

# Adaptive Management and the Delta Plan



“Include a **science-based, transparent,** and formal **adaptive management** strategy for ongoing ecosystem restoration and water management decisions.” (Water Code §85308(f))

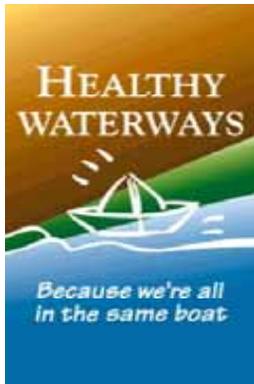
“‘Adaptive management’ means a framework and **flexible** decision-making process for ongoing **knowledge acquisition, monitoring,** and **evaluation** leading to **continuous improvements** in management **planning** and **implementation** of a project to achieve specified objectives.” (Water Code §85052)

# Adaptive Management Development

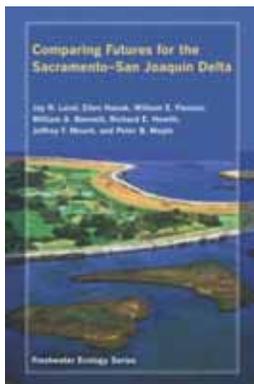


- **Ecosystem Management** (early 1990s)
  - Founded with the goal of **long-term sustainability** of **ecosystem structures and processes** (Christensen et al. 1996, *Ecological Applications*)
- **Adaptive Management** (late 1990s)
  - Embrace **uncertainty** and **risk** in natural resources management (Johnson 1999, *Ecology and Society*)
- **Adaptive Co-Management** (early 2000s)
  - Adaptive management with the **sharing of power and responsibility** among local user communities and resource management agencies (Folke et al. 2002, *Ambio*)

# Adaptive Management Definitions

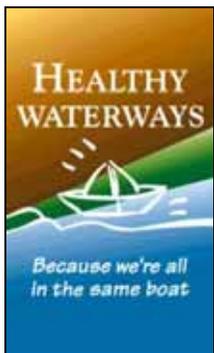
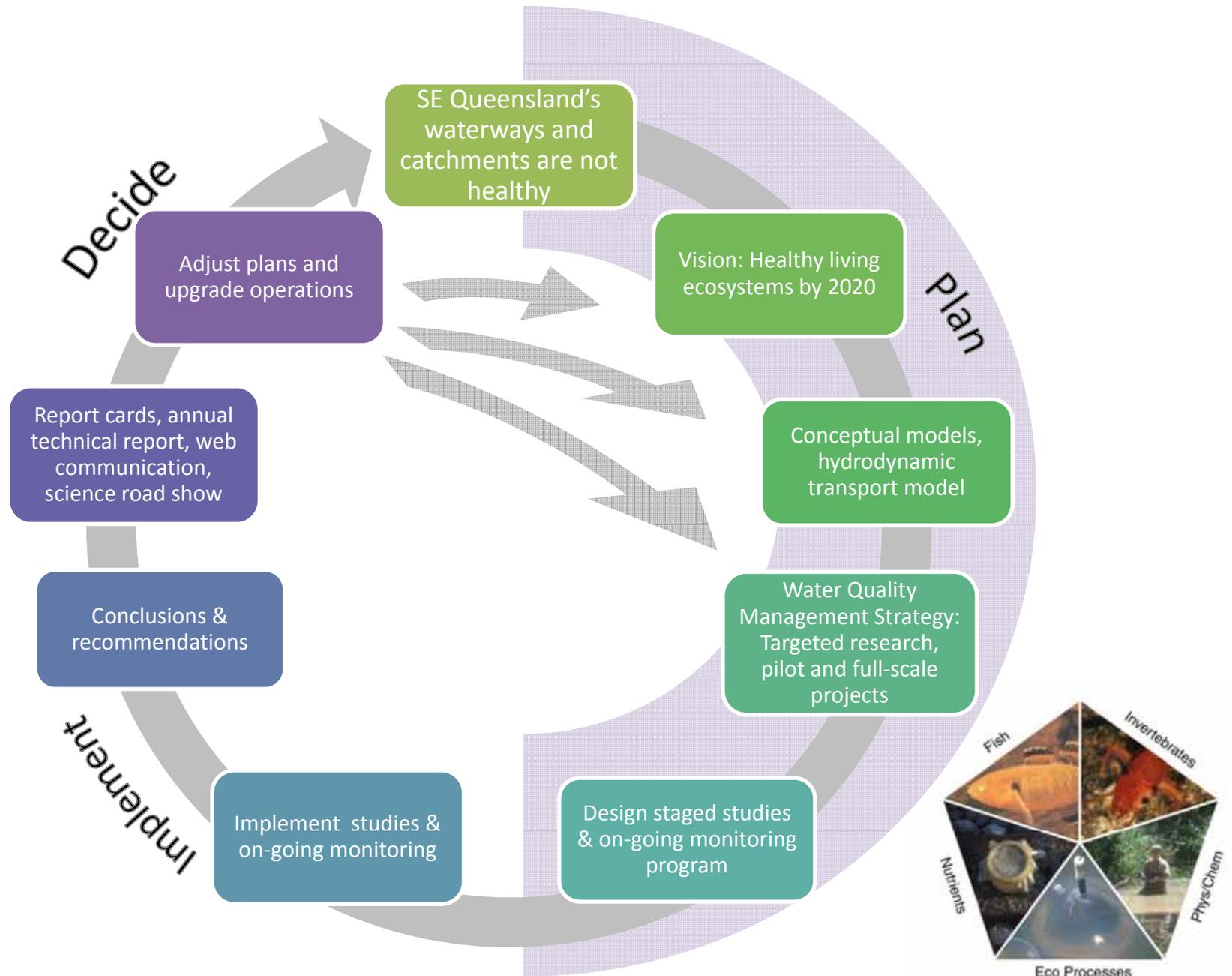


“[A] Framework of on-going **knowledge acquisition, monitoring, and evaluation** leading to **continuous improvement** in the identification and implementation of management” (Healthy Waterways Initiative 2005)

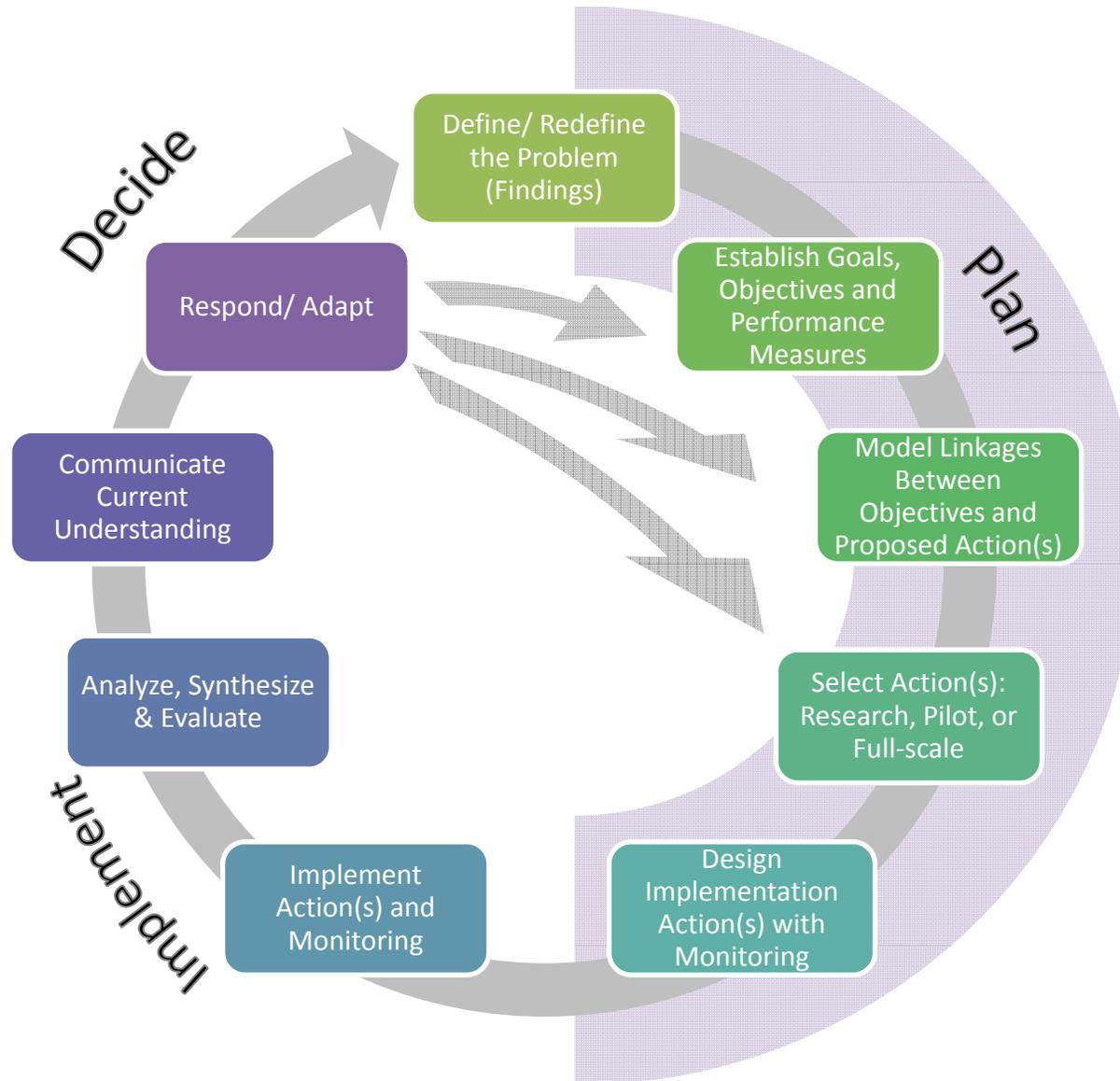


“A **flexible, learning-based** management approach in which natural systems are managed to ensure their **recovery and improvement**, while an **understanding** of how these systems function is developed to **raise the effectiveness of future management actions.**” (Lund et al. 2010)

# Healthy Waterways Initiative – Southeast Queensland



# Adaptive Management Framework



# Proposed Adaptive Management Governance Structure

