



### What if in the next 10 years it was possible to:

Slow the Impending Climate Crisis  
 Make more New Protein Available in the Food Chain  
 Reinvigorate the Economics for Dairy and Beef Farmers  
 Help Improve the Viability of the World's Oceans and  
 Improve the Lives of Indigenous People.....

All with one approach

**We believe it is not only possible, but achievable**



**CH4 Global Overview** CH4 Global Inc. (CH4), a US C Corp, is seeking to impact global climate change in a significant and disruptive way. The Company is enabling a global, multi-billion dollar red seaweed (*Asparagopsis armata* and *Asparagopsis taxiformis*) aquaculture and processing business. These specific species of seaweed, when freeze dried and fed to cows (dairy and beef) as a daily supplement can produce up to a 90% reduction in methane emissions resulting in significant impact on global climate change. To date, there is no commercial scale supply of this supplement. Our initial market focus is New Zealand (NZ) and Australia (AU) in 2021/22, where we grow the species, followed by an organized roll-out to other areas around the World.

**The Climate Change Crisis** In the current state of unprecedented Global warming, we believe that humanity only has a narrow window of perhaps 10 years (or less) in which to make a positive impact before irreversible damage happens to Planet Earth. A recent Nature publication highlights there is less than a 5% chance of keeping the planet at or below a 2°C rise by 2100 even if Paris commitments are met. Further, the annual UN Emissions Gap Report highlights that even if all Paris goals are met there is still an annual gap of 13 Gt CO<sub>2</sub>-e by 2030 to keep the planet at or below 2°C warming by 2100.

To add to the issue facing the planet is that most (all?) of the decarbonization platforms being developed today (wind, solar, carbon capture and storage, stop coal etc) will not have sufficient magnitude of impact on GHG levels by 2030 as they can't be scaled to meet meaningful GHG emissions reductions in the next 9 years and close the 13 Gt Gt gap that exists – they all have major impacts 20-50 years from now.

It turns out that mitigation of ruminant methane is a potential approach that could close the 2030 gap. The math is simple. There are 1.5 billion cows on the planet that produce, on average 100 kg methane annually. That's 150 million tonnes of methane on an annual basis. The impact of methane over the next 20 year period, as defined by the IPCC is 86x more impactful than CO<sub>2</sub> and so 150 million tonnes x 86 equals 12.9 Gt CO<sub>2</sub>-e annually. This specific opportunity is larger than any other feasible single intervention that could be achieved on climate change and can be realized in the next 9 year time-frame with coordination, commitment and scale. Dramatic and significant methane mitigation from ruminant animals over the next 9



years will allow the world to have a few extra decades for longer-term CO<sub>2</sub> mitigation solutions to gain traction and have impact - and keep the world a viable place for generations to come.

**Asparagopsis** CH4 is developing a scalable solution to bring an *Asparagopsis* seaweed product to market, initially in AU and NZ. We plan to be one of the first to market in 2021 with a reliable, consistent high-quality product demonstrating commercial feasibility. We are also refining and optimizing the cultivation, harvesting and processing to reduce costs and increase operational efficiency in preparation for market scaling in 2022 and beyond.

**Market Size** The Total Addressable Market (TAM) for *Asparagopsis* for the 1.5 billion cows on the planet exceeds USD \$1 Trillion. Our initial focus is on the 8.1 million dairy cows and the 1.1 million beef feedlot collectively in NZ and AU to validate commercial feasibility. These 9.2 million cows represent a total market size of \$6.7 billion and do not include the 3.5 million beef cattle in NZ or the 22 million sheep in NZ.

**Our Technical and Commercial Differentiation** This is a huge industry in its infancy and will grow rapidly once there is demonstration of commercial viability – our focus for 2021. We see three major levels of competitive advantage for CH4 Global in this emerging industry:

- **Product Approval and Sales** First, CH4 now has regulatory approval to sell product as a feed supplement in AU and NZ; other looking at extractions or to otherwise changing the plant will likely be regulated as a drug. Second, we are developing commercial off-take partners in AU and NZ for our pilot production. Third, and most important, we are now the first company in the world to have a license from Future Feed (ours is initially for AU and NZ that coverts to global after 3 years) that will be required for any company wishing to make claims on methane reduction.
- **Asparagopsis aquaculture and processing** We have developed key know-how around each of the areas of seaweed aquaculture and processing. While others are filing IP around life-cycle management - we don't believe this is a long-term viable strategy for protection as much of the key knowledge has been/will be published creating significant prior art. We have also developed know-how around *Asparagopsis* processing to optimize bromoform preservation in the product through managing the end-to-end steps and processing. Further, we are exploring collaborations with major corporations using key IP they have developed for each stage of aquaculture and processing.
- **Product Development:** We are currently preparing key patents claims around product development (to address product stability, discrete product dosing, formulations for sustained release and a number of other developments). These are designed to be broad and will provide reliable and consistent product delivery to animals in the field under real-world conditions as well as key competitive advantage and be a huge differentiator. Have 70+ years leadership experience at P&G, we are effectively emulating much of the P&G business model to take known raw material ingredients and use product development approaches to turn these into premium performing products developing significant IP.

As a result of these core competitive advantages, and the ability to develop operations efficiently and effectively, CH4 is moving quickly to establish scaled cultivation and processing operations in both AU and NZ. We believe we have distinct competitive advantages over other geographies and *Asparagopsis* growers/suppliers. The strategies to maintain these competitive advantages are multi-faceted – technical, path to market, commercial and partnerships.



**Asparagopsis Benefits Beyond Climate Change** CH4's core mission is to Impact Climate Change With Urgency. As a result of the unique way we achieve reductions in methane emissions (and thus impact climate change), we also enable other key benefits for the planet and the people living on it:

- **Farmer Impact:** Dairy and beef farmers will make money by using the product through: (1) carbon credits (which we buy from them); (2) improvements in feed efficiencies; (3) reductions in need for supplements and; (4) increases in the value of the milk and beef from a low carbon cow.
- **Ocean Impact:** Large areas of aquaculture for *Asparagopsis* will remediate waste nutrients like nitrogen and phosphorus from agriculture runoff and also remove the environmental waste from existing finfish aquaculture industries. *Asparagopsis* will also help to reverse the growing levels of excess CO<sub>2</sub> and reduce ocean acidification thus reinvigorate local marine life.
- **Indigenous Impact:** Create business opportunities and partnerships through indigenous groups. This will create significant economic development and social impact in line with the broader Indigenous mandate to care for country for all time, for all to benefit.
- **Increased Protein in the Food Chain:** We enable significantly more protein to be available in the food chain through three key approaches: (1) growing *Asparagopsis* produces a complete protein product used as supplement for ruminant farmers = more protein available in the food chain; (2) improving the rate of feed conversion using the supplement improving protein levels in beef and milk at lower costs and; (3) enabling greater yields from aquaculture fisheries where *Asparagopsis* can also be used as a bio-filter – more sustainably-produced fish in more areas translates to more protein.

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### Forward Looking Statements

Except for statements of historical fact, information contained herein constitutes “forward-looking statements” and includes, but is not limited to, the (i) projected financial performance of the Company; (ii) completion of, and the use of proceeds from, the sale of any shares being offered; (iii) the expected development of the Company’s business, projects and joint ventures; (iv) execution of the Company’s vision and growth strategy; (v) sources and availability of third-party financing for the Company’s projects; (vi) completion of the Company’s projects that are currently underway, in development or otherwise under consideration; (vii) expansion of the Company’s current customer, supplier and other material agreements; and (viii) future liquidity, working capital, and capital requirements. Forward-looking statements are based on what Company management believes are its reasonable assumptions and are being provided to allow potential investors the opportunity to understand management’s beliefs and opinions in respect of the future so that they may use such beliefs and opinions as one factor in evaluating an investment or other transaction.

Forward-looking statements necessarily involve known and unknown risks and uncertainties, so there can be no assurance that forward-looking statements will prove to be accurate, and these statements are not guarantees of future performance. The Company undertakes no obligation to update forward-looking statements if circumstances or management’s estimates or opinions should change except as required by applicable laws.