



राष्ट्रीय सहकारी विकास निगम
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Department of Fisheries
Ministry of Fisheries, Animal Husbandry & Dairying
Government of India



INTERNATIONAL WEBINAR ON ENTREPRENEURSHIP DEVELOPMENT IN SEAWEED BUSINESS BY COOPERATIVES

Presentation on

SEAWEED SCENARIO in INDIA



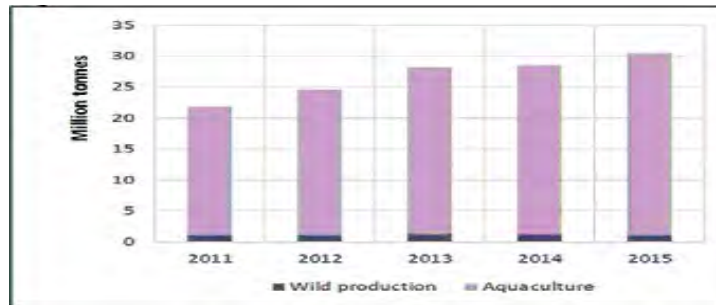
by

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Global Scenario in Seaweed Business

- More than 1000 species of seaweeds are available through world.
- Production has grown from 14.70 million tons in 2005 to 30.40 million tons in 2015.



- The global Seaweed industry is worth more than US\$ 6 billion/annum.
- Rising in commercial market demand of seaweed extract is mainly driven by it's application as dietary supplements, food and beverage, pharmaceutical , medical & healthcare related other industries.
- Key players are Producers, FMCG companies, Research Organizations, medicinal and cosmetics manufacturers, fertilizers, etc.

Ref. :FAO Reports (2016,2018,2019)

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Global Scenario

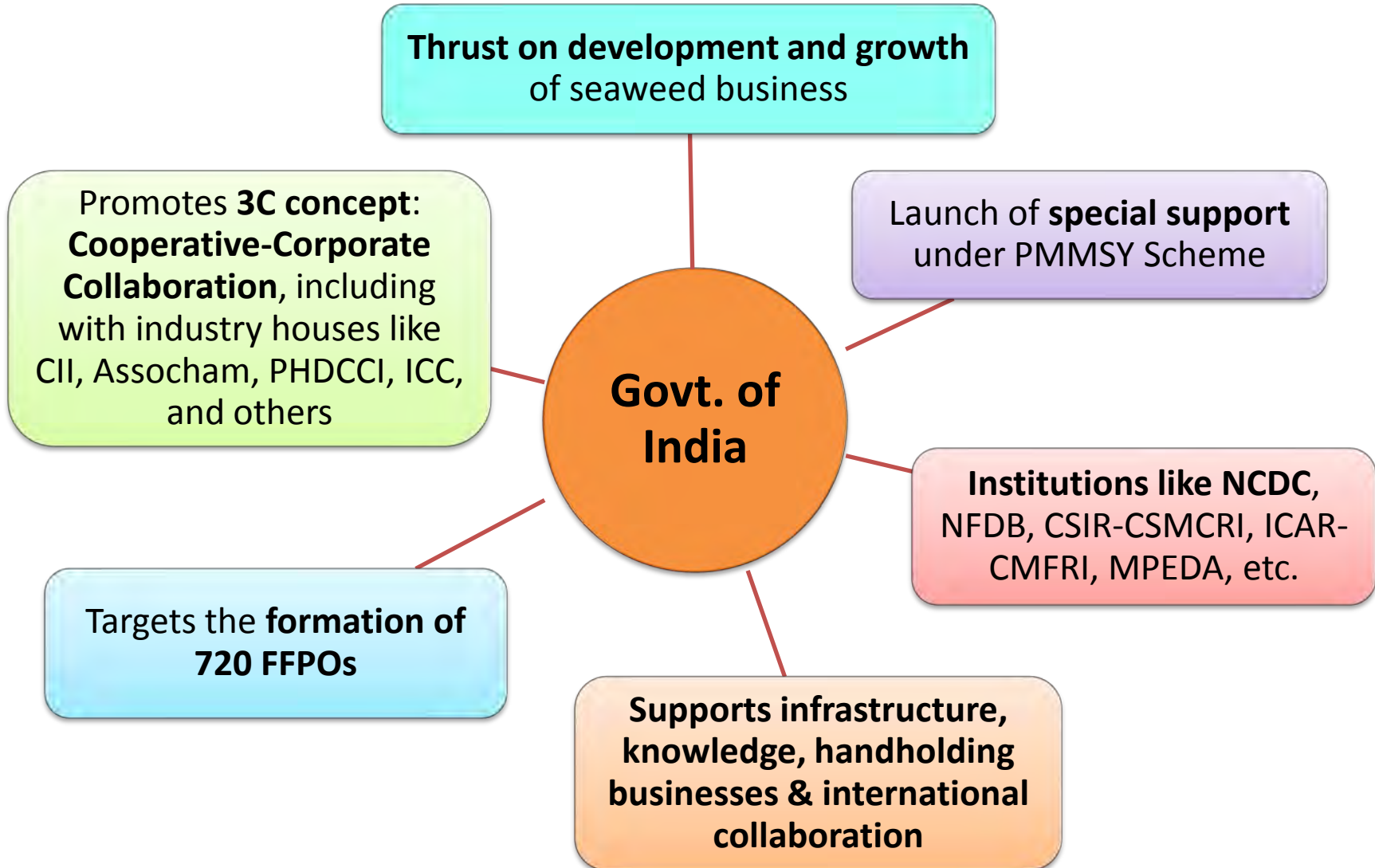
- Due to growing consumer awareness on the benefits of seaweed extracts is not only used supplements to nutrient food (as staple diet), flavour enhancers, beauty enhancement, diabetes control and fertilizers etc. but also for their weight loss property the consumption of seaweed has increased by 125% in the UK alone.
- Global seaweed-extracts market is growing maximum in Europe.
 - More than 80% Seaweed production comes from China and Indonesia.
 - Leading Exporters - Indonesia, Chile, Republic of Korea and Philippines.
 - Leading Importers - Japan and the USA.

Seaweed Production & Areas in India

- About 200 species are being commercially cultivated along coasts of Tamil Nadu, Gujarat and around Lakshadweep and Andaman & Nicobar islands.
- In 2020, seaweed production was approx. 25,000 tonnes.
- Main varieties: *G. acerosa*, *G. edulis*, *G. dura*, *G. debilis*, *Ulva Spp*, etc.
- Enhancing the incomes of fisherfolk with large employment generation potential.



Govt as Catalyst for Seaweed Business



Seaweed sector as part of Blue Revolution Initiative by GoI (2020)

Pradhan Mantri Matsya Sampada Yojna (PMMSY)- Rs.20,500 cr.

- Rs 640.00 crore Investment by Government in seaweed sector
- 8 lakh Employment Direct and Indirect in seaweed sector
- Socio-economic Empowerment of Coastal Fishers, especially fisherwomen
- Supports infrastructure and activities to mitigate business Risks

Financial support by Govt. by way of:

Central Sector Component (100% Subsidy) –

- i. Genetic Improvement Programme and Nucleus Breeding Centre
- ii. Innovative project on Seaweed Business under Central Sector Component

Centrally Sponsored Component (40% Subsidy for General Category and 60% for SC/ST/Women) –

- i. Establishment of Seaweed culture Rafts, including inputs
- ii. Establishment of Seaweed culture with Monoline/Tubenet method, including inputs
- iii. Establishment of Seed Bank for Seaweeds

Seaweed Business Challenges & Opportunities

Challenges

- Inefficient production
- Business awareness lacking among farmer-producers
- Marketing constraints
- Limited extension services
- Lean period in monsoon due to Coastal turbulence
- Ineffective collaboration with research and industry
- Limited credit & financial support

Being addressed under
Blue Revolution Initiatives

Business Demand

Medicine/Cosmetics

- Antioxidant, anticancer, anti diabetic etc
- Beauty enhancer

Food/Fertilizers

- Growing demand for seaweed vegetables and processed seaweed.
- Animal feed & fertilizers

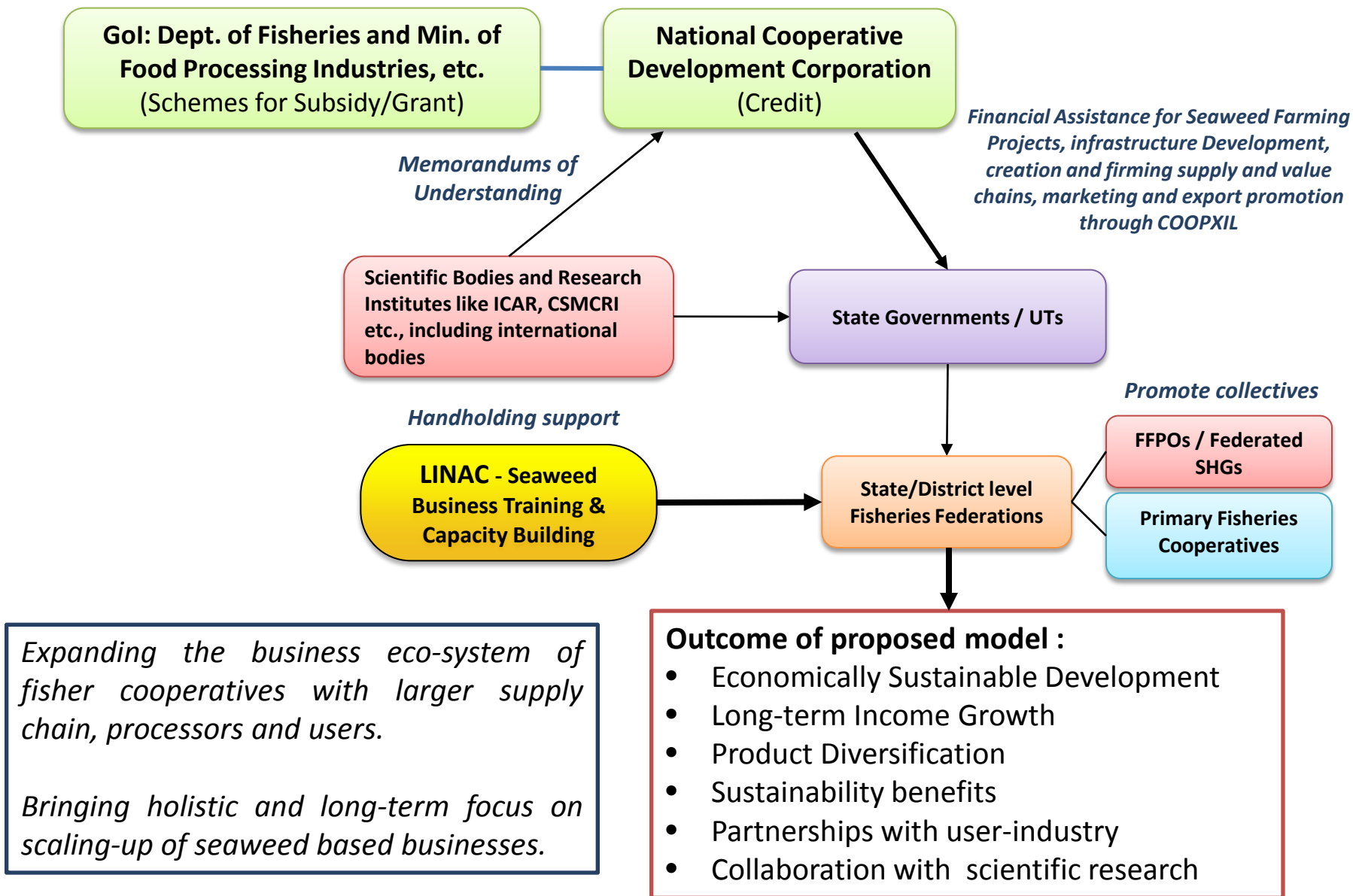
Industrial uses

- Seaweed extract in Industrial applications such as Alginate, Agar, and Carrageenan.
- Textile

Export markets

- Rising export demand to Asia-Pacific markets like China, Japan, Indonesia and Korea

Seaweed Business Entrepreneurship Development Model



THANK YOU



Presented by

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