# NATIONAL PRIORITIES





# Ensuring that Australian fishing and aquaculture products are sustainable and acknowledged to be so

Aim: By 2020, the community has effective access to, and understanding of, RD&E that supports fishing and aquaculture sustainability and improves perceptions of Australian seafood.

**Strategy**: Build understanding of the drivers of social licence to operate and respond to community concerns and needs for information with science-based evidence.

Continue to prioritise investment in RD&E that contributes to the sustainability of fishing and aquaculture, including consideration of target species; bycatch species; threatened, endangered and protected species; and the broader marine environment.

## Priority Identified by:

- Minister's meeting
- AFMF Statement of Intent
- NSIA Priority
- Recfish Australia Priority



# **Deliverables Underway:**

- ➤ An Australian fisheries management and/or technical standard that addresses all fisheries and can be adopted by any management agency in Australia developed with AFMA and AFMF
- > Bycatch performance metrics pilot with case studies in NSW and Tasmania
- Expanded capacity to connect with seafood consumers and markets in Australia and abroad, and use of these channels to understand community perceptions to tell the Australian fishing and aquaculture story across the sectors Seafood with ET focussing on "Under" species
- An increased number of commercial species assessed in the national *Status of Key Australian Fish Stocks Reports* from 78 to 83

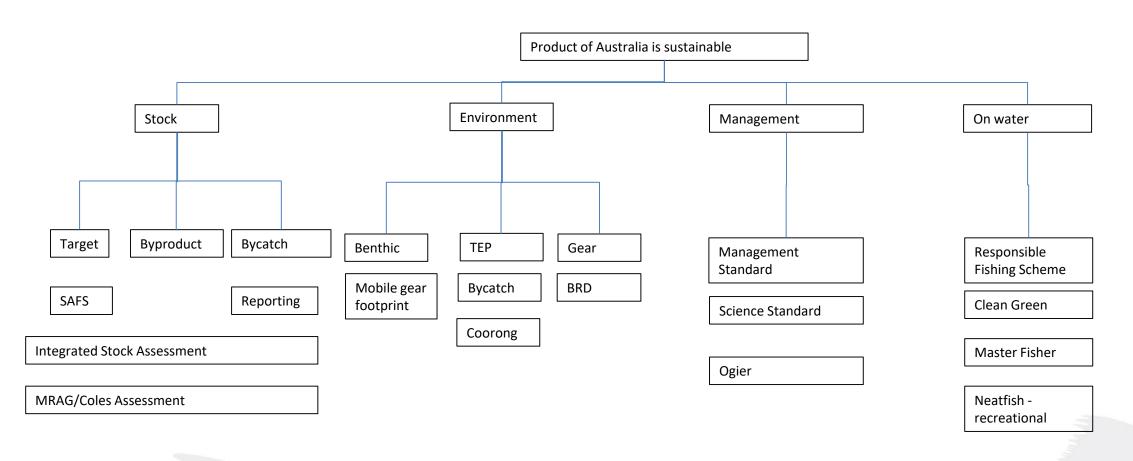




<sup>\*</sup>FAO Guidelines for the Ecolabelling of Fish and Fishery Products from Marine/Inland Capture Fisheries and FAO Technical Guidelines for Aquaculture Certification.



# The Sneeze



Health Check

WA MSC Certification

SAFS has been a useful tool but we need to move on from static pages and business as usual















Others are easier to navigate and are more visually appealing





SUSTAINABLE SEAFOOD

EATING SEAFOOD Q



FIND A FISH:

Atlantic Cod



## ALSO KNOWN AS

Cod · Codling · Scrod cod · Markets · Steakers

Although populations are well below target levels, U.S. wild-caught
Atlantic cod is still a smart seafood choice because it is
sustainably managed under a rebuilding plan that allows limited
harvest by U.S. fishermen.













## POPULATION

Significantly below target population levels. Rebuilding plans are in place.



## FISHING RAT

Reduced to end overfishing.



## HABITAT IMPACTS

Area closures and gear restrictions protect habitat that are affected by some kinds of trawl gear.



## BYCATCH

Regulations and the use of modified fishing gear reduce bycatch.



Year-round.

## SOURCE

Wild-caught from Maine to Virginia.

## TASTE

Atlantic cod has a mild clean flavor. It is sweeter than Pacific cod.

## TEXTURE

Cod has large flakes. It's less firm than haddock.

NUTRITION FACTS ®

DECIDES

FEATURES ▶













<< back to results

Add to basket

# Atlantic cod, Northern stock in Newfoundland and Labrador region, Longlines



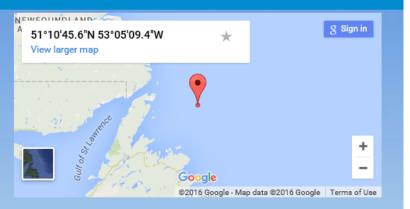
Gadus morhua

Content last updated 3rd Jul 2015

## Stock:

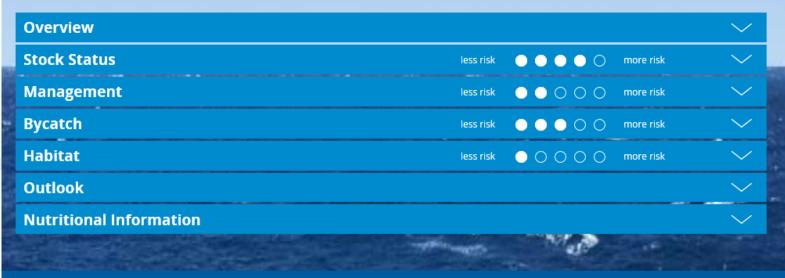
Northern cod in NAFO Divisions 2J3KL (Newfoundland and Labrador region)

Management: NAFO



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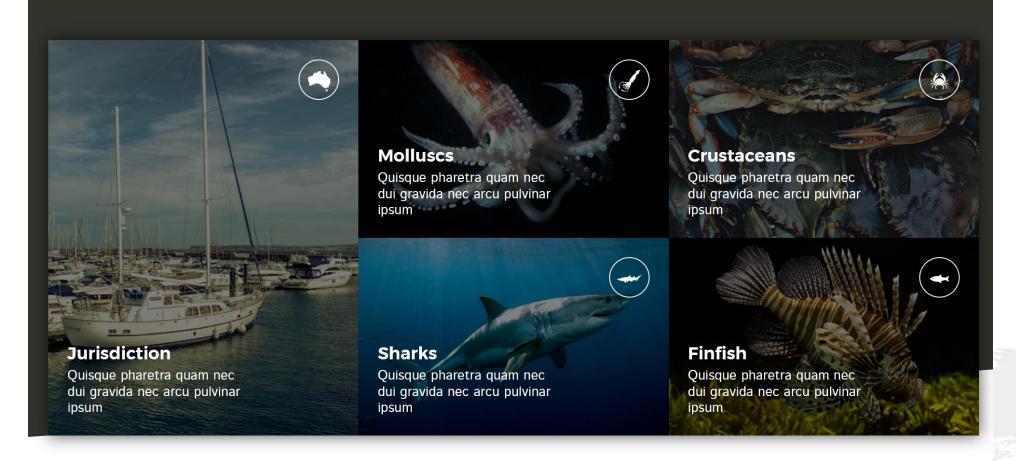








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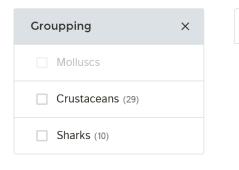
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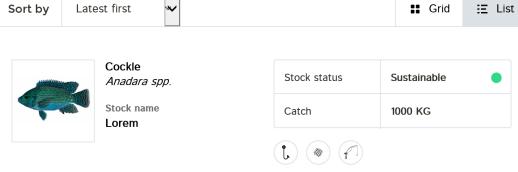


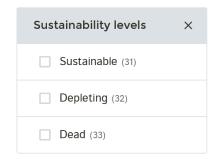


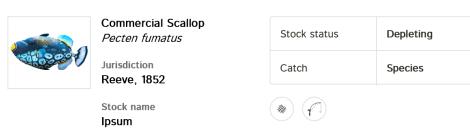
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Green Mussel Perna canalicula Jurisdiction









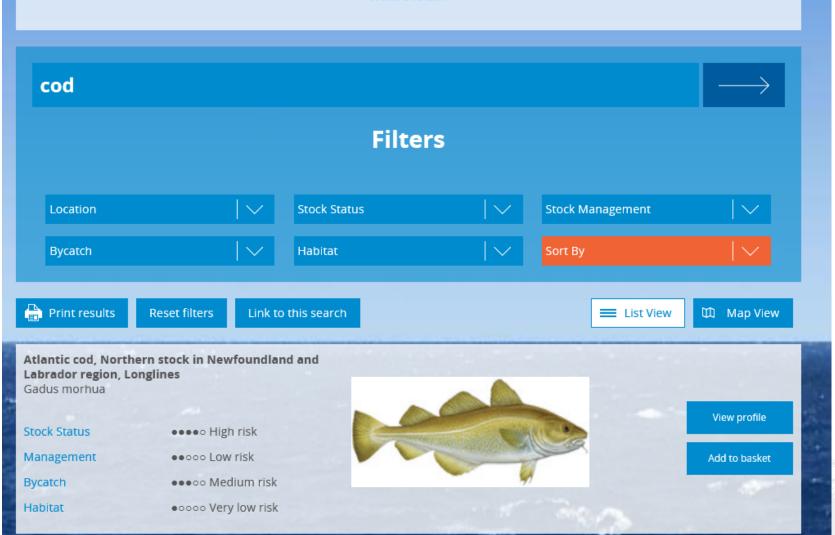






## **Risk Assessment for Sourcing Seafood**

What's RASS?





## Select Fishery

## **Fishery Description**

SESSF - Commonwealth Trawl Sector

The bottom trawl sector covers the area south from Barrenjoey Point (north of Sydney) around the New South Wales, Victorian and Tasmanian coastlines to Cape Jervis in South Australia, and extends to the edge of the Australian fishing zone, although most trawling occurs in depths less than 500 m. A number of fishery closures are used to manage target and bycatch species by protecting spawning habitat or to exclude a type of fishing gear from an area where bycatch issues are known to occur. A harvest strategy is used to help determine what the quota should be for the target species of the fishery. Fishing, environmental and economic information is included in the harvest strategy, which helps to monitor and maintain the sustainability of the targeted species. To learn more about the Healthcheck of the SESSF - Commonwealth Trawl Sector, click on the indicators below.

## Dashboard















**Biological** 





















Governance - Management





Social



## To Do

- Health Check need to review and select elements for inclusion with SAFS
- Status of Australian Aquaculture Species working with UK seafish on template
- Develop cost effective methodologies to define the undefined assessment techniques
- Methods for determining equivalence to ease the process and avoid duplication
- Data standards/guidelines and portal development
- Improved on water performance Responsible Fishing Schemes
- Test current and developing processes/standards against GSSI
- Community education



## Improving productivity and profitability of fishing and aquaculture

**Aim**: By 2020, deliver RD&E for fishing and aquaculture to increase productivity and profitability consistent with economic, social and environmental sustainability

**Strategy**: Invest in RD&E to understand the drivers of, and impediments to productivity and profitability growth in all fishing and aquaculture sectors; research means of increasing sustainable production and profitability; link these to business education; encompass the needs of Indigenous communities.



## **Deliverables:**

- 1. Efficiency improvements along the entire supply chain to improve market access, through strategic market intelligence and knowledge that will ultimately influence profitability.
- 2. More sustainable and profitable use of underutilised and undervalued species and utilising waste streams
- 3. New product development processing and packaging to maximise quality to meeting customer needs.
- 4. New technology solutions to improve productivity and profitability, where these can be feasibly implemented.
- 5. Habitat rehabilitation to improve productivity and profitability for the fishing and aquaculture sector.
- 6. Social values quantified for Indigenous, Recreational and Commercial fisheries (coupled with economics because economics is a social science)
- 7. The gross value of production of Australia's fishing and aquaculture resources is increased.

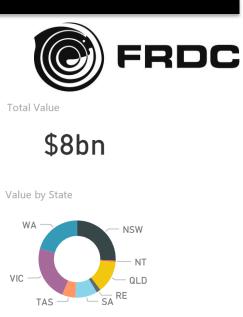
## To Do



- Investment to improve productivity
  - To do this, need to understand current productivity i.e. asset utilisation etc.
- Improved fishery output/utilisation What could catches look like (new species or maximising current catch including "unders") and utilising waste streams.
- New product development processing and packaging to maximise quality to meet customer needs.
- Improved fishing and aquaculture efficiency gear, supply chain, management (reducing input costs)
- Consumer education
- Understanding habitat repair and what it means to productivity
- Social and economic values quantified for Indigenous, Recreational and Commercial sectors

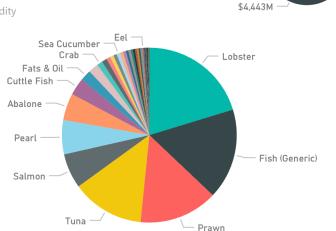
## **Trade Data**

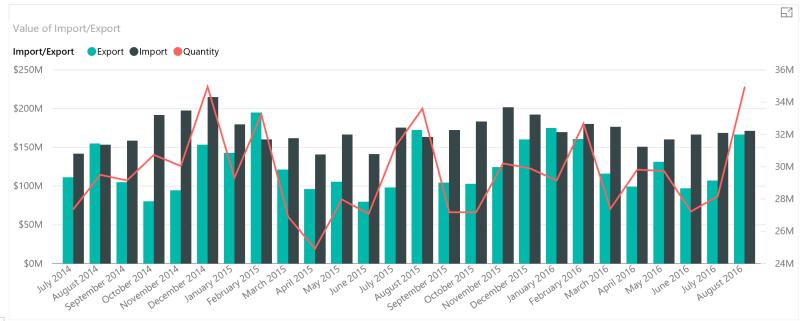
Chilo

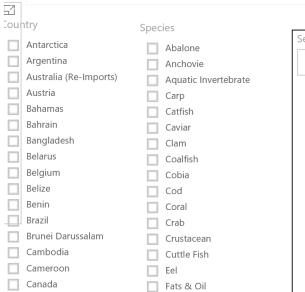


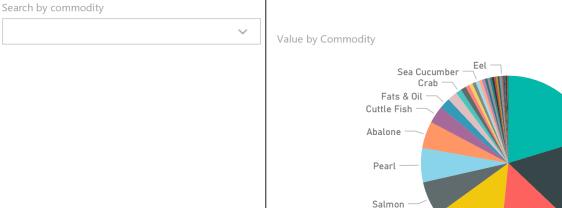
\$3,25...











## RIRDC - Transformative technologies for agriculture

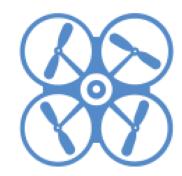








IoT has been adopted in many industries including manufacturing, retail and agriculture.



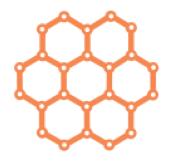
Apart from robotic dairies, most on-farm agbots are still prototypes.



Sensors are common in some agricultural industries but novel applications are in development.



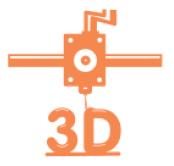
Gene editing is being introduced into R&D for Australian agriculture.



Agricultural nanomaterials are mostly at a development stage in Australia.



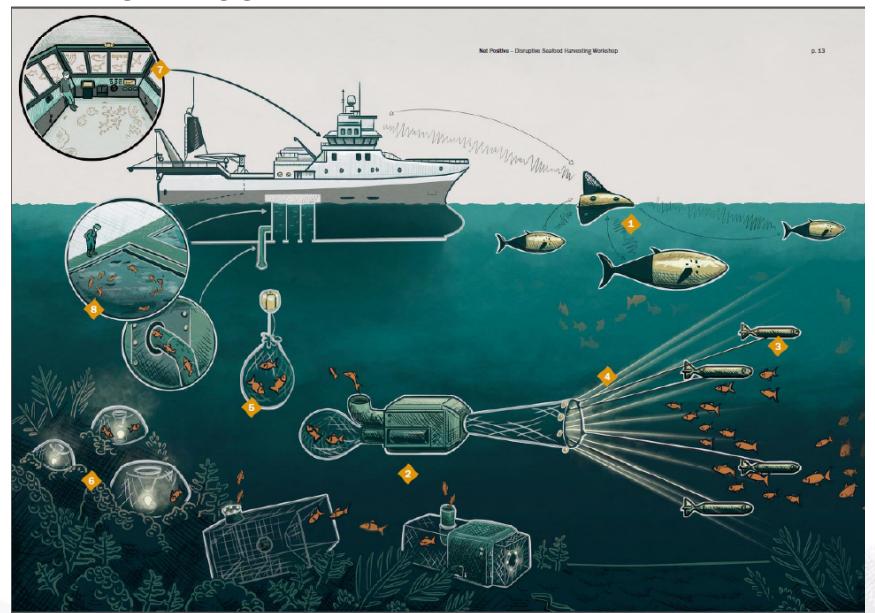
Synthetic biology is at the R&D stage in Australian agriculture.



3D printing is an emerging technology in Australian agriculture.

# **Gear front – Disruptive technologies**

Taking fishing gear to a new level





- Internet of the sea finding fish fast
- 2. Improved selectivity
- 3. Autonomous catching devices
- 4. Virtual nets
- 5. Live fish capture and sorting
- Fish attraction and trap from active to passive
- 7. Interactive control room
- Improved processing at sea live fish



## Developing new and emerging aquaculture growth opportunities

**Aim**: By 2020, deliver RD&E sufficient for the significant commercialisation of at least two emerging aquaculture growth opportunities with demonstrated potential for profitable business operations.

**Strategy**: Identify research constraints to industry growth – such as lack of potential markets, cost of production, survival, deformities and uniformity of growth – and invest in RD&E to determine successful and competitive commercial activity.

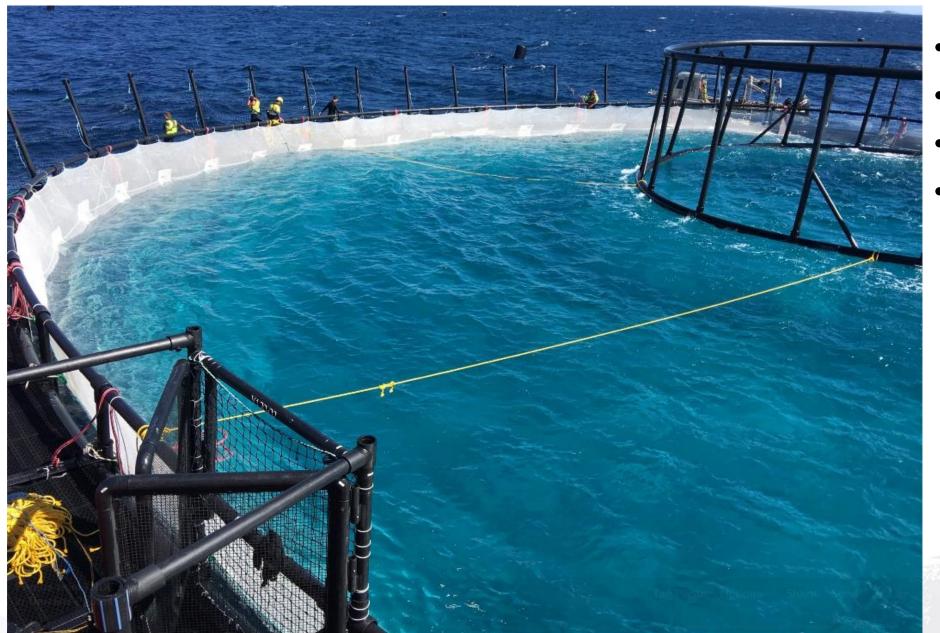


## **Deliverables:**

- 1. A nationally coordinated strategy for the growth of new aquaculture subsectors
- 2. RD&E to address barrier to aquaculture development including improved:
  - a. Hatchery production technologies
  - b. Breeds
  - c. Feeds and feeding systems
  - d. Husbandry
  - e. Health systems
  - f. Market access and/or value add

# Yellowtail Kingfish Program (includes \$6 Million project R&D 4 Profit)





- 3 States
- Inc Production
- Inc efficiency
- Reduce Cost

# **New and Emerging Aquaculture Opportunities Subprogram**



- Expand aquaculture into Northern Australia with objectives on nutrition, health and production systems
- Consider logistic and infrastructure needs for northern Australia
- Scoping new R&D for Profit program on Cobia, Tropical Grouper, Barramundi and Tropical Rock Oysters
- Undertake an audit to:
  - Collate existing RD&E on aquaculture in Australia
  - Understand limitations of opportunities of species already studied
  - undertake case studies to assess potential opportunities
  - Focus the future work of the Subprogram