

Creating a Sustainable Economy on the Oregon Coast



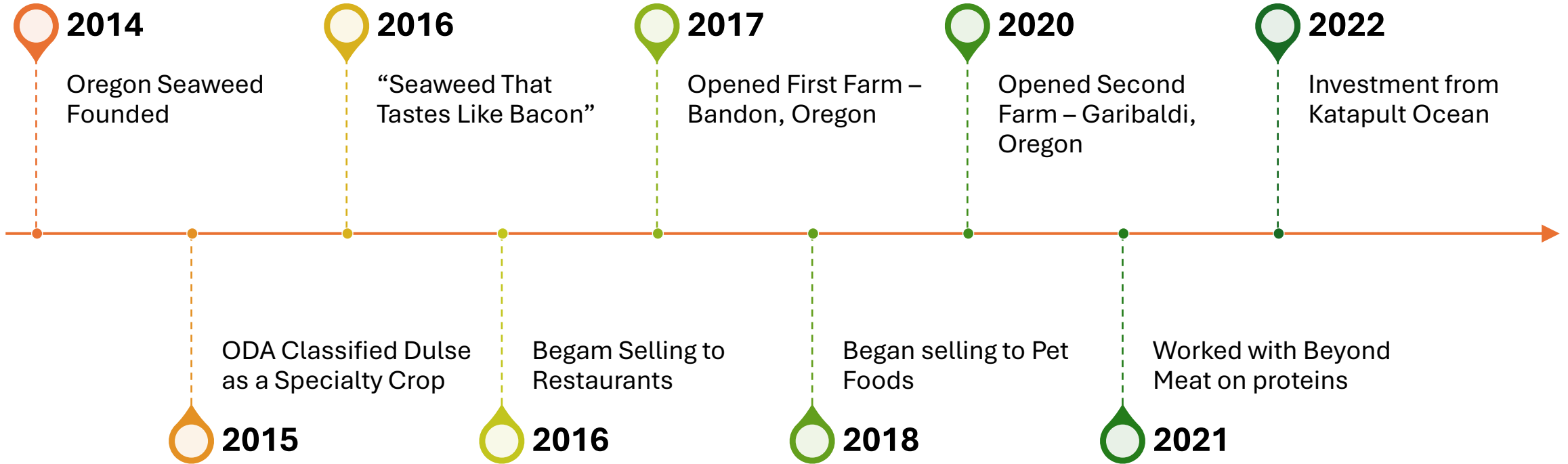
Aquaculture In Oregon



- **1970's & 80's**
 - Weyerhaeuser and other timber/landowners tried to diversify into salmon aquaculture
 - Developed an aquaculture infrastructure on the Oregon coast
 - Oregon State University partnered with industry
- **1990's**
 - Oregon State isolated several strains of local intertidal seaweeds
 - **Clonal Propagation**
 - **High in Protein**
 - **High Productivity (200 grams/square meters/day)**
 - Abalone feed
- **2014**
 - Oregon Seaweed was founded
 - Seaweed that tastes like bacon



Timeline





**Oregon
Seaweed**

Controlled Environment Seaweed Aquaculture **CESA**

***Reinventing Commercial Agriculture
Revitalizing The Oregon Coast & Beyond***

Our Vision

Present

- *Core Markets – Existing Farms*
- Restaurant
- Pet Food
- Ingredient

High Margin
Low Volume



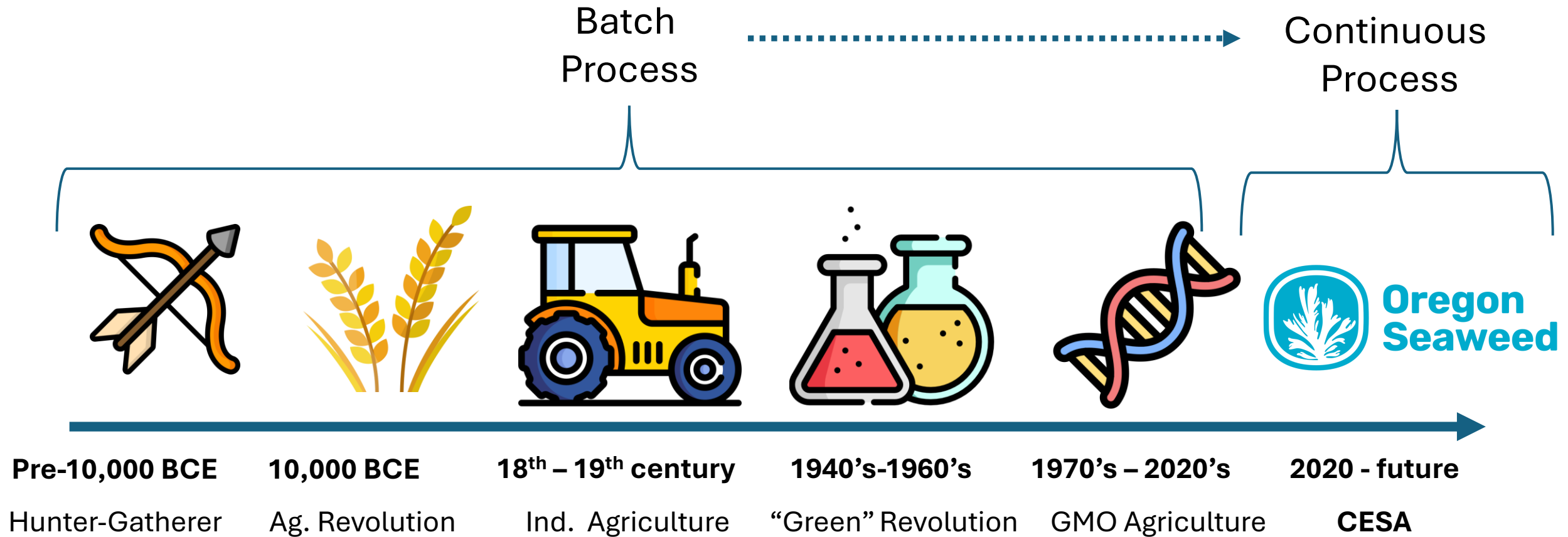
Future

- *New Markets – New Farms*
- Cattle Feed
- Proteins
- Natural Dyes

Low Margin
High Volume

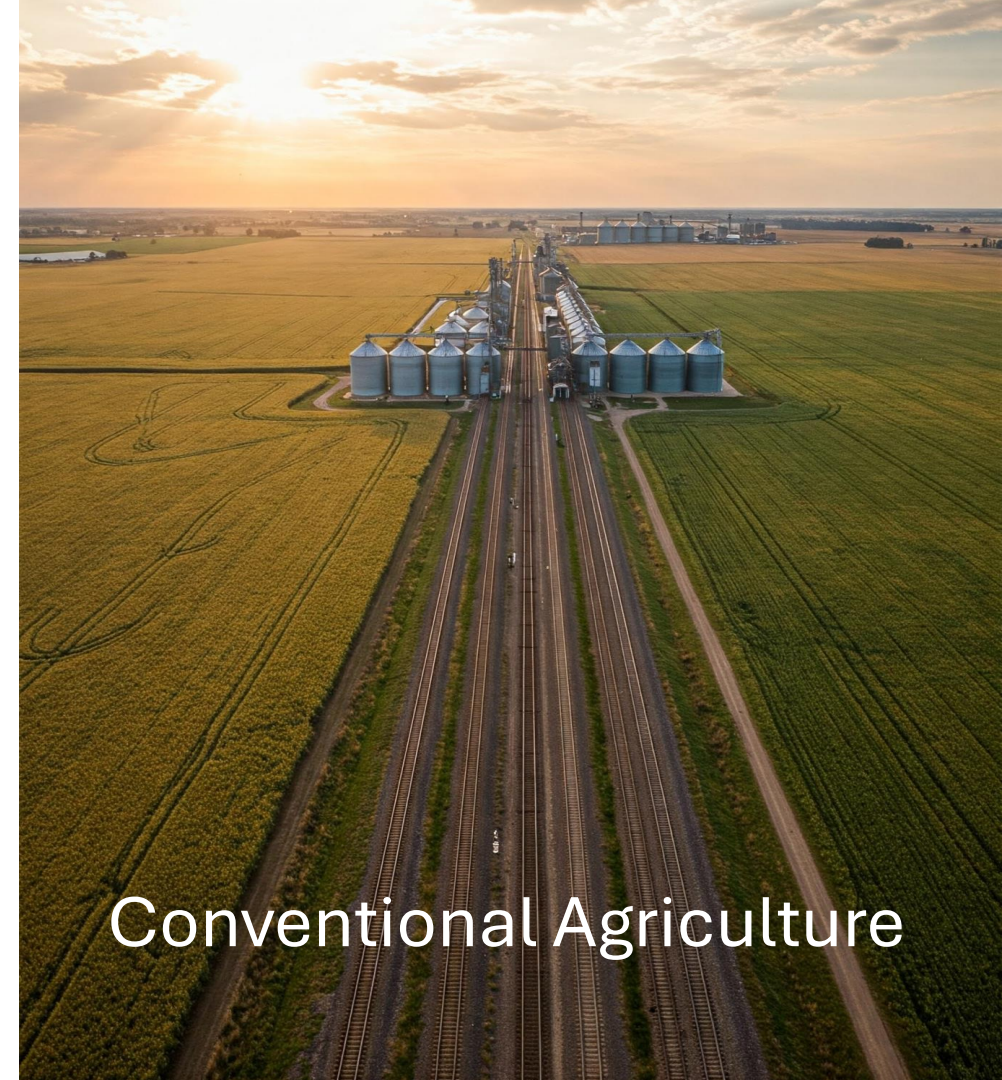


History of Agriculture



Batch System of Production

- Sunk cost Infrastructure (\$5 trillion)
- High Inventory (\$240 billion)
- Perpetual subsidies (\$2 trillion)
- Decaying soils
- Plummeting fresh water supply
- GMO monopoly seeds
- Synthetic fertilizers/pesticides
- Concentrated supply chain/regulatory capture



Conventional Agriculture

Textile Manufacturing



Paper Manufacturing



Agriculture

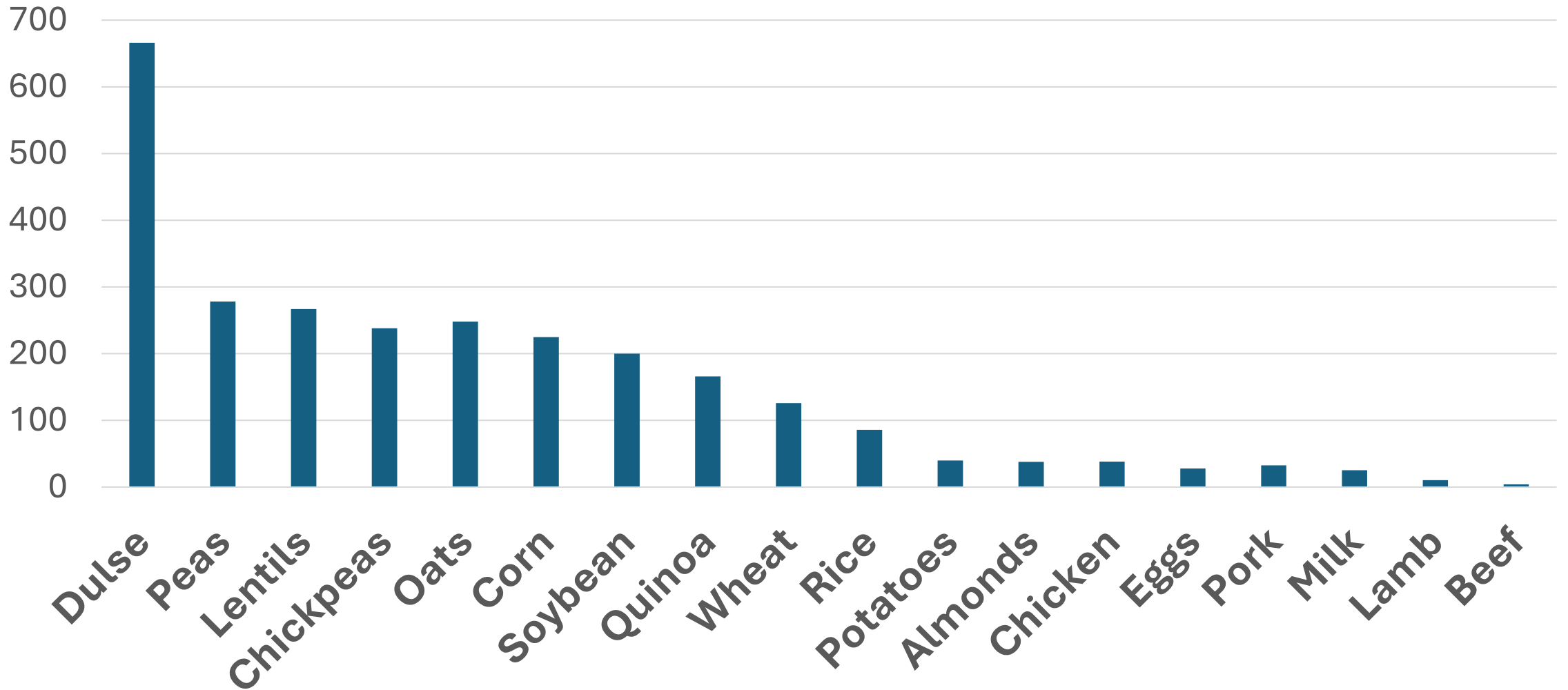


Continuous Process

- Continuous production
- No subsidies needed
- No soil needed
- No seeds needed
- No fresh water needed
- No fertilizer needed
- No pesticides needed
- Save 155 billion protein miles per year



Grams of Digestible Protein per kg of C02 Emitted



Oregon's Energy & Land – Better Investment

- Oregon is becoming a hub for energy intensive data centers
 - Energy
 - Water
- What if we used this same energy to produce a sustainable protein? \$7 billion industry
 - Energy
 - Water



Process Data or Grow Protein?

Oregon Can Have Both



\$200 billion market will open to Oregon

Our Proteins Compete With Soy

- Produce Dulse Protein @ \$2.50 kg
- Hyperscale Energy Price
- No Freshwater
- No Seeds
- No Synthetic Fertilizers
- No Pesticides



Oregon
Can
Assume
Sustainable
Leadership

Data Centers

Sustainable
Agriculture

Economic Development

Revitalize Oregon Coast

Oregon's Green
Workforce Goals

Easy to Scale

Oregon Food Production

Improves the
climate

Next
generation
agriculture

Oregon Call to Action

Recognize

- Recognize dulse farming as a strategic energy use

Prioritize

- Prioritize abandoned coastal properties

Tend

- Tend energy policy frameworks (e.g., low rates, green PPAs to food innovation)

Fund

- Fund pilot-scale projects to demonstrate the full potential (\$5 million)