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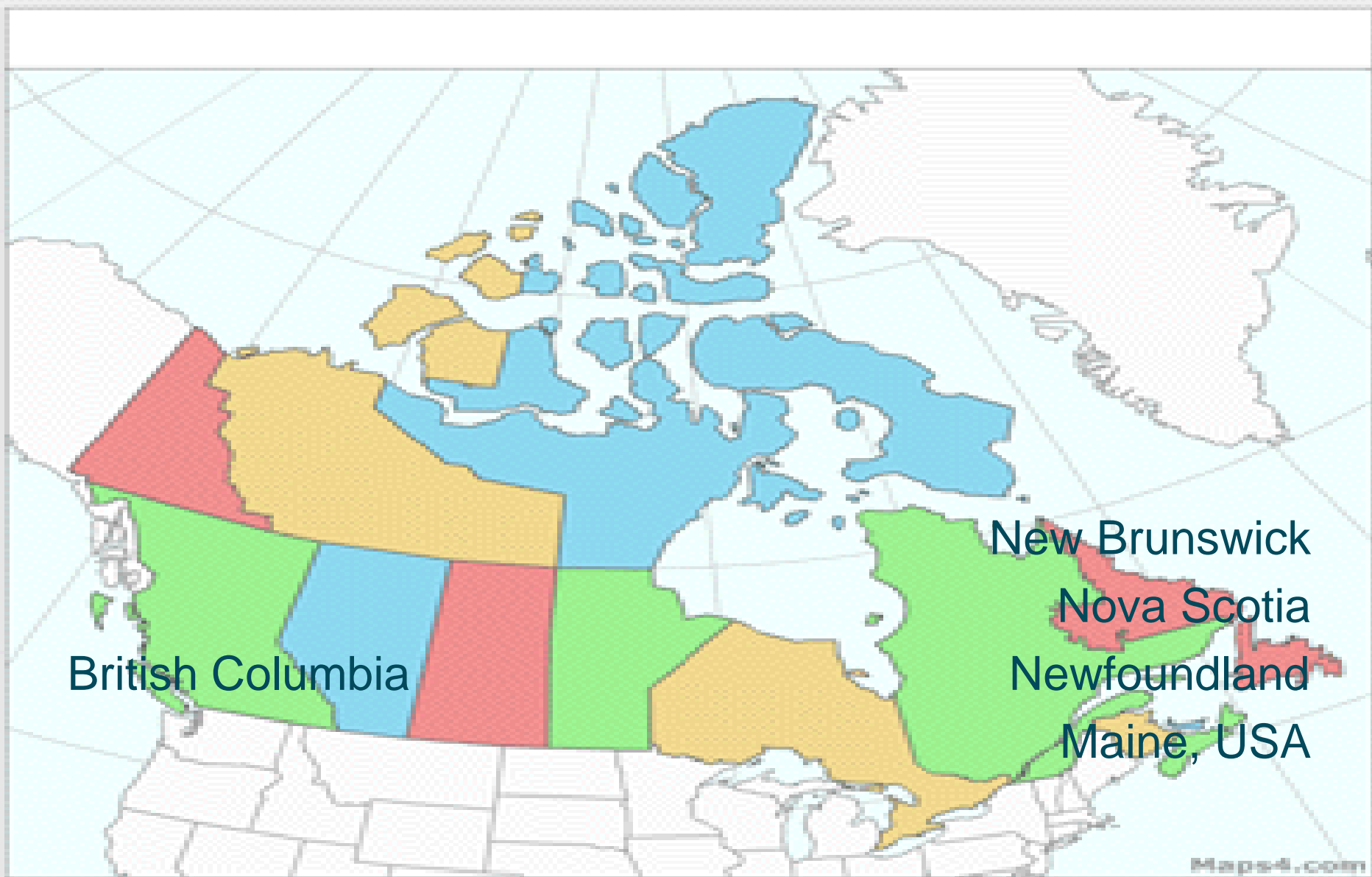
Atlantic Canada  
Fish Farmers Association

# IPMP for Sea Lice in Canada

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- Regional Context
- Historical Background
- Where we are in IPMP for Sea Lice
- Summary of Control Options
- What are the Roadblocks
- Where we are on the Continuum

# EACH REGION IS DIFFERENT



# British Columbia

- SLICE only available option – application pending for Interlox Paramove 50
- Treatment required at 3 motile lice per fish during “at risk time for out-migration”
- DFO audits lice counts; farm-by-farm detailed public disclosure on sea lice status and management
- No indication current lice levels affect farmed or wild fish health; no evidence to suggest any effects on wild salmon populations
- Sea lice in BC are genetically different from other lice
- Much larger numbers of wild fish in BC waters than other jurisdictions so there is a dilution effect from wild stocks

# Newfoundland & Nova Scotia

## Newfoundland

- Products include SLICE, CALACIDE; SALMOSAN and INTEROX PARAMOVE 50
- Generally treatments done using full tarps; some well boat trials
- Sea lice populations under control
- No regulated treatment thresholds
- No public disclosure

## Nova Scotia

- No treatments required

*Both provinces part of Pan-Atlantic regional applications for product approvals*



# Maine, USA

- Cobscook Bay - shares waters with New Brunswick
- Machiasport, Jonesport, Swans Island – more southerly and lice not traditionally a serious concern
- Treatment options include SLICE & INTEROX  
PARAMOVE 50 – working toward SALMONSAN approval
- EXCIS was available until 2011; US INAD discontinued
- Wellboat used; change in federal US regulations allows Canadian owned well boats to enter US waters to treat fish
- No regulated treatment threshold
- No public disclosure

# New Brunswick

- Since 2009 trials with ALPAMAX; SALMOSAN; INTEROX PARAMOVE 50
- Current in-feed options include Avermectins; CALICIDE
- Bath - SALMOSAN, INTEROX PARAMOVE 50
- Salmosan and Interlox in full license approval process
- no regulated treatment thresholds – industry develops annual treatment strategy for all ABMAs – focus on adult female lice control
- Regulators have ongoing access to lice data
- Annual industry report on sea lice management, containing average numbers by ABMA released publicly

# Historical Background

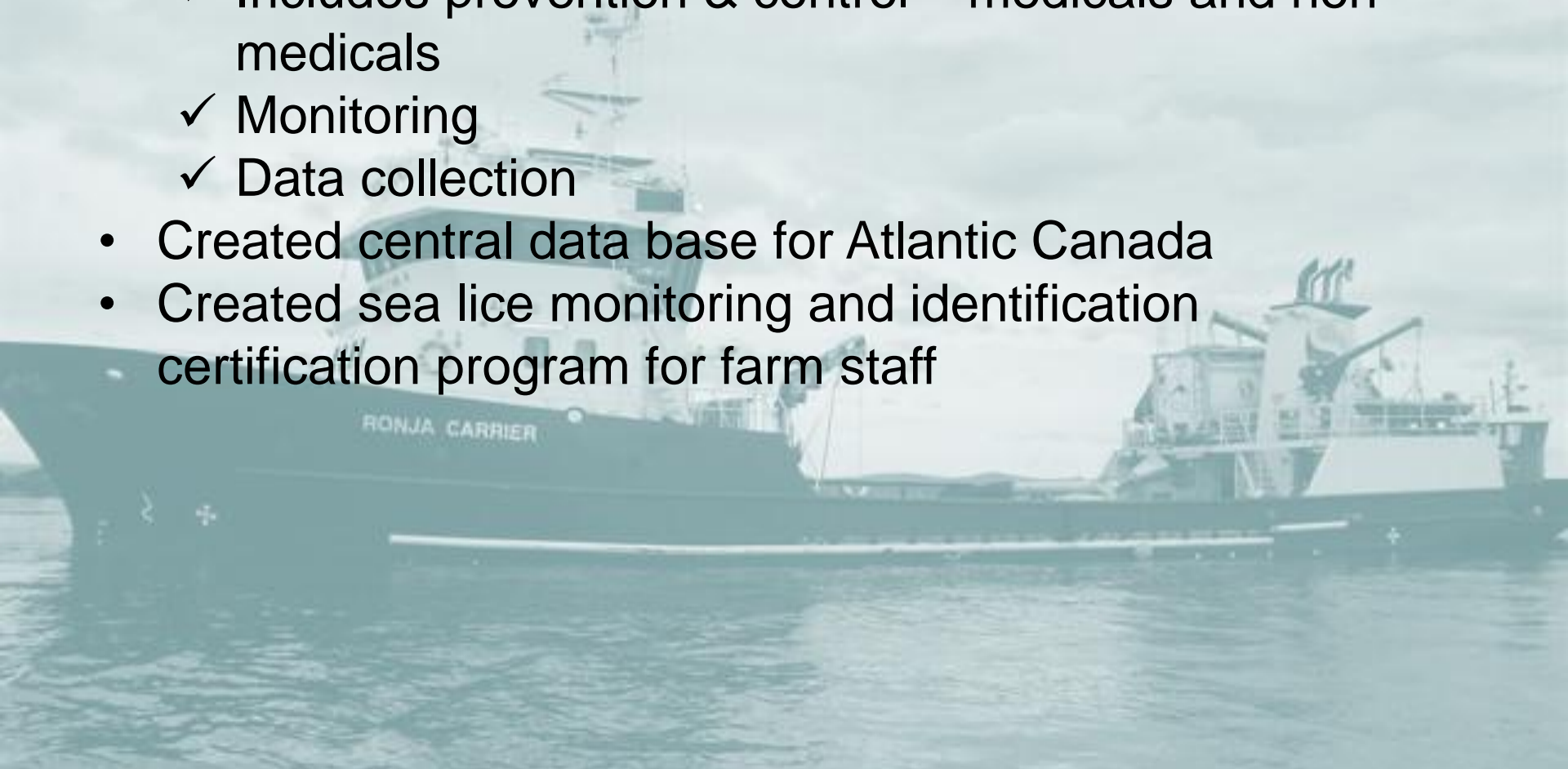
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- 2008 tolerance to SLICE
- 2009 began trials with AlphaMax; later Salmosan
- 2009 NB industry plays key role in development of extensive collaborative R&D in alternative sea lice treatment options
- 2010 introduction of well boats and Interlox Paramove
- 2010 critical year for sea lice populations
- Since 2010 some areas see farms close due to lack of consistent access to treatment options
- Salmosan, Interlox available only on short-term permissions – license approvals still pending (but close!)



# Where we are in IPMP

- IPMP Framework for Sea Lice developed through diverse stakeholder consultation
  - ✓ Includes prevention & control – medicals and non-medicals
  - ✓ Monitoring
  - ✓ Data collection
- Created central data base for Atlantic Canada
- Created sea lice monitoring and identification certification program for farm staff



# Summary of Control Options

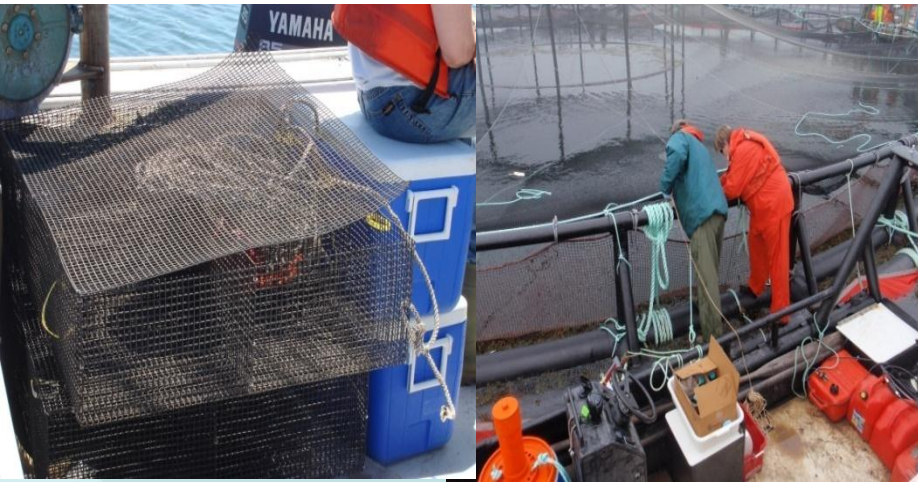
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- Advocacy ongoing for access to a variety of treatment products and functional feeds
  - Salmosan and Interlox Paramove 50
  - SLICE, Ivermectin, Calacide
  - Functional feeds
- Non-medicant / Novel Treatments
- Neutralizing active ingredients of sea lice pesticides used in bath treatments
- Well boats & Eco-bath Treatment System
- Management Systems

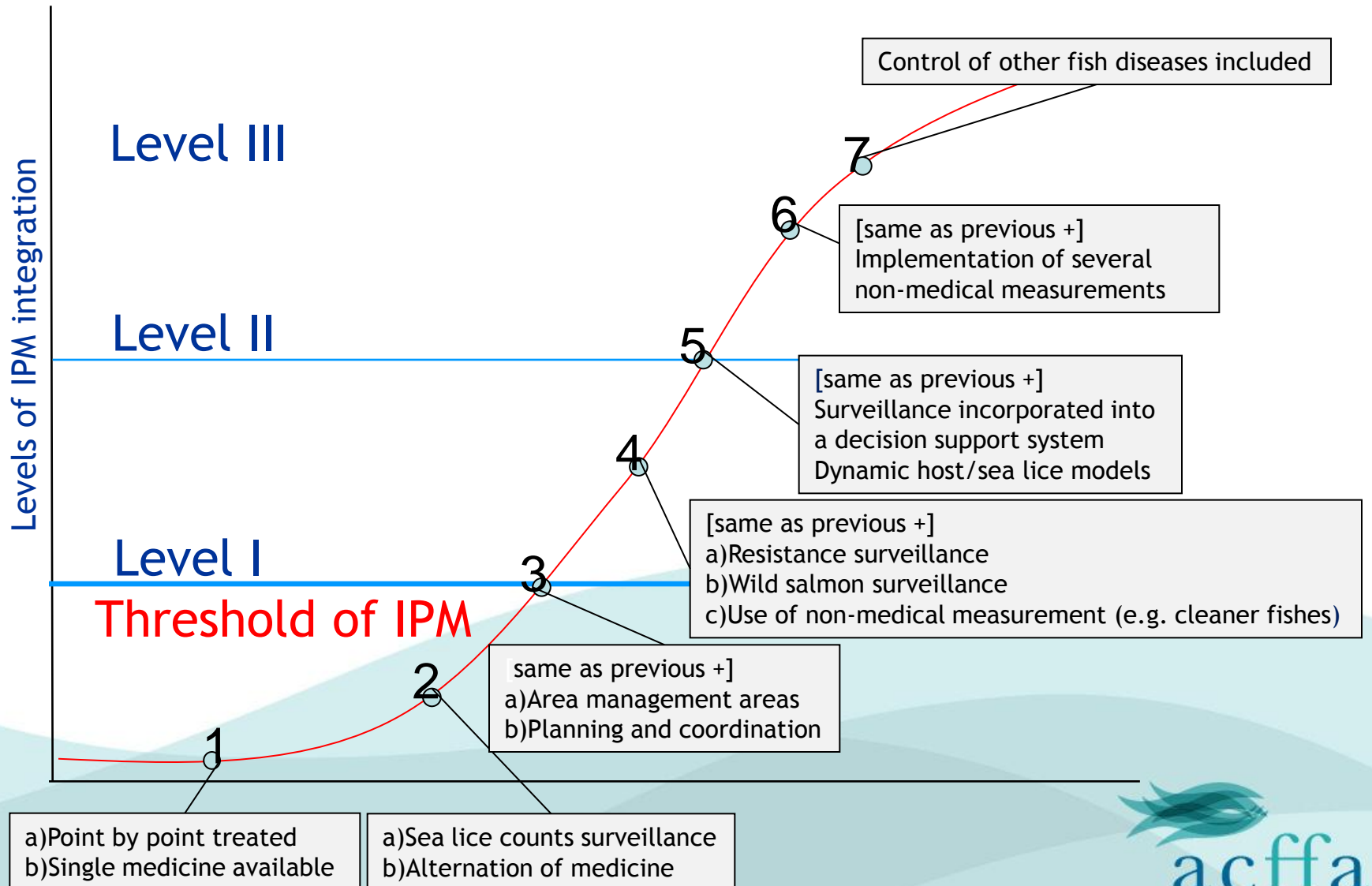
# What are the Roadblocks

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- Government 'red tape' preventing progress
  - No access to functional feeds
  - Innovative research
- Industry government research collaboration
- Lack of funding toward cunner / cleaner fish broodstock development research



# Continuum: to Level III IPM



A person is seen in a small boat on a calm body of water. In the foreground, there are large fishing nets stretched out on a wooden structure. The background shows a hazy horizon with distant hills. The overall scene is serene and suggests a traditional fishing community.

**Moving Forward**

**Questions?**