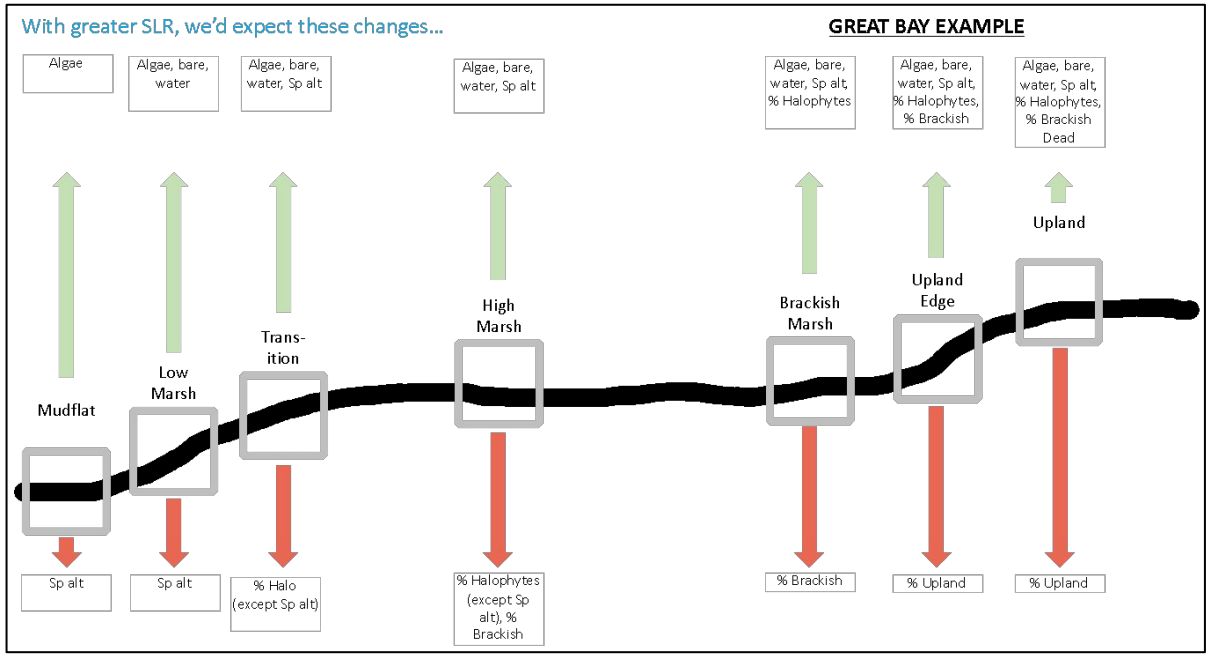
Ecotone Migration Index (EMI) Conceptual Model Exercise

Model plant community response to sea-level-rise across ecotones

Please create a conceptual model for your Reserve:

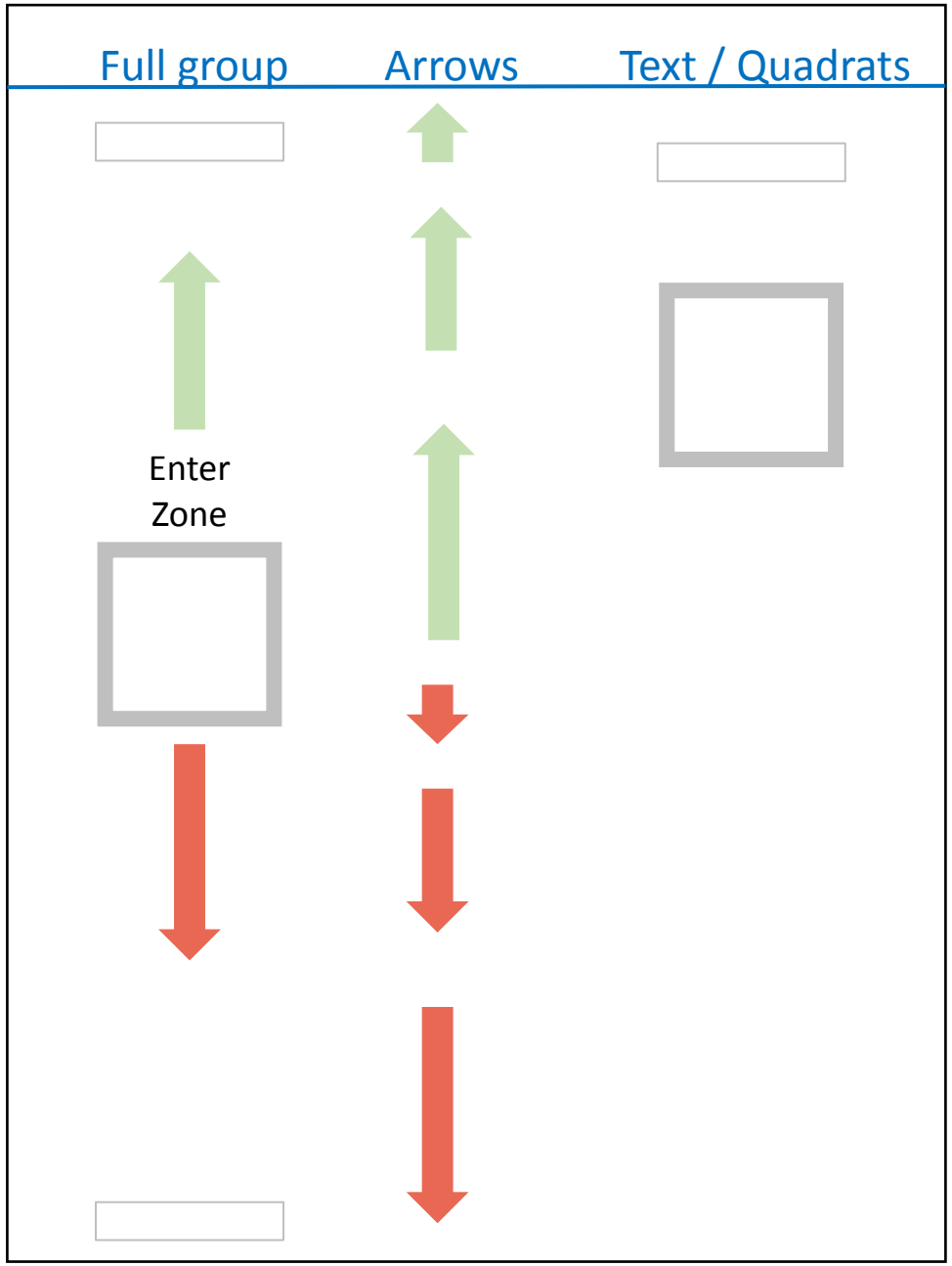
1. **Create your own** by either using the Template slide #3, or editing the Great Bay Example slide #4
2. Include all applicable **vegetation zones**
    1. A list of NERR **zones** is found on slide #2. Add in additional zones on your Reserve slide that are important for your site/dataset
3. Add in **plant community/abiotic responses** (↑ positive, ↓ negative) for each zone
    1. A list of **plant categories** is found on slide #2. Add in additional categories important to consider for site/dataset
    2. Feel free to use specific dominant species. Spell out any abbreviations in the speaker notes (see Great Bay Example slide #4)
4. Repeat for **multiple types of marshes** in your Reserve

NAMASTE
National Marsh Synthesis Team



Model Icons and Inputs

Icons for your Reserve Conceptual Model



National List of Vegetation Zones

Mudflat (M)
Seaward Edge (S) – transition of mudflat and low marsh
Low Marsh (L)
Transition (T) – transition of low and high marsh
Pools/Pannes (P) - unvegetated
High Marsh (H)
Brackish Marsh (B)
Upland Edge (UE) – transition of high marsh and upland
Dunes and Berms (DB)
Freshwater Tidal (FT)
Freshwater Non-tidal (FN)
Upland (U)

Plant Categories

Algae
Halophyte
Brackish
Freshwater
Upland

With greater SLR, we'd expect these changes…

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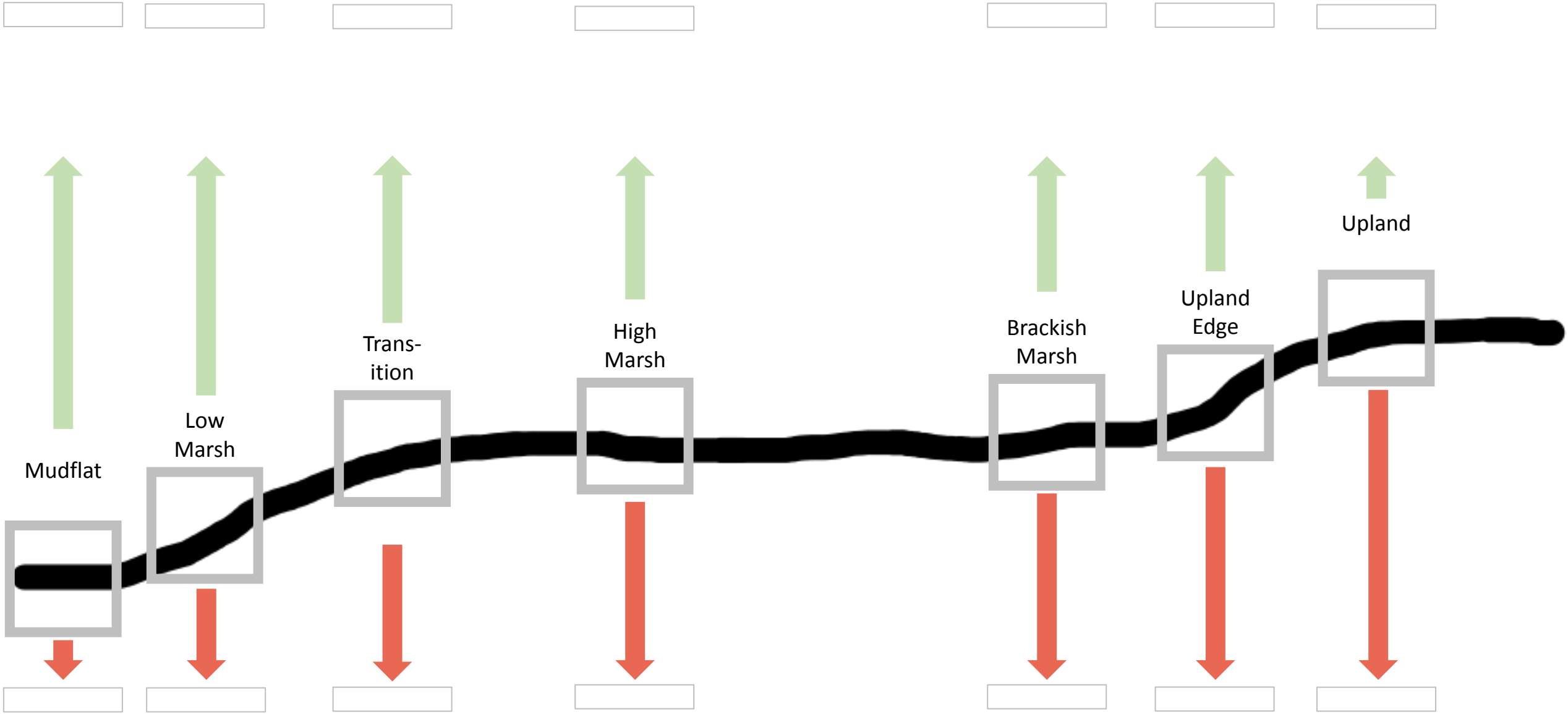

With greater SLR, we'd expect these changes…

GREAT BAY EXAMPLE