ClimaCrew

Harnessing Satellite Data for Marine Intelligence

Transforming Seaweed into High-Value adds for multiple industry applications

ClimaCrew - A SnapShot

At ClimaCrew, we are transforming low-cost, regenerative ocean crops into high-value bio stimulants, animal feed, and bioplastics—solving critical global challenges in **agriculture, animal feed, food additives, and packaging industries.**
Using marine intelligence and proprietary bioprocessing, we transform a **₹15/kg wet fresh seaweed mass into 1200x value-added products**, creating one of the best ROI profiles for ocean investment.

We have **7+ years in the marine industry**, and **30+ years in the Biotech and Natural Chemistry**

Wet Seaweed (₹15/kg)

From ₹15 → 1200x Value

- Biostimulants
- Animal nutrition
- Functional food ingredients
- Biopolymers & more

- **CDMO** + **Ocean Intelligence**, end-to-end today — certified, climate-positive ingredients.
- **2–3× faster to market,** lower risk — FSSAI done; FCO, Organic, underway; full traceability.
- **Zero-waste biorefineries** — higher margins, multi-SKU from one biomass stream.
- **Exclusivity options** — lock geographies, sectors, or product lines.
- Massive stackable TAM — **$69B+ products + $20B CDMO gap + $18B ocean-analytics.**
- **De-risked with PMF —** biostimulants & feed selling; SaaS + processing scale path; 2 patents filed with continuation plan.
- Operating leverage ahead — **200T/month plants, marquee customers, high contribution margins, sticky multi-year contracts.**

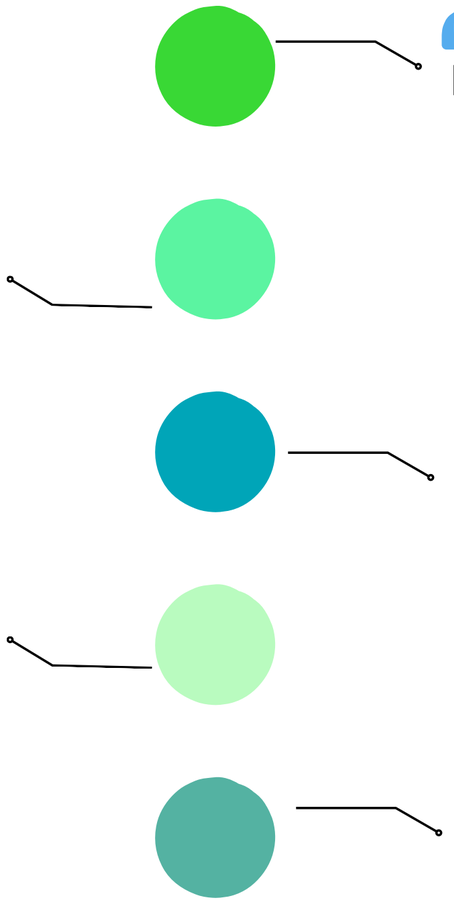
The Problem: A $45B Opportunity, Untapped.

🚫Upto 95%+ Import Dependency

India relies almost entirely on imports for seaweed derivatives used in agriculture, food, feed, and pharma — despite having 7,500 km of cultivable coastline.

🏭Limited Processing & Tech:

Large gap in local high value add processing, traceability, and marine intelligence tools. There is currently no CDMO for the seaweed ecosystem in India.



🌊 Broken Value Chain & No Tech Backbone

There's a major gap in domestic processing, traceability, and marine data infrastructure — leaving Indian players unable to compete on quality or consistency.

🌍 Complete lack of a blue circular economy

A circular economy is vital for the blue economy because extractive use of ocean resources and widespread IUU fishing demand a shift to closed-loop, regenerative systems.

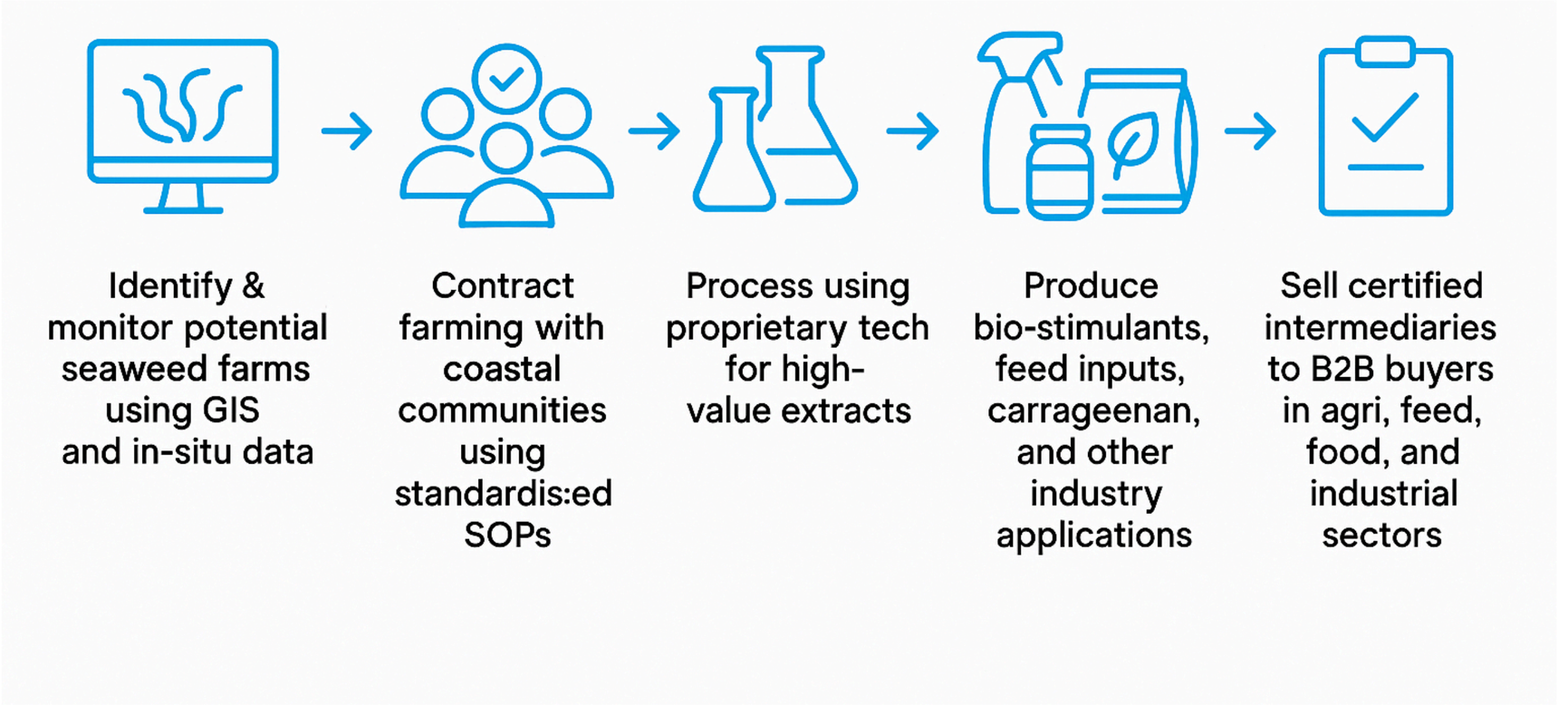
💡 $45B+ Global Market, Still Unclaimed by India

As global demand for seaweed in biostimulants, animal feed, food, bioplastics, and nutraceuticals surges, India's share remains negligible — **a massive whitespace for first movers.**

Our Operational Model: Turning Seaweed into Sustainable, and Scalable High Value Adds across Industries

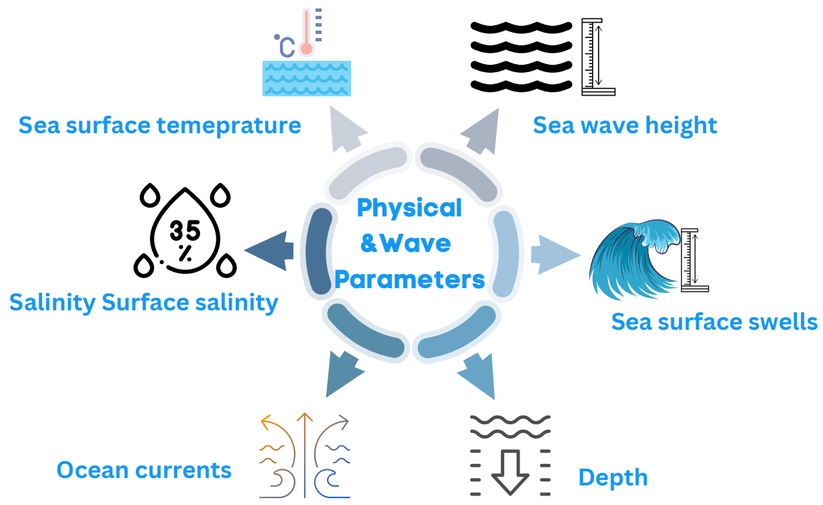
5 Steps

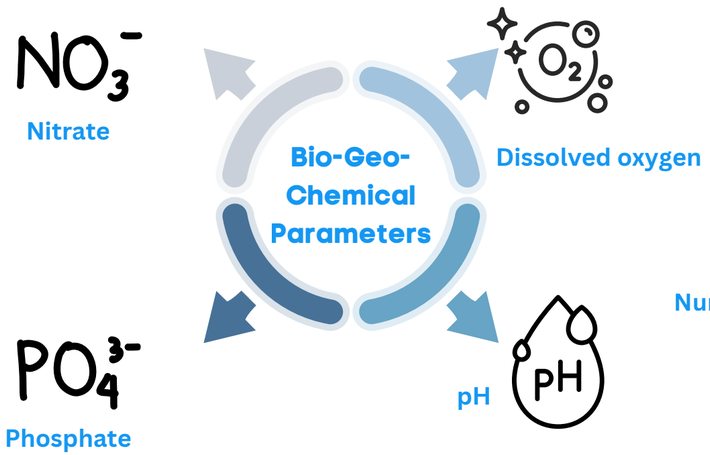
Transforming Seaweed into High-Value Solutions

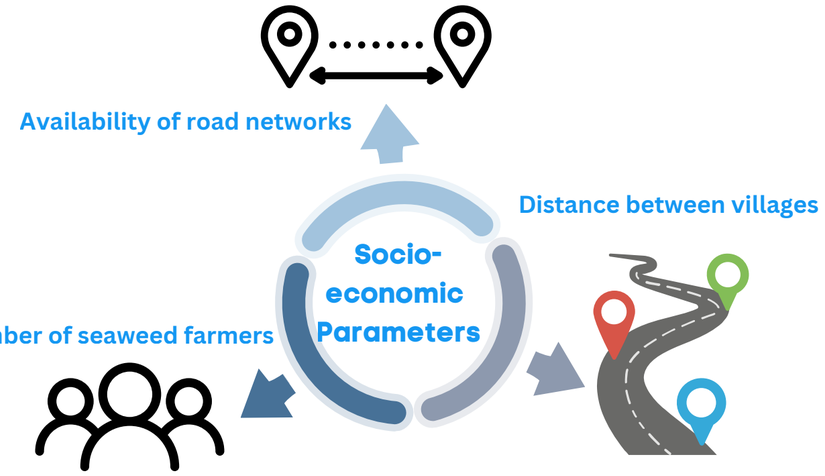


Marine parameter analysis, and site monitoring

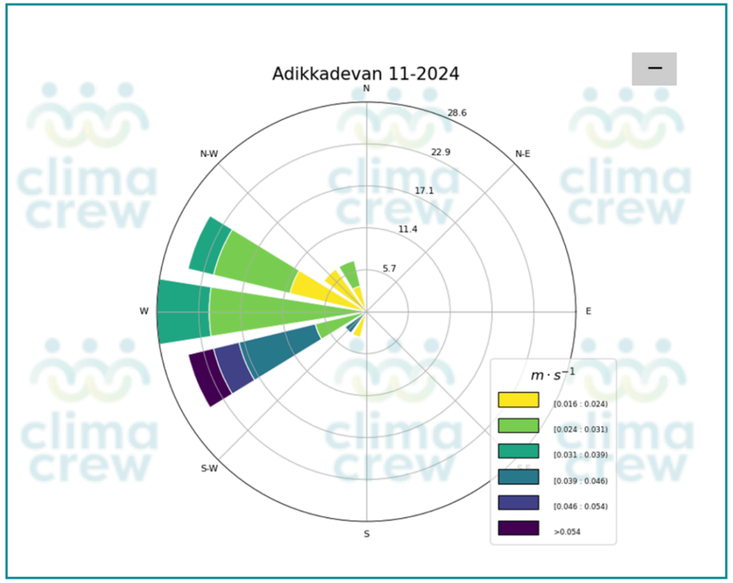
Multi Variate inputs for the analysis

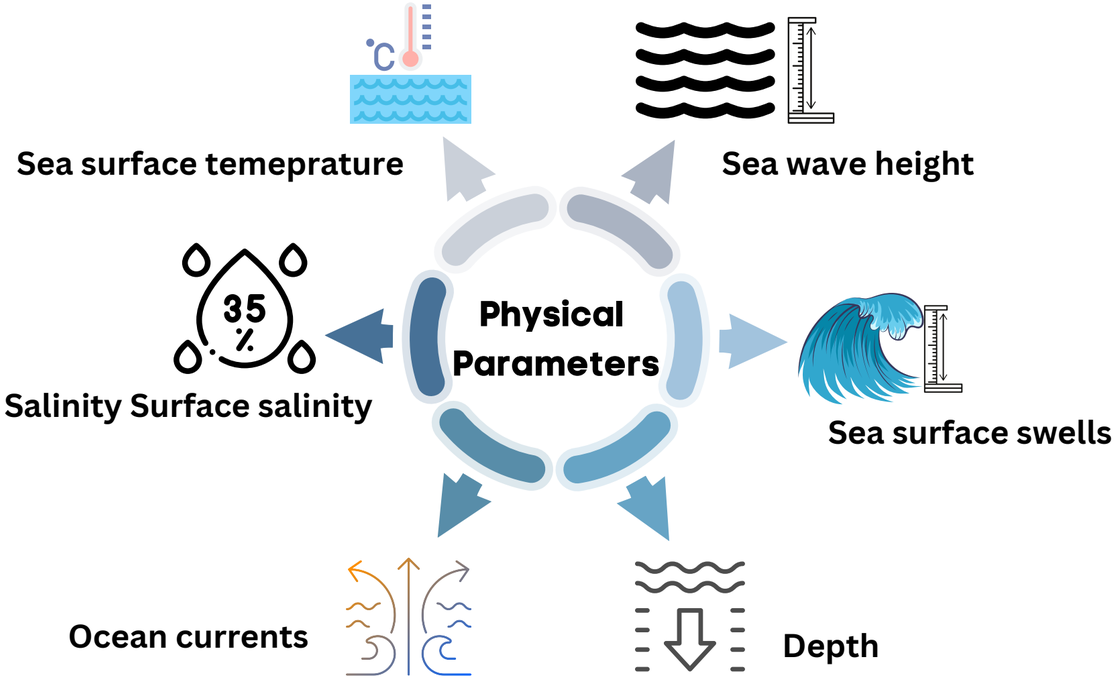


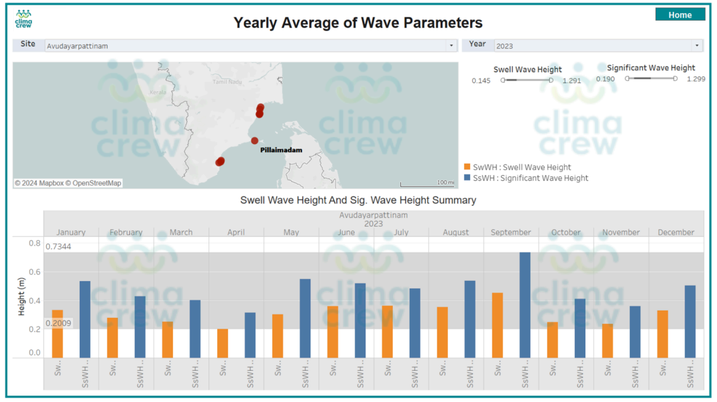


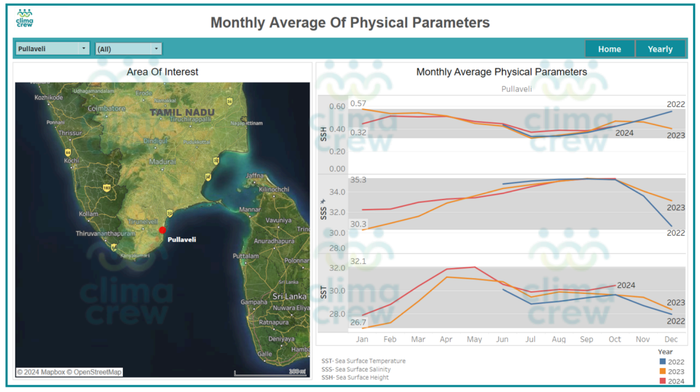


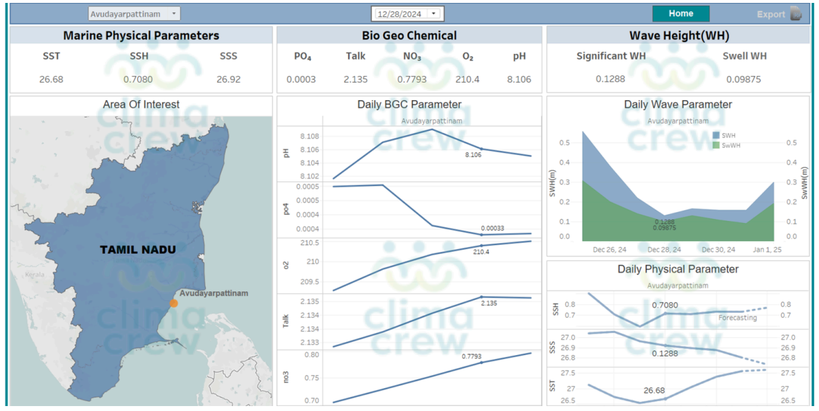
Site Suitability Analysis- Potential Sites











Seaweed species identification

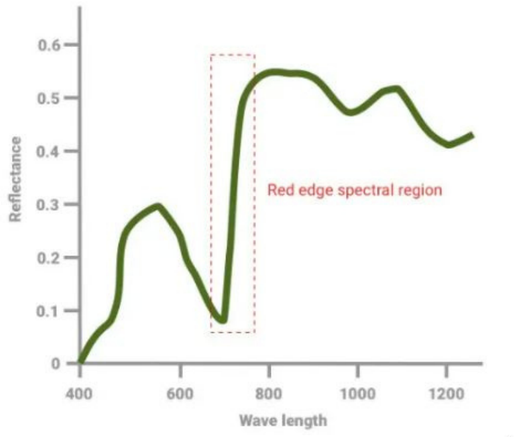
A remote sensing-based algorithm was proposed and developed over Indian oceanic waters to identify seaweed using one of the ocean color indices namely Floating Algae Index (FAI)

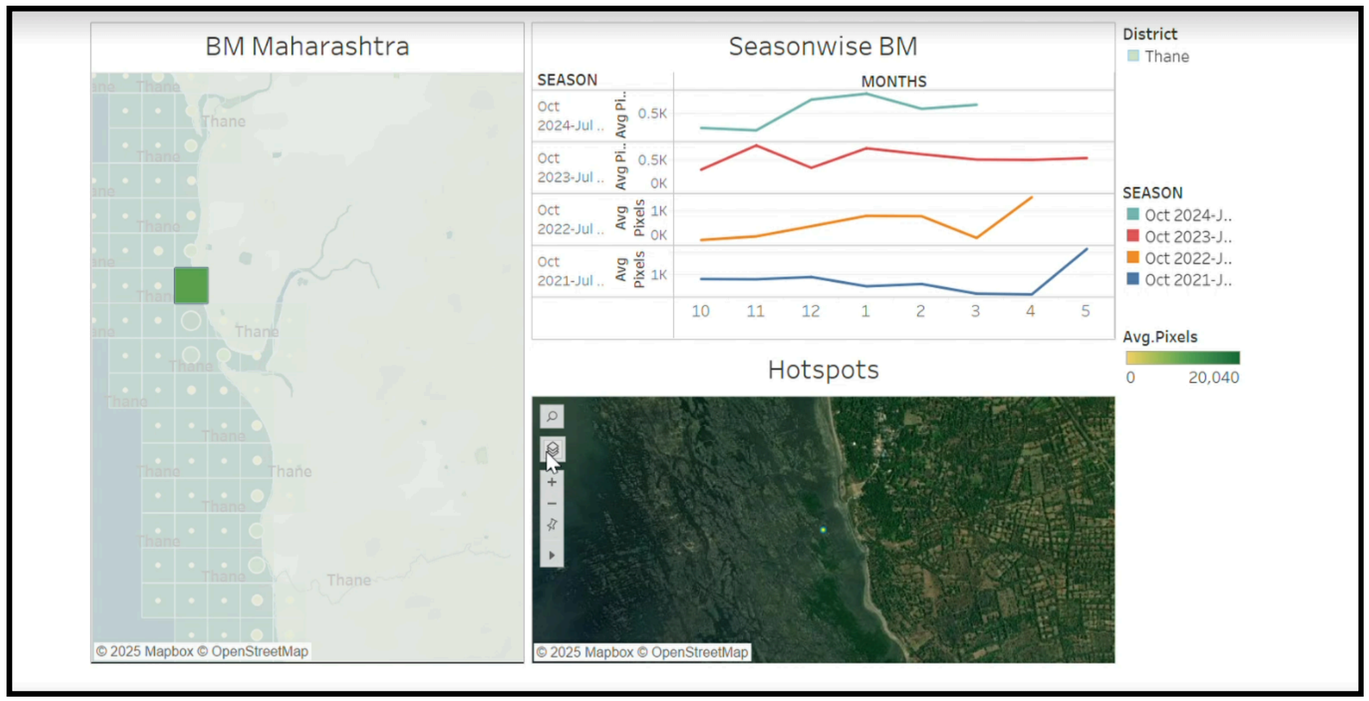
Challenges:

- Visibility of Seaweed (Sargassum) is different for other parts
- of the world.
- Unavailability of the direct source

Solution:

- Red edge anomoly
- Spectral Signatures of the different features,
- geomorphology
- other ancillary information





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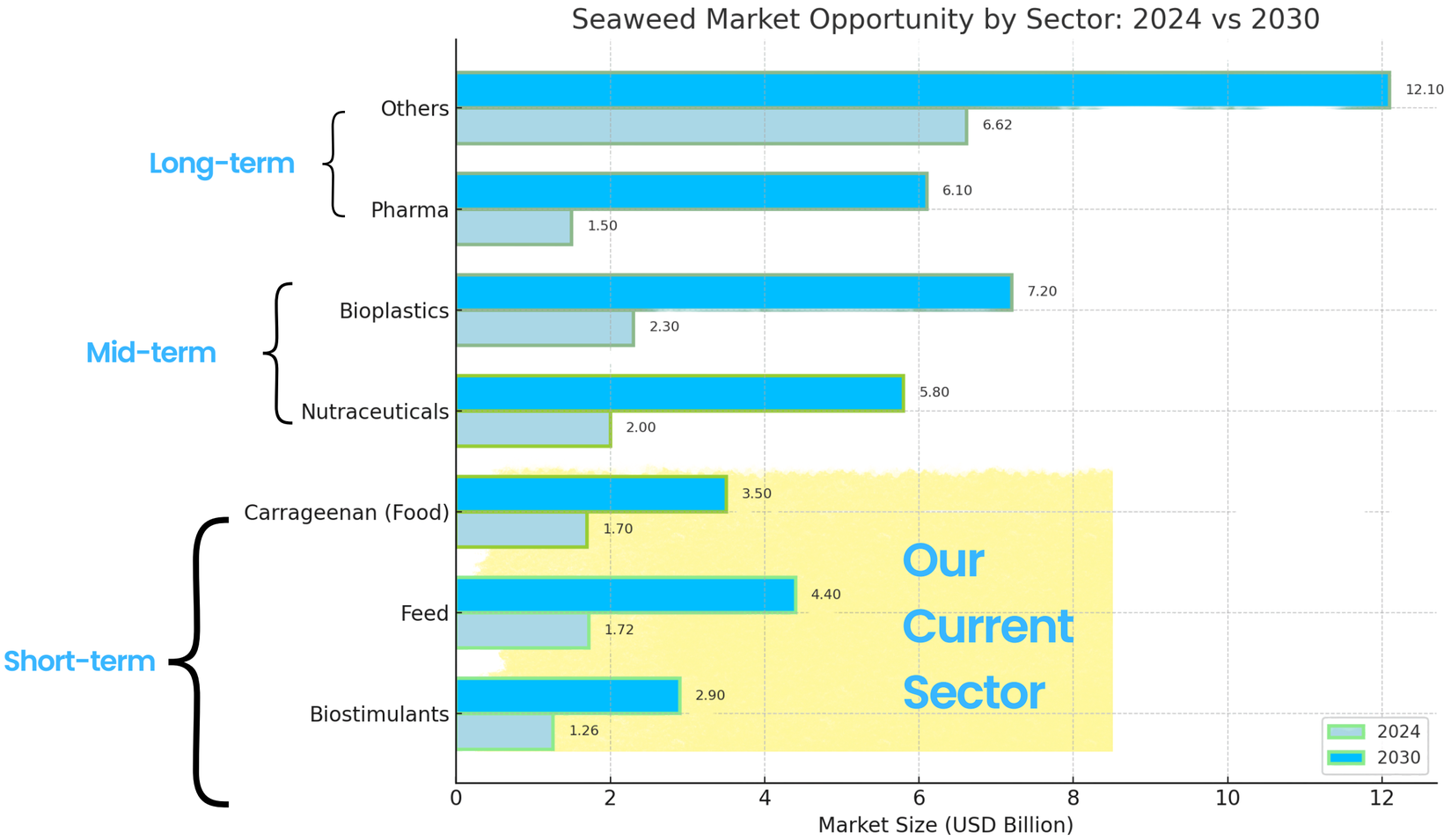
Seaweed Market TAM now and by 2030

$45B – $69B+



- Seaweed Cultivation: $22.5B today, $60B by 2034
- Short-term sectors provide for quick revenue (Biostimulants, Feed, Carrageenan(Food)).
- Mid-term sectors are high growth avenues (Nutraceuticals, Bioplastics)
- Long-term sectors are emerging as disruptors (Pharma, Others)
- Total 2030 potential for cultivation and end-use application across all: ~$70 billion

Our Products

From Sea to Soil, Biostimulants, Feed, Food & Bioplastic – Unlocking Seaweed's Full Potential

Diversified product suite targeting high-demand, sustainable input markets

Kappaphycus Sap series

Carrageenan series

Sargassum Sap series

Seaweed Granules series

ClimaFeed series

- ClimaZyme (K+ & S+): FCO-compliant biostimulants, validated across 13+ crops
- ClimaFeed: Seaweed-based supplements for cattle, poultry & aquaculture
- ClimaColloid: High-grade carrageenan for food applications
- ClimaColloid: High-grade carrageenan for Bioplastics
- Pipeline: Ulva protein, pharma, and other functional ingredients

Benefits to farmers: increased crop and soil health

Higher absorption of nutrients at all vital stages of growth, over 25% reduction in fertilizer use, increase in yield and shelf life

Recovery of Mango sapling from summer stress after Climazyme K+ application at Kelkar Mango Farm, Ratanagiri

Seaweeds improve both crop and soil health due to their diverse composition of plant growth promoters, amino acids, inherent nutrient and natural source of potash

Soil Observations

- Increased soil microbial activity
- Water retention capacity
- Increased nutritional uptake

Crop Observations

- Increase in plant immunity
- Reduce flower/ fruit drops
- Increased shelf life
- Increased crop quality traits

20+ Crops Trials conducted

Chillii, Tomato, Little Millet, Finger Millet, Brinjal, Mango, Cashew, Tea, Apples and others

Tomato

Mango

Chilli

Millets

University trials are on at Agri Universities at Rahuri and Dapoli, results of which can be shared on request

Thank You

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