



The Missing Middle

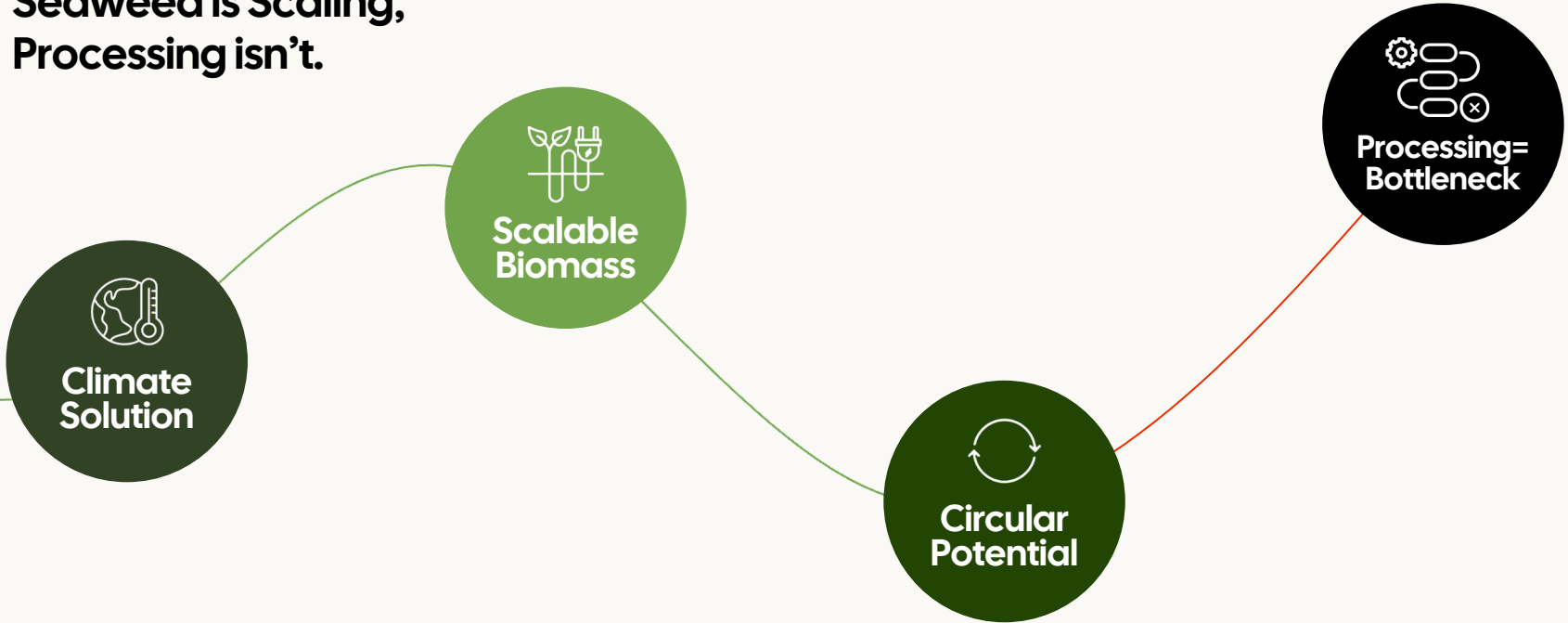
Why Processing will decide the future of seaweed.

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Seaweed is Scaling, Processing isn't.



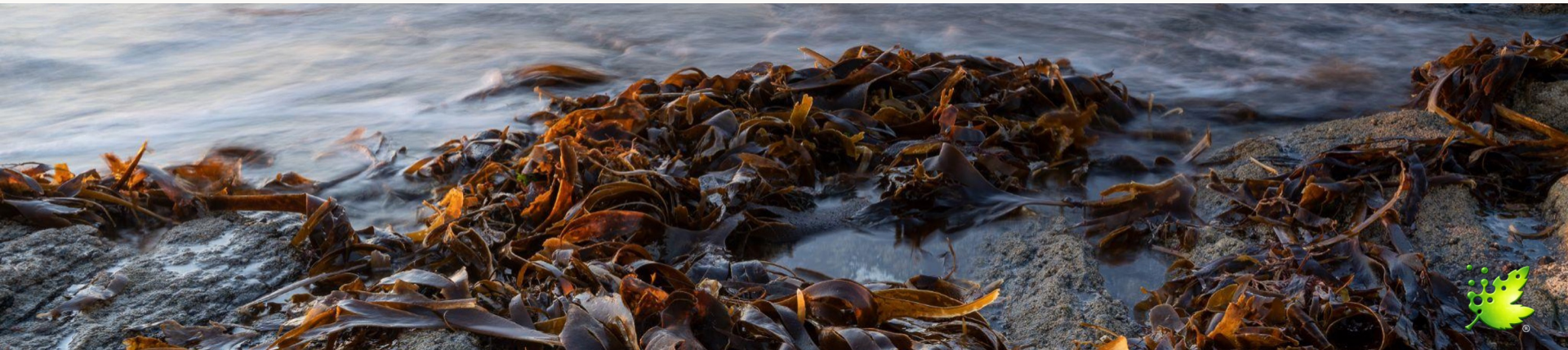
Farming → Processing → Markets



The Industry's Blind Spot

You grow more → but capture less
Waste is not a farming issue - it's a processing issue
Economics are also a processing issue

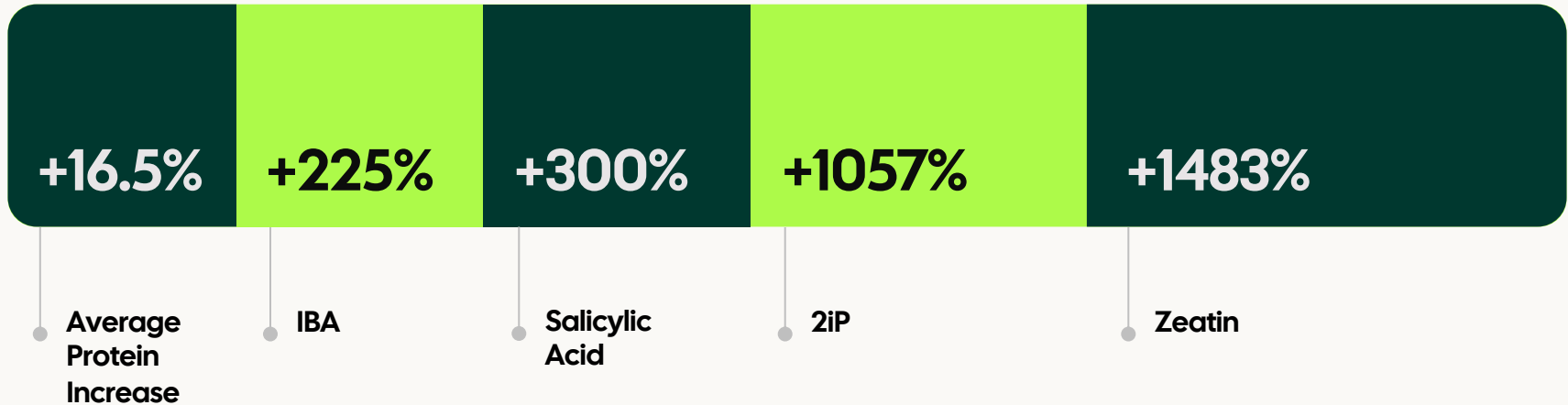
All of this is
solvable



What Happens When You Change the Processing:

Ecklonia Maxima Case Study

(All verified through independent labs, incl.
Stellenbosch University & SGS - see GCT® dossier page)



Zero waste processing | Fronds-only harvesting → faster regeneration



Ulva Case Study

Before:

Ulva farmed material and dried by
conventional methods and lab measured

0.85mg / 100g
Beta Carotene



Leading aquaculture research institution-directed trial to determine if the beta carotene content in Ulva could be elevated to a point that less augmentation needed to be added, therefore less cost for abalone and sea urchin aquaculture.

After DCD® and Disruptor®:

Ulva from same batch disrupted
and then dried commercially
measured

4.78mg / 100g Beta Carotene,
giving a **462%** improvement
in Beta Carotene content



Disruptor® Processing Unlocks the Real Wins

Three key benefits:



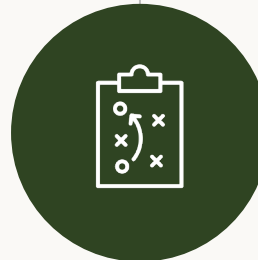
Environmental

- Full biomass utilisation
- Lower volumes needed for same outputs
- Supports regenerative harvesting models



Commercial

- Greater yields - more outputs from same harvest - cheaper goods
- Food, feed, bio-stimulants, biomaterials, wellness
- Easier processing = less waste = higher margins



Strategic

Future-proofs seaweed against:

- Market pressure
- Input cost volatility



The Technology:

Disruptor[®] + DCD[®]



**Same Biomass.
Completely Different Outcome.**



Non-thermal



Non-chemical

Increased Yield



99+%
cell structures
opened

Simplified
continuous process



(Not batch)

Scalable



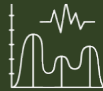
200kg to
6000kg/hr



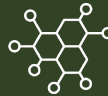


The Technology: Disruptor® + DCD®

What it means for seaweed:



Whole-spectrum
utilisation



High value
molecule
extraction



Microbiologically
clean



Ready for multiple
downstream
markets



Partnership Models

How we work with you:

Three engagement paths:



Processing trials

- Farmed or wild seaweed
- Wet or dry seaweed
- Proof-of-value - economics



Commercial processing partnerships

- GCT® processes small batch material when available
- You access higher-value outputs



Technology deployment

- Disruptor® units at scale
- Regional processing hubs in discussion





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If seaweed is the
crop of the future...
why are we still
processing it like it's
the past?”





Thank You!

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