

Draft Working Conceptual Models for Resource Management in Acadia National Park

The following models were developed by National Park Service staff in collaboration with experts from many institutions, including but not limited to the Schoodic Institute, University of Maine, College of the Atlantic, US Geological Survey, Maine Department of Inland Fisheries and Wildlife, Maine Department of Marine Resources, Maine Natural History Observatory. The model development process was facilitated by Foundations of Success.

The models were developed following the Open Standards for the Practice of Conservation and created using Miradi software. Please download the Open Standards version 3.0 at cmp-openstandards.org for more details on the methods and language of model development.

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Detailed overview of the conceptual model	page 3
More detailed views for particular threats	pages 4-7
Detailed overview of model for intertidal zone	page 8
Draft results chains depicting management strategies	pages 9-14

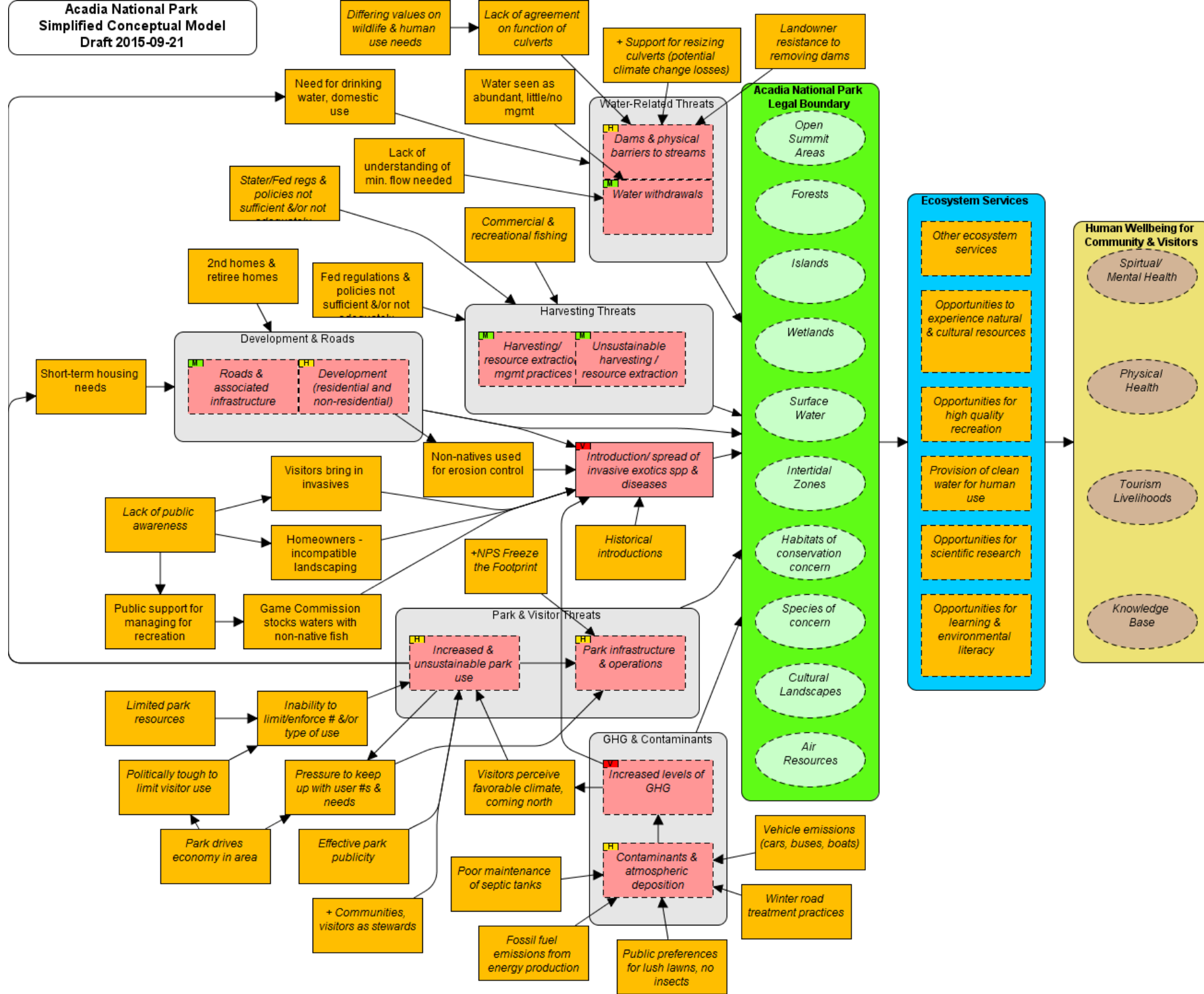
All of the models are draft and are being revised. We are providing them here to provide insights into our current thinking and plans, and to help you inform research ideas.

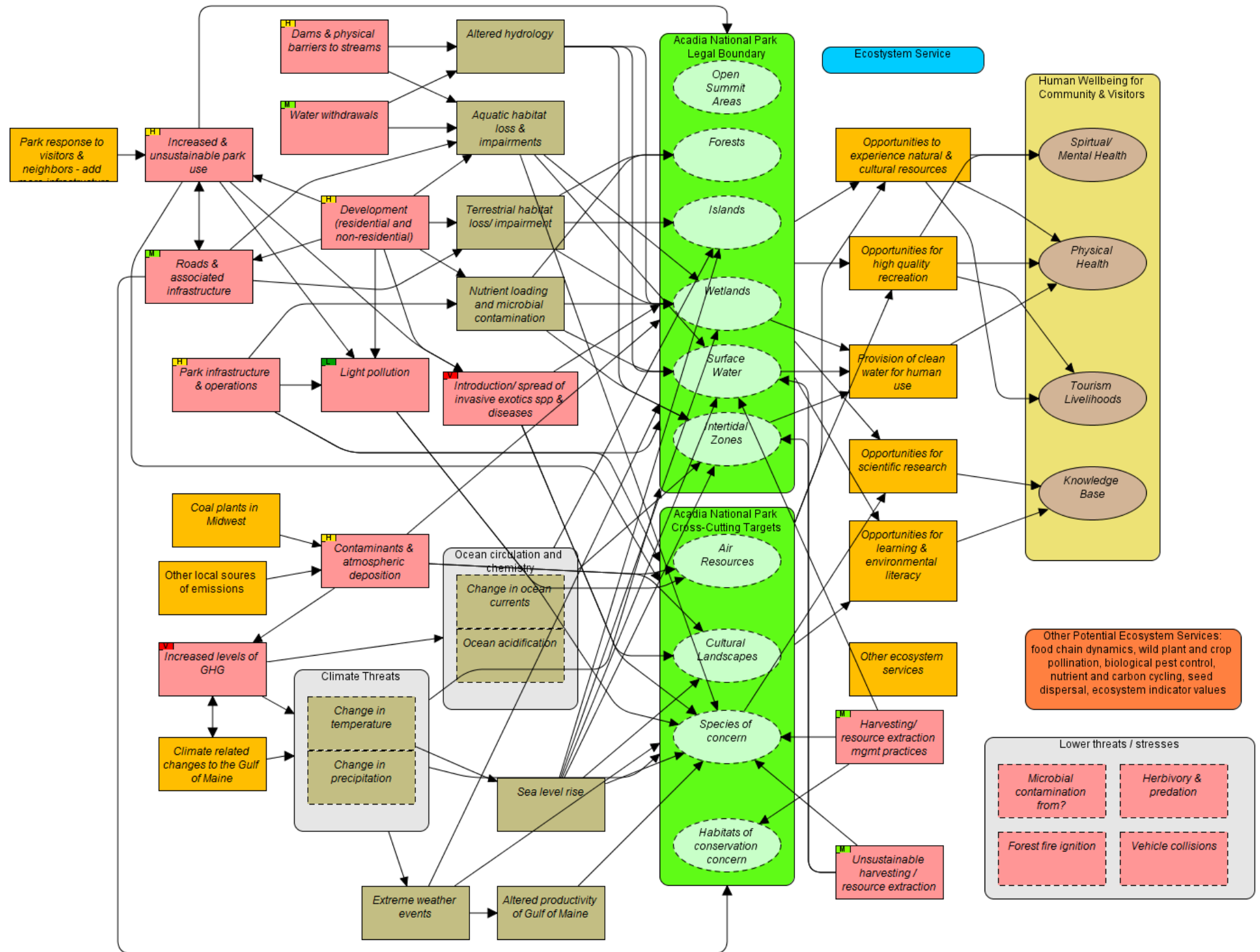
Please feel free to contact us with questions, comments, and suggested revisions.

Contacts (please copy both with questions or comments):

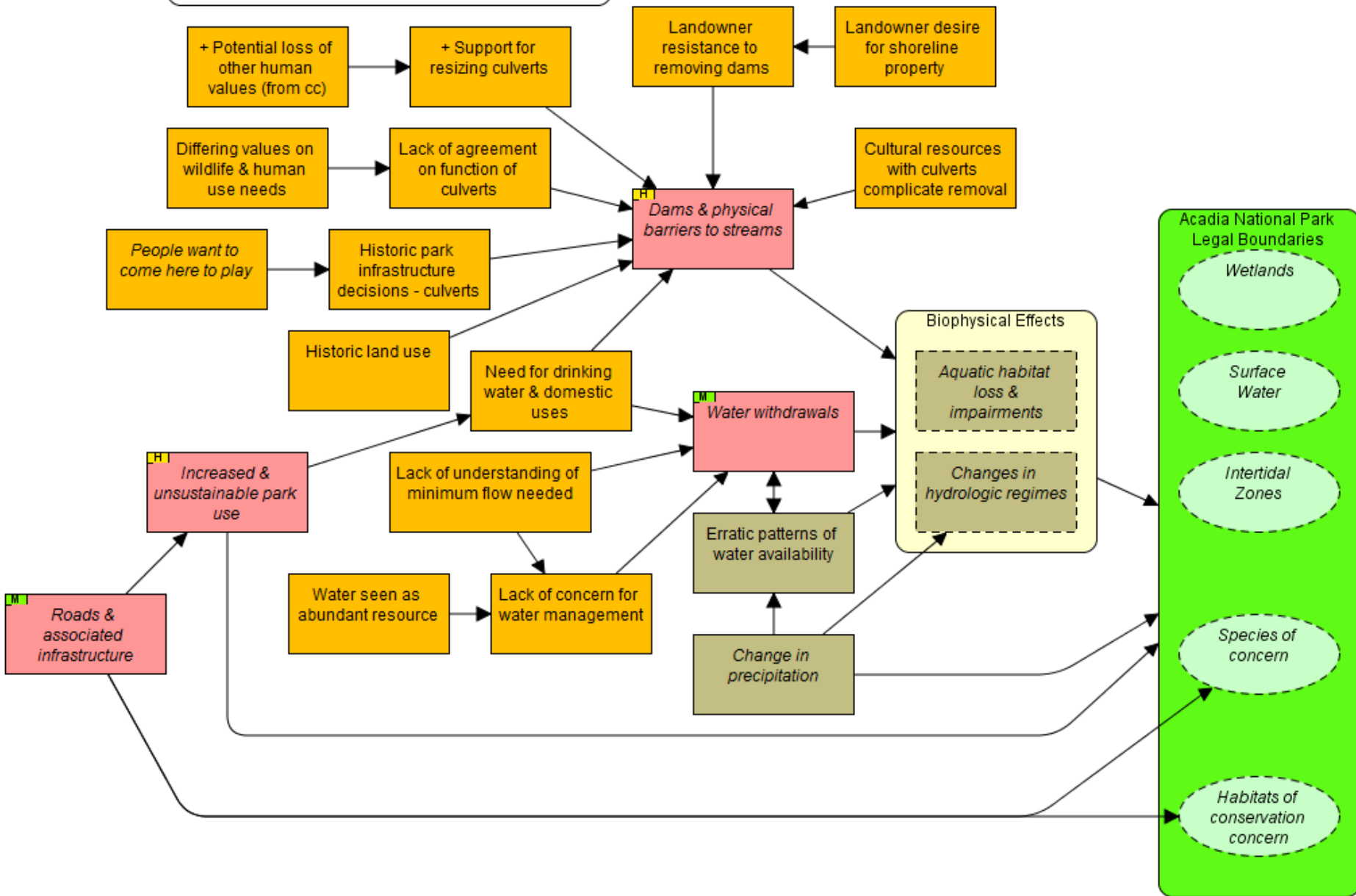
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**Acadia National Park
Simplified Conceptual Model
Draft 2015-09-21**

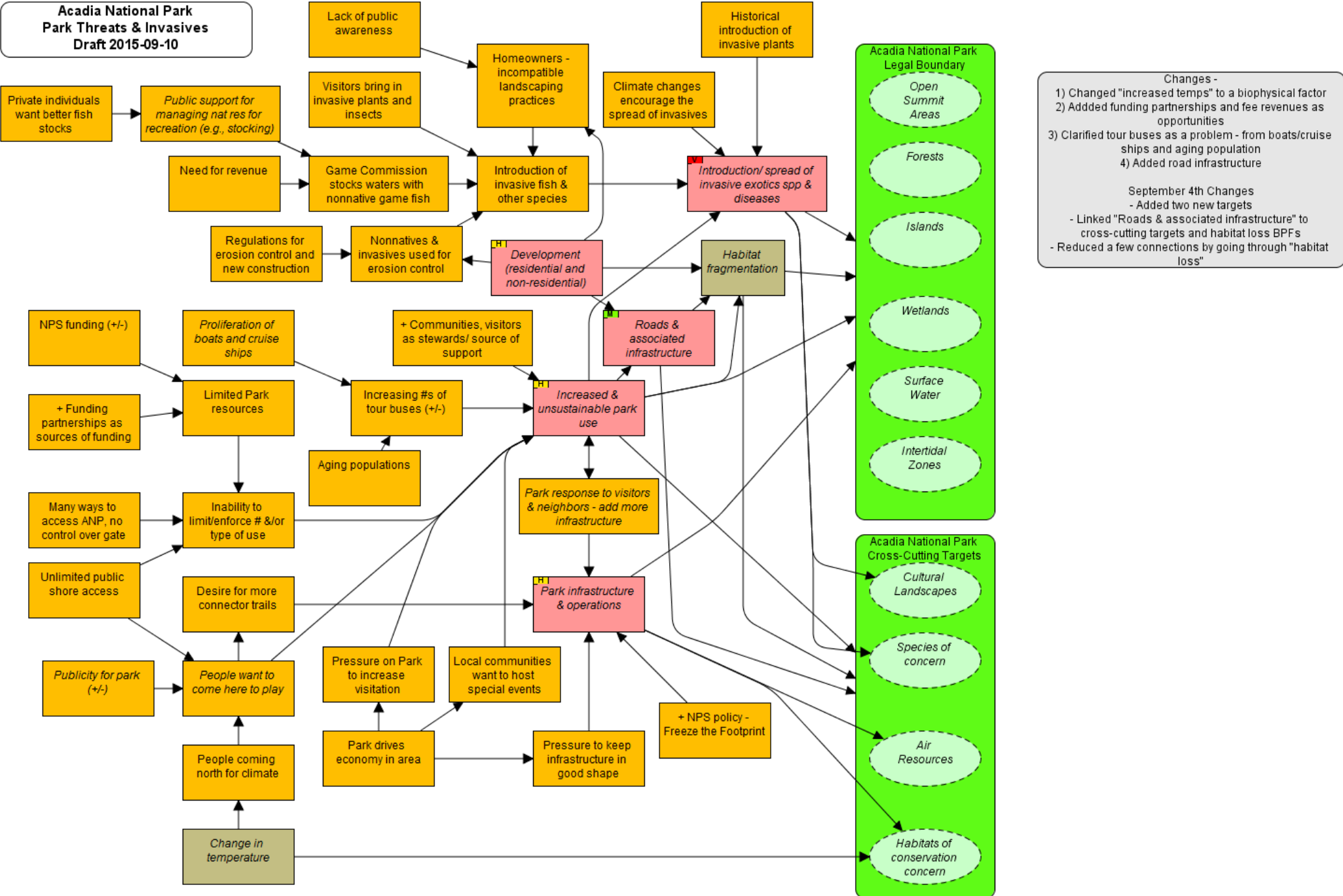




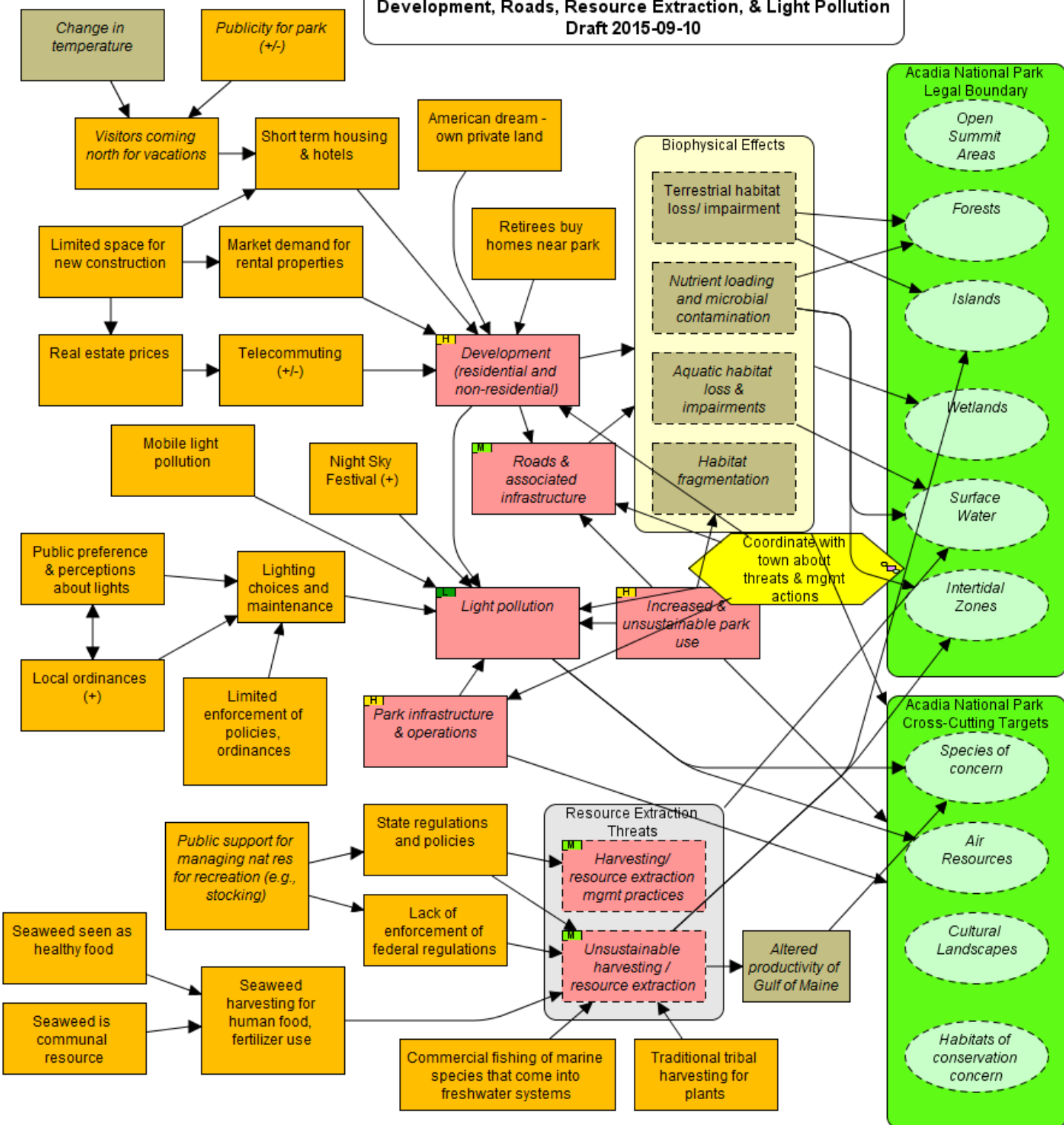
**Acadia National Park
Dams, Physical Barriers, Water Withdrawals
Draft 2015-09-10**

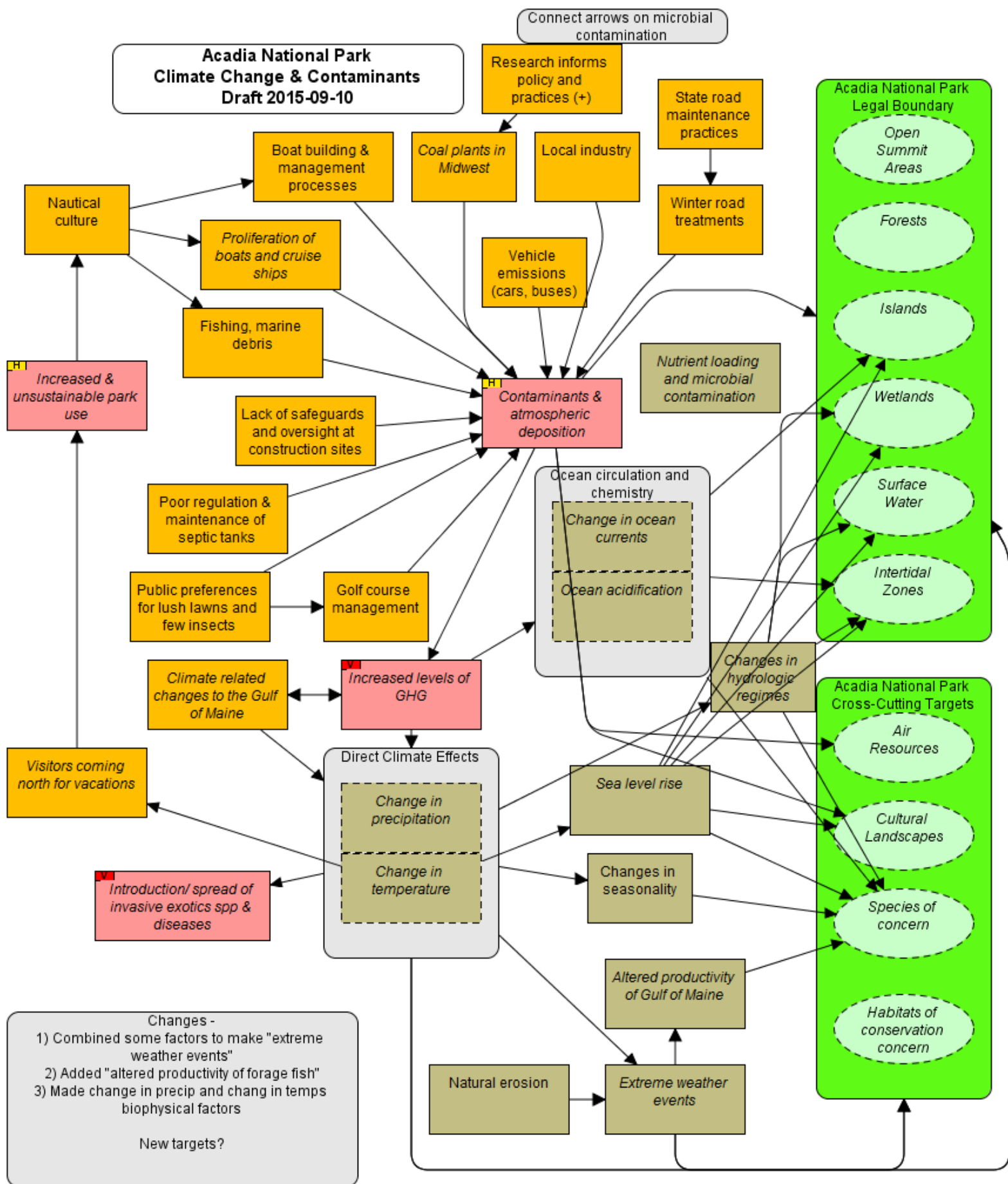


**Acadia National Park
Park Threats & Invasives
Draft 2015-09-10**

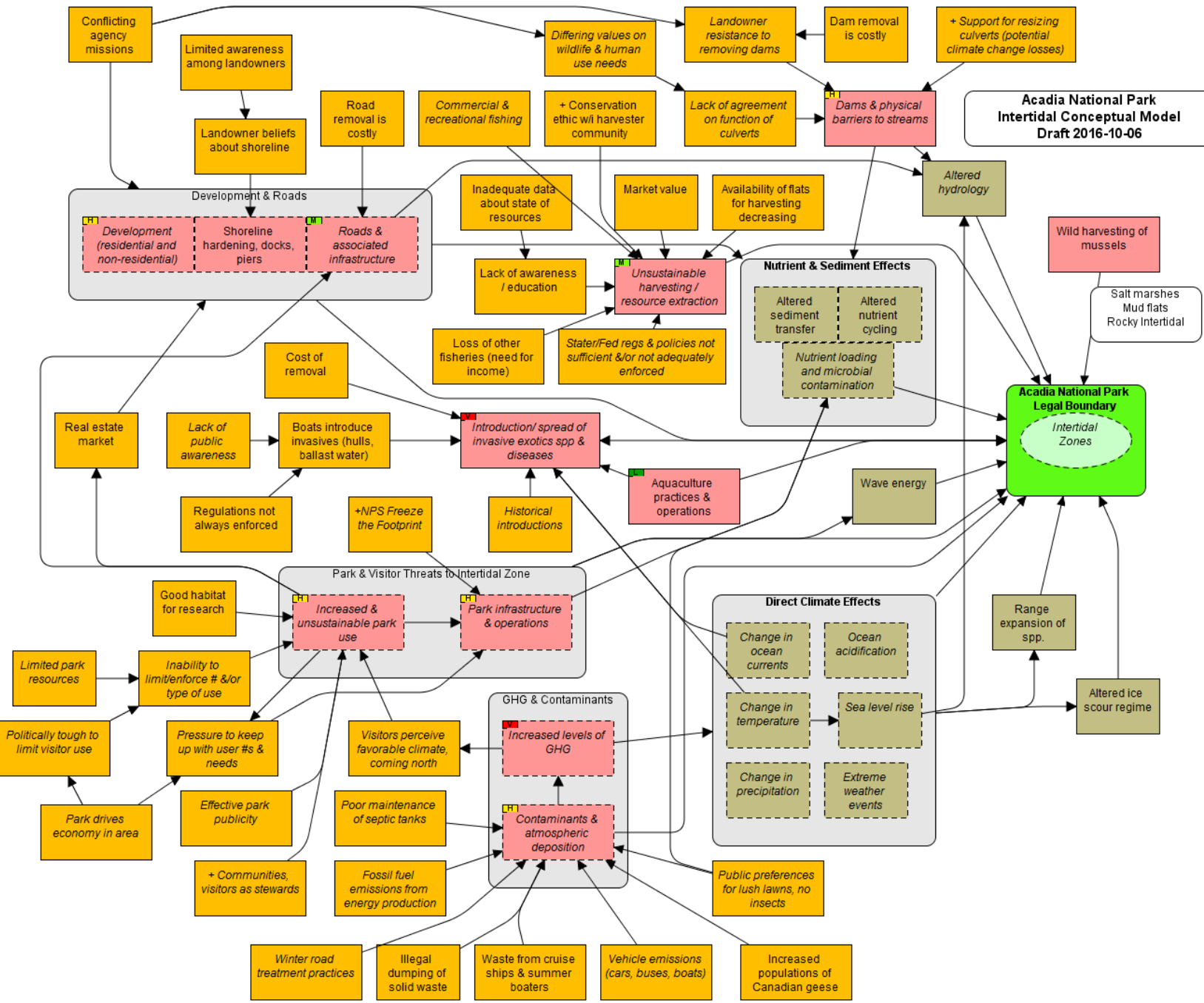


Acadia National Park Development, Roads, Resource Extraction, & Light Pollution Draft 2015-09-10

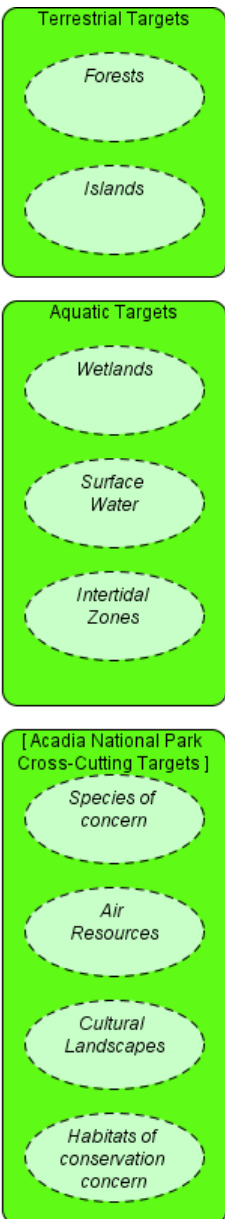
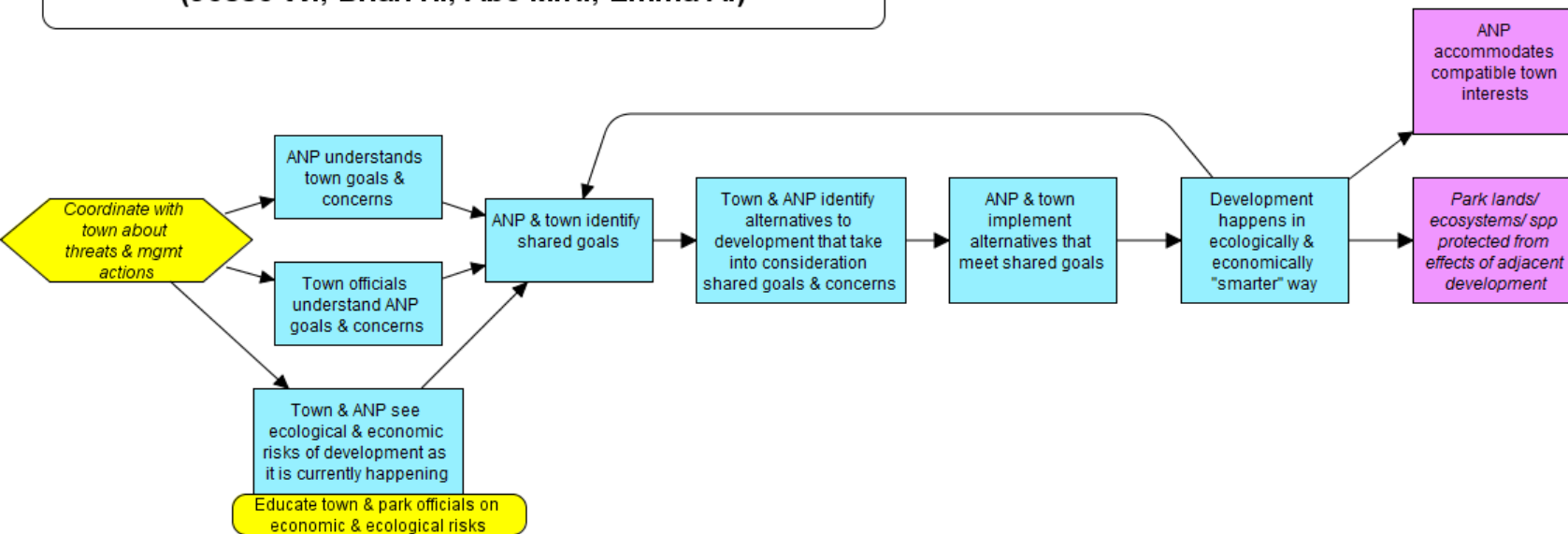




Acadia National Park Intertidal Conceptual Model Draft 2016-10-06



Coordinate with Towns about Threats & Mgmt Actions
Draft in Progress 2015-12-15
(Jesse W., Brian H., Abe M.R., Emma A.)



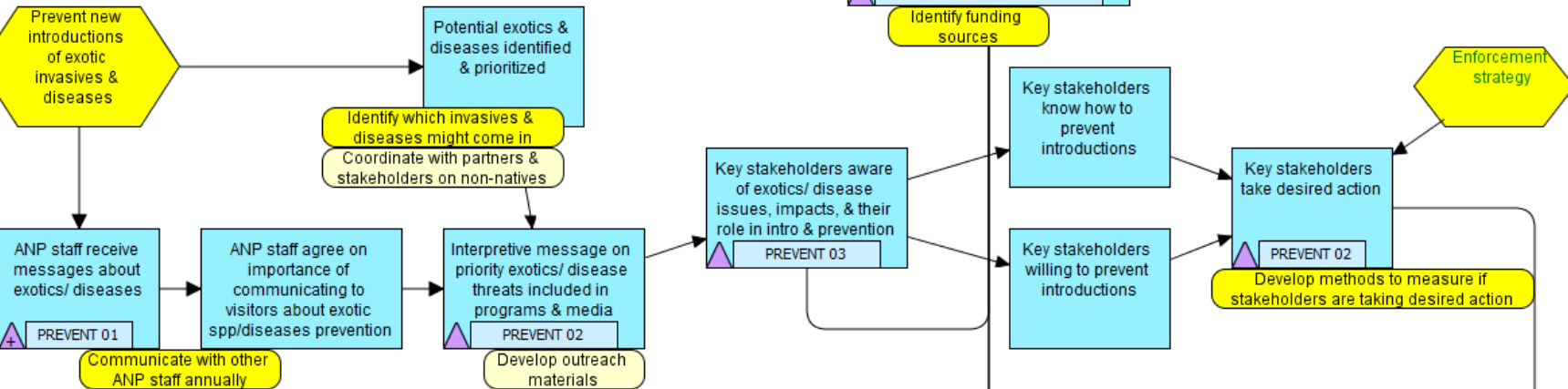
Exotics Management Program

Draft 2015-12-17

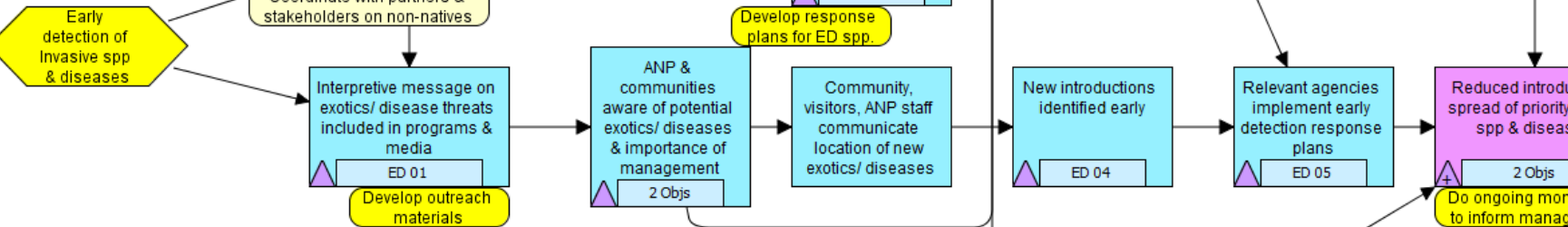
(Jesse W., Tony T., Karen A., Phillip dM, Linda W., Kate M., Brian H., Judy HC)

Knowledge gaps for species specific invasives
- Which invasives/diseases are likely to come?

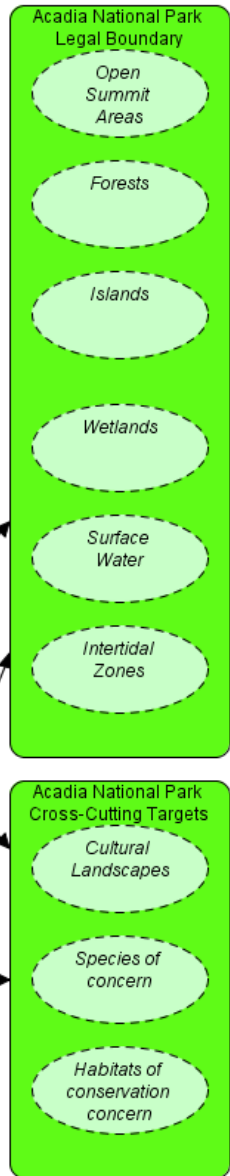
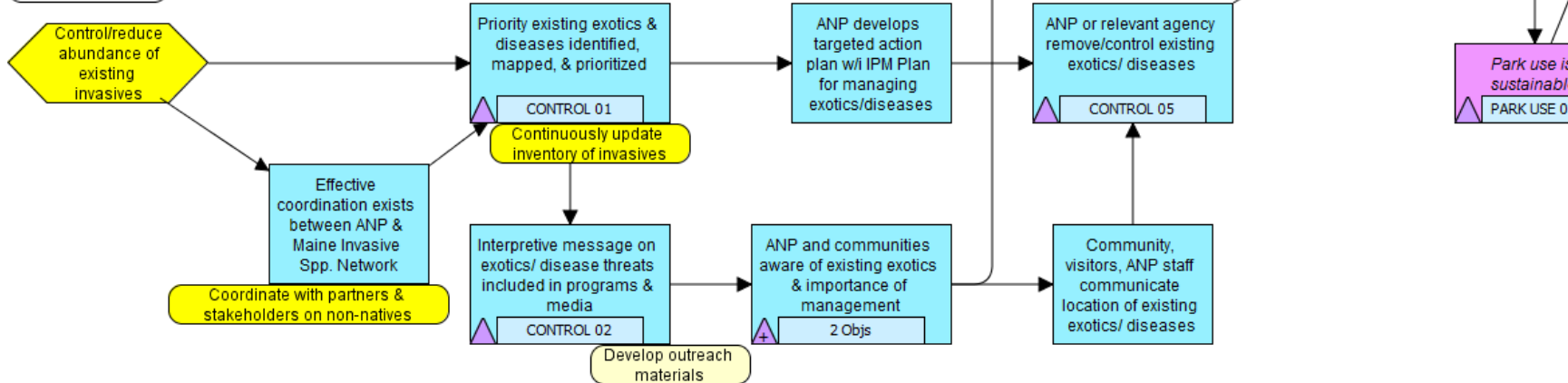
Prevention



Early Detection



Control

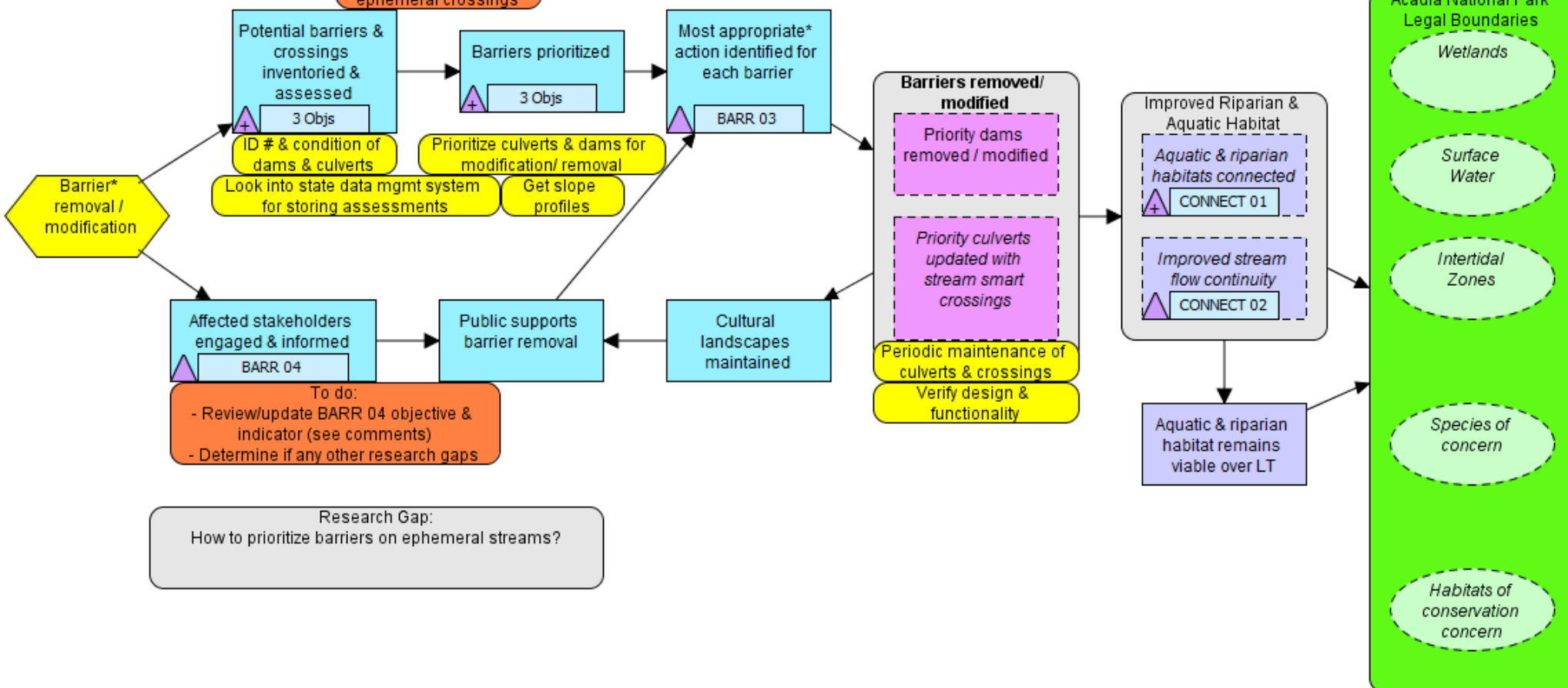


Barrier Removal / Modification Internal and External to ANP

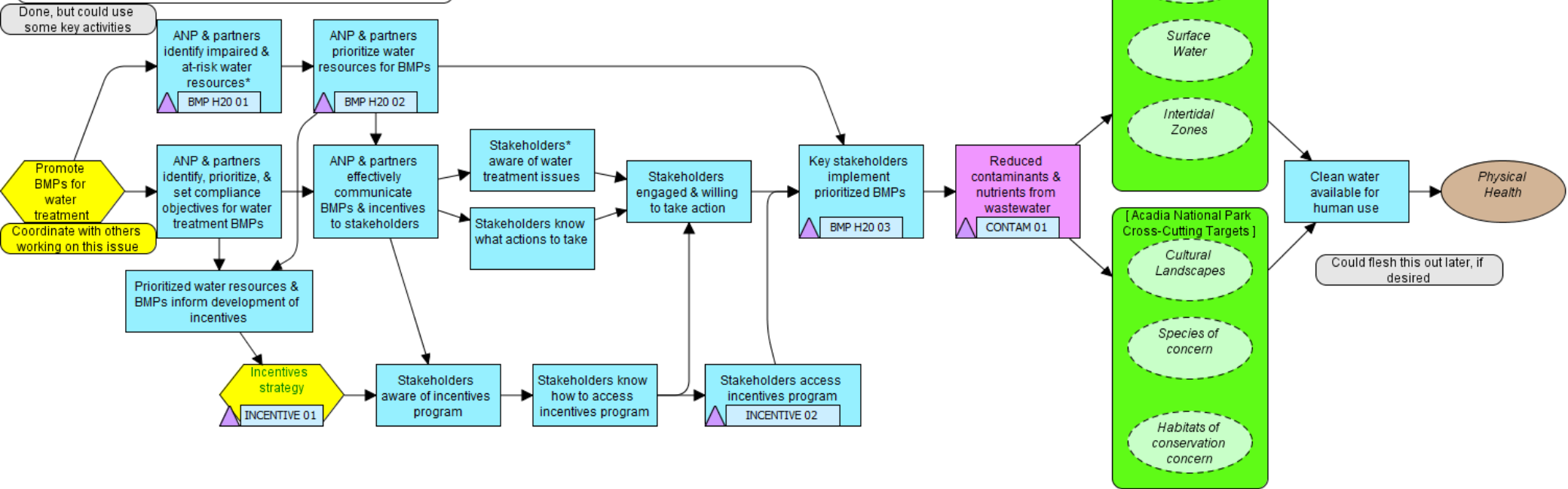
Draft 2015-12-02

(Bruce C., Tom H., Hannah W., Brian)

Review timing with
group - is this realistic?
esp. for dams &
ephemeral crossings



Promote BMPs for Water Treatment
Internal and External to ANP
Draft 2015-12-11
(Bruce C., Tom H., Hannah W., Brian H., Bill G., Jesse W.)



Climate Friendly Park
Draft 2015-12-07
(Abe M.R., Gail G., Bill G., Irma S., Ivan F., Charlie J.)

Could we start to fundraise, plan, and build internal support for the CFP. Could this be integrated into the centennial

Research Needs:
- How do you use interpretive & education techniques to influence actions of visitors, policymakers, partners, ANP staff to take actions to reduce climate change emissions? (personal behavior, policies, investments, etc.)

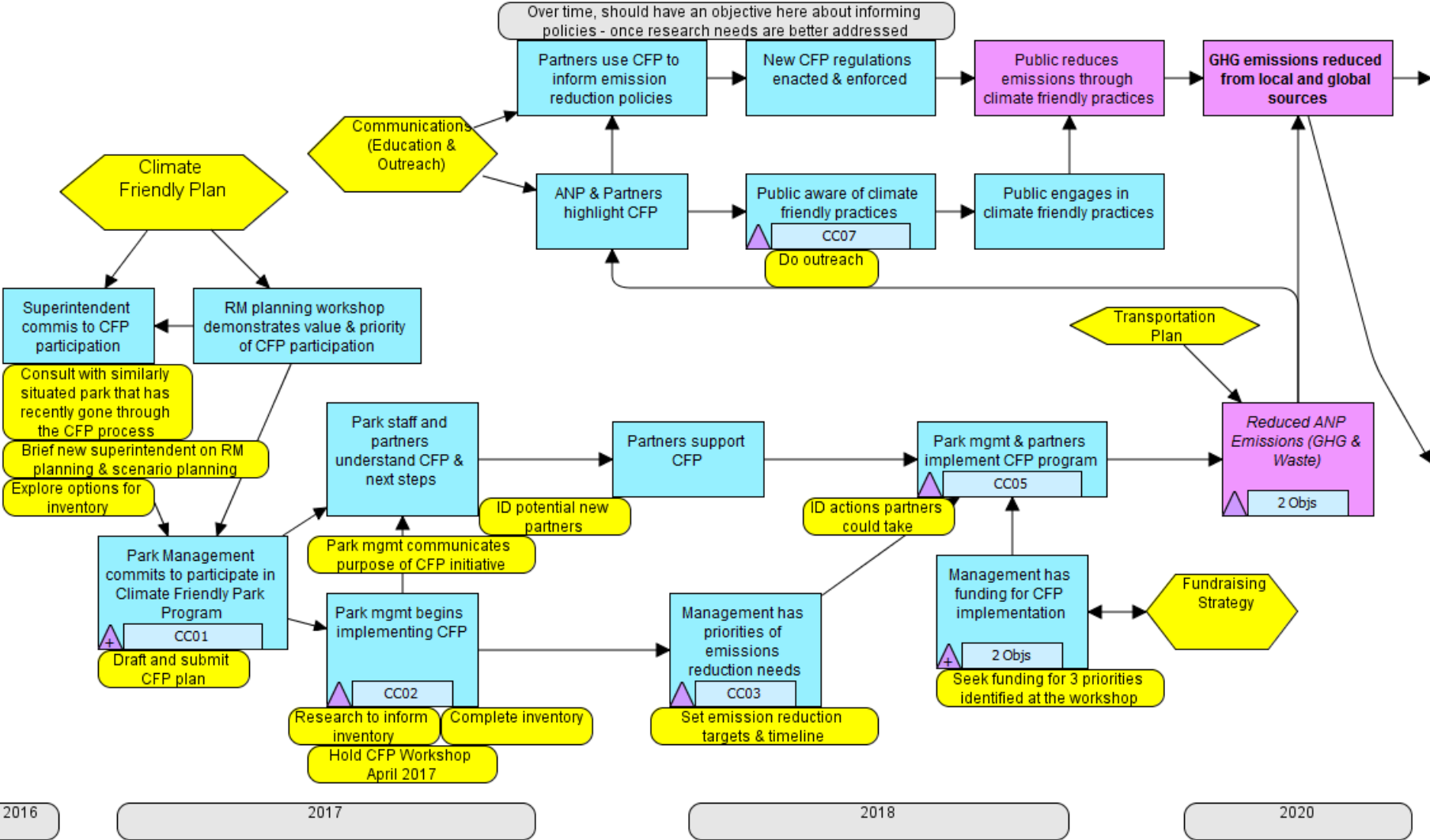
Over time, should have an objective here about informing policies - once research needs are better addressed

Acadia National Park Legal Boundary

- Open Summit Areas
- Forests
- Islands
- Wetlands
- Surface Water
- Intertidal Zones

Acadia National Park Cross-Cutting Targets

- Cultural Landscapes
- Air Resources
- Species of concern
- Habitats of conservation concern



Transportation Plan

Draft 2015-12-16

(Lynne D., Stephanie C., Charlie J., Judy H.C., Christie A., Gail G., Becky C.W.)

Research Needs:

Information needed regarding rare species and habitats threatened by transportation and maintenance (what, where, how many, status, threats - rare spp & habitats affected)

What are impacts of salt & sand on wetlands & intertidal?

*where roads interface with lake streams and wetlands. The oil collectors and separators may not be the intervention. Research needed.

What is carrying capacity for park?

Maximize efficacy of resource stewardship through park-wide teamwork

Park managers resist public pressure to modify / add unsustainable infrastructure inconsistent with NPS goals & objectives

Park staff & contractors use best practices for cultural & natural resource protection

No new roads or parking areas
ROADS 01

Reduced wildlife mortality

Improved culverts and crossings*

Wildlife crossings added to prioritized roads
2 Objs

Improved Habitats

Improved &/or maintained unfragmented habitats

Aquatic & riparian habitats connected
CONNECT 01

Improved stream flow continuity
CONNECT 02

Ecosystems, Habitats, Species

Species of concern

Surface Water

Habitats of conservation concern

Transportation plan includes focus on cultural & natural resource protection

Influence the Transportation Plan to protect resources & provide quality visitor experiences

Enabling Conditions

Funding is secured (short & long term)
TP 01

Key stakeholders support prescribed actions in Transportation Plan

Research Informs Transportation Plan

Research ID's high-priority conflict areas between transportation & wildlife

Research informs decisions about visitor use levels & their impacts on park
2 Objs

Research informs the use level and known impacts of salt & sand

Transportation Plan Includes Requirements / Incentives

Parking plan clarifies where & when parking permitted
TP 03

Requirements for sustainable transport by NPS staff
TP 04

Alternatives for winter road treatments identified

Use Changes

Vehicle use within the park matches carrying capacity
TP 05

Visitor use managed to protect fragile resources

Employees use more sustainable commuting
TP 06

Park Operations transport is more sustainable
2 Objs

NPS, MDOT, and towns address salting areas
TP 08

Concession operators transition to sustainable
TP 09

Priority culverts updated with stream smart crossings

Historic roads & infrastructure maintain cultural integrity
CULTURAL 01

Park use is sustainable
PARK USE 01

Contaminants/ Emissions Reduced

Reduced ANP Emissions (GHG & Waste)
2 Objs

Contaminants related to roads/parking lots/cars are reduced
CONTAM 03

Objective needs refinement

Crosscutting Targets

Cultural Landscapes

Open Summit Areas

Air Resources

Visitors have a high quality experience
TP 10