

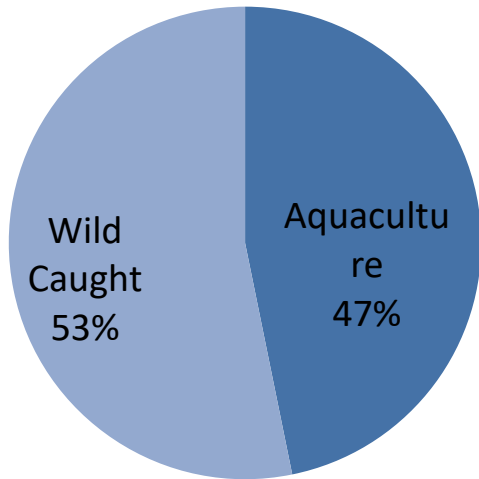
Indonesia's Efforts to Utilize Water Sustainably for Food Security (Aquaculture Perspectives)



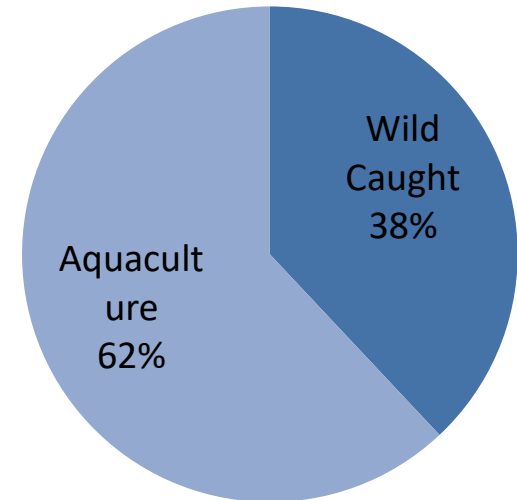
Irham Adhitya and Sandy Putra
(DG of Aquaculture)
East Asian Congress, Ilo Ilo, Philippines
27 November 2018

World Fish Supply Now Vs Future

2016



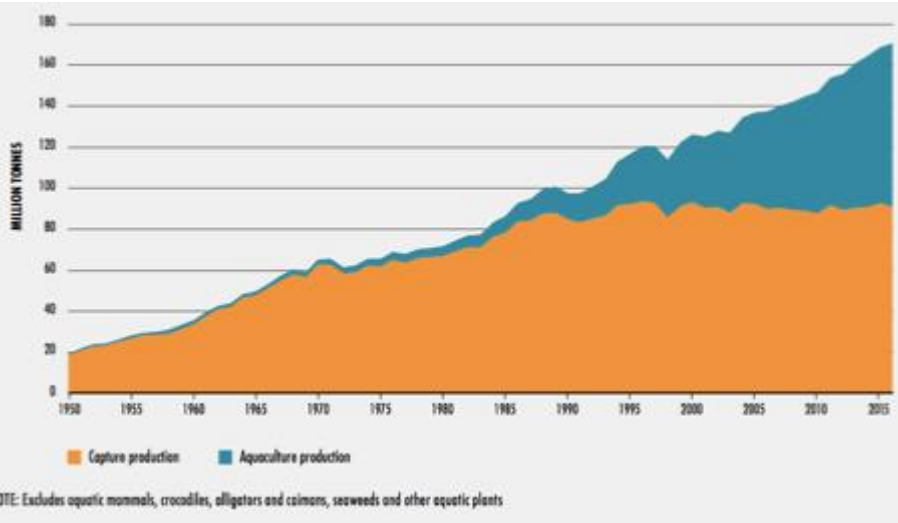
2030



INDONESIA, one of the largest aquaculture producers

Trend of World Production (1950-2015)

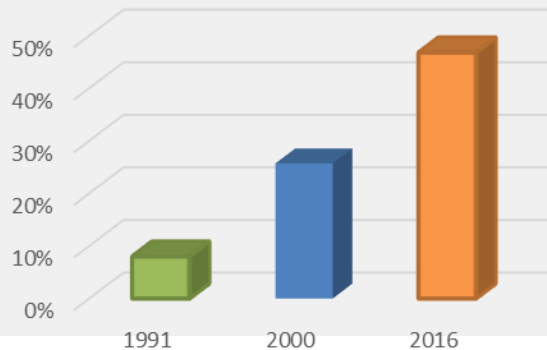
Top 10 in 2016



Source: SOFIA, FAO 2018

Contribution of aquaculture to the world fisheries production:

1991 : 8%
2000 : 25,7%
2016 : 46,8 %

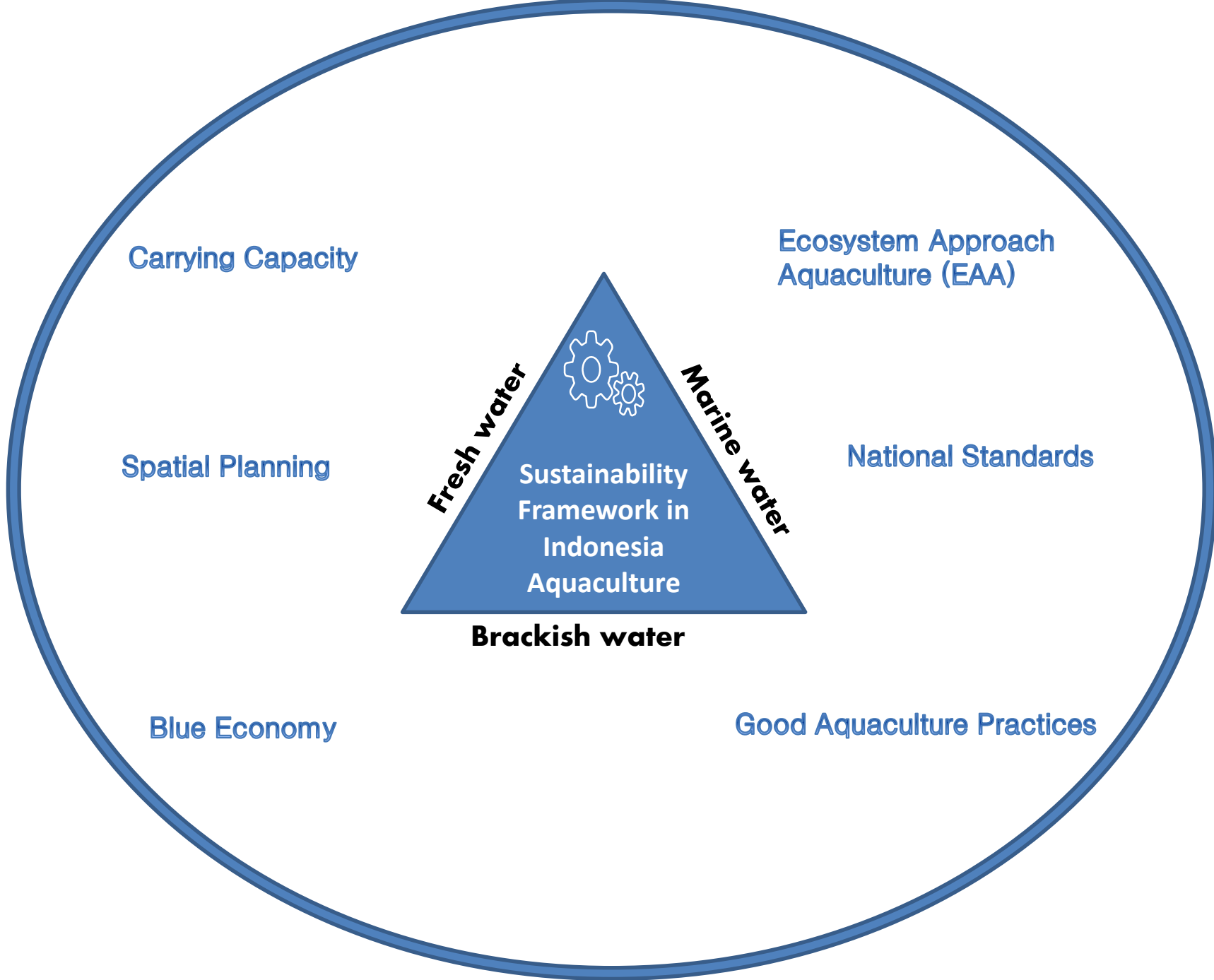


Source: FAO, 2018

No.	Country	Tonnes (Thousand)
1	China	63,631
2	Indonesia	16,581
3	India	5,703
4	Vietnam	3,635
5	Bangladesh	2,204
6	Philippines	1,405
7	Egypt	1,371
8	Republic of Korea	1,351
9	Norway	1,326
10	Chile	1,050

Source: SOFIA FAO 2018

- Capture fisheries show stagnant production while aquaculture develops, as a result, aquaculture is considered as the ideal option to fulfill food needs to the world.



AQUACULTURE CHALLENGES IN INDONESIA



FISH FEED

60-70% of cost production



INCREASING FISH DEMAND

From the national, Regional, and Global level



ENVIRONMENTAL

Decreasing water quality and quantity, Longer period of dry season, Flood



OVER CARRYING CAPACITY

Cage culture in Reservoirs/lakes



FISH GENETIC

Brodstock quality and SPR/SPF seed



FOOD SAFETY AND TRACEABILITY

Demand from buyers countries



CLIMATE CHANGE

Variability and long term impact



CONFLICTS

Between resources users



Government Efforts

1. Eco-Friendly Regulations and Policy:

- Enacting Government regulation number 15 year 2018 Regarding normalization of River Basin in Citarum .
- Single use plastic ban (Bandung District and Bali Province)
- Focus on low impact aquaculture such as Seaweed

2. Efficient Aquaculture Technology such as : RAS systems, Bioflok, IMTA

Expected Conditions

Collaboration

Governance



Cooperation

Best Practice



THANK YOU

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