



2024 Annual Meeting & Symposium

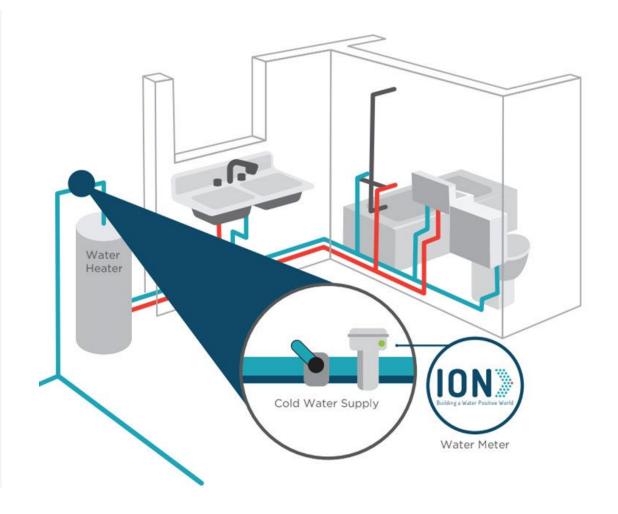
Water Optimization in Affordable Housing



#### **How ION Works**



- Our water optimization platform provides unit-level, real-time, actionable water performance data via smart sensors
- ION installs water sensors in EVERY unit of a property
- Defines: Consumption vs Leaks
- Generates automated work orders for leaks so site personnel can stop water loss before it impacts a property's bottom line
- Saves time and resources of site staff in addition to utility costs





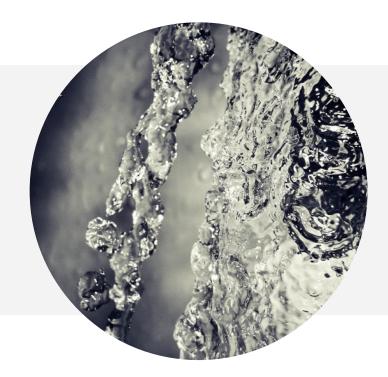
#### **Affordable Water Performance**





ION Under 50

Gallons per Bedroom per Day (GBD)



Affordable Avg 100

Gallons per Bedroom per Day (GBD)



#### **Cost of Water Waste**





200B

**Gallons Wasted** 



\$3B

**Excess Expense** 



800K

Tons CO2e





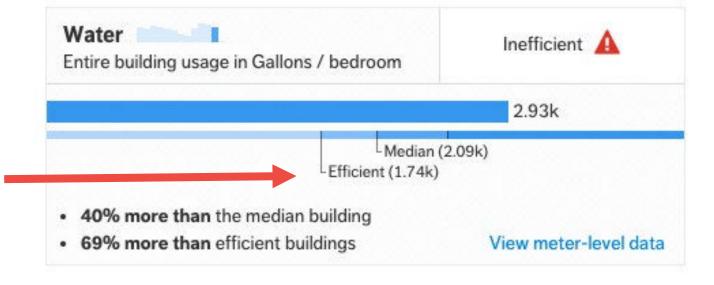
## **Optimization vs Benchmarking**

▲ Property	<b>♦</b> Units	Bedrooms	<b>♦</b> Gallons per Bedroom		<b>♦</b> Leak Gallons	♦ No Leak Gallons				Last Month Leak Gallons Percent	
	271	528	27	448,781	3,718	445,063	1%	452,533	5,024	1%	0%
	258	520	37	601,955	14,631	587,324	2%	612,314	12,530	2%	0%
	312	726	42	937,051	78,640	858,411	8%	910,190	97,037	11%	-2%
	214	438	39	525,189	45,566	470,023	9%	536,684	38,337	7%	2%
	219	471	49	711,743	90,886	620,857	13%	733,943	75,932	10%	2%
	253	509	35	546,714	2,,814	464,900	15%	541,060	69,898	13%	2%
	261	571	52	920,338	159,836	760,501	17%	910,113	132,784	15%	3%
	105	240	45	J4,958	59,706	275,252	18%	373,265	48,608	13%	5%

27 GBD

VS

**60 GBD** 









# Existing Water Performance of Top 25 Affordable Developers (Prior to Using ION)

Units	Bedrooms	Existing GBD	
10,752	22,578	102	



- If Kittle and Dominium were operating at these industry performance levels they would be wasting an additional
   1.2 billion gallons of water every year
- They would be emitting an additional 4,900 tons of CO2e every year
- They would be wasting \$18M of NOI every year

# Existing Water Performance of Top 25 Affordable Developers (Utilizing ION)

Units	Bedrooms	ION GBD	
27,987	56,089	43	







## **Water is Complicated**

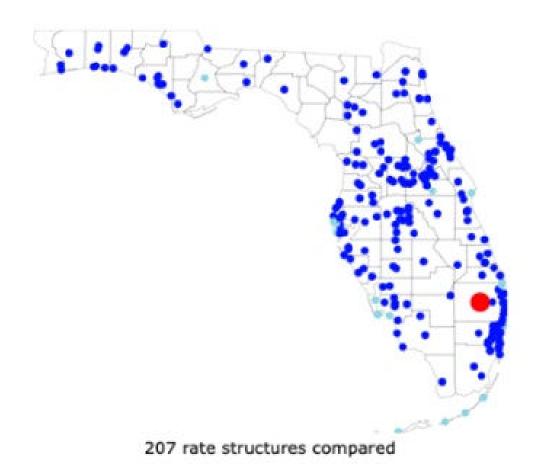


- Over 50K Community Water Systems in the US
- Water is constantly degrading
- Water needs ongoing management
- Efficiently constructed does not equate to efficient operation







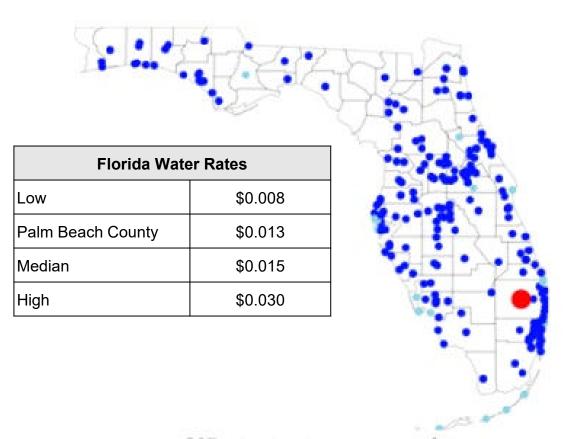


50 Unit / 100 BR Development					
\$29,091					
\$56,484					
\$108,268					



## **Variability of Water**





Example Property (50 Units / 100 Bedrooms)						
	ION	Avg Affordable				
GBD	50	100				
Annual Consumption	1,825,000	3,650,000				

Fina	Delta	Debt Sizing		
Low	\$14,545	\$29,091	\$14,545	\$207,789
Median	\$28,242	\$56,484	\$28,242	\$403,455
High	\$54,134	\$108,268	\$54,134	\$773,344

207 rate structures compared



## The ION Impact



#### **Operating Turnaround**

- 337 units installed January 2024
- 120K Gallons per Day
- 13K Gallons Yesterday
- \$4K Savings per Day

#### **Debt Sizing**

- 192 units closed December 2023
- Original proforma \$178K per year
- ION proforma \$96K
- \$1.2M increase to debt sizing

### MCCORMACK BARON SALAZAR



AFFORDABLE DEVELOPMENT



## Low Flow



Property	Vista la Rosa (2018)	Maple Pointe (2020)	Fort Chaplin (2017)
Toilets	1.28 GPF WS	1.28 GPF WS	1.1 / 1.8 GPF WS
Showerheads	1.75 GPM WS	1.5 GPM WS	1.5 GPM WS
Bath Faucets	1.2 GPM	1.2 GPM	1.2 GPM
Kitchen Faucets	1.5 GPM	1.5 GPM	1.5 GPM
Performance	148 GBD	121 GBD	250 GBD



