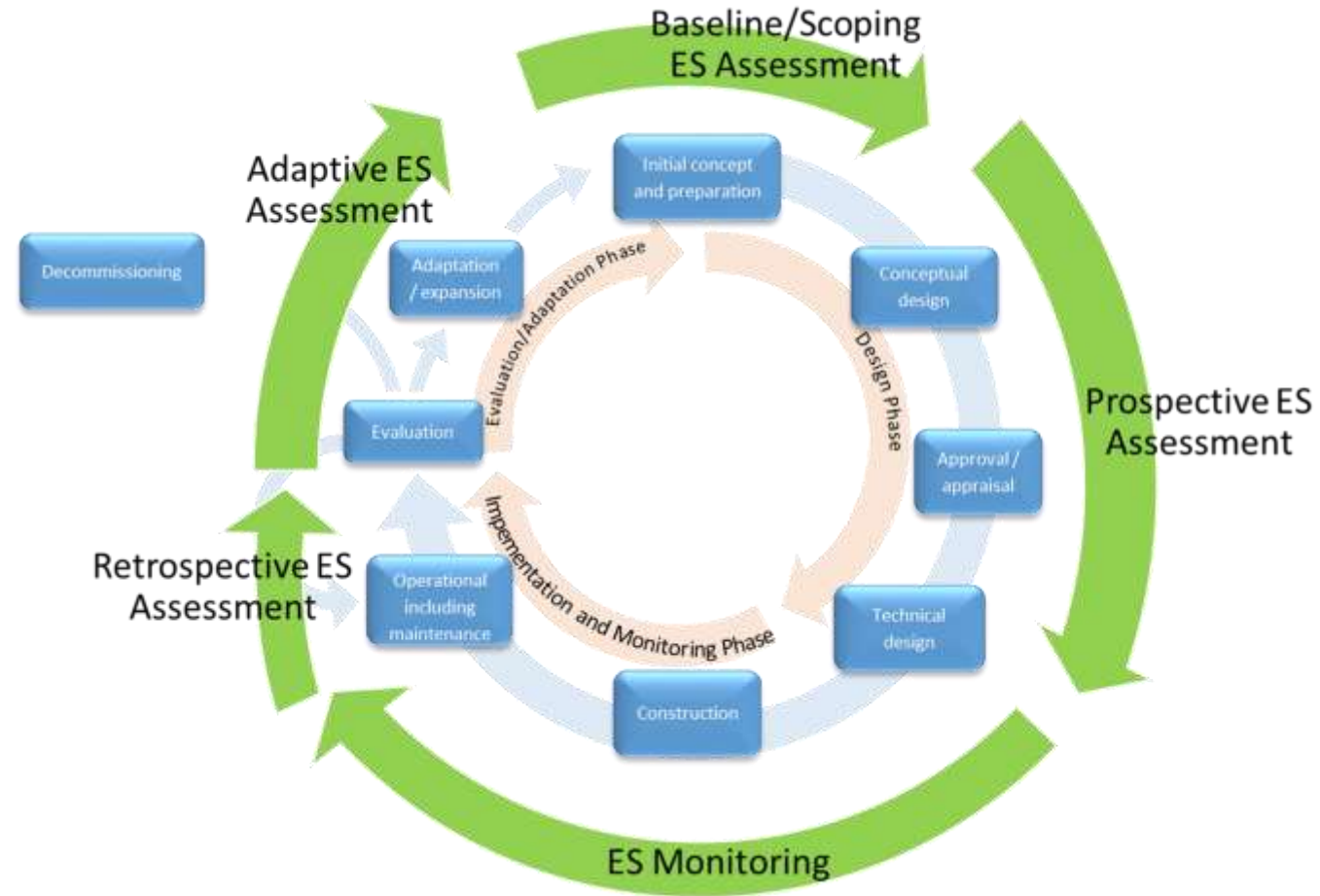


Applying Ecosystem Services for Waterborne Transport Infrastructure (WTI) Projects: Progress Report

Sabine E Apitz (in collaboration with entire WG195 team) (SEA Environmental Decisions, Ltd., Little Hadham, UK; drsea@cvrl.org)

- PIANC EnviCom WG195 has been tasked to provide a definition of Ecosystem Services and a specification on how to successfully apply ES in WTI projects
- Reviewing case studies and best practice, a report is being developed

ES Assessment	Project cycle steps	ES Question
Baseline/Scoping ES Assessment	Bridges Initial Concept to Conceptual Design	What are priority ES? What is their current status?
Prospective ES Assessment	Bridges Conceptual to Technical Design	How might ES be impacted by scenarios (how does one optimise)?
ES Monitoring	During Construction and O&M	What is the status of priority ES during and after?
Retrospective ES Assessment	Evaluation	Were ES impacted?
Adaptive ES Assessment	Adaptation/ expansion - bridges to adaptive project cycle	How might ES be affected by adaptive scenarios?
New assessment cycle	Decommissioning - WTI removal; return to nature or new use	ES Assessment to develop objectives and strategy (another full cycle, with differing use objectives)



ES Assessments differ depending on where one is within the project lifecycle and the questions ES are informing. ES concepts can help frame and guide decisions spanning a range of lifecycle steps, and provide a framework for engaging and communicating with a range of stakeholders