

# Future of Seafood Industry in Newfoundland & Labrador

It's Not all Doom & Gloom

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# Outline for Today

- Seafood Sector Profile & Trends
- •Global Trends Affecting NL Seafood Sector
- •Role of MI in Advancing Seafood Value Chain
- Northern Peninsula Situation
- Outlook

# SEAFOOD SECTOR PROFILE & TRENDS

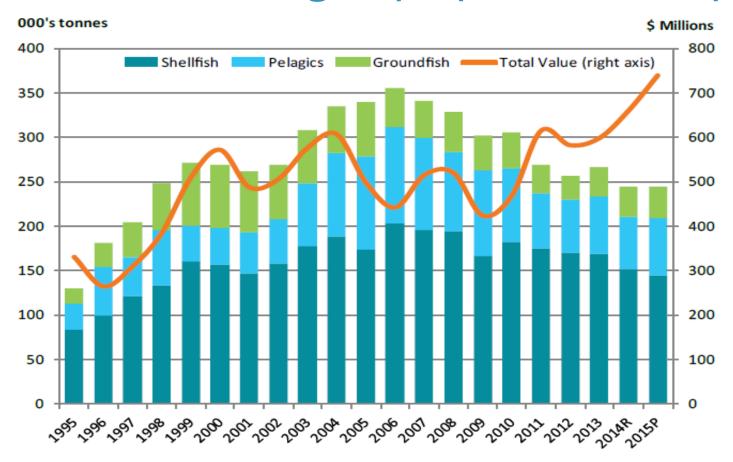
# Industry Snapshot

	1989	2014R	2015P
Value of Production (\$ millions)	650	953	1,266
Volume of Landings (tonnes)	506,000	244,787	240,785
Value of Landings (\$ millions)	242	661	738
Harvesters (# registered)	16,000	9,453	9,334
Licensed Plants (primary)	214	73	74
Plant Workers (processing)	21,000	7,881	7,721

R = Revised, P = Preliminary

Source: Professional Fish Harvesters Certification Board; DFO; DFA

# NL Fish Landings by Species Group

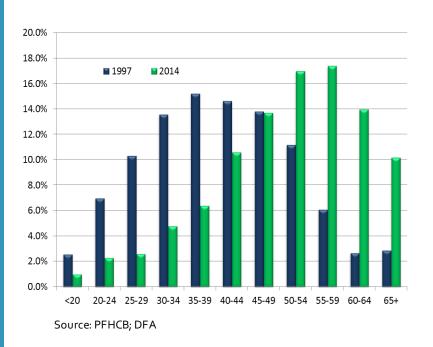


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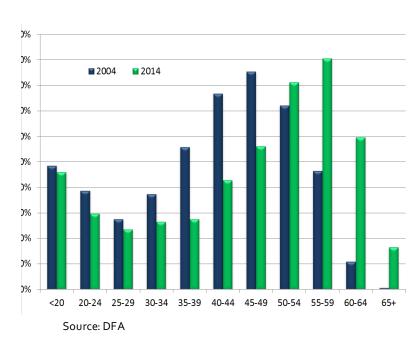
Shellfish represents approximately 82% of industry landed value

# Age Profile of Industry

#### **Fish Harvesters**

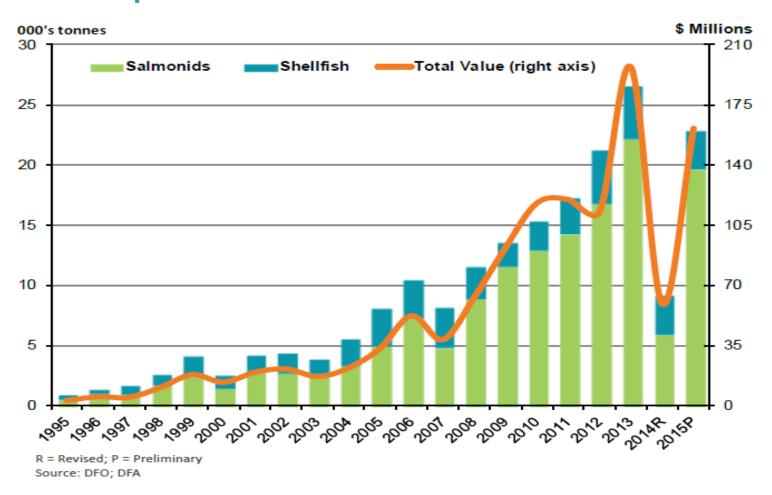


#### **Processing Workers**



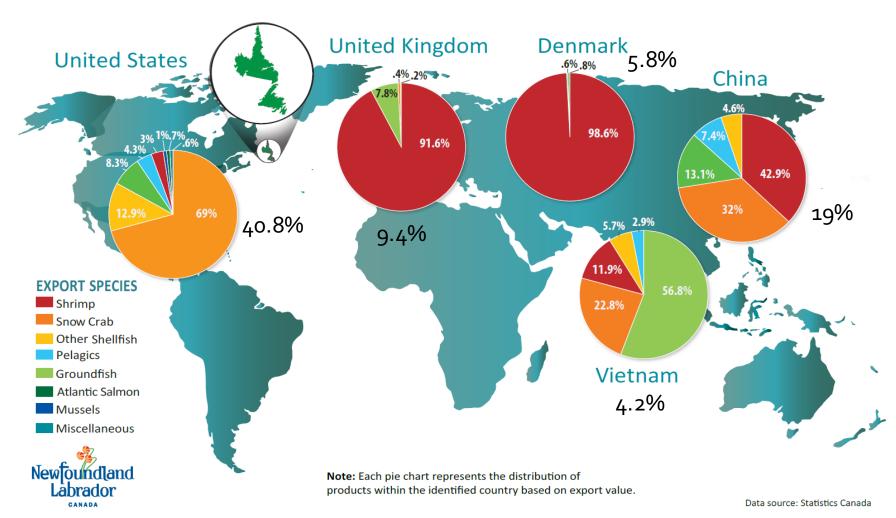
Labour Market Outlook 2025 - Projected labour supply of fishing masters/fisherman is expected to lag projected job openings. Significant labour supply responses will be required to meet demand

## NL Aquaculture Production



Total aquaculture employment of approximately **439** workers in 2015

#### Top Five World Market Destinations for NL Seafood Products 2015



Export value exceeding **\$1** billion in 2015 with products sold in more than 40 countries

### 2015 Record Year for NL Seafood

- Record Prices for Northern Shrimp
- Near record prices for Snow Crab
- Rebound in aquaculture production
  - Salmonid production increases over 2014
    - Aided by weak CAN\$
- Production value for 2015 well over \$ 1.2 billion
  - Significant revenue generation in rural NL in particular

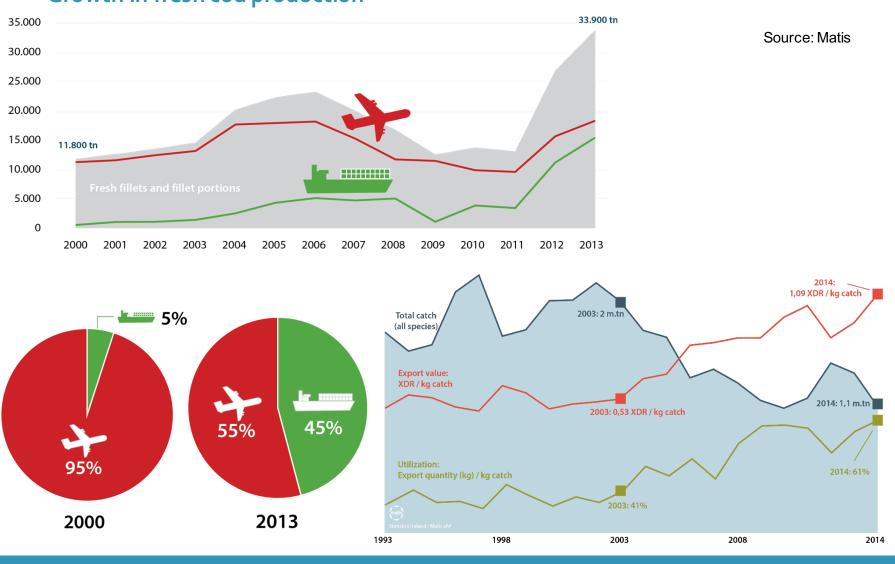
Interesting to note that in a period where many other sectors are struggling seafood is contributing significantly to the provincial economy

## Industry Competiveness Issues

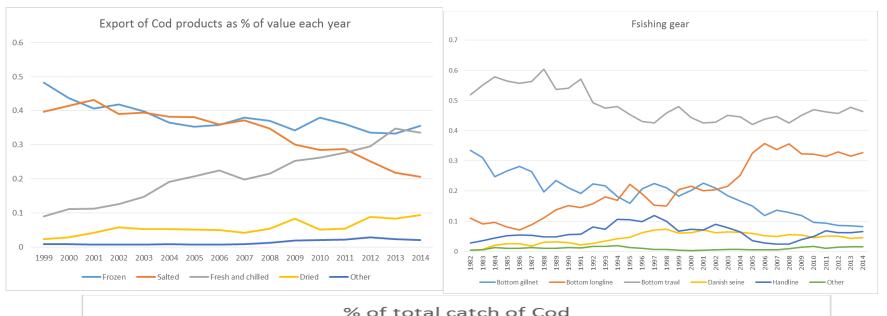


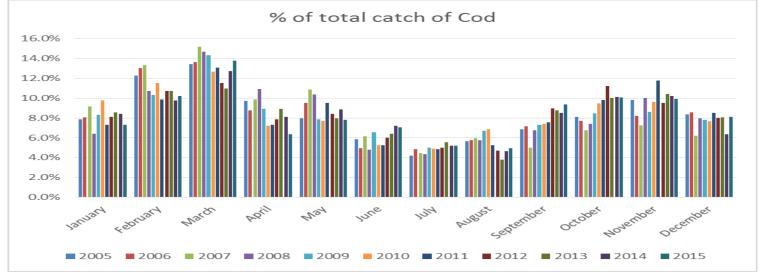
## The Icelandic Cod Story

#### **Growth in fresh cod production**

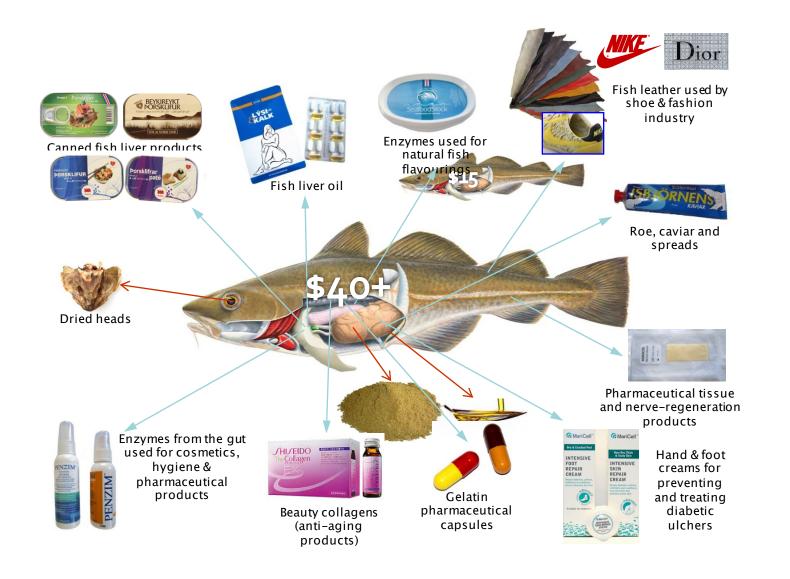


#### **Icelandic Trends**





Source: Dr. Ögmundur Knutson UNAK



# UK Supermarket Visit – September 2015







£17.39 £14.62 per kg Chilled per kg

← Fresh

£13.50 per kg

Frozen -



# London Billingsgate Fish Market – Sept 10, 2015



Icelandic Cod – 12-16 oz

Production date - 08/09/15

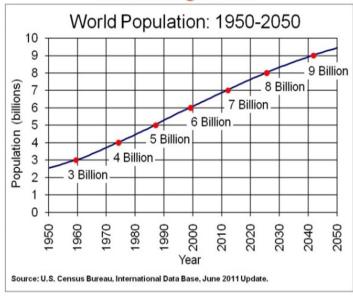
Use By Date - -14/09/15

Strong markets continue to exist for top quality cod that can be supplied on a consistent basis

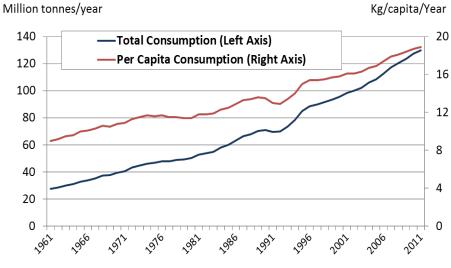
# GLOBAL TRENDS AFFECTING NL SEAFOOD SECTOR

#### World Population Growth Global Seafood Consumption

#### **A Growing Planet**



FAO estimates that 40 million tonnes of aquatic food needed by 2030 just to maintain current per capita consumption

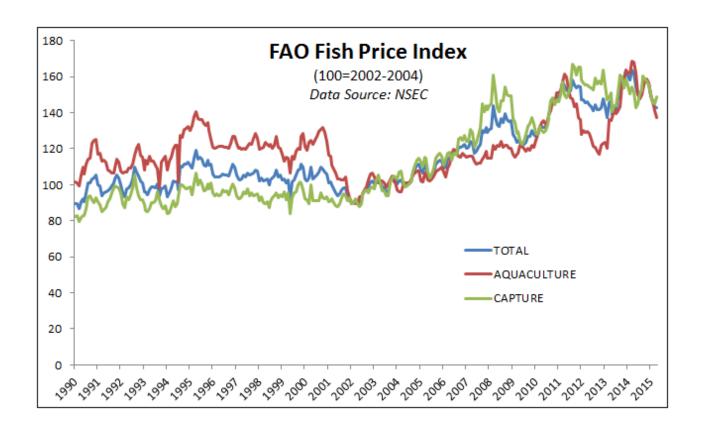


Source: Food and Agriculture Organization of the United Nations (FAO)

Per-capita seafood consumption rose from 9.0 kg/year in 1961 to 19.9 kg/year in 2014

OECD-FAO estimate total consumption to increase to 165 million MT in 2023

#### Growth in Global Seafood Prices



FAO estimates that average price of traded seafood products is expected to grow by 30% by 2022

# Sustainability Certification Schemes





















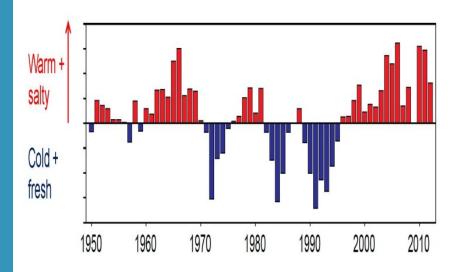






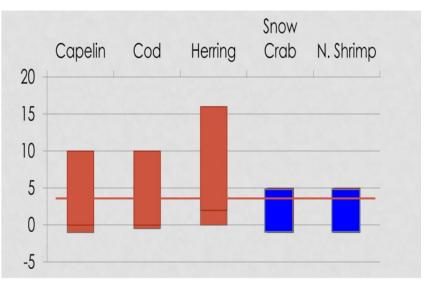
# Potential Ecological Shift

#### WaterTemperature



Source: Colbourne

#### Temperature - Production



Source: G. Rose

## **CETA Agreement**

- Agreement in Principle on October 18, 2013
- Final Agreement Signed October 2016
- Ratification expected in early 2017
- Elimination of Tariffs
  - 99.1 % upon signing
  - Up to \$25 million in gains on signing
  - \$100 million potential through new opportunities
- Removal of end-use restrictions (branding opportunities)
- \$400 million Fisheries Investment Fund?

•EU largest seafood market (32.2 billion in imports in 2015) in the world with a population of 500 million & per capita seafood consumption in the range of 24 kilos. This is a game changer for CAN seafood industry

### Other Global Trends



# ROLE OF MI IN ADVANCING NL SEAFOOD VALUE CHAIN

Fisheries Science Harvesting Handling/ Landing Processing Logistics Marketing

#### MI School of Fisheries

#### **Structure**

- 3 applied research centres
- 1 industrial training centre
- 2 undergraduate programs
- 4 Graduate diplomas
- 2 Post-graduate certificates
- 2 Masters programs
- Supporting research based graduate students

Offers complete seafood value chain approach

#### By the Numbers

- More than 90 employees
- Manage 90-100 applied research projects per year
- Approximately \$8 million research & training project value
- Excess of 1000 participants in industrial training programs annually
- More than 100 diploma/degree students

Most comprehensive academic and research capacity in Canada

Fisheries Science Harvesting Handling/ Landing Processing Logistics Marketing

## Specialized Research Centres

- Centre for Fisheries Ecosystems Research - Largest nongovernment research capacity in Canada that studies fisheries ecosystems
- Centre for Sustainable Aquatic Resources - Global leader in sustainable harvesting technology & houses largest flume tank in the world

- Centre for Aquaculture & Seafood Development -Comprehensive industrial response unit focused on seafood processing, sustainable aquaculture and marine bioprocessing.
- Centre for Community Based Education Delivery (CBED) – Supports the industrial response education and training needs of industry

Fisheries Science

Harvesting

Handling/ Landing

Processing

Logistics

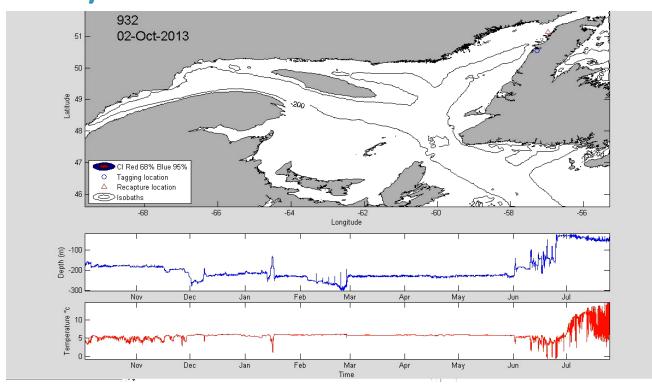
Marketing







## Case Study: Halibut Research



- Results will guide development of new survey for the stock
- The survey will allow setting quotas based on abundance of the resource and increasing value through MSC certification



# NORTHERN PENINSULA SITUATION

## Northern Peninsula Industry Snapshot

- Harvesting 40,000 tonnes of fish landed at 62 ports (2012 data)
  - Diverse fleet sector from small multi-species vessels to larger shrimp fleet
  - Significant offshore sector employment and transshipment of product
  - Hundreds of inshore sector harvesters
- Processing 13 Active fish processing plants processing nearly 11,000 tonnes of end-weight fish and employing 750 workers (2015 data)
  - 4 active shrimp processing facilities

# Northern Peninsula Industry Advantages

- Critical mass in shrimp processing sector
  - Despite resource decline NP operations likely to remain as strategic locations and operations
  - Access to both gulf and northern stocks critical
- World Class Cold Storage operation and trans-shipment facility
  - Eimskip provides direct access to global markets
    - Europe & US in particular (former critical with CETA)
- Strategic proximity to recovering Northern cod resource
  - Above infrastructure critical to maximize opportunity
- Emerging opportunities with other recovering resources
  - i.e. Gulf redfish, Atlantic halibut, etc.

## Northern Peninsula Industry Strategic Considerations

- Regional hub for Northern Shrimp fishery
  - Ensure critical support services are in place i.e infrastructure, servicing, etc.
- Strategic opportunities around groundfish recovery i.e. N. cod, redfish, halibut, etc..
  - Allign value chain to support this;
- Become an innovation hub demonstrating best practices for industry success
  - Quality initiatives, marine bioprocessing, etc.
  - Better utilization of available resources
- Place particular focus on the needs/future of the inshore fleet
  - Requirements for viable operations
  - Assess best practices elsewhere
- Focus on needs of next generation
  - What will attract/keep youth interest in this industry
    - Consider future industry leaders forum

#### Outlook

- Harvesting & Processing sector continued employment decline
  - Those remaining should see improved economic returns
    - Decline in non-renewable sector may drive renewed interest in seafood
- Continued growth in Aquaculture sector particularly on south coast
  - Grieg Aquaculture expansion in Placentia Bay could be game changer
- Continued groundfish recovery (cod in particular)
  - Focusing on quality and value will be critical
- Fisheries regime shifts due to climate change will require adaptive strategies
- Global seafood consumption will continue to expand
  - NL seafood sector can capitalize on this through market based approach
- Continued expansion of innovation and technology adoption
  - Driven by demographics & competitiveness requirements
  - Direct role for government in supporting and enabling this

# FinalThought

- The historical public policy consideration of the fishery in our province was one of a high volume and low value approach that was focused primarily on employment maximization.
- The future public policy consideration will have to be one that is focused on value over volume and places resource sustainability and economic viability for participants as its primary objectives.
- Northern Peninsula can play a significant role in the fishery of the future but it has to be a value based approach