Town of South Kingstown Build-Out Tool

South Kingstown, Rhode Island



Assumption Panel with Slider Bar

BuildOutAnalysis Graphical Tabular Elle Edit Yew Insert Selection Iools Wi Scenario Active (Base Scenario) ▼ 🖾 ⋈ ⋈ 📑 D # ■ 8 % ® 6 × ∞ · **†** 1:93,626 @ @ @ B B B B B B B Skebulder 30 ▼ 0 10000 00 10,000 at. Active (Base 🔻 🗘 15C 20000 i000 20,000 s.f. 25C 30000 5000 30,000 s.f. NumberNewUnits 35C 40000 i000 (a) 40,000 s.f. □ ParcZonDYN R40 MinLotSize 4500 80000 000 80,000 s.f. R80 MinLotSize 1000 200000 100 200,000 s.f. R200 MinLotSize 500 10000 1000 10,000 a.f. CW MinLotSize NumberNewPeople 12,498 Modelbuilder ActualNoUnits **(P)** 0 29637 1000 29,637 peop ActualNoPeople 10 ⊟ □ <u>₩</u> 4-j-PersonsUnit Mi ⊟ ☐ HighWT <u>™</u> √-1 ٧ YearsToBuildOut 8 D 1 7.71 15 \(\sqrt{15}\) ☐ ☑ Landuse LANDUSE **>** <u></u> ✓-" - >| ® <1− SMD 535 units • 0 160 30 -Z 160 unit NumberPeopleTot <u>NoUnitsYear</u> 3 :: 0 Yes C No NonResBldg Yes No 200RCoast 100 - U HighWaterTable Ø <1−</p> 100 % N EfficiencyFactorDev Drawing ▼ ト ③ ② □ ▼ A ▼ 🖾 🙋 Aria ▼ 10 ▼ B / U A ▼ 🐧 ▼ 🛂 ▼ • ▼

Client:

Town Of South Kingstown

Co-Project Directors: Michael Kwartler

George James

Completed:

2005

In 2005, the Town of South Kingstown, Rhode Island engaged the Environmental Simulation Center ("ESC") to develop a tool to show ultimate town build-out under current zoning densities.

The ESC developed the model in the Scenario 360 extension of CommunityViz™ so that the model integrated with the Town's GIS. Designed to be automated, so that no "hand-changes" were required, the system was still flexible and extensive, taking into account current development, wetlands, coastal buffer zones, high water tables, existing non-conforming uses and a variety of other assumptions. Assumptions could be turned on or off or adjusted via a "slider bar" so the Town could simulate the effect of policy changes on the results of the Build-Out Model before they were actually changed. The design of the model was developed working closely with Town staff to understand what they considered to be important to how development within the Town actually occurred.

The ESC developed and implemented the model, migrated it to the Town's information systems, trained Town staff and developed user documentation.