

Sustainable Communities Calculator

Presentation

by

Harry Reed

to

13th Annual New Partners for Smart Growth Session

Emerging Fiscal Impact Tool Highlight the

Economic Consequences of Development Decisions

February 14, 2014



Presentation Topics

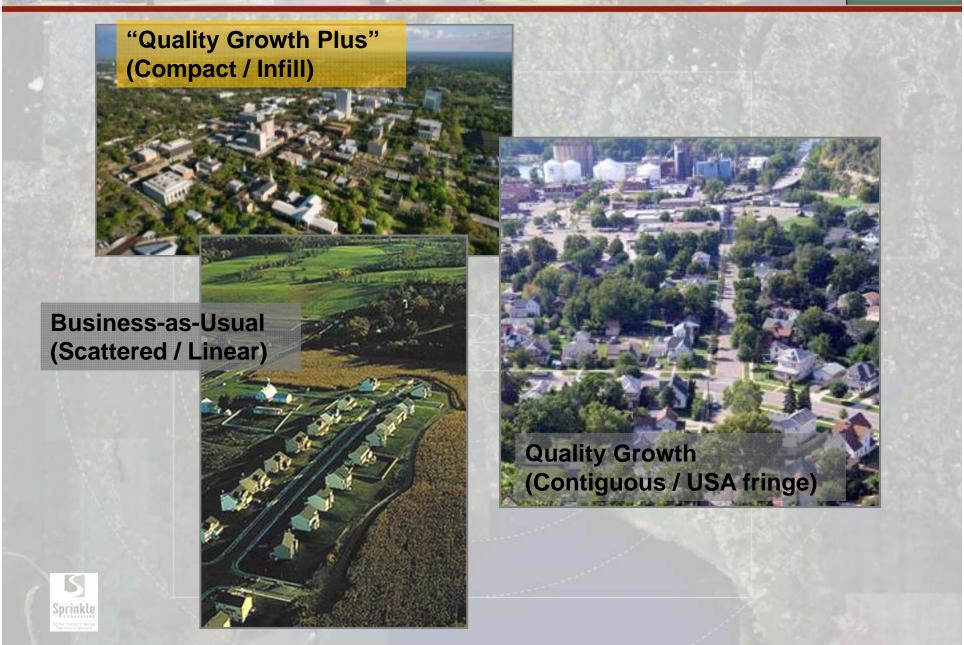


- 1. History & Background
- 2. Phase II Calculator Development
- 3. Significant Factors Affecting Costs
- 4. Tool (Computational Engine)
- 5. Example Calculations



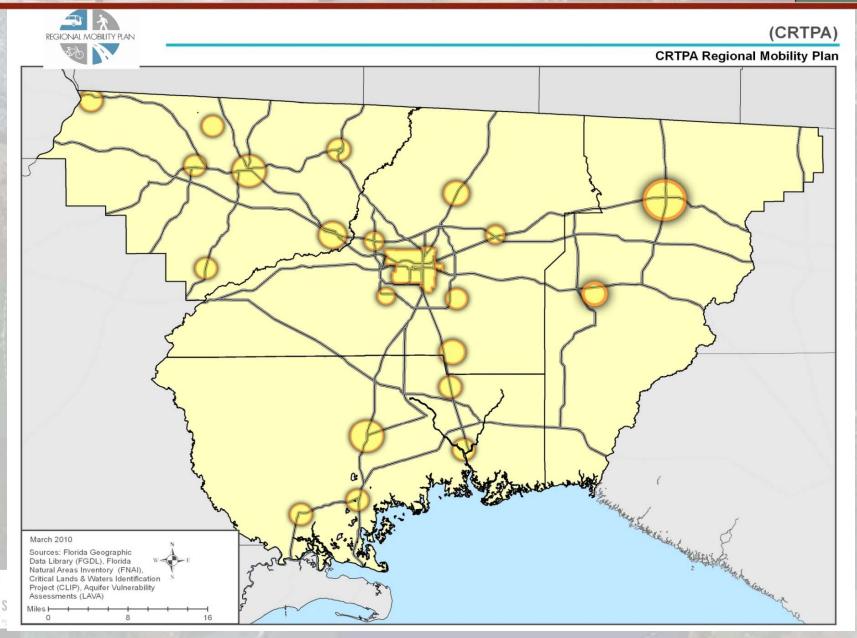
RMP Development Scenarios





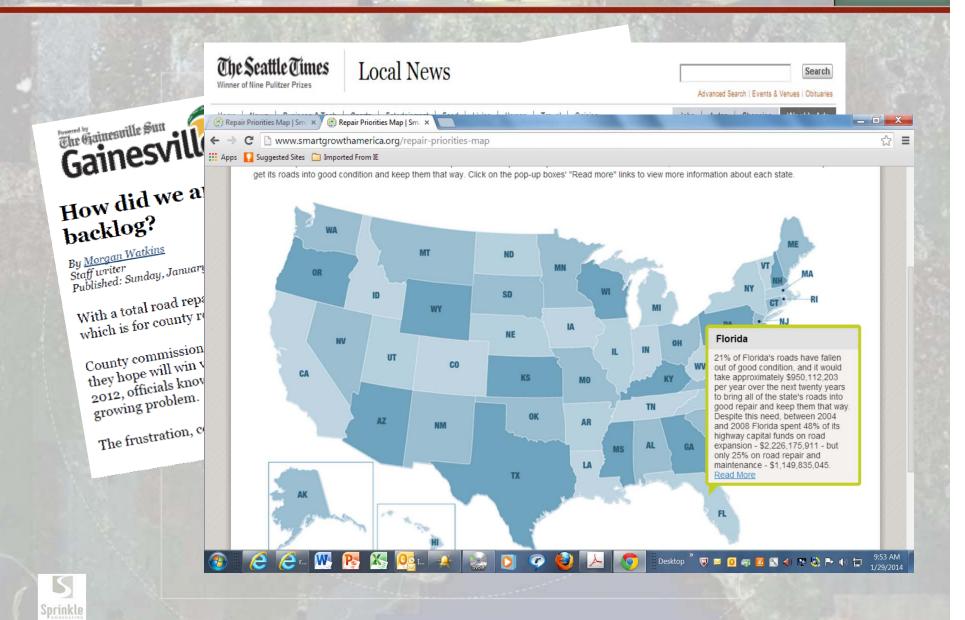
Quality Growth Plus Scenario





Cost to Repair and Maintain





The Calculator's Role & Capability



Assist the selection of the preferred growth scenario through the calculation of associated costs to local governments



CRTPA Sustainable Communities Calculator vo.3

Capital Region Transportation Planning Agency
Tallahassee, FL MSA

1-888-462-3514 www.sprinkleconsulting.com



www.sprinkleconsulting.com Planned Development & Surrounding Infrastructure Characteristics Characteristics of Proposed Development & Surrounding Area "Livability" Infrastructure of Surrounding Area Public Transit Service (select the quality of service provided to your development No **BRT Service** Proposed Transit (1-4 per hour) (4-10 perhour or Light Rail Community Generated Service Traffic's Development Avg. Trip П Length (mi)... 11.2 8 Walking Infrastructure: Subarea Walking Conditions (via Pedestrian LOS) input Proposed Number of Residential Dwelling Units. 100 Bicycling Infrastructure: Subarea Bicycling Conditions (via Bicycle LOS) input Planned Internal (Development) Connectivity... input Americans with Disabilities Act (ADA) Infrastructure Compliance (% Network Coverage). input LEED ND Certification Regional Roadway Network O&M Costs Platinum ☐ Gold ☐ Silver ☐ Bronze ✔ None (exluding costs for through facilities) Proposed Development's Land Use Mix: \$14,200,000 % Residential 100 Cities \$5,800,000 % Office 0 County % Retail 0 State \$8,500,000 % Industrial \$28,500,000 % Institutional Resulting External Trip Generation Rate (daily/unit)... 9.57 trip ends Total Metro Area's Annual Vehicle Miles Traveled (excluding external VMT) 2.439.235.870 Population Density of Surrounding (2-mile radius) Area.....input people/mi* C&M Costs per VMT for Network \$0.0117 Average Household Income Within Planned Development..... input Within Surrounding Area

Costs of Development Location



Development	Annual	Network Maintenance	Annual	35-yr	Present
Form/Location	VMT	per VMT	Cost	Cost	Cost
Business as Usual (Scattered)	3,886,355	\$0.0117	\$45,408	\$1,589,284	\$975,693
Quality Growth (Contiguous)	3,053,565	\$0.0117	\$35,678	\$1,248,723	\$766,616
"Quality Growth Plus" (Compact/Infill)	1,873,778	\$0.0117	\$21,893	\$766,262	\$470,424

(P/A, 3%, 35)



Phase I Output





Fiscal Impacts

Capital Region Transportation Planning Agency

Municipalities' & Taxpayers' Fiscal Impacts & Comparative Costs

O&M Costs by Development Type & Location

P/A

3% rate 35 years







Proposed Community Development

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Impact to Attacted Illrigalctions	· Posamsu Mannori	k i ingratina X. Maintenana	O I Octo
Impact to Affected Jurisdictions	I NOGUWAY I VELWOIT	N Oberaumu & Mammemam	たししろい

Annual	\$21,893	\$35,678	\$45,408	\$32,434
35-year Total	\$766,262	\$1,248,723	\$1,589,284	\$1,135,203
Present Costs	\$470,424	\$766,617	\$975,694	\$696,925

Impact to Public Schools' Student Bus Transportation Costs

Annual	\$3,135	\$5,109	\$6,503	\$4,645
35-year Total	\$109,736	\$178,830	\$227,602	\$162,573
Present Costs	\$67,369	\$109,787	\$139,729	\$99,807

Impact to Other Public Infrastructure and O&M Costs

(e.g., Public Safety, Wastewater, Fire/Rescue, Water, Parks, Solid Waste)

Annual	\$19,704	\$32,110	\$40,867	\$29,191
35-year Total	\$689,636	\$1,123,851	\$1,430,356	\$1,021,683
Present Costs	\$423,382	\$689,955	\$878,125	\$627,232

Total O&M Costs (Roads, School Transportation, and Other Public Infrastructure)

Annual	\$44,732	\$72,897	\$92,778	\$66,270
35-year Total	\$1,565,634	\$2,551,404	\$3,247,242	\$2,319,458
Present Costs	\$961,175	\$1,566,360	\$1,993,549	\$1,423,963



RMP Implementation Tools



- Build Quality School Communities in the Population Growth Nodes
- Focus Civic Activity and Services Investment into the Quality Growth Node
- Foster Aggregation of Parcels and Common Infrastructure
- Recruit Essential Private Sector Components of Life Long Communities
- Hyper-streamline (re-)Development Approvals in the Quality Growth Nodes
- Employ Long-Term Benefit-Cost Assessment for Development Decisions
- Employ Simple, Clear Mobility Fee-type Approach



Presentation Topics



- 1. History & Background
- 2. Calculator Phase II Development
- 3. Significant Factors Affecting Costs
- 4. Tool (Computational Engine)
- 5. Example Calculations



Phase II Calculator's Ability to Evaluate Effects of ... CRIP

- Location of Development
- Nature of Development
- Land Use Mix of Development
- Internal Characteristics of Development
- Development's Integration with Transit
- Development's Active Transportation Accommodation



Phase II Calculator Applications/Settings



- Enable Leadership to Guide Development into Nodal Focus Areas
- Plan Transportation System
- Evaluate Development Requests
- Shape the Character of Growth





The Sustainable Communities Calculator:

"Bringing reliable studies, methods, and equations to your fingertips"



Presentation Topics



- 1. History & Background
- 2. Phase II Calculator Development
- 3. Significant Factors Affecting Costs
- 4. Tool (Computational Engine)
- 5. Example Calculations



Factors Affecting Development Costs



- Destination (access to jobs)
- Design (street network characteristics)
- Diversity (land use mix entropy index)
- Density (residential)
- Distance to Transit Service

Source: Ewing and Cervero, 2010 (Federal Highway Administration metastudy)



Presentation Topics



- 1. History & Background
- 2. Phase II Calculator Development
- 3. Significant Factors Affecting Costs
- 4. Tool (Computational Engine)
- 5. Example Calculations



Development Setting & Pattern





CRTPA Sustainable Communities Ca

Capital Region Transportation Planning , Tallahassee, FL MSA

Development Name:

		Developmen	t Name:		
			Planned Develop	ment & Surround	ling Infrastructure Char
Characteristics of Proposed Develop	ment & Surrounding				
	ERRORETHING IN FERNANCIAL FOR	Metro Area	<u>Typicals</u>		
	1000	公司等在 200年版		A COMPANY CON	
	Heavy CBD	Multi Modal	Scattered, Suburban	Rurai	
Ž,	THE STATE OF	District	Corridor		
14				TO NEW YORK OF	
	PLANT MONTH OF SCHOOL	Marie Company of the State of t			
Existing Development Setting			✓		
			_		
Proposed Development Pattern		✓			
Company of Tarkey Trial and the	3.6	5.4	5.0	7.2	9,550,000
Generated Traffic Avy. Trip Length	3.0	5.4	5.9	7.3	5.5
Proposed Number of Residential D	welling Units				500
		% Single Fam ⊡	% Multi Fami		
Proposed Development Size (acres	s)				64
VMT per Household per Year (fr	om CNT website)				19,100
Proposed Development Location					Tallahassee
Proposed Development's Land Use	e Mix (Area)				
% Residential Area	(100
% other Developed Area					0
% open space					
70 Open Space					
Existing Fuel Costs	\$3.60 \$/gallon				
Resulting External Trip Generation					
Population Density of Surrounding					



Development Setting & Pattern





CRTPA Sustainable Communities Ca

Capital Region Transportation Planning , Tallahassee, FL MSA

		Developmen	t Namo:	rananassa	30, 1 E 11107 (
		Developmen		ment & Surroun	ding Infrastructure Char
Characteristics of Proposed Developn	ment & Surroundin	g Area			
		Metro Area	Typicals		
		新建設 斯里	Scattered/	1	
	Heavy CBD	Multi Modal District	Suburban	Rural	
	阿里斯斯	District	Corridor	7.75	
7		the state of the s			
Existing Development Setting			✓		
Proposed Development Pattern		✓			
Generated Traffic Avg. Trip Length	3.6	5.4	5.9	7.3	5.5
Proposed Number of Residential D	welling Units				500
Proposed Development Size (acres	•	% Single Fami ✓	% Multi Famil		64
VMT per Household per Year (fro	om CNT website)				19,100
Proposed Development Location					Tallahassee
Proposed Development's Land Use	Mix (Area):			\.	
% Residential Area % other Developed Area					100
% open space					40
Existing Fuel Costs	\$3.60 \$/gallon				
Resulting External Trip Generation					9.53 trip ends
Population Density of Surrounding					reserved



Development Setting & Pattern





CRTPA Sustainable Communities Ca

Capital Region Transportation Planning Tallahassee, FL MSA

		Developmen	nt Name:		
			Planned Develop	ment & Surround	ding Infrastructure Cha
Characteristics of Proposed Developn	nent & Surrounding				
_	THE CONTROL OF STREET AND STREET	Metro Area	a Typicals		
	Heavy CBD	Multi Modal District	Scattered/ Suburban Corridor	Rural	
Existing Development Setting			✓		
Proposed Development Pattern		✓			
Generated Traffic Avg. Trip Length	3.6	5.4	5.9	7.3	9,550,000 5.5
Proposed Number of Residential D	welling Units				500
Proposed Development Size (acres			% Multi Fami		64
VMT per Household per Year (fro	om CNT website) .				19,100
Proposed Development Location					Tallahassee
Proposed Development's Land Use % Residential Area % other Developed Area	Mix (Area):				100 0
Existing Fuel Costs	\$3.60 \$/gallon				

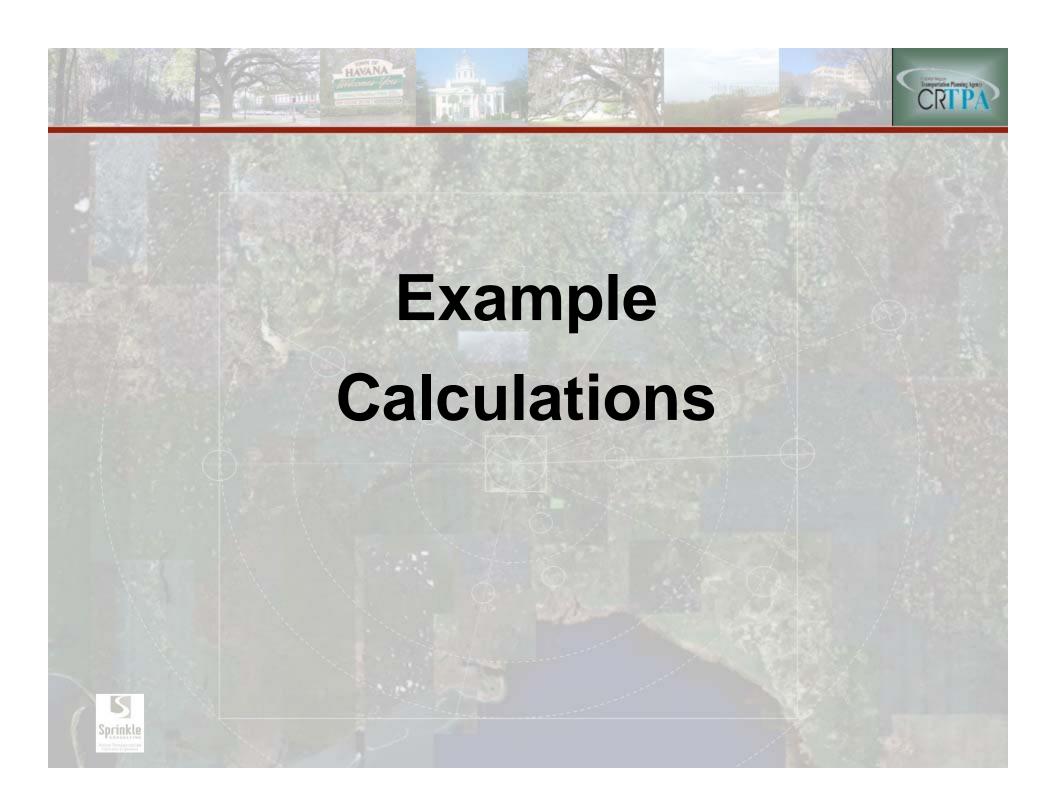


Presentation Topics

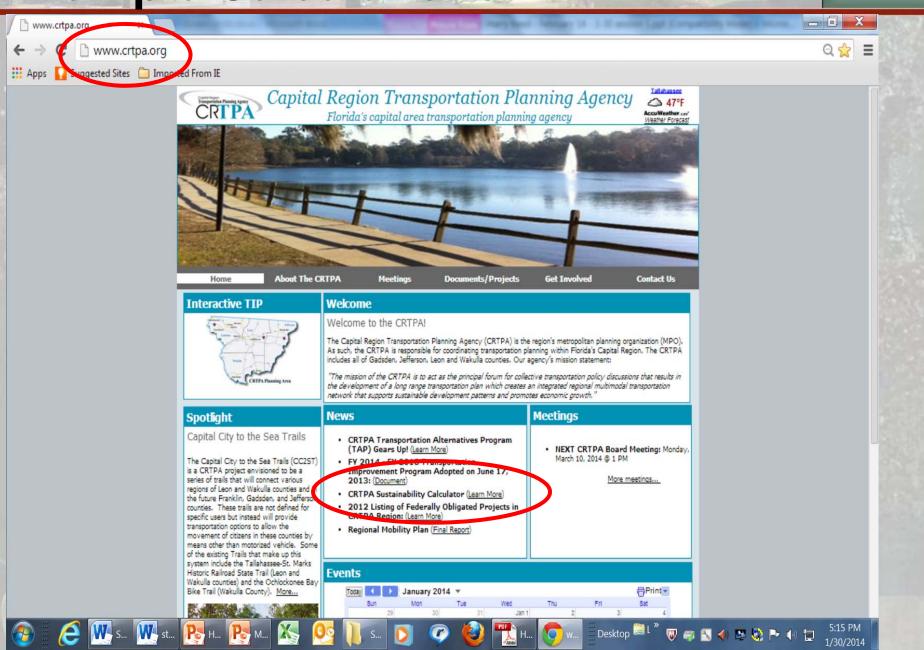


- 1. History & Background
- 2. Phase II Calculator Development
- 3. Significant Factors Affecting Costs
- 4. Tool (Computational Engine)
- 5. Example Calculations



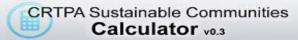














Capital Region Transportation Planning Agency - Tallahassee, FL MSA

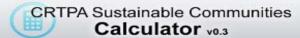
1-888-462-3514

Username			assword		sprinkleconsulting.ce
			The second secon		15.
Planned Developm	ent & Surr	ounding Infra	structure Ch	aracteris	tics
Development Name:					User Guid
haracteristics of Proposed Development &	Surrounding A	Area			
	Dense CBD	Multi Modal District	Scattered / Suburban	Rural	
Metro Area Typicals	Delise CDD	THE RESERVE OF THE RE	Corridor	Kulai	
mono vista Typicale		10 15 N			
	物理を記憶				•
Existing Development Setting					
Proposed Development Pattern					
Generated Traffic Avg. Trip Length	3.6	4.3	5.2	6.9	0
Proposed Number of Residential Dwelling Units					
	Sing	le Family 🗆	Mu	Iti Family 🗆	
Proposed Development Size (acres)					
VMT per Household per Year (from CNT website)					
Proposed Development Location					- Select Location
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					
Existing Fuel Costs \$/gallor					
					Next
					THE RESERVE OF THE PARTY OF









Sprinkle

Capital Region Transportation Planning Agency - Tallahassee, FL MSA

1-888-462-3514 www.sprinkleconsulting.com

	22			www.s	sprinkleconsulting.cor
Usernam	е	P	assword		Legin
Planned Developm	nent & Surr	ounding Infra	structure C	haracteris	tics
Development Name:					User Guide
Characteristics of Proposed Development	& Surrounding A	Area	40 %		
	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Metro Area Typicals			Cornadi	110101	
Existing Development Setting					
Proposed Development Pattern					
Generated Traffic Avg. Trip Length	3.6	4.3	5.2	6.9	0
Proposed Number of Residential Dwelling Units					
	Sing	le Family 🗆	M	lulti Family 🗆	
Proposed Development Size (acres)					
VMT per Household per Year (from CNT website)					
Proposed Development Location					- Select Locatic
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					
Existing Fuel Costs \$/gallo	on				
					Next

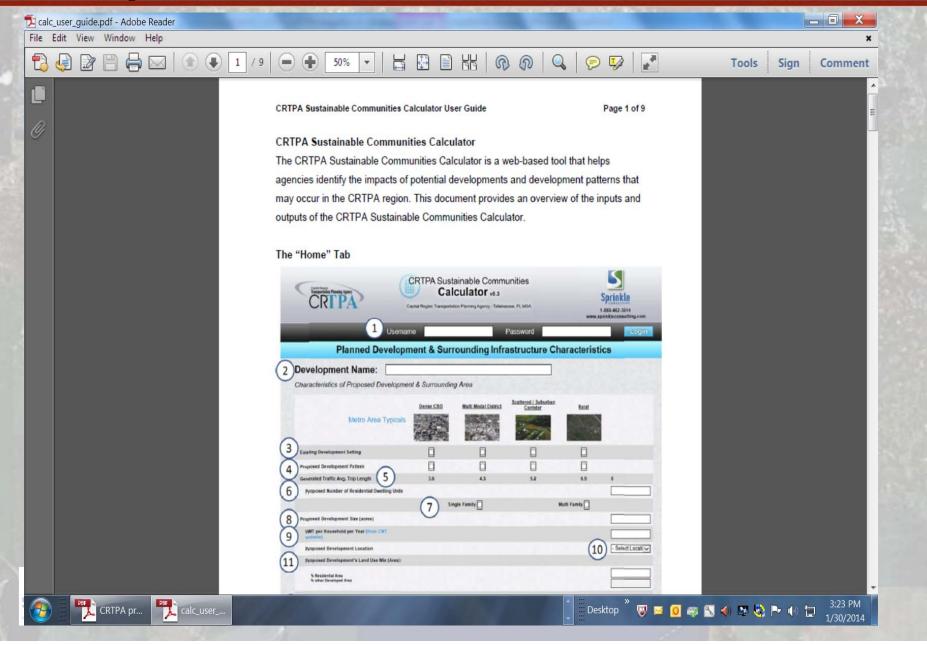


ome Fiscal Impacts

Regional Economy

Energy & Environment







Development Name: Summi	t				User Guide
Characteristics of Proposed Develop	ment & Surround	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	0	8	a	0	
Proposed Development Pattern	- 0	€		0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sin	gle Family 🗍		Multi Family 🗹	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/g	allon				Next
Home Fiscal Impacts Regional Ec	onomy Energy	& Environment C	Jutout Summary		



Planned Development & Surrounding Infrastructure Characteristics **Development Name:** User Guide Summit Characteristics of Proposed Development & Surrounding Area Scattered / Suburban Dense CBD Multi Modal District Rural Corridor Metro Area Typicals **Existing Development Setting** Proposed Development Pattern 5.3 Generated Traffic Avg. Trip Length 10.1 5.5 1.5 Proposed Number of Residential Dwelling 300 Units Single Family Multi Family 2 Proposed Development Size (acres) VMT per Household per Year (from CNT 13061 website) Proposed Development Location Tallahassee Proposed Development's Land Use Mix (Area): % Residential Area % other Developed Area **Existing Fuel Costs** \$/gallon Next

Home Fiscal Impacts

Regional Economy

Energy & Environment



Development Name: Summit					User Guide
Characteristics of Proposed Developm	nent & Surroun	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	0	€	0	0	
Proposed Development Pattern	- 0	€		0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sir	ngle Family 🗌	м	ulti Family 🗹	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/ga	llon				Next
Harris Figure I President For					Next



Development Name: Summit					User Guide
Characteristics of Proposed Developm	ent & Surround	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	0	€	0	0	
Proposed Development Pattern	0	⊗		0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sin	gle Family 🗍	1	fulti Family ≥	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/gal	lon				Next
Warra Signal Impants A Passional Sass	and a second		utout Cumman		



Development Name: Summit					User Guide
Characteristics of Proposed Developm	nent & Surround	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	O.	€	0	0	
Proposed Development Pattern		€	0	0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sin	gle Family 🗌	13	Multi Family 🗹	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/gal	llon				Next
Name Figure Pagings Fac			autout Commons		TA SALE



Planned Development & Surrounding Infrastructure Characteristics

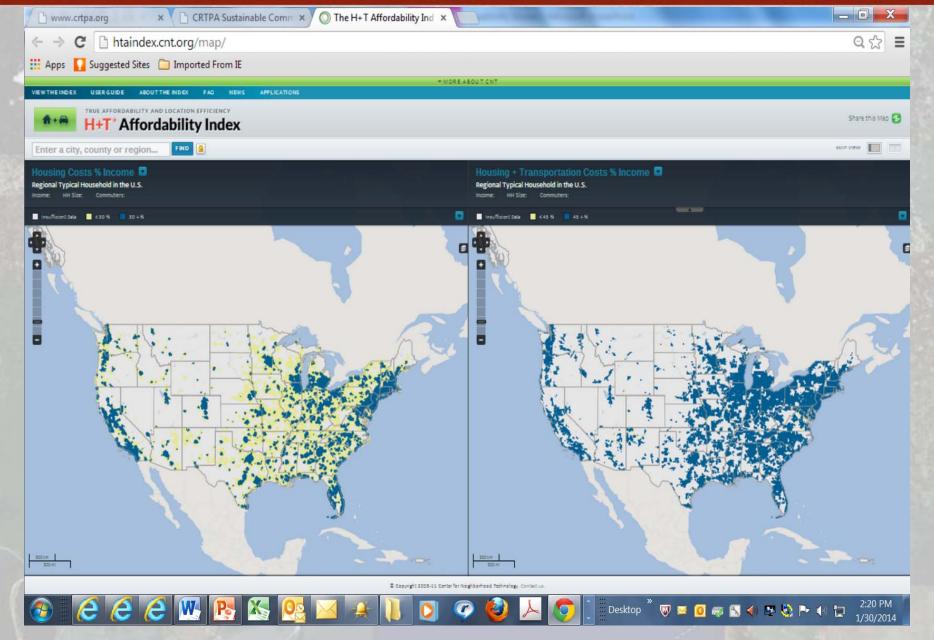
Development Name: Summit					User (Guide
Characteristics of Proposed Developm	nent & Surround	ding Area				
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural		
Existing Development Setting	0	€	0	0		
Proposed Development Pattern	- 0	⊗	0	0		
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5	
Proposed Number of Residential Dwelling Units					300	
	Sin	gle Family 🗍		Multi Family 🗹		
Proposed Development Size (acres)					10	
VMT per Household per Year (from CNT website)					13061	
Proposed Development Location					Tallahasse	e ▼
Proposed Development's Land Use Mix (Area):						
% Residential Area % other Developed Area					0	
Existing Fuel Costs 3.35 \$/ga	llon				N	ext

ome Fiscal Impa

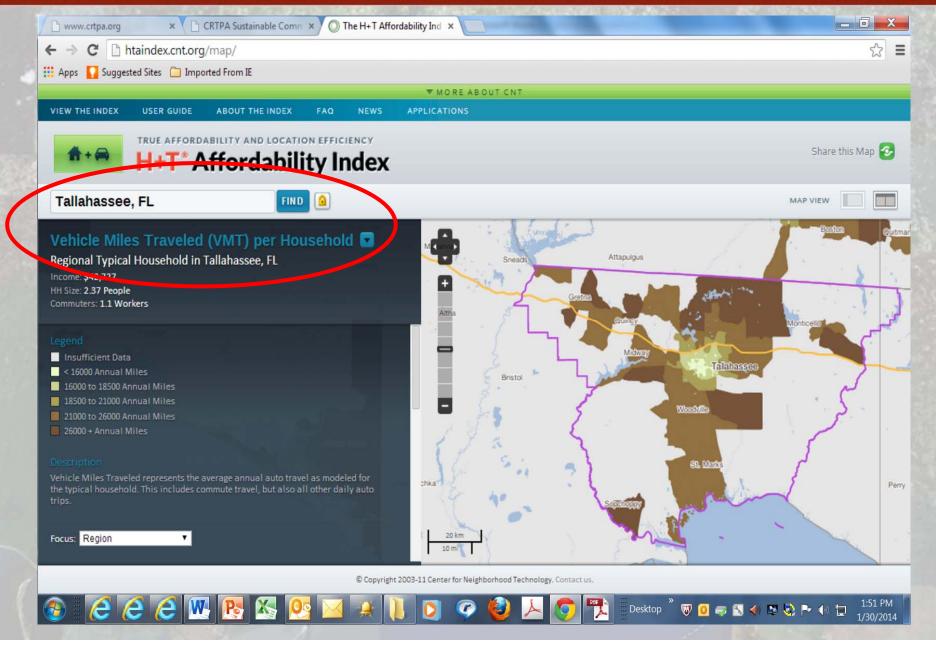
Regional Economy

Energy & Environment

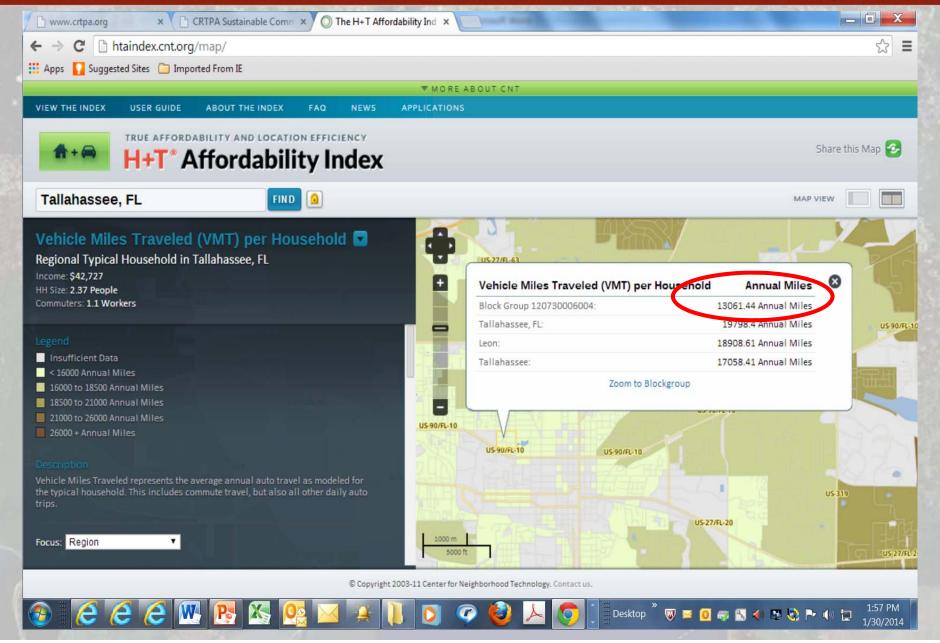














Planned Development & Surrounding Infrastructure Characteristics

Development Name: Summit					User 0	uide
Characteristics of Proposed Developm	nent & Surround	ding Area				
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural		
Existing Development Setting	0	≥	0	0		
Proposed Development Pattern		≥	- 0	0		
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5	
Proposed Number of Residential Dwelling Units					300	
	Sin	gle Family 🗍		Multi Family 🗹		
Proposed Development Size (acres)					10	
VMT per Household per Year (from CNT website)					13061	
Proposed Development Location					Tallahassee	
Proposed Development's Land Use Mix (Area):						
% Residential Area % other Developed Area					0	
Existing Fuel Costs 3.35 \$/gal	llon				Ne	ext

ome Fiscal Im

Regional Economy

nergy & Environment



Development Name: Summit					User Guide
Characteristics of Proposed Developm	nent & Surround	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	0	€	0	0	
Proposed Development Pattern	- 0	⊗	- 0	0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sin	gle Family 🗍	Mu	ulti Family 🗹	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					100
Existing Fuel Costs 3.35 \$/ga	llon				Next



Development Name: Summit					User Guide
Characteristics of Proposed Developm	nent & Surround	ding Area			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	
Existing Development Setting	0	€	0	0	
Proposed Development Pattern	- 0	€	- 0	0	
Generated Traffic Avg. Trip Length	5.3	6.3	7.6	10.1	5.5
Proposed Number of Residential Dwelling Units					300
	Sin	gle Family 🗌		Multi Family 🗹	
Proposed Development Size (acres)					10
VMT per Household per Year (from CNT website)					13061
Proposed Development Location					Tallahassee ▼
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/ga	llon				Next
Harry Figure Impacts Pagings For			output Commons		



Municipalities' & Taxpayers' Fiscal Impacts & Comparative Costs

O&M Costs by Development Type & Location

		Development Patte	rn
P/A 3% rate 35 years Impact to Affected Jurisdictions' Roadway Network Operating & Maintenance Costs	MMD ↓	Base Proposed Multi Modal District	Proposed Community Development
Annual	\$52,199	\$52.199	\$49,831
35-Year Total	\$1,826,975	\$1.826.975	\$1,744,092
Present Costs	\$1,121,618	\$1,121,618	\$1,070,734
Impact to Public Schools' Student Bus Transportation Costs			
Annual	\$4,646	\$4,646	\$4,045
35-Year Total	\$162,595	\$162,595	\$141,577
Present Costs	\$99,820	\$99,820	\$86,917
Impact to Other Public Infrastructure and O&M Costs (e.g., Public Safety, Wastewater, Fire/Rescue, Water, Trash, Solid Waste)			
Annual	\$171,169	\$171,169	\$171,169
35-Year Total	\$5,990,928	\$5,990,928	\$5,990,928
Present Costs	\$3,677,954	\$3,677,954	\$3,677,954
Total O&M Costs (Roads, School Transportation, and Other Public Infrastructure)			
Annual	\$228,014	\$228,014	\$225,046
35-Year Total	\$7,980,498	\$7,980,498	\$7,876,596
Present Costs	\$4,899,392	\$4,899,392	\$4,835,604
			Next

Fiscal Impacts

Regional Economy

Energy & Environment



Effects on the Regional Economy

Comparative Costs



Lost Disposable Income

oot Biopodabio ilicomo				
Commute Time Costs				
Annual	\$98,402	\$223,490	\$473,665	\$17,554
10-Year Total	\$984,022	\$2,234,897	\$4,736,647	\$175,539
Auto Ownership Costs				
Annual	\$195,433	\$443,865	\$940,728	\$34,863
10-Year Total	\$1,954,330	\$4,438,648	\$9,407,283	\$348,633
Auto Operations & Maintenance Costs				
Annual	\$135,454	\$307,642	\$652,018	\$24,164
10-Year Total	\$1,354,544	\$3,076,422	\$6,520,179	\$241,637
Fuel Costs				
Annual	\$114,266	\$259,519	\$550,025	\$82,345
10-Year Total	\$1,142,658	\$2,595,189	\$5,500,252	\$823,449
Health Care Costs				
Annual	\$923	\$10,131	\$34,860	\$917
10-Year Total	\$9,231	\$101,314	\$348,597	\$9,169
Total				
Annual	\$430,213	\$985,128	\$2,101,271	\$159,843
10-Year Total	\$4,302,127	\$9,851,280	\$21,012,706	\$1,598,427

Spçi



Community-Wide Energy & Environmental Impacts & Costs

Average Auto Fuel Cost Average Auto Fuel Efficiency Base Annual VMT/Household \$3.35 / gallon 20.7 mpg 13,061 miles

per http://htaindex.cnt.org/map/

	·				
	Dense CBD	Multi Modal District	Scattered / Suburban Corridor	Rural	Proposed Commun Development
					?
	V	\forall	V	Ψ	Ψ
Fuel Consumed (gallons)					
Annual	182,687	216,796	260,155	346,873	207,267
35-Year Total	6,394,028	7,587,850	9,105,420	12,140,560	7,254,348
Fuel Consumption Costs					
Annual	\$612,000	\$726,266	\$871,519	\$1,162,025	694,345
35-Year Total	\$21,419,994	\$25,419,297	\$30,503,157	\$40,670,876	24,302,067
missions Impact (Ibs/year)					
VOC	6,670	7,915	9,498	12,664	7,567
NOx	5,627	6,678	8,014	10,685	6,385
Particulates	667	791	950	1,266	757
Greenhouse (CO ₂)	3,518,225	4,175,108	5,010,130	6,680,173	3,991,604
					Next

Home Fiscal Impacts

Regional Economy

Energy & Environment



0			+			-	m	-	nı
Ol	44	Ju	L	3	u	ш	ш	a	ı y

Development Name:	Summit
Proposed Development Location:	Tallahassee
Existing Development Pattern:	Multi Modal District
Proposed Development Pattern:	Multi Modal District
Proposed Number of Residential Dwelling Units	300
Development Area (square miles)	0.015625
Base VMT per Household per Year	13,061
Base Development MVMT per Year	3.9183
VMT per Household per Year	14,301
Proposed Development MVMT per Year	4.290
% change	13 %
Annual fuel cost per household	\$2,314
Fiscal Impact of Development	
Annual	\$227,000
35-year Total	\$7,945,000
Present Costs	\$4,878,000
Emissions Impact (Ibs / year)	
voc	7,567
NOx	6,385
Particulates	757
Greenhouse (CO ₂)	3,991,604

Fiscal Impacts

Regional Economy

Energy & Environment



Planned Development & Surrounding Infrastructure Characteristics

Development Name: Summit L	ake				User Guide
Characteristics of Proposed Development	& Surrounding A	rea			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburba Corridor	n Rural	
Existing Development Setting			abla		
Proposed Development Pattern			abla		
Generated Traffic Avg. Trip Length	3.6	4.3	J.2	6.9	5.9
Proposed Number of Residential Dwelling Units					300
	Singl	e Family 🗸		Multi Family	
Proposed Development Size (acres)					100
VMT per Household per Year (from CNT website)					20576
Proposed Development Location					Tallahassee
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/gallo	on				Next

Home Fiscal Impacts

Regional Economy

Energy & Environment



Planned Development & Surrounding Infrastructure Characteristics

Development Name: Summit L	ake				User Guide
Characteristics of Proposed Development	& Surrounding A	rea			
Metro Area Typicals	Dense CBD	Multi Modal District	Scattered / Suburba Corridor	n Rural	
Existing Development Setting					
Proposed Development Pattern			\square		
Generated Traffic Avg. Trip Length	3.6	4.3	3.2	6.9	5.9
Proposed Number of Residential Dwelling Units					300
	Singl	e Family 🗸		Multi Family	
Proposed Development Size (acres)					100
VMT per Household per Year (from CNT website)					20576
Proposed Development Location					Tallahassee
Proposed Development's Land Use Mix (Area):					
% Residential Area % other Developed Area					0
Existing Fuel Costs 3.35 \$/gallo	on				Next

Home Fiscal Impacts

Regional Economy

Energy & Environment



Output Summary

Existing Development Pattern: Proposed Development Pattern: Proposed Number of Residential Dwelling Units Scattered / Sub Proposed Number of Residential Dwelling Units Base VMT per Household per Year Base Development MVMT per Year 6.1 VMT per Household per Year 20, Proposed Development MVMT per Year 6.2 **Change Annual fuel cost per household Fiscal Impact of Development Annual \$255 35-year Total \$8,83 Present Costs Emissions Impact (lbs / year) VOC 11, NOx	ent Name:	Summit Lake		
Proposed Development Pattern: Proposed Number of Residential Dwelling Units Development Area (square miles) Base VMT per Household per Year Base Development MVMT per Year CMT per Household per Year 21, Proposed Development MVMT per Year 6.1 **Change Annual fuel cost per household Fiscal Impact of Development Annual \$25, 35-year Total \$8,83 Present Costs Emissions Impact (lbs / year) VOC 11, NOx	evelopment Location:	Tallahassee		
Proposed Number of Residential Dwelling Units Development Area (square miles) Base VMT per Household per Year Base Development MVMT per Year 6.1 VMT per Household per Year Proposed Development MVMT per Year 6.4 Proposed Development MVMT per Year 6.5 Annual fuel cost per household Fiscal Impact of Development Annual Annual \$255 35-year Total Present Costs \$5,42 Emissions Impact (lbs / year) VOC 11. NOx	velopment Pattern:	Scattered / Suburban Corridor		
Development Area (square miles) 0.01 Base VMT per Household per Year 20, Base Development MVMT per Year 6.1 VMT per Household per Year 21, Proposed Development MVMT per Year 6.2 % change 20 Annual fuel cost per household \$3, Fiscal Impact of Development Annual \$25, 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (Ibs / year) VOC 11, NOx	evelopment Pattern:	Scattered / Suburban Corridor		
Base VMT per Household per Year 20, Base Development MVMT per Year 6.1 VMT per Household per Year 21, Proposed Development MVMT per Year 6.4 Annual fuel cost per household \$3, Fiscal Impact of Development Fiscal Impact of Development \$255 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (Ibs / year) \$9,43	lumber of Residential Dwelling Units	300		
Base Development MVMT per Year 6.1 VMT per Household per Year 21, Proposed Development MVMT per Year 6.4 % change 20 Annual fuel cost per household \$3, Fiscal Impact of Development \$25, 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (lbs / year) \$0 VOC 11, NOx 9,4	nt Area (square miles)	0.015625		
VMT per Household per Year 21, Proposed Development MVMT per Year 6.4 % change 20 Annual fuel cost per household \$3, Fiscal Impact of Development \$25, Annual \$25, 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (lbs / year) VOC 11, NOx 9,6	er Household per Year	20,576		
Proposed Development MVMT per Year 6.4 % change 20 Annual fuel cost per household \$3, Fiscal Impact of Development \$25, Annual \$25, 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (Ibs / year) VOC 11, NOx 9,6	opment MVMT per Year	6.1728		
% change 20 Annual fuel cost per household \$3, Fiscal Impact of Development Annual \$257 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (lbs / year) VOC 11, NOx 9,4	usehold per Year	21,473		
Annual fuel cost per household Fiscal Impact of Development Annual 35-year Total Present Costs Emissions Impact (lbs / year) VOC 11, NOx	evelopment MVMT per Year	6.442		
Fiscal Impact of Development \$252 \$252 \$35-year Total \$8,832 \$8,832 \$8,832 \$8,832 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8,833 \$8		20 %		
Annual \$252 35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (lbs / year) VOC 11, NOx 9,	cost per household	\$3,475		
35-year Total \$8,83 Present Costs \$5,42 Emissions Impact (Ibs / year) 11, VOC 11, NOx 9,4	ct of Development			
Present Costs \$5,42 Emissions Impact (Ibs / year) VOC 11, NOx 9,		\$252,000		
Emissions Impact (Ibs / year) VOC NOx 9,	otal	\$8,836,000		
VOC 11. NOx 9,	Costs	\$5,425,000		
NOx 9,	mpact (lbs / year)			
		11,361		
Particulates 1,		9,586		
	tes	1,136		
Greenhouse (CO ₂) 5,99	use (CO ₂)	5,993,100		

Home / Fiscal Impacts

Regional Economy

Energy & Environment



Output Summary

HAVANA

		10072-0000
Development Name:	Summit	Summit Lake
Proposed Development Location:	Tallahassee	Tallahassee
Existing Development Pattern:	Multi Modal District	Scattered / Suburban Corrido
Proposed Development Pattern:	Multi Modal District	Scattered / Suburban Corrido
Proposed Number of Residential Dwelling Units	300	300
Development Area (square miles)	0.015625	0.15625
Base VMT per Household per Year	13,061	20,576
Base Development MVMT per Year	3.9183	6.1728
VMT per Household per Year	14,301	21,473
Proposed Development MVMT per Year	4.290	6.442
% change	13 %	20 %
Annual fuel cost per household	\$2,314	\$3,475
Fiscal Impact of Development		
Annual	\$227,000	\$252,000
35-year Total	\$7,945,000	\$8,836,000
Present Costs	\$4,878,000	\$5,425,000
Emissions Impact (lbs / year)		
voc	7,567	11,361
NOx	6,385	9,586
Particulates	757	1,136
Greenhouse (CO ₂)	3,991,604	5,993,100

Home / Fi

Fiscal Impacts

Regional Economy

Energy & Environment



Sustainable Communities Calculator

Presentation

by

Harry Reed

to

13th Annual New Partners for Smart Growth Session

Emerging Fiscal Impact Tool Highlight the

Economic Consequences of Development Decisions

February 14, 2014

