

THE NATIONAL INVASIVE SPECIES COUNCIL (NISC)



Meet the Invasive Species Challenge.

Know the NISC Plan, Manage the Problem.

PREPARE, PREVENT, PROTECT.

# Updates on Pathway Guidance and Climate Change Report

Northeast Aquatic Nuisance Species Panel (NEANS)

Brattleboro, VT

15 May 2014

# ANSTF/NISC Prevention Efforts

2005 & 2007

- Pathway diagrams and prioritization tools developed by joint ANSTF/NISC Prevention Committee\*
- Risk assessment and risk screening methods

2012

- ANSTF request to provide guidance for pathway management plans and a list of pathways to be considered for plan development

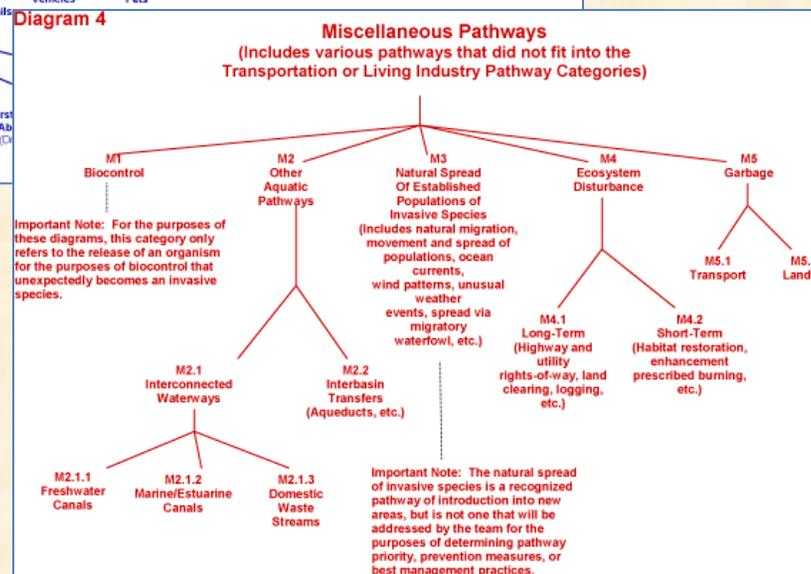
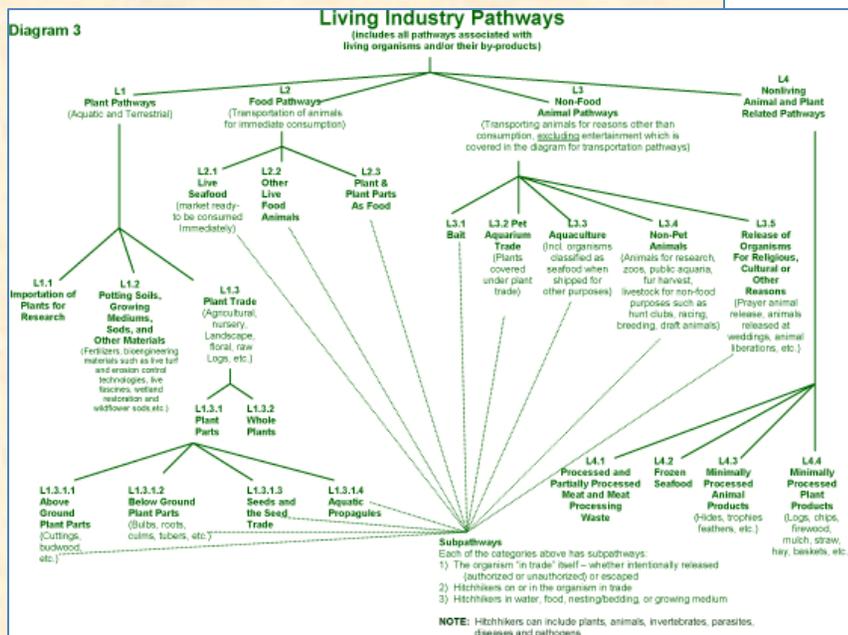
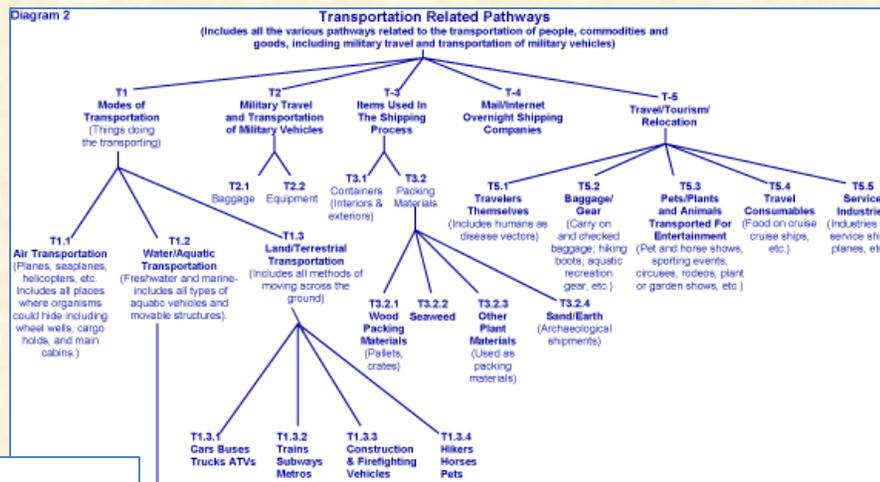
Framework:

- Pathway identification (diagrams)
- Risk analysis (species and pathways)
- Pathway management plans

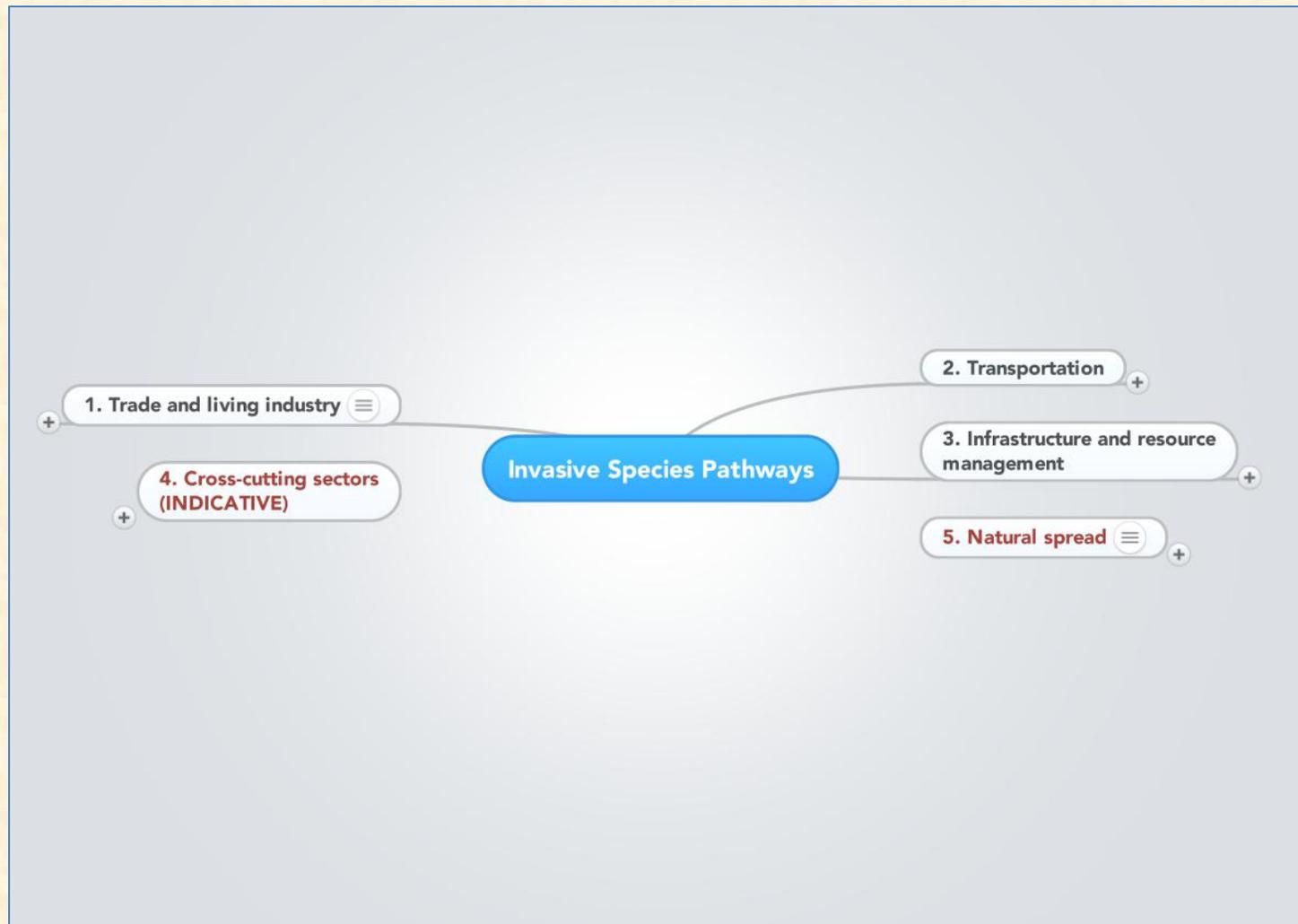
\* Note: participation in committee efforts is open to interested experts

# Pathway Diagrams (2007)

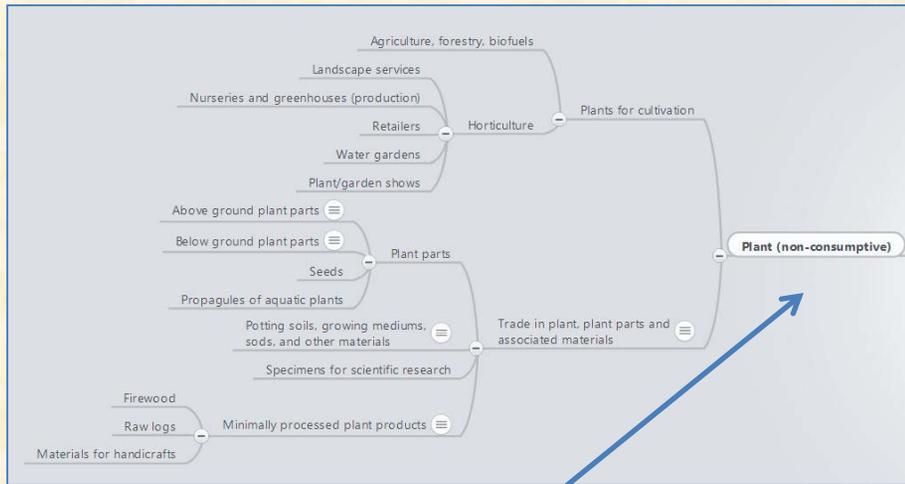
- Diagrams for
- Transportation
  - Living industry
  - Miscellaneous



# Revised Pathway Diagrams (*draft*)



# Trade & Living Industry Pathways



Trade and living industry pathways include both the target species being cultivated, traded, transported and/or consumed as well as species that may be associated with that species (e.g., parasites, pests, diseases). Therefore consideration of this pathway should consider:

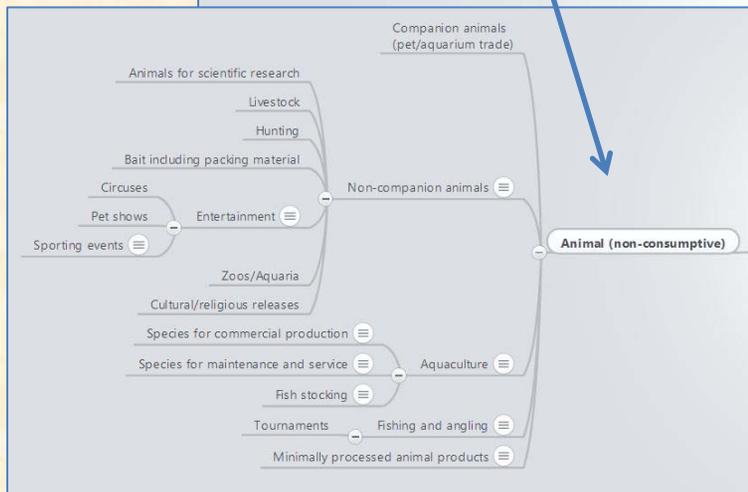
- 1) the organism "in trade" itself whether intentionally or unintentionally released;
- 2) hitchhikers in or on the organism in trade and
- 3) hitchhikers in water, food, nesting/bedding or growing medium associated with the organism in trade.

Hitchhikers can include plants, animals, invertebrates, parasites, diseases and pathogens.

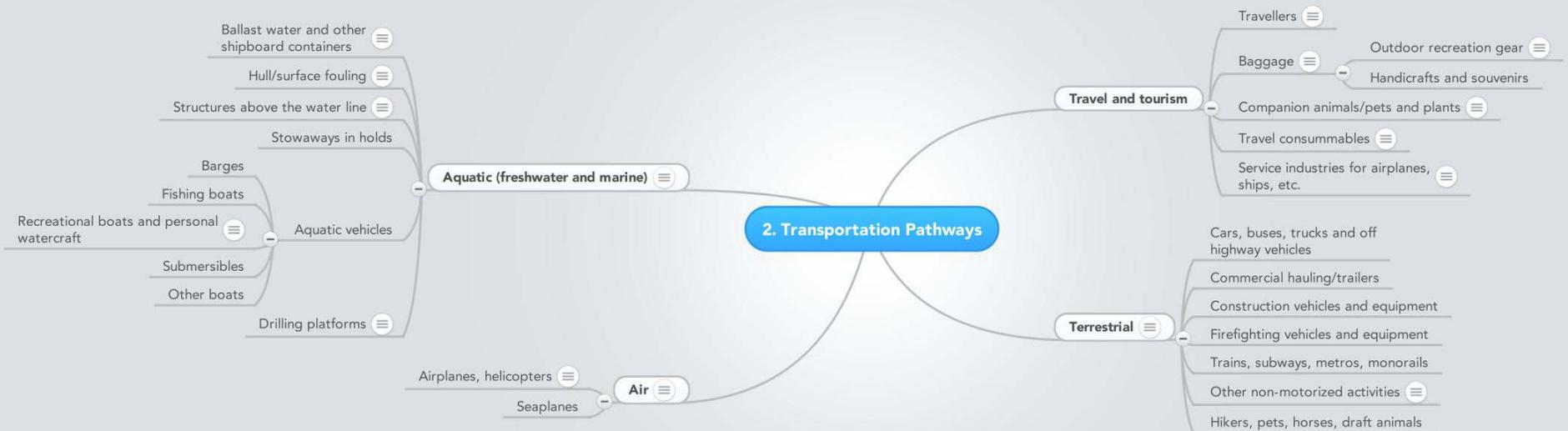
## 1. Trade and Living Industry Pathways

- + Plant (non-consumptive)
- + Animal (non-consumptive)

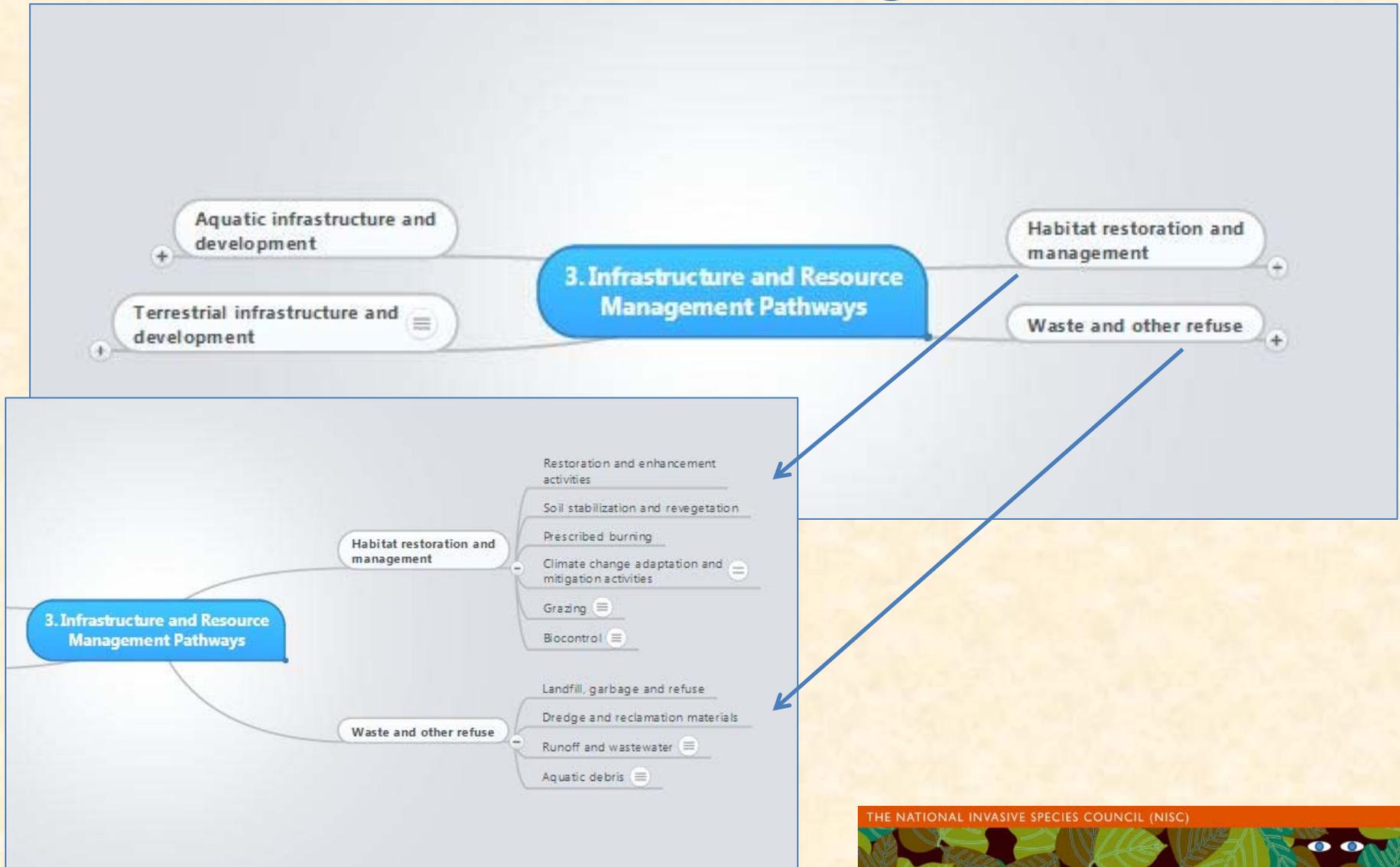
- + Food (products for direct consumption)
- + Other commodities (not primarily plant or animal-based)
- + Packaging and shipping



# Transportation



# Infrastructure & Resource Management



# Cross-Cutting Sectors & Natural Spread



The problem of boots, bait and boats.

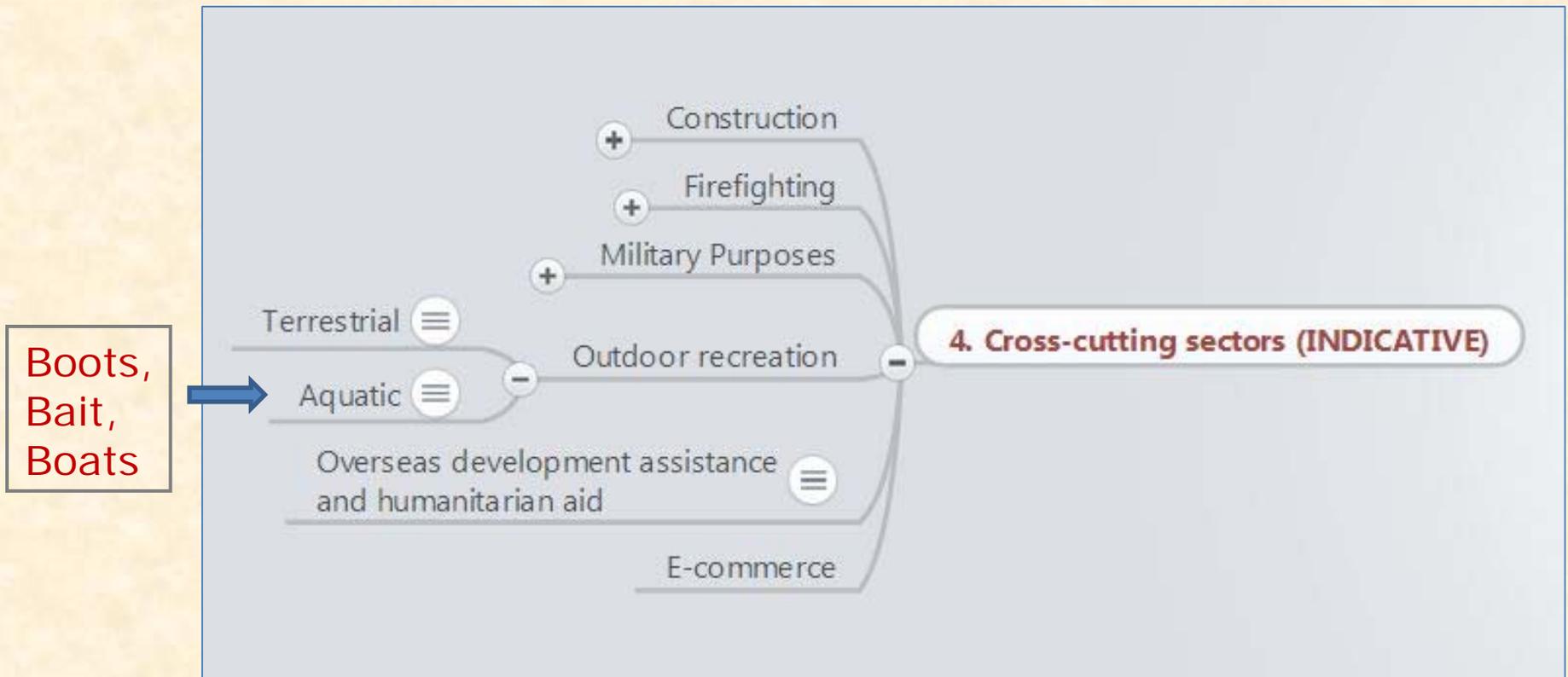
# Cross-cutting Sectors (Boots, Bait & Boats)



1. BAIT: Trade/living industry > Animal (non-consumptive) > Fishing
2. BAIT (PACKAGING): Trade/living industry > Packaging/shipping > Packing Materials > Other plant materials
3. BOATS: Transportation > Aquatic > Vehicles > Fishing boats / Recreational boats
4. BOOTS: Transportation > Travel/tourism > Baggage > Outdoor recreational gear

# Cross-cutting Sectors

*(Boots, Bait & Boats cont.)*



# Comments & Input

Due by 30 June 2014 on:

- Broader framework (pathway identification, risk analysis and management plans)
- Pathway diagrams
  - Structure, omissions
  - Definitions of pathways
  - Specific examples of pathways
  - Relevant management guidance
  - Cross-cutting sectors (utility, coverage)
- ANS Regional Panel – priority pathways of concern

Interactive version:

<https://mm.tt/133945172?t=Oqm90jhKwF>

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# Bioinvasions in a Changing World: A Management Resource on Invasive Species-Climate Change Interactions

- Objective
  - identify knowledge gaps and provide recommendations for future research needs
  - identify and provide a platform for disseminating existing management strategies, tools and resources
- Audience
  - Resource managers
  - Decision-makers

# IS/CC: Process

- ANSTF/NISC Ad Hoc Working Group
  - ~40 participants
  - Federal (APHIS, BIA, EPA, FWS, NOAA, NPS, USFS, USGS)
  - State (AK, CA, FL, MA, WI)
  - Academia and industry
  - Three drafting teams
  - Larger group edit

# IS/CC: Structure

## I. Overview

### A. Basic Interactions

## II. Context for Management

### A. Climate Adaptation and Conservation Planning

### B. Framework of Invasive Species Management

## III. Tools and Methods

### A. Prevention and Risk Management

### B. Early Detection and Rapid Response (EDRR)

### C. Management and Control

## IV. Institutional Coordination and Outreach

## V. Resources and Recommendations

## VI. Glossary of Terms, References, Annexes

# IS/CC: Next Steps

- Circulate draft
  - ANSTF Agencies and Regional Panels
  - NISC Agencies
  - NISC Invasive Species Advisory Committee
- Comments due 31 July 2014. Submit to co-chairs:
  - Stas Burgiel (NISC) t: 202.354.1891; e: [stas\\_burgiel@ios.doi.gov](mailto:stas_burgiel@ios.doi.gov)
  - Tom Hall (APHIS) t: 970.494.7440; e: [thomas.c.hall@aphis.usda.gov](mailto:thomas.c.hall@aphis.usda.gov)
- Revise and resubmit to ANSTF at fall meeting