

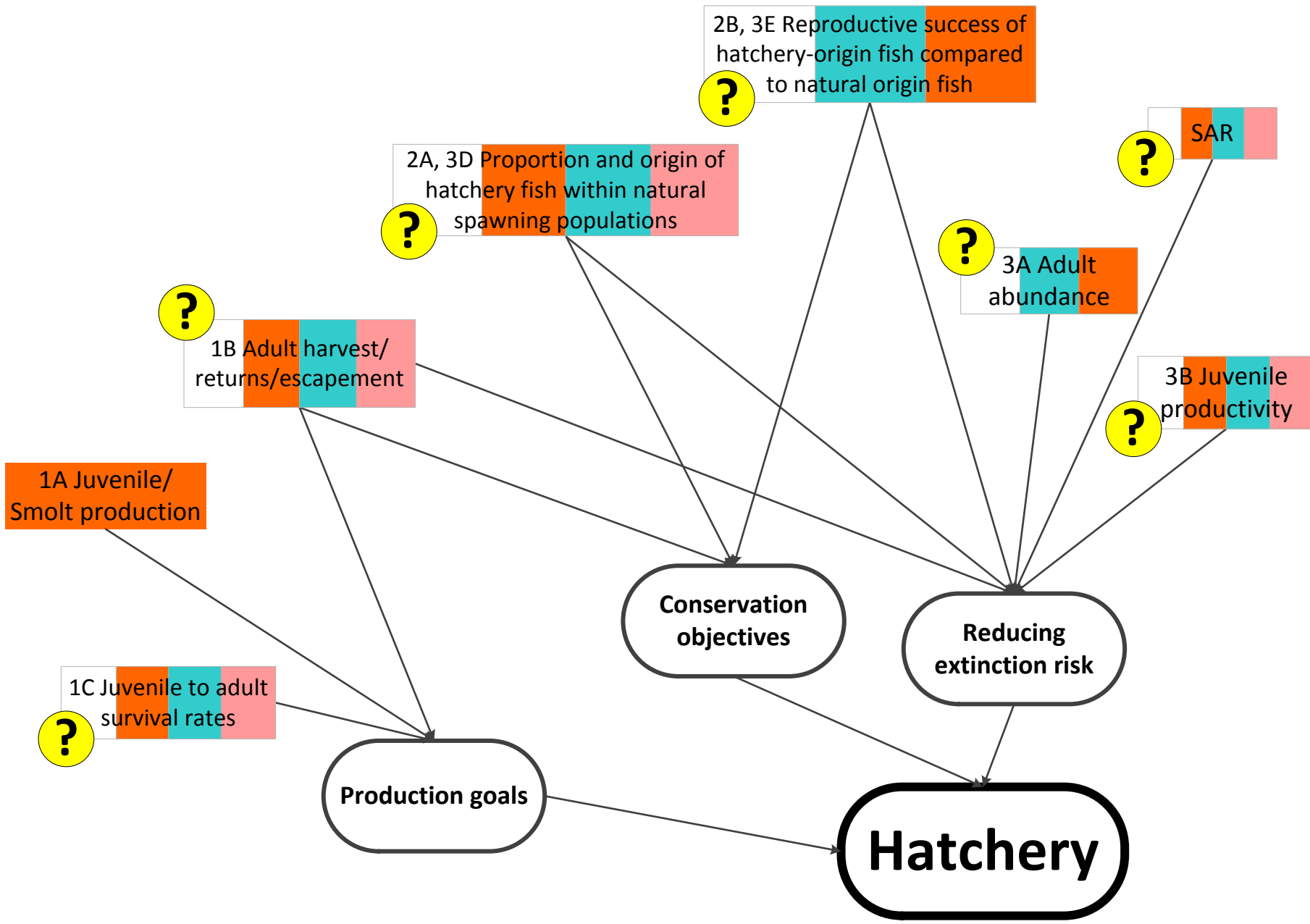


## Coded Wire Tag Elimination from Management Questions

	Total Indicators	Total Indicators Impacted	FW Program Indicators Impacted	Priority Data Source	Supporting Data Source	Future Data Source
Hatchery .....1	8	7/8	7/7			0
Habitat.....2	24	5/24	5/5			1/5
Hydro.....3	27	3/27	3/3			0
Harvest .....4	19	19/19	6/19			0
Population Status and Recovery .....5	11	10/11	6/10			0
Predation .....6	9	0	0			0

### Key

Acoustic	Otolith	 High or moderate importance to Council
PIT	Genetic	 Neutral or no importance to Council
CWT	Radio	No current technologies



2B, 3E Reproductive success of hatchery-origin fish compared to natural origin fish

2A, 3D Proportion and origin of hatchery fish within natural spawning populations

1B Adult harvest/returns/escapement

1A Juvenile/Smolt production

1C Juvenile to adult survival rates

3A Adult abundance

3B Juvenile productivity

SAR

Production goals

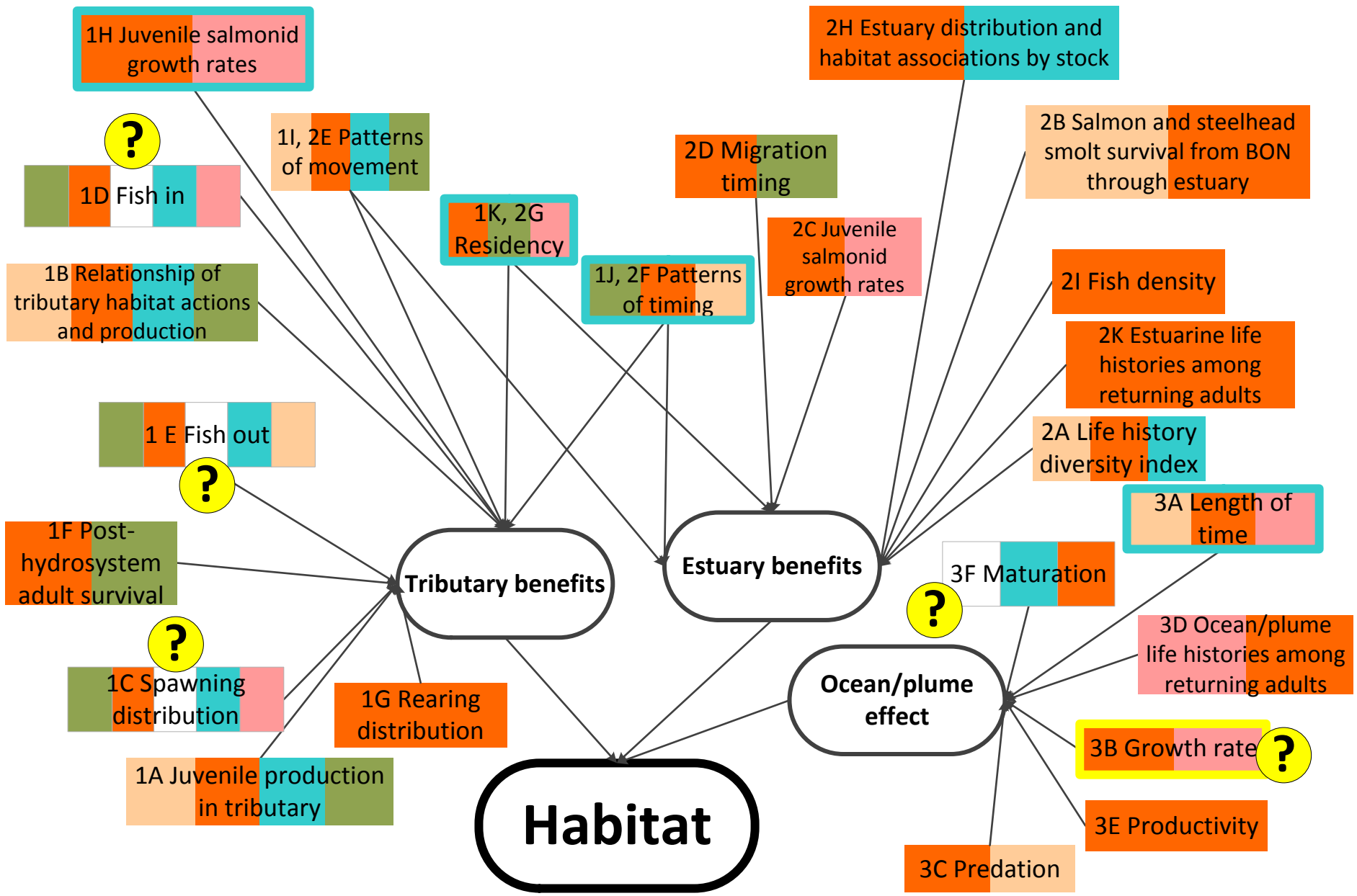
Conservation objectives

Reducing extinction risk

Hatchery

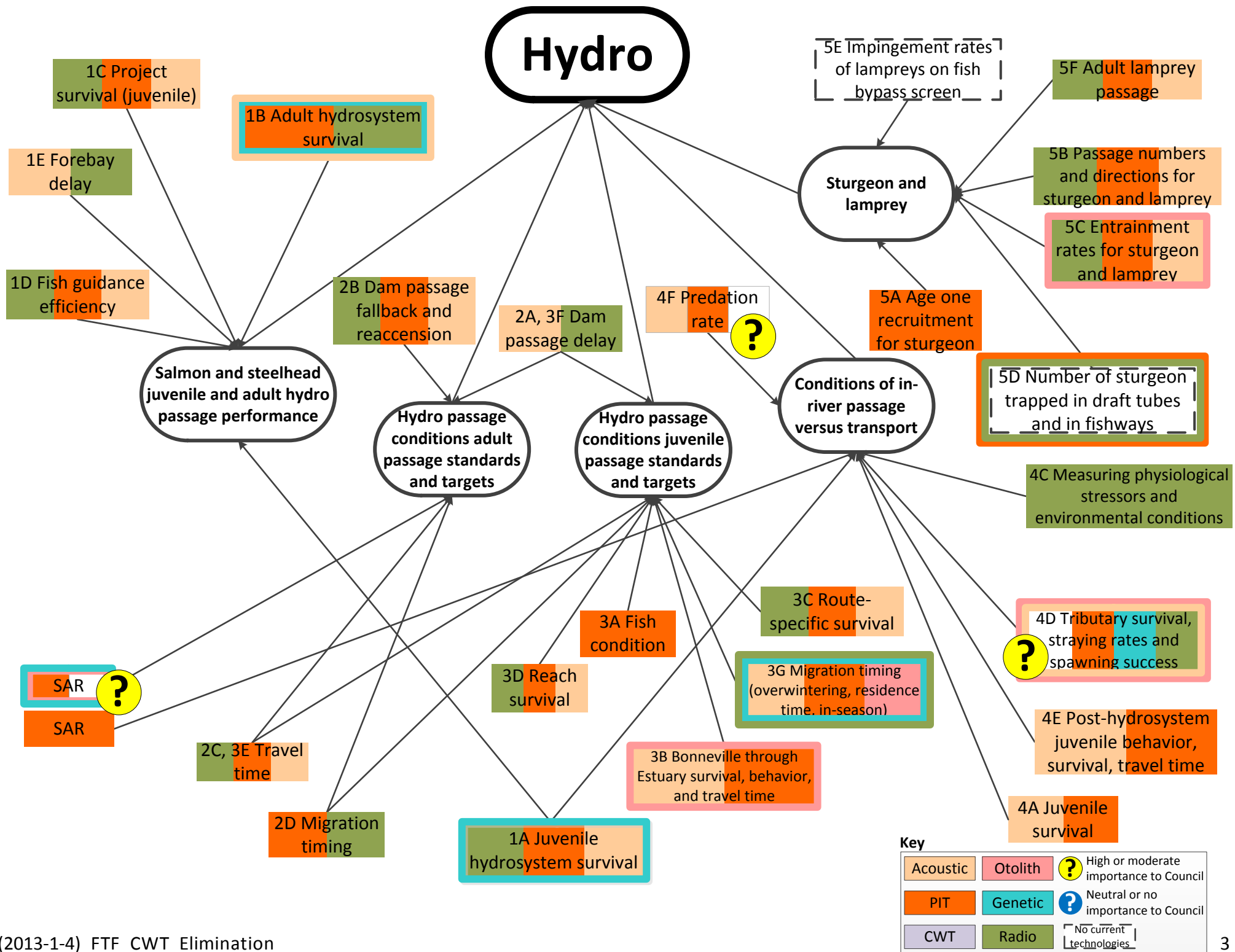
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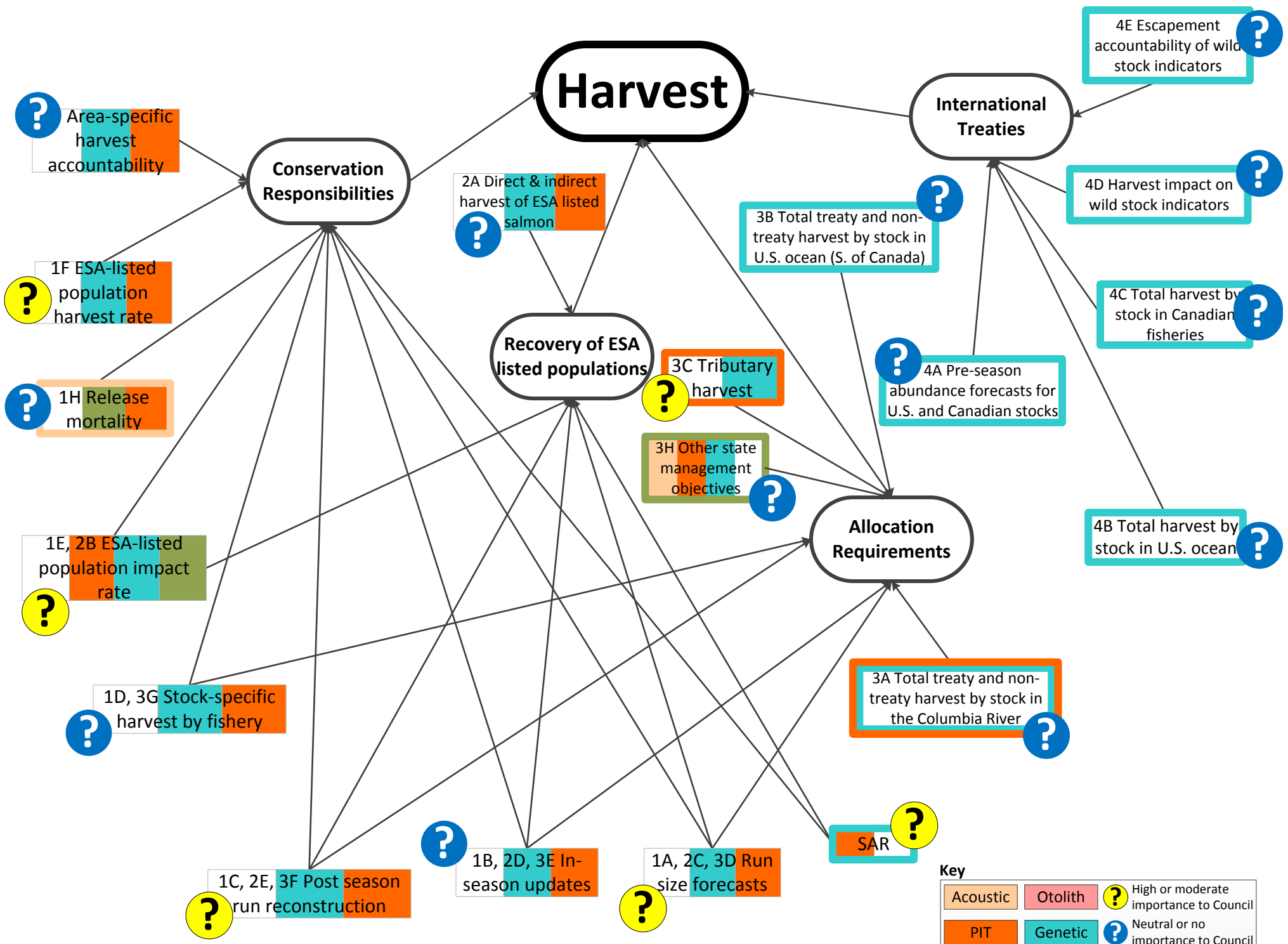
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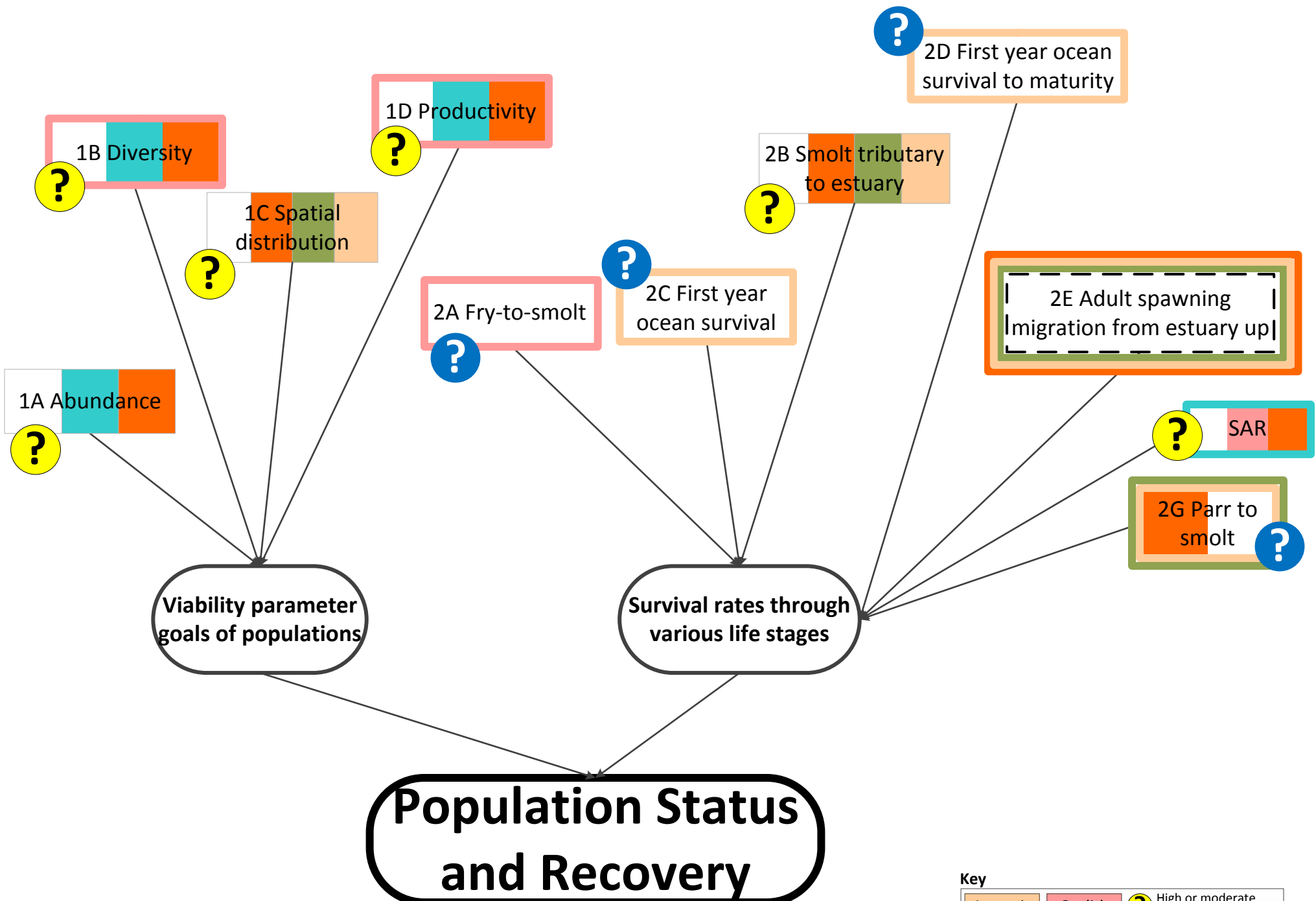


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# Predation

Survival rate improvements from predator management actions

Effect of alternatives/actions used to reduce the impact of predators

1A – Caspian tern predation rates on juvenile fish

1E – Northern Pikeminnow annual predation rate on fish

1C – Other combined avian predation rates on juvenile fish populations

1B – Double-crested Cormorant predation rates on juvenile fish populations

2A – Distribution and population size of Northern Pikeminnow in Columbia and Snake basins

1F – Other aquatic predator species

2B – Distribution and population size of other major fish predators in Columbia and Snake basins

2C – Annual exploitation rate of No. Pikeminnow removed in sport-reward program

1D – California and Steller sea lion predation rate on fish in the lower Columbia River

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