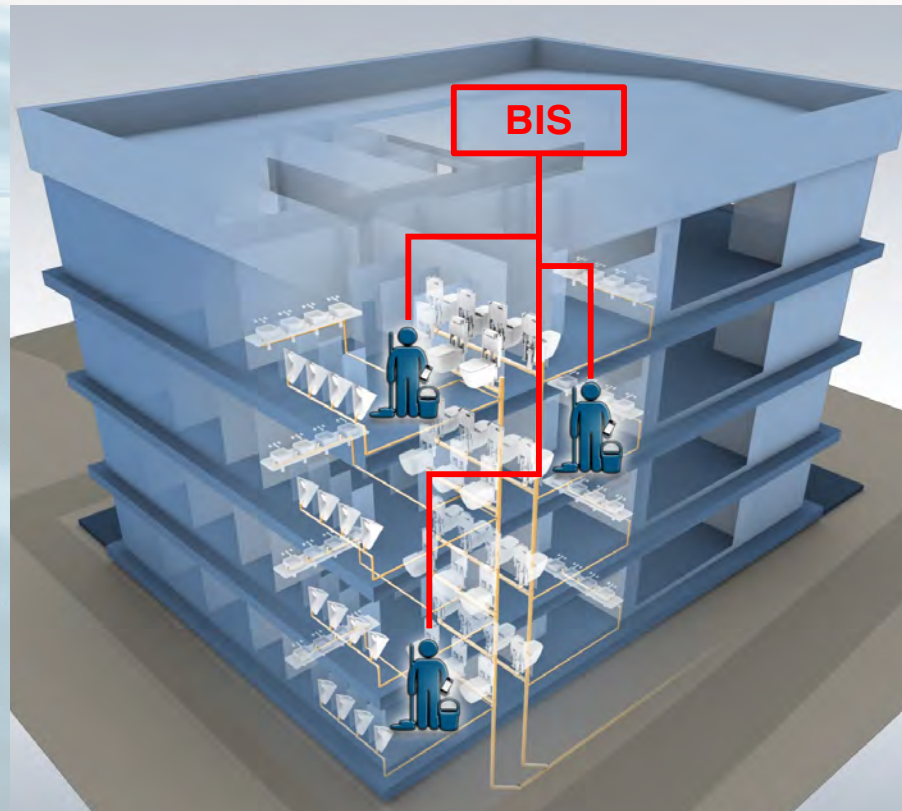
MAINTENANCE OF WELLBEING
TENANT CLEANING TASK ASSIGNED TO CLEANER



Caroma Smart Command

Geo Location of Building Services

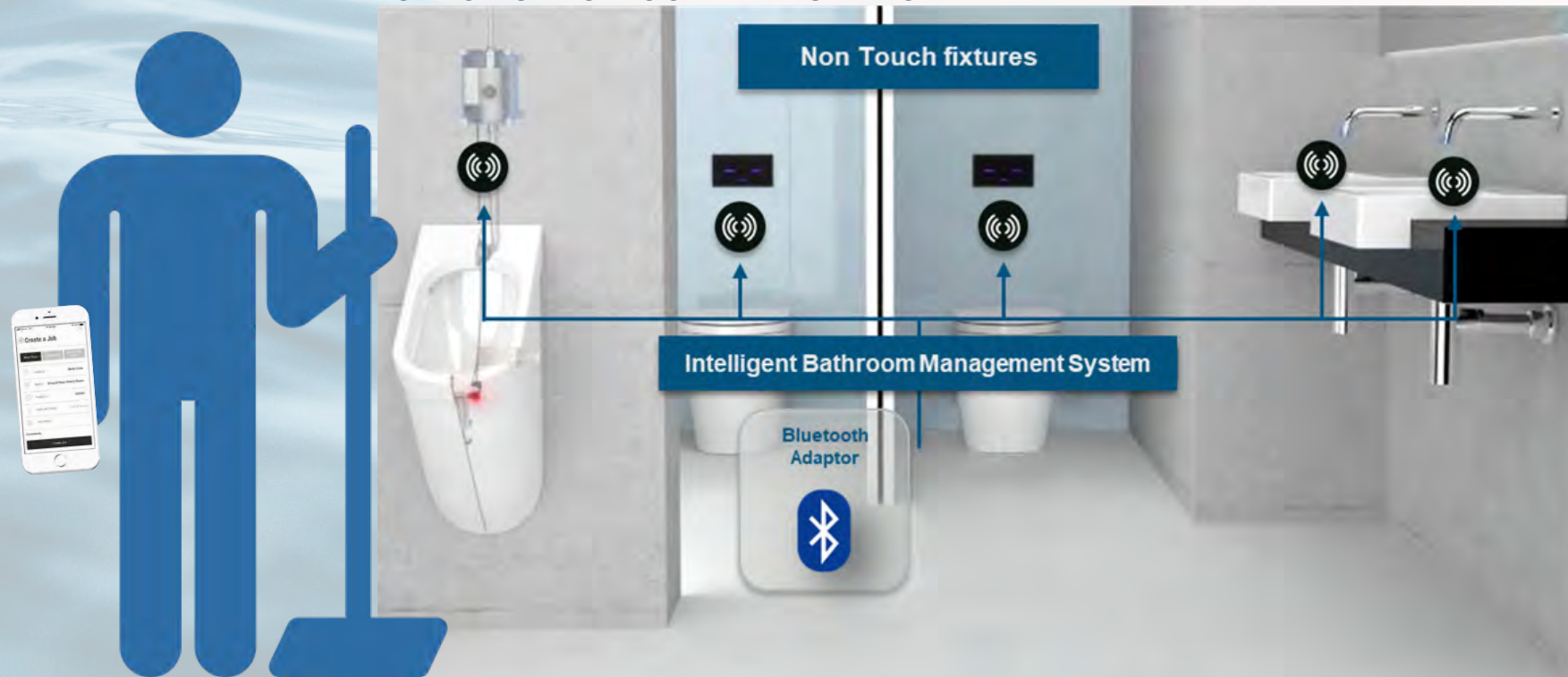
Identification of the position of important staff within the building.



Caroma Smart Command

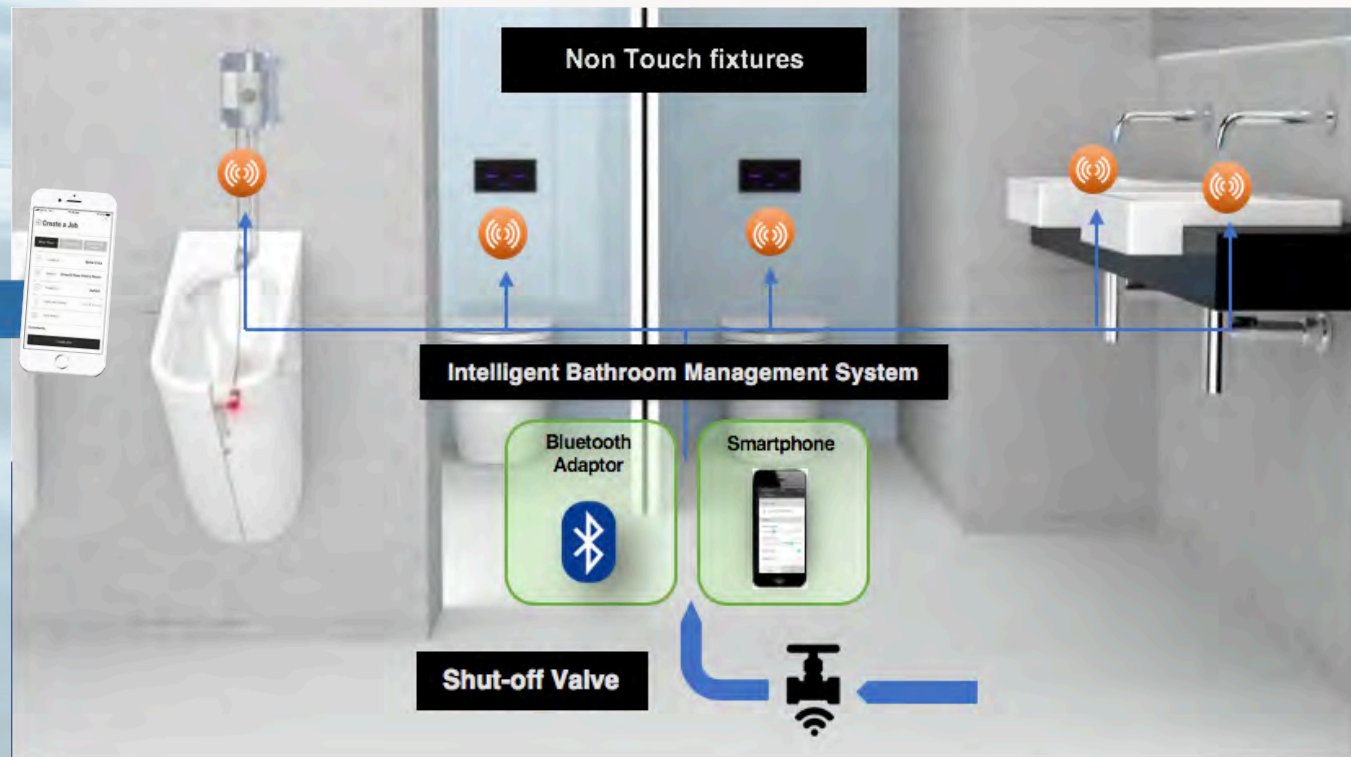
Cleaning

INTELLIGENT BATHROOM SYSTEM
UTILISING BLUETOOTH INTEGRATION



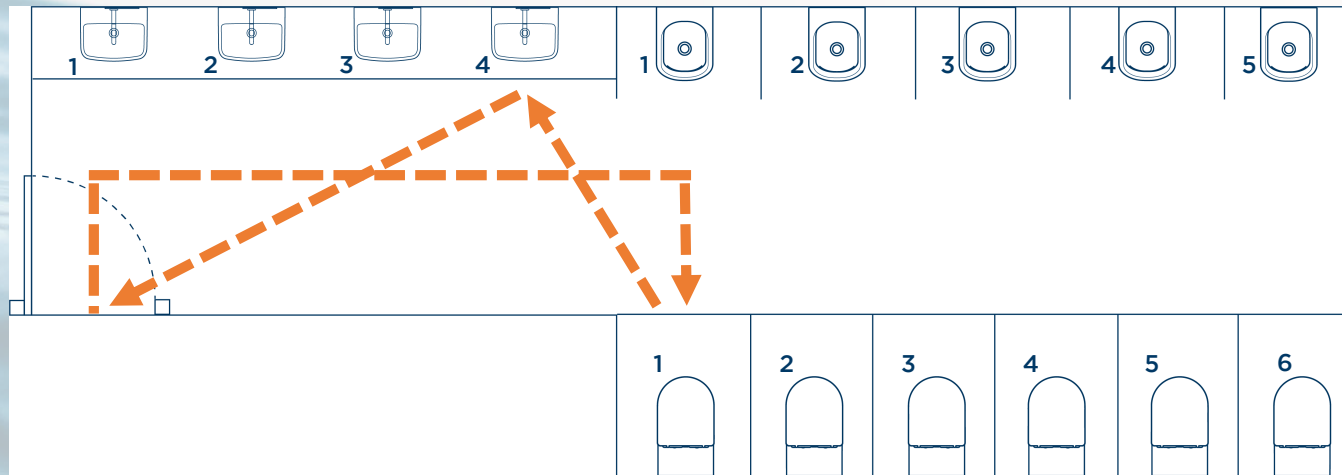
Caroma Smart Command

Maintenance & Commissioning

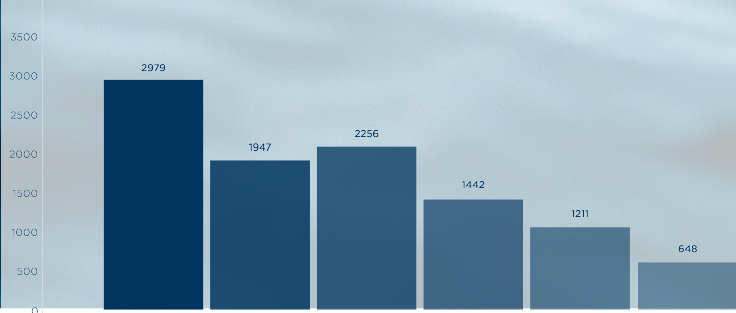


Insights - Bathroom usage behaviour

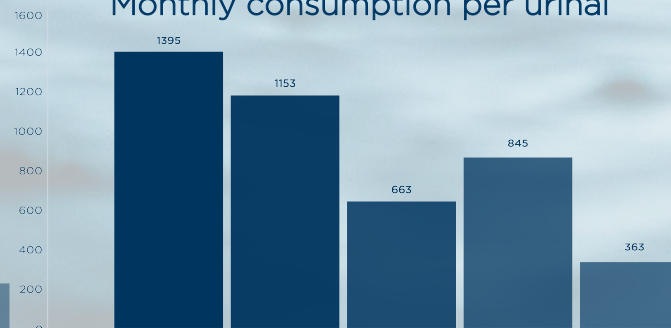
Design importance of the entry door



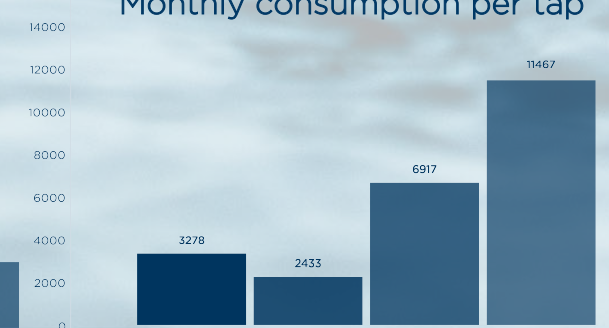
Monthly consumption per toilet



Monthly consumption per urinal

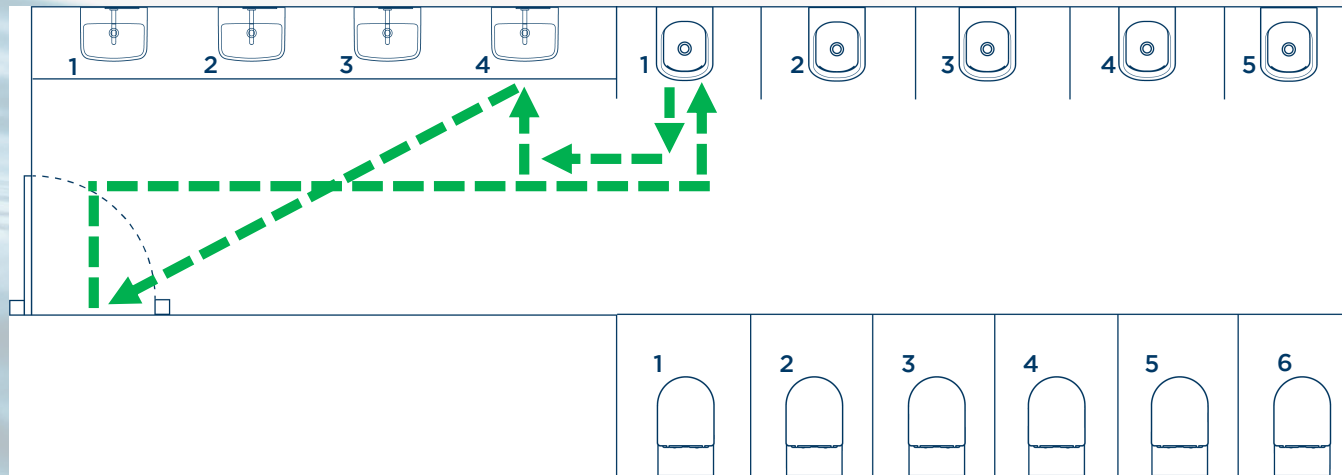


Monthly consumption per tap

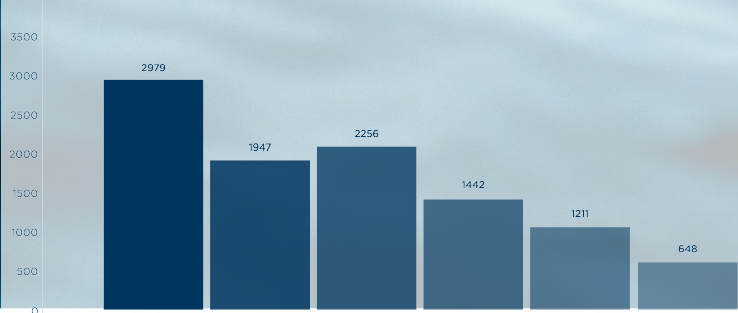


Insights - Bathroom usage behaviour

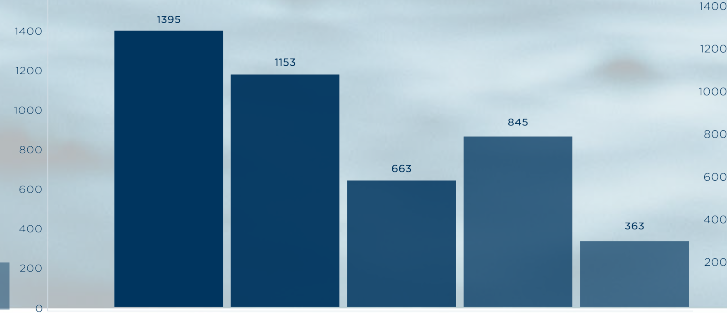
Design importance of the entry door



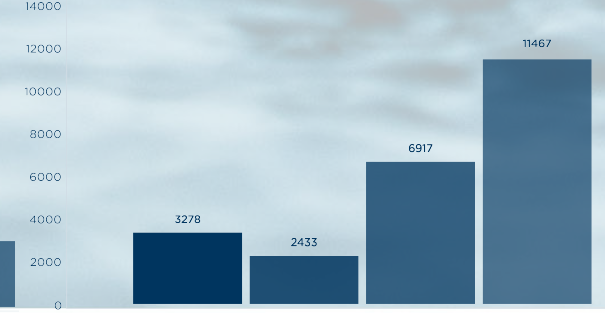
Monthly consumption per toilet



Monthly consumption per urinal

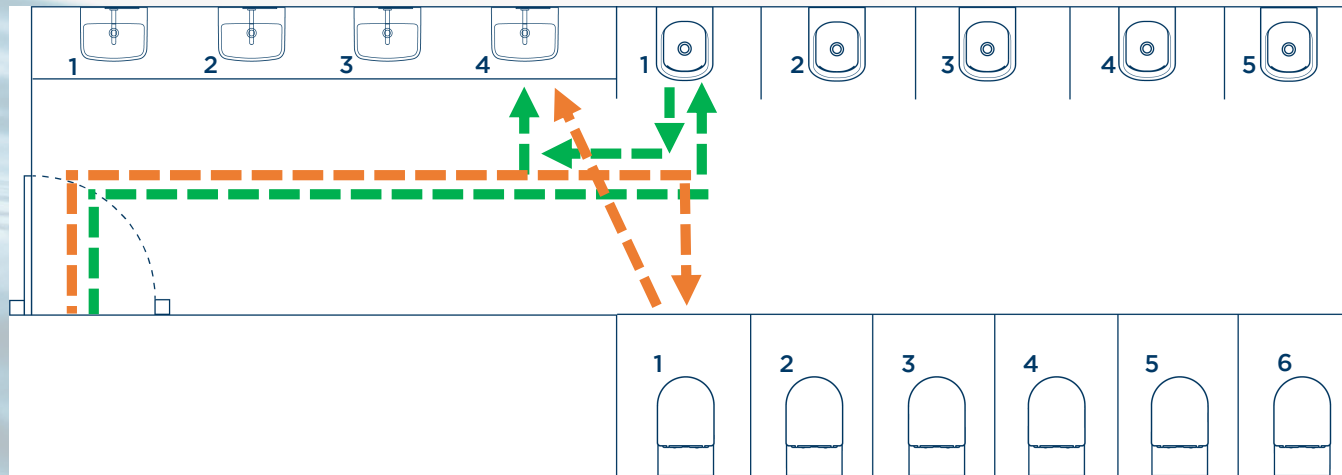


Monthly consumption per tap

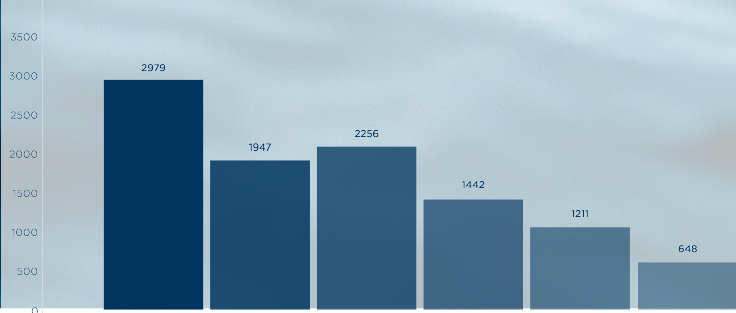


Insights - Bathroom usage behaviour

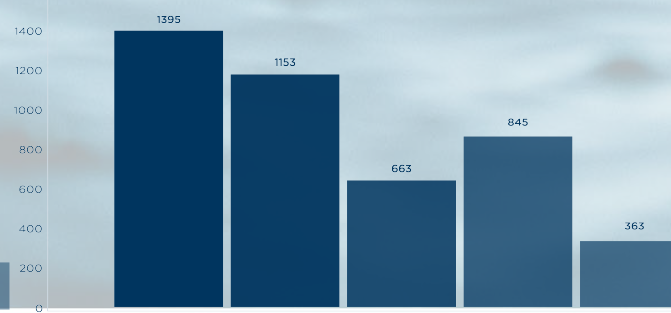
Design importance of the entry door



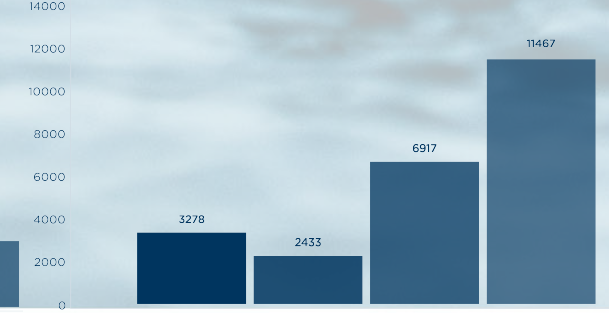
Monthly consumption per toilet



Monthly consumption per urinal

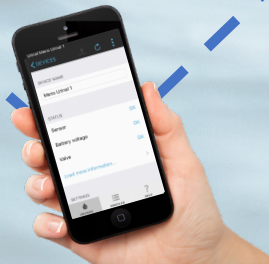


Monthly consumption per tap



Caroma Smart Command

Caroma Smart Command installed in the new PICAC facility at Narre Warren, Victoria.



Developing training programs for plumbing apprentices and professionals



**Caroma Smart Command will change the
way we use and design commercial
bathrooms forever.**



THANK YOU