



SwanCav

A Prasinos Tech Innovations Product

Algal Control for Inland Water Bodies

CHANNEL PARTNER



**PRASINOS TECH
INNOVATIONS**

Prasinos Tech Innovations Pvt Ltd
Product Development & Manufacturing

WATER.
UTILITY | ENVIRONMENT

Water Dots, Vadodara
**Exclusive Channel Sales &
Marketing Partner**



**We are on a mission to
empower government
and our citizens**

**“It shall be the duty of every citizen of India to
protect and improve the
natural environment**

**including forests, lakes, rivers, and wildlife
and to have compassion for living creatures.”**

Article 51-A (g), Constitution of India

Remember when in your childhood, where you and your parent would take you and your siblings for boating, where on a all your family- cousins, uncles and aunties, gathered for a family picnic?

How beautiful are these memories!

Children splashing in the shallows.
Fishermen cast their lines in hopes of a good catch.

Chances are that your and my kids today probably do not have this privilege of belonging to a world where water bodies are in harmony with nature & are a source of health and healing.



Are algae blooms always poisonous & toxic?

No. But,

Its hard to tell by looking.

Some Algae is harmless, in controlled quantities is even useful, but the poisonous cyanobacteria can be of any colour; blue-green, green, yellow, white, brown, purple, or red.

If contaminated, it can even be fatal

Affects everyone from humans, animals, fishes & plants!
Causing anything from allergies to death!



Dal Lake, Kashmir,
in its former glory

₹170Cr /year



Hussain Sagar Lake,
once the pride of Hyderabad

₹100Cr /year

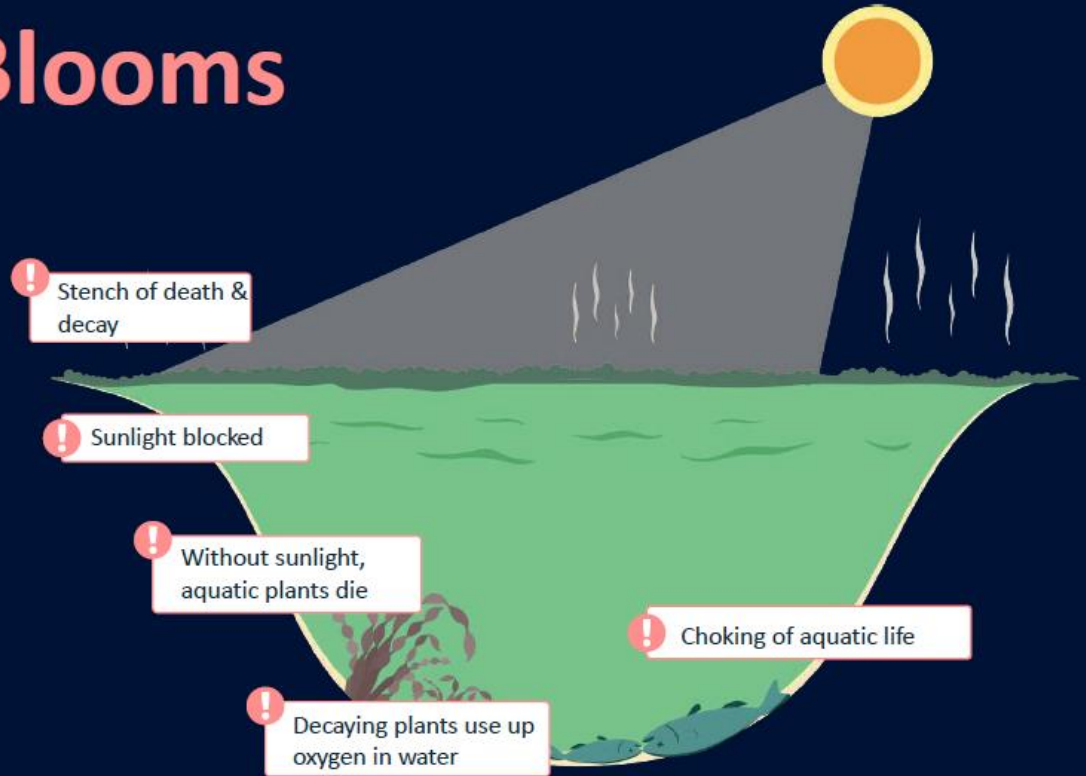


The Culprit:

Harmful Algal Blooms

Lower levels of
dissolved oxygen

High toxicity



It's **very difficult to eradicate** the root cause immediately

HABs are caused by complex combination of factors

! High concentration of nutrients in water

! Sunlight

! High temperature

! Slow moving/ stagnant Water

Accelerated by:

- Rapid urbanisation
- Under-prepared sewage systems
- Agricultural run-off of fertilisers

“Wicked problems”

that demand massive budgets and sustained systemic changes.

So we decided to work upon a solution



Prasinos Tech Innovations

We are a clean tech company,
dedicated to innovating to make lives more
efficient, sustainable & risk-free

Introducing

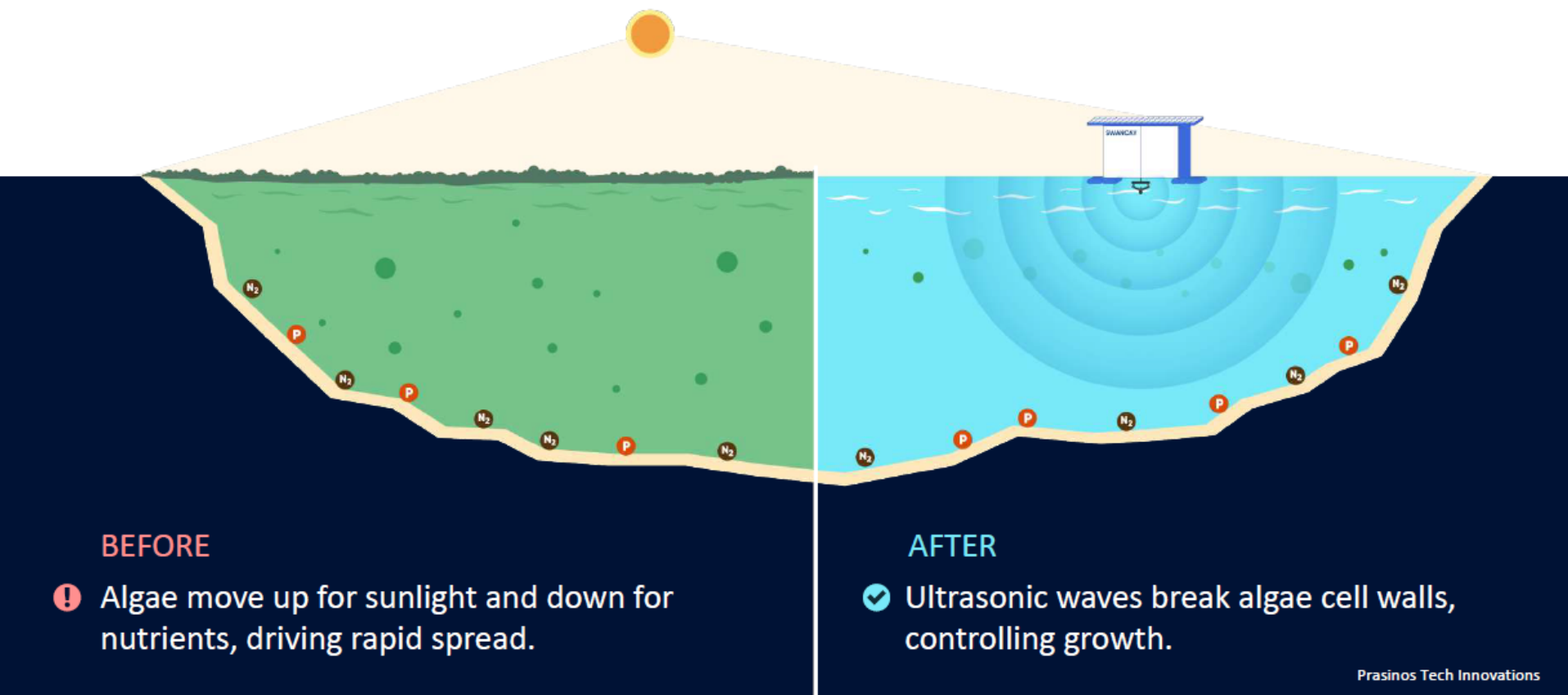
SwanCav

A Smart Solution for **Algal Control** in Water Bodies



1. Effective

Ultrasonic-tech kills ~95% algae, especially the toxic cyanobacteria

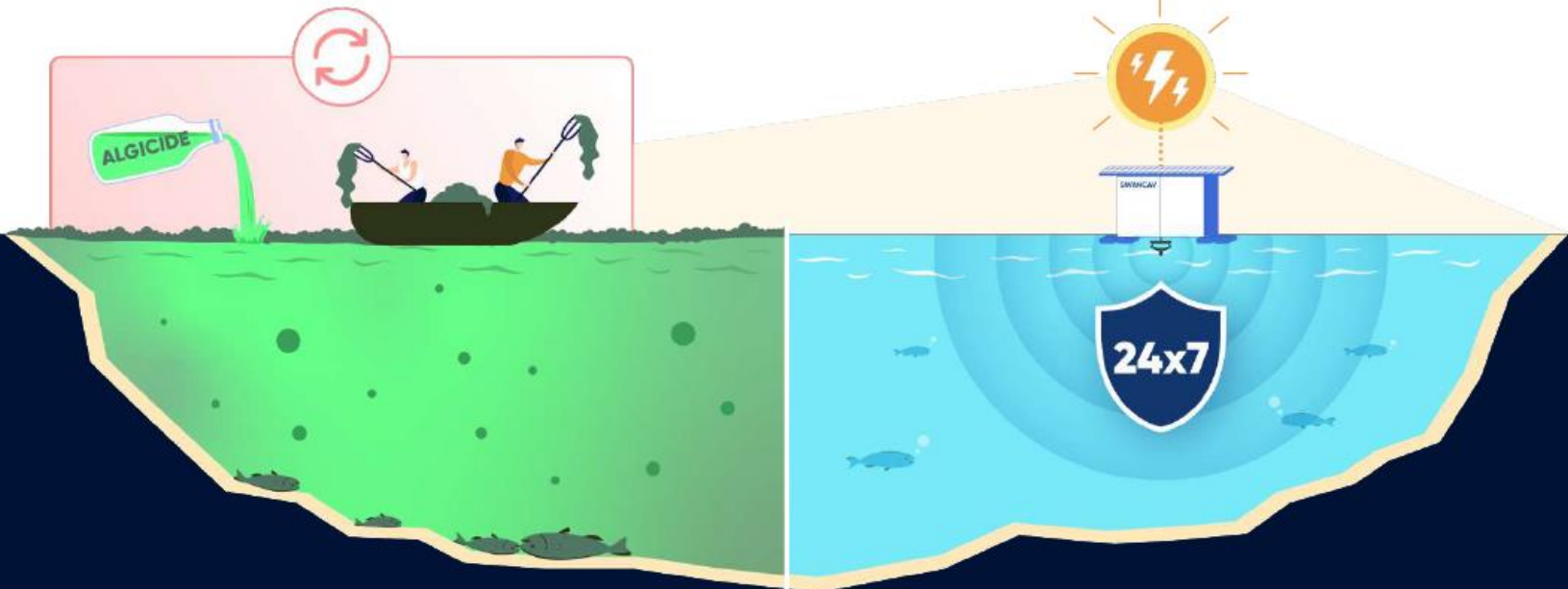


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2.

Easy

Quick installation & no maintenance, works 24x7 autonomously



BEFORE

- ❗ Labor intensive and high maintenance leading to irregularities.

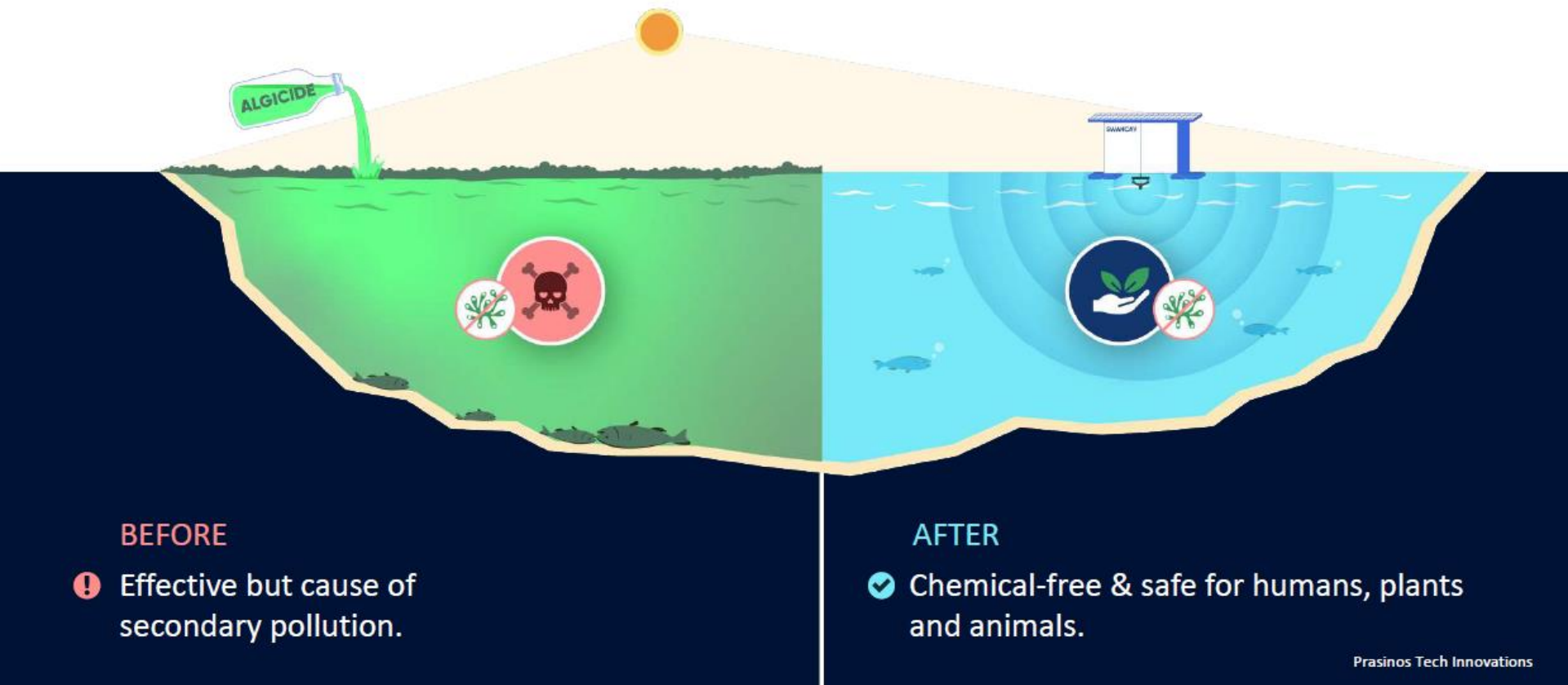
AFTER

- ✅ Install and forget. Autonomous operation in 24 hours.

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3. Eco-Friendly

An environment-friendly, long-term solution



Restore & revive water bodies of all sizes & uses



SwanCav Mini

For Cooling Tanks, Clarifiers,
Water Tanks and Swimming Pools



SwanCav L

For Small
and Medium Lakes

Case Study

The successful restoration of Chikahali Lake, Pune

On 6th Feb 2024, we installed a SwanCav to treat an algae infested lake absorbing sewage from Pimpri-Chinchwad treatment plant

BEFORE



AFTER



Case Study

Verified through rigorous water quality testing

	Safety Levels	Day 0	Day 10	Day 20	Day 30	Day 40	
Dissolved oxygen (DO) (mg/L)	>4	2.5 Poor	3.5	4.1	4.9	5	Optimal for aquatic life
BOD (mg/L)	2-8	9.2 Poor	9	8	8	7.4	Better water quality
Chlorophyll (mg/m3)	0.025	0.05 Unsafe	0.026	0.029	0.021	0.017	Safe and non-toxic
Turbidity (NTU)	<1	0.5	0.1	0.1	0.08	n/a	Visibly clean water
pH	6.5-8.5	7.2	7.3	7.15	7.1	7.15	Absence of heavy metals

Hands-down, the best long-lasting solution

	Algicide	Aeration	Mixing	Ultrasound
Ease of Operations	✗	✗	✗	✓
Ease of Maintenance	✗	✗	✗	✓
Efficacy	✓	✗	✗	✓
Sustainable	✗	✓	✓	✓
Fast Action	✓	✗	✗	✗
Lasting Results	✗	✗	✗	✓

SwanCav Series

	SwanCav Mini	SwanCav L	SwanCav XL
Effective area (LxB) in sq.m.			
Blue-Green Algae	400x200	650x200	650x280
Other Type of Algae	150x70	250x80	380x140
Biofilm	50x20	65x40	100x50
Power Source	AC	DC - Solar Based	DC - Solar Based
Frequency (kHz)	20-60	20-60	20-60
Power Consumption (W/h)	20	50	90
Operational Time (h)	24	24	24
Weight of System (Kg)	5.5	76	150
Buoy Frame	SS	SS	SS
Enclosure	MS Powder Coated	MS Powder Coated	MS Powder Coated
Alarm Indicator	No	Yes	Yes

Manufacturing & selling devices with AMC for recurring revenue



B2G

- Municipal Corporations
- Recreation Departments
- Public Health Departments



B2B

- Agriculture
- Resorts & Hotels
- Industrial Facilities



B2C

- Swimming Pool Owners
- Residential communities with shared water bodies

Following ESG Goals are addressed

SUSTAINABLE DEVELOPMENT GOALS





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