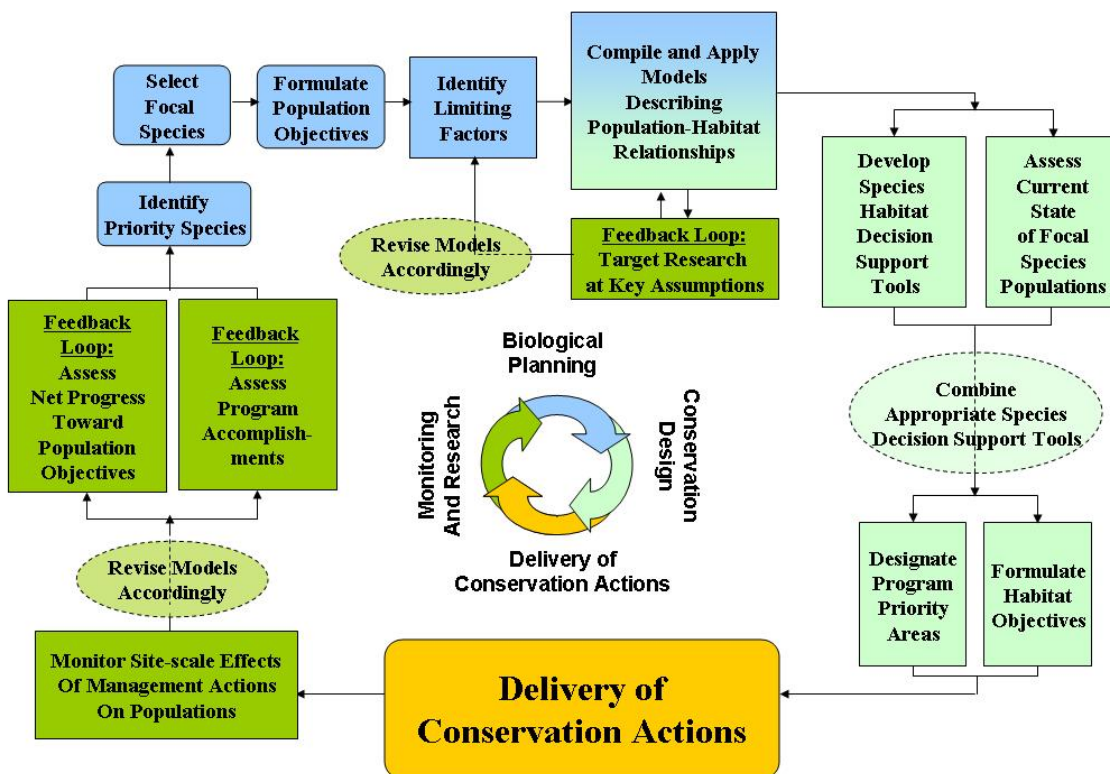


Strategic Habitat Conservation (SHC) Approach

Building SHC Capacity in the FWS

In the document, *Strategic Habitat Conservation*. 2006. Final Report of the National Ecological Assessment Team, the need was identified for a strategic plan that will build SHC capacity through workforce development. This brief outlines NCTC courses or topic areas that are of immediate relevancy in support of the SHC process. **Schematic of the SHC framework at a landscape scale. From Figure 2 (Final Report of the National Ecological Assessment Team. 2006).**

Within an Ecoregion



The following are primary courses of immediate relevancy to components of the SHC framework. Some courses may have prerequisite classes that are not listed below.

Process: Adaptive Management - CSP3176 Adaptive Management; FIS0200 Adaptive, Community-based Conservation. **Planning** - ECS3146 Strategic Conservation Planning Using a Green Infrastructure Approach; WLD2126 Refuge Comprehensive Conservation Planning; WLD2125 Habitat Management Planning. **Partnership Building** -OUT8110 Conservation

Partnerships; OUT8118 Conservation Partnerships in Action; OUT8127/8128 Public Participation & Informed Consent Part I and II; LED5122 Effective Facilitation; OUT5102 Introduction to Interest-Based Negotiation; OUT5136 Applying Collaboration to Environmental Issues

Identify Priority Species: CSP2101 Introduction to Conservation Biology; ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); CSP3171 Structured Decision Making

Select Focal Species: CSP2101 Introduction to Conservation Biology; FIS2310 Fish Ecology; FIS2221 Macroinvertebrate Ecology and Identification; WLD2119 Shorebird Ecology and Management; WLD2130 Waterfowl Ecology and Management; CSP2225 Native Bee Identification, Ecology, Research and Monitoring; ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); FIS4400 Multivariate Statistical Analysis

Formulate Population Objectives: ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); CSP4110 Population Viability Analysis I; CSP4140 Population Viability Analysis IV - Modeling Occupancy in Conservation; FIS2300 Fish Stock Assessment; FIS4300 Data Analysis II; CSP4350 Data Analysis III

Assess the Current State of Species Populations: CSP4350 Data Analysis III, FIS4304 Capture-Recapture Models; CSP4110 Population Viability Analysis I; CSP4140 Population Viability Analysis IV; FIS2300 Fish Stock Assessment; FIS2200 Fisheries Management; FIS2301 Advanced Fisheries Management

Identify Limiting Factors: FIS2310 Fish Ecology; FIS4300 Data Analysis II; ECS3149 Principles of Modeling; CSP4110 Population Viability Analysis I, II, III; CSP4140 Population Viability Analysis IV; FIS2300 Fish Stock Assessment; FIS2200 Fisheries Management; FIS2301 Advanced Fisheries Management; FIS3410 River Assessment and Monitoring (WH Level III); FIS4400 Multivariate Statistical Analysis

Compile and Apply Models Describing Population-Habitat Relationships: ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); FIS4300 Data Analysis II; FIS4400 Multivariate Analysis; CSP4110 Population Viability Analysis I; CSP4140 Population Viability Analysis IV; ECS3142 Principles of Habitat Assessment

Develop Species Habitat Decision Support Tools: TEC7111 GIS Overview; TEC7112 GIS Introduction; TEC7113 GIS Use for Wildlife Habitat Management; TEC7114 GIS Design for Natural Resource Lands Management; TEC7124 GIS Design for Fisheries Management; TEC7115 GIS for Regional Conservation Planning; TEC7134 GIS Vegetative Cover Mapping; TEC7135 GIS Remote Sensing Technology; FIS4300 Data Analysis II; ECS3149 Principles of Modeling; ECS3159 FWS/USGS

Structured Decision Making Workshops (Rapid Prototyping); CSP3171 Structured Decision Making

Designate Priority Areas: ECS3142 Principles of Habitat Assessment; ECS3105 Wetland Restoration and Enhancement; ECS3117 Habitat Conservation Planning; WLD2126 Refuge Comprehensive Conservation Planning; WLD2125 Habitat Management Planning; ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); CSP3171 Structured Decision Making

Formulate Habitat Objectives: ECS3142 Principles of Habitat Assessment; ECS3105 Wetland Restoration and Enhancement; ECS3117 Habitat Conservation Planning; WLD2126 Refuge Comprehensive Conservation Planning; WLD2125 Habitat Management Planning; ECS3149 Principles of Modeling; ECS3159 FWS/USGS Structured Decision Making Workshops (Rapid Prototyping); CSP3171 Structured Decision Making

Delivery of Conservation Actions: Most of the curriculum from CSP and CLM address this

Monitor Effects of Management Actions on Populations: FIS2321 Freshwater Biomonitoring Using Benthic Macroinvertebrates; FIS2300 Fish Stock Assessment; FIS4300 Data Analysis II; CSP4350 Data Analysis III; CSP4110 Population Viability Analysis I; CSP4120 Population Viability Analysis II; CSP4130 Population Viability Analysis III; FIS4304 Capture-Recapture Models; FIS3410 River Assessment and Monitoring (WH Level III); ECS3142 Principles of Habitat Assessment; ECS3105 Wetland Restoration and Enhancement;