

Four Evacuation Scenarios

- Individual evacuation for each major area
- All three areas evacuated simultaneously



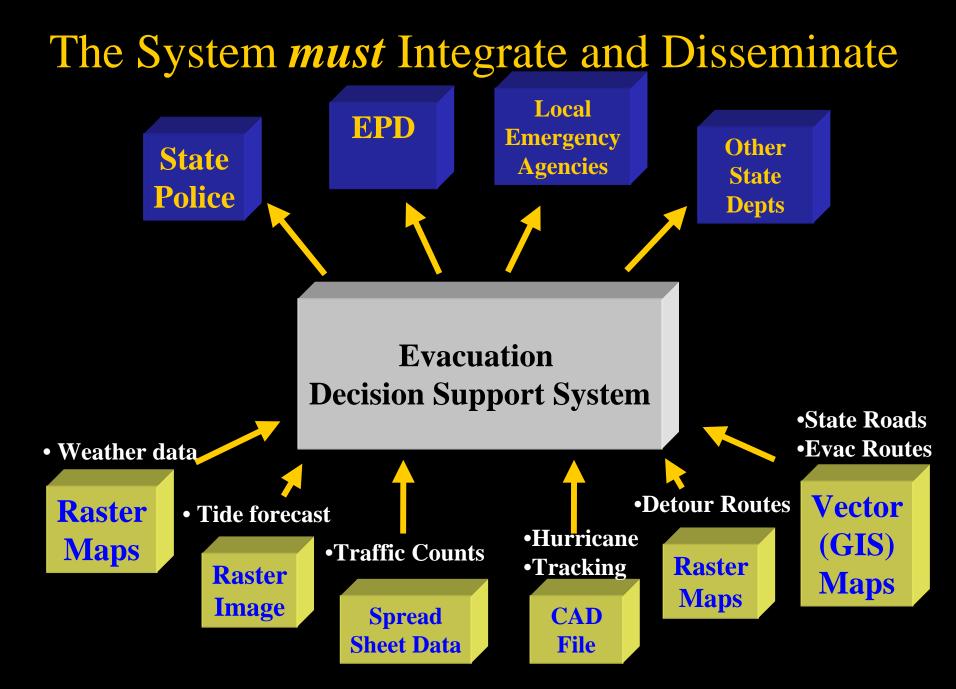
June 1999

- SCDOT's Emergency Preparedness Division (EPD) investigated technology *time critical*
- The System must:

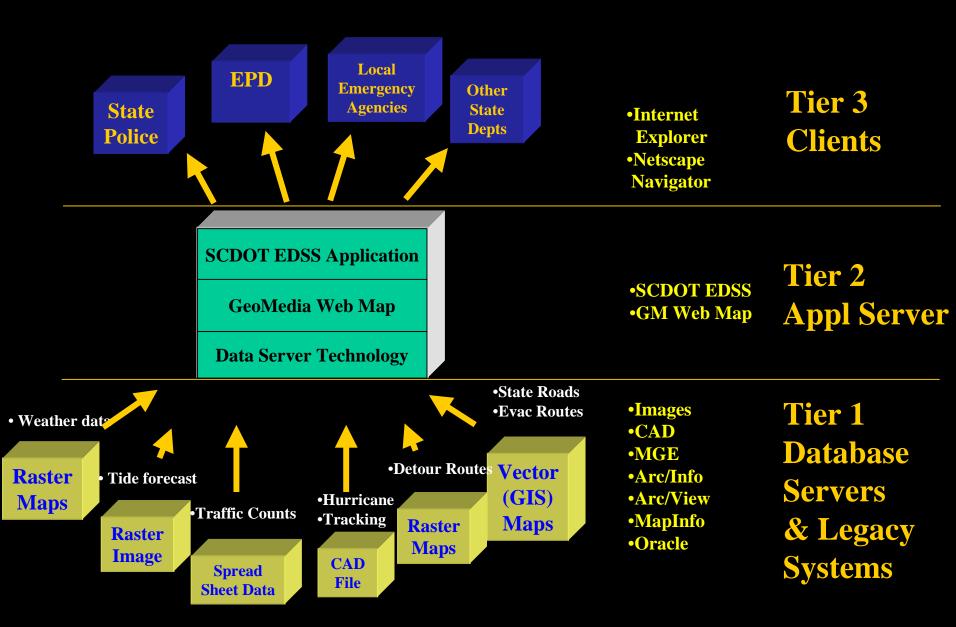
EVACUATION ROUTE

- Provide access to all appropriate departments
- Provide efficient integration and display of:
 - Maps of evacuation routes
 - Real-time traffic counts
 - Weather conditions
- Require little or no training
- Provide access to multiple legacy systems changing these systems was not an option





The System is 3 Tier





Standard Layout / Full Page Map

One-time Setup for Internet Explorer Download the Netscape Plug-in

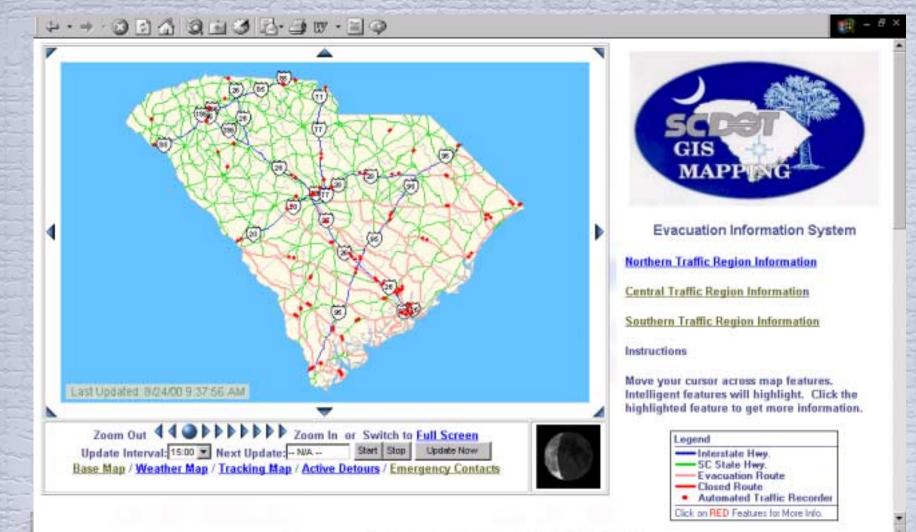
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Please Login:

User ID:		
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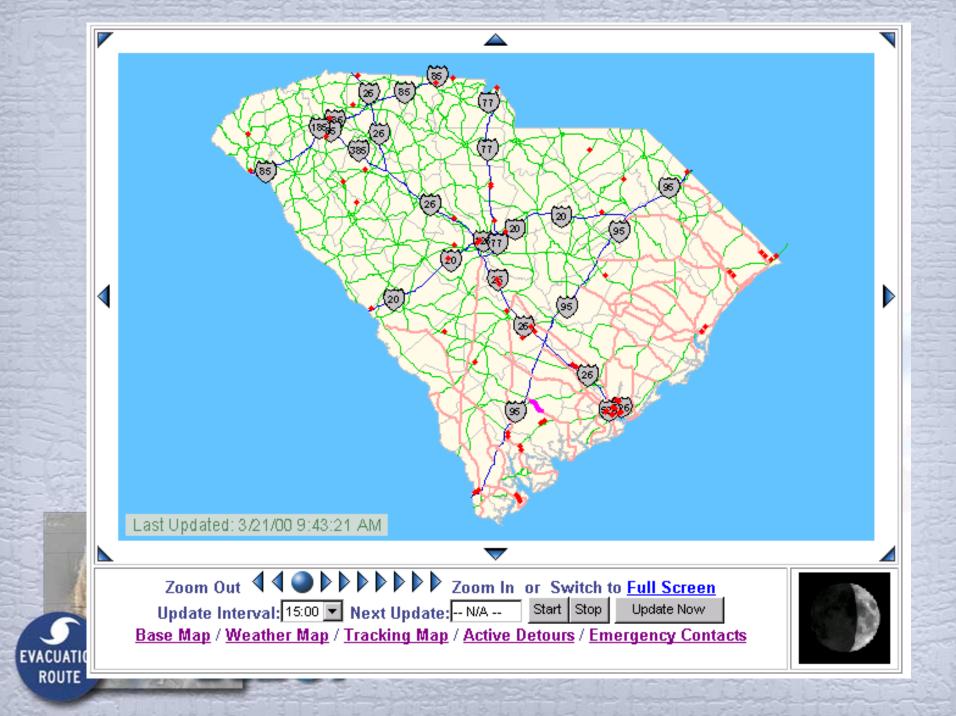






Emergency Contacts - Last Updated: 2/1/00 3:28:36 PM

Bill Beck, Chief of Data Services (803) 737-1468 Stacy Eargle, Transportaion Planner III (803) 737-1673 Rick Abbott, GIS Manager I (803) 737-3103 Angela Hance, Assistant Chief of Data Services (803) 737-1456 Donald McElveen, GIS Manager I (803) 737-1677 Fax (803) 737-1858



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26 95 US-278 E / ATR #64 95 Zoom Out

Update Interval: 15:00 Next Update: -- NA -- Start Stop Update Now Base Map / Weather Map / Tracking Map / Active Detours / Emergency Contacts Evacuation Information System

Southern Traffic Region Information

Instructions

Move your cursor across map features. Intelligent features will highlight. Click the highlighted feature to get more information.

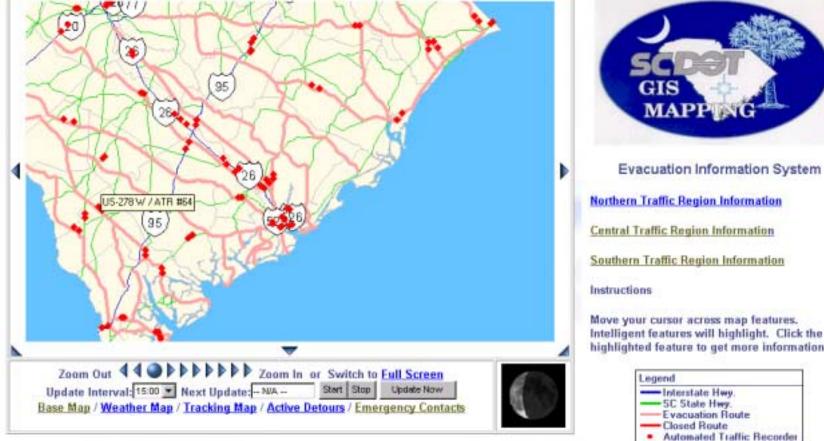
ſ	Legend	
l	-Interstate Hwy.	
	SC State Hwy. Evacuation Route	
l	- Closed Route	
	 Automated Traffic Recorder 	
	Click on RED Features for More Info.	

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	Date		1	2	3	- 4	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	8/17/00	Thu	27	10	7	10	20	73	159	169	139	151	160	206	261	223	186	274	249	263	224	151	117	97	65	57	3297
-	8/18/00	Fri	27	17	12	13	17	55	154	167	140	143	****	208	230	210	217	314	307	306	266	199	131	98	95	80	3405
	8/19/00	Sat	-47	17	20	23	34	69	49	84	79	114	186	222	207	214	201	170	184	217	195	187	158	125	121	103	3027
	8/20/00	Sun	-45	21	15	15	14	18	26	35	60	103	168	156	179	189	202	206	211	208	170	101	135	91	63	71	2563
1	8/21/00	Mon	22	10	15	19	20	80	101	102	159	153	105	182	100	163	185	243	242	273	187	145	105	76	47	62	3030
	8/22/00	Tue	18	13	2	10	20	81	150	177	147	153	144	162	170	174	158	223	217	209	198	140	138	103	50	47	2907
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US-278 W Hampton Co. (W of the city of Hampton)

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Southern Traffic Region Information Move your cursor across map features.

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EVA RUUIL

Evac Routes - Traffic Counters

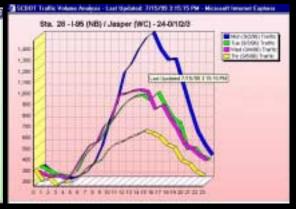
Sta. 28 - I-95 (NB) Jasper (WC)

Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Mon (8/26/96) Traffic	244	190	204	176	157	200	374	431	485	579	697	767	867	847
Tue (8/27/96) Traffic	248	229	182	200	189	238	380	469	494	611	692	777	821	890
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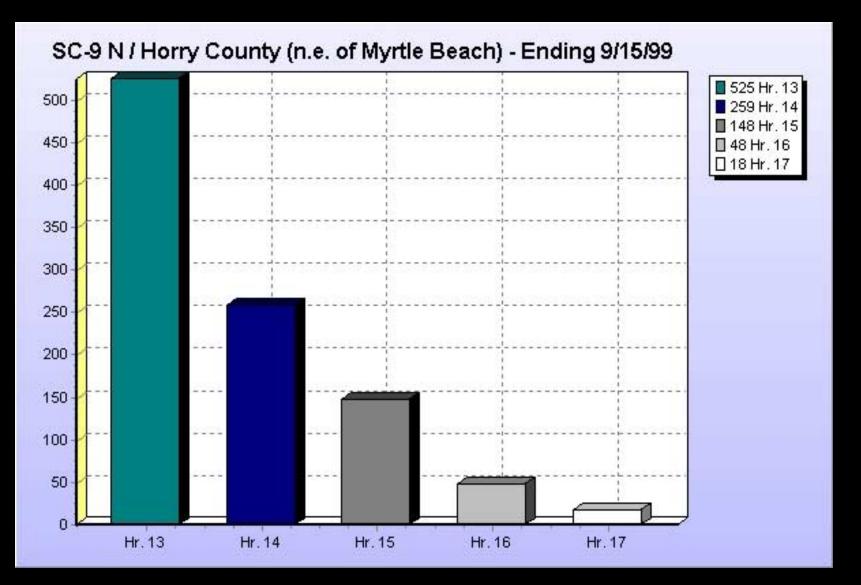


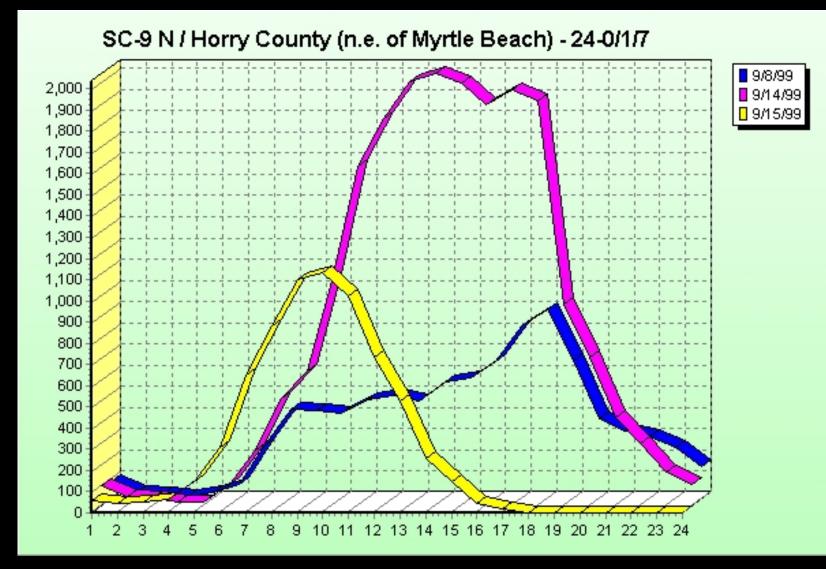


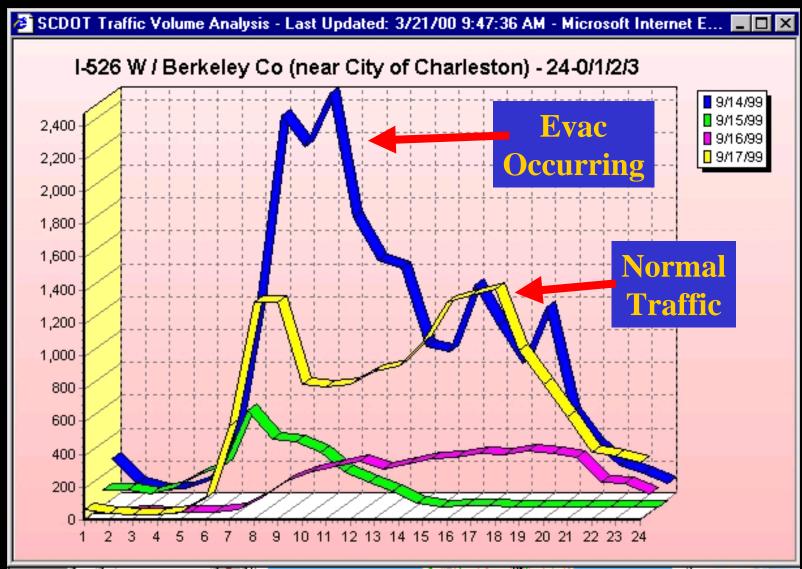
1 week ago



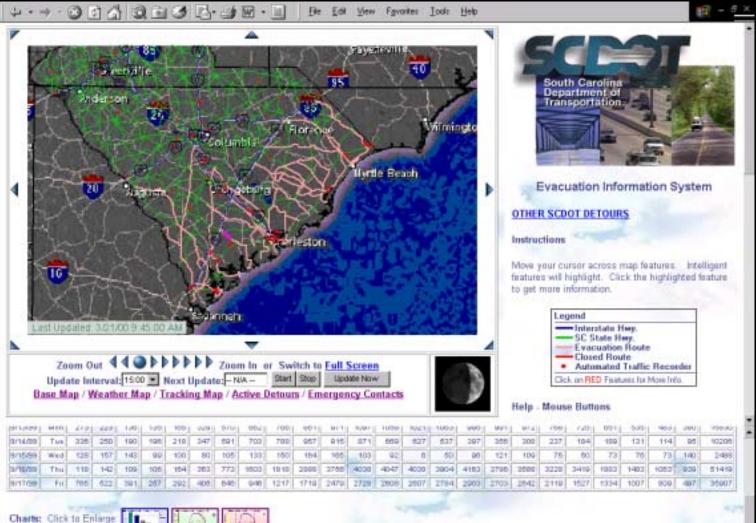
Last 4 days





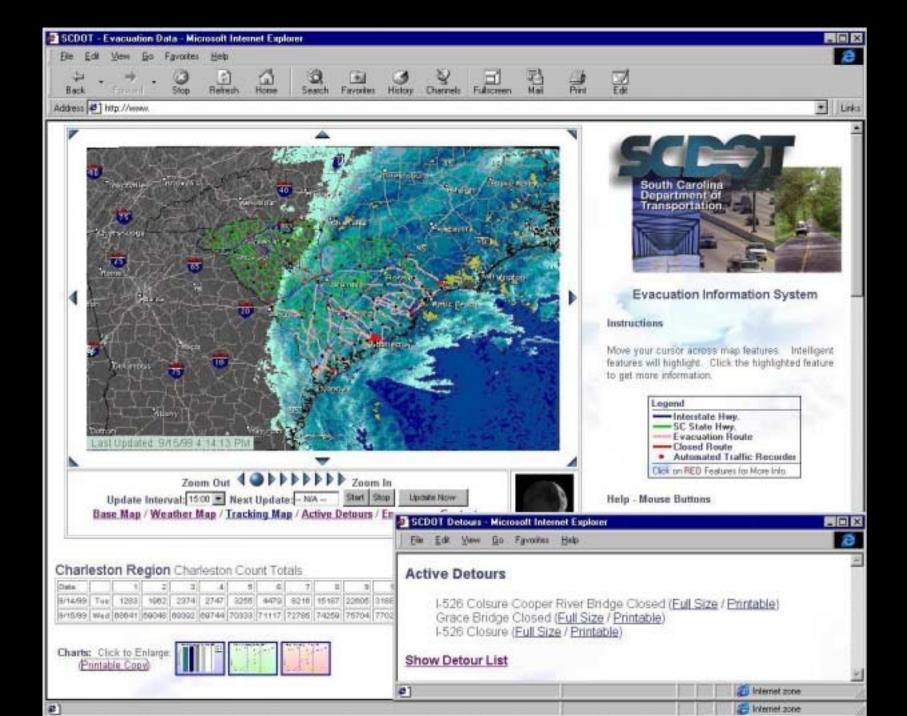


Weather Map – Auto Update – Tide Forecast

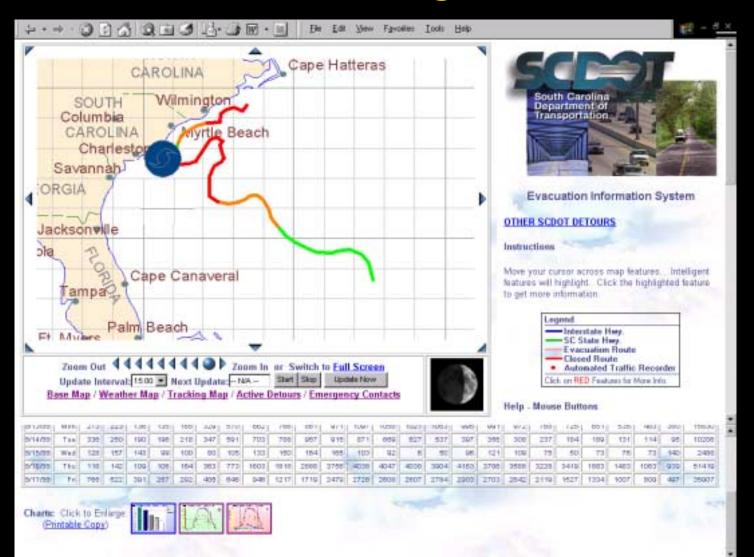


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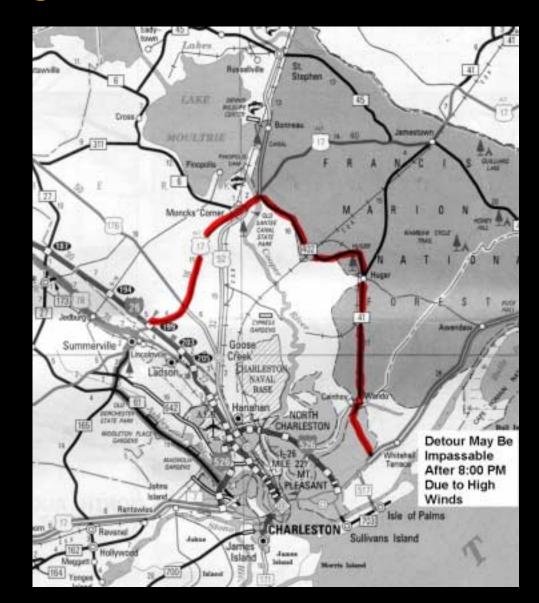


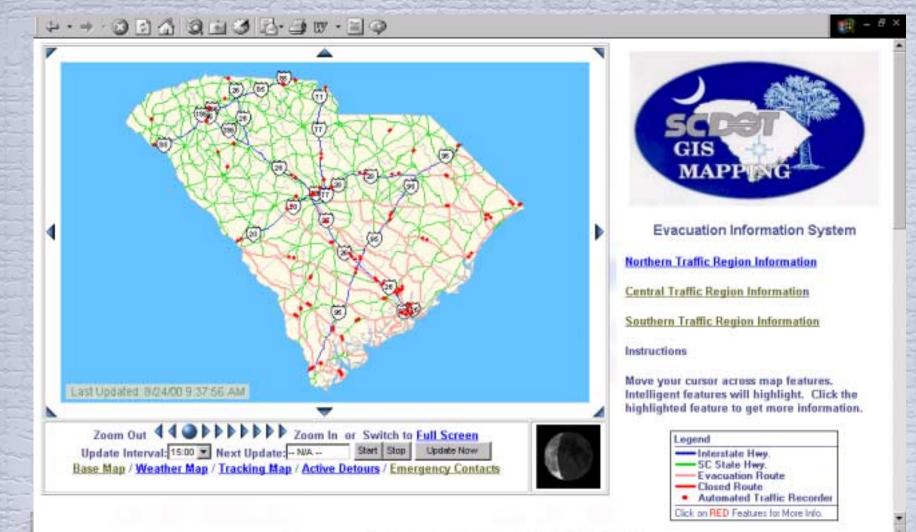


Hurricane Tracking Chart - CAD



Flooding Detours – Scanned Images





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FILE DATE:	8/23/00	Speed Limit:]	Site:	35			
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2.8%	56	Speed %-			1.3%	1.3%	12.7%	65.8%	19.0%						
	138	Lane 3-4 WB-				3	32	94	9						ŀ
4.9%	53	Speed %-				2.2%	23.2%	68.1%	6.5%						
1-2 AM	60	Lane 1-2 EB-				1	8	38	13				2		
2.1%	56	Speed % -				1.7%	13.3%	63.3%	21.7%						
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2.8%	53	Speed %-					35.1%	59.7%	5.2%						ŀ
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	42	Lane 3-4 WB-					16	23	3						
1.5%	52	Speed %-					38.1%	54.8%	7.1%						
3-4 AM	48	Lane 1-2 EB-					11	27	10				4		
1.7%	55	Speed %-					22.9%	56.3%	20.8%						
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SCDOT EDSS - Results

- Access/information dissemination goals met!
- Data integration goals met!
- Integration to legacy systems goals met!
- No training required goals met!
- SCDOT Very Pleased with results see demo at: <u>http://maps.intergraph.com/sc</u>
- SCDOT continuing work to improve the system
- Contact SCDOT GIS Manager for more info:
 - **Don McElveen** mcelveende@dot.state.sc.us
 - Intergraph Contact:
 - David Kingsbury djkingsb@intergraph.com



State TMC



District TMC





Closed Circuit Television Cameras

CCTV

Images will be transmitted to SCDOT, SCDPS, EPD, and the Governor





CMS Changeable Message Signs



HAR Highway Advisory Radio



EVACUATION

Vehicle Speed Detectors & Counters

VSD

Temporary count sites will be accessed by cell phones





Thank you for attending!





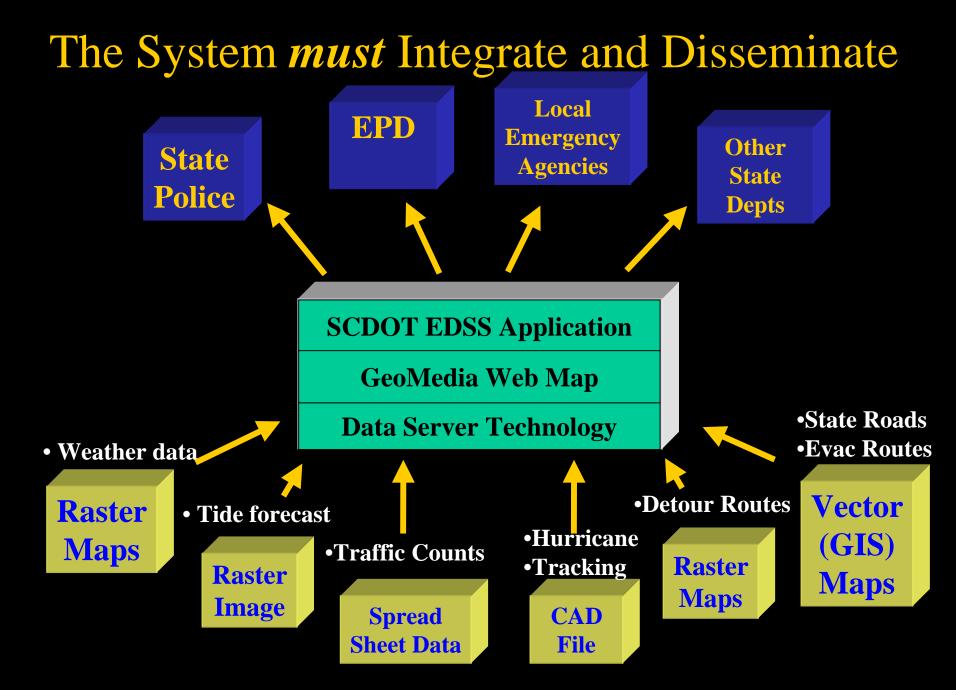




EVACUATION ROUTE







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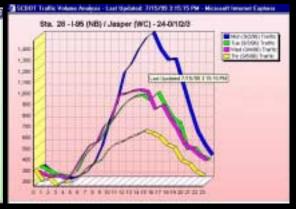
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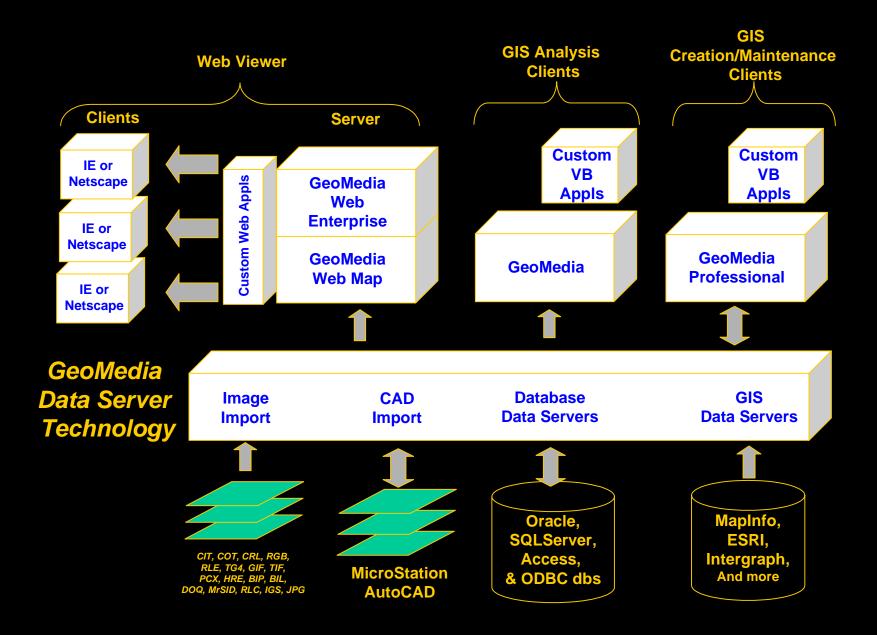


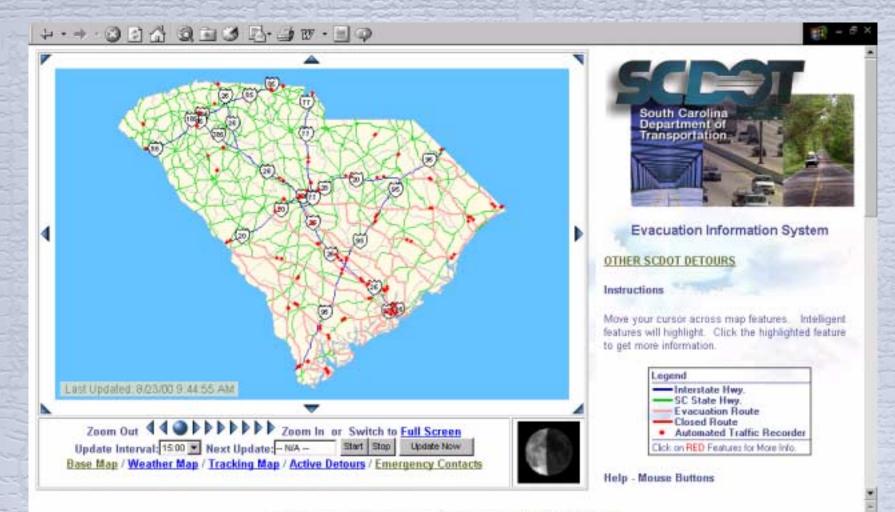
Last 4 days

September 1999: Hurricane Floyd

- "As millions fled the wrath of Hurricane Floyd, the South Carolina Department of Transportation relied on Web-based smart maps to monitor the largest evacuation in U.S. History." GeoInfo Systems Nov 99
- SCDOT was prepared this time

GeoMedia - Product Architecture





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 Rick Abbott, GIS Manager I

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 (803) 737-3103

EVAC

ROUTE

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