Sussex County Projects
Coastal Communities
Enhancement Initiative (CCEI)
Spring 2007: Projects

1. CaveBasin: Impervious Surface
2. SussexSchool: Fiscal Impacts
3. SussexFlood: Retiree Evacuations
4. Bayside: Tutorial
5. SussexAllocate: County Build-out
Impervious Surface Analysis

CaveBasin
Impervious surface analysis based on:
• existing land use,
• built conditions (structures and roads)
• build-out.
Summarized as charts
CaveBasin

[Map of CaveBasin showing different land uses like Medium Residential, Municipal, and General Residential]

[Bar chart showing the percentage of impervious areas in different years: 1992, 2002, 2010, and Current Zoning & Ag10 Ac with bars for 7 - Excellent and 30 - SubPar]
School Capital Costs

Capital Facilities for Indian River School District
Sample of Fiscal Impact for State Planning Office
New School Facilities and Costs
Based On Current Enrollment Trends.
Assumptions for management strategies
• New Schools,
• Portables and
• Enrollment area redistricting
Anticipates CADSR Enrollment Projections
SussexSchool

Elementary Schools
Color Green = More Student/ Household Red = Lower Percent = Recent Annual Growth Rate

Growth Strategy
• Redistrict & Portables
• New School & Portables
• All Portables
Flood Risk Methodology

- Assign flood risk for each building
- Calculate Retirees per household-Census
- Get density to each building
- Summarize results for study area
- Vary assumptions
  - Flood Elevation
  - Over 85
  - Over 65
  - All Population
SussexFlood

• Base Map
• Same Data
• 85+ per house
• Flood Elevations
• Note overlaps
SussexFlood: Evacuate Population

Population in flood prone areas: 3,683

Total Population: 5,412

- Flood: 32%
- Non-Flood: 68%
SussexFlood: Evacuate Retirees

Retirees in flood prone areas. Slider bar and charts linked. Settings on sliderbar.
- 0 = 500 year
- 1 = 1' of 100 year
- 3 = 3' of 100 year
- 8 = 8' of 100 year
CommunityViz Training

Introductory Training with 20 page Tutorial
Bayside project in southeast Sussex County
For GIS Users and Planning Professionals
For 3-6 Hour Session with Incremental Modules

- Build-out: development capacity of land use plan,
- Common Impacts: standardized impact charts,
- Suitability: prioritizes buildings based on proximity,
- TimeScope: phasing plan based on suitability
- Google Earth: 3D visualization.
Training: Build-out Wizard
Training: Suitability Analysis
Training: Google Earth
Land Use Allocation

Perform Build-out on Zoning
Estimate Dwelling units by Census Block
Apply County wide growth projections
Allocate Growth to Forecast Development
Based on Proximity to:
• Major Roads,
• Atlantic/Delaware Bay Shoreline,
• Employment Centers, and
• Urban Boundaries.
Build-out: SussexAllocate
Land Use Allocation
SussexAllocate: Visualization

2030
Delmarva Atlantic Watershed Network
Maryland Coastal Bays Program
Estimate Build-out and Water Impacts
• Worcester (MD),
• Accomack (VA),
• Sussex (DE) and
• Northampton (VA) counties.
DAWN-Sussex County

- Build-out
- Water Nutrients
  - Built Land Cover
  - Conserved Land Cover
  - Residential/Non-Res
- Resource Impacts
  - Green Infrastructure
  - Flood Risk
  - Wetlands