

#### **Fiscal Impact Model** Orange County, North Carolina

Presentation to Orange County Board of Commissioners February 17, 2022

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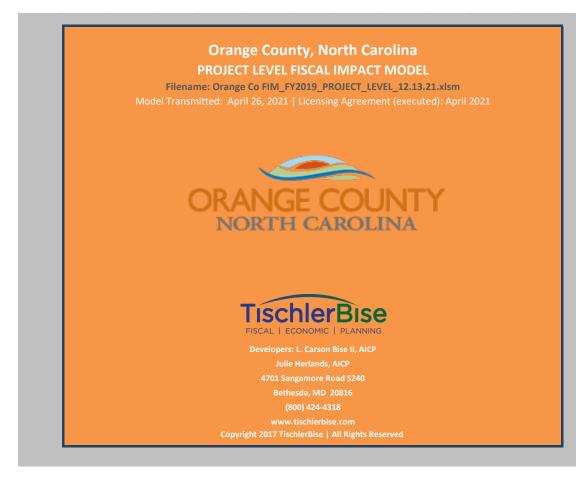
# **Fiscal Impact Analysis in General**

- Evaluating cash flow to the public sector
  - $_{\odot}\,$  Do revenues that are generated from a development cover cost impacts?
- Based on a jurisdiction's current level of service—reflected in current budget
- Intent is to help achieve planning and fiscal goals by understanding the connection between land use decisions and revenue generation/operating impacts
  - $\circ~$  Models are built to address specific questions
- Fiscal impact analysis differs from Economic Impact Analysis and Municipal Budgeting



# **Orange County Fiscal Impact Model**

- Evaluate fiscal impacts of land use changes
- Multiple scenarios allow testing and comparing
  - Property values
  - $\circ$  Timing
  - $_{\odot}~$  Type of land uses
- Inform land use decisions and test "what if" alternatives
- Plan for short- and long-term operational and capital improvement impacts





# **Key Assumptions**

- Orange County Fiscal Year 2019 Adopted Budget used to develop the initial model
- Revenues and Costs to Orange County are modeled
  - General Fund, Special Revenue Funds, Fire Districts, Schools (Countyfunded portion)
  - $\circ~$  Capital expenditures for development's share of expanded facilities
- Current dollars are used to get a snapshot result (no inflation assumed)
- Model reflects location-specific features: Values, school district, fire district, park district



### **Key Assumptions: Residential Default Prototypes**

Residential Land Use Prototypes	Avg. Assessed Value Per Unit [1]	Avg. Taxable Value Per Unit (rounded) [2]	Persons per Unit [3]	Vehicle Trip generation rate [4]	Trip Adj. Factor % [5]	Student Generation Rate [6]	School System
Single Family : Unincorporated Orange County (Improved)	\$495,382	\$495,000	2.36	9.40	50%	0.44	OCS
Single Family : Unincorporated Orange County (Unimproved)	\$39,200	\$39,000	0.00	0.00	0.00	0.00	OCS
Single Family : Hillsborough (Improved)	\$429,758	\$430,000	2.47	8.40	50%	0.44	OCS
Single Family : Hillsborough (Unimproved)	\$187,500	\$190,000	0.00	0.00	0.00	0.00	OCS
Single Family : Chapel Hill/Carrboro (Improved)	\$504,803	\$500,000	2.62	8.30	50%	0.84	CHCCS
Single Family : Chapel Hill/Carrboro (Unimproved)	\$155,100	\$160,000	0.00	0.00	0.00	0.00	CHCCS
Condo: Unincorporated Orange County (Improved)	\$214,700	\$210,000	1.60	5.00	50%	0.17	OCS
Condo: Hillsborough (Improved)	\$0	\$0	1.48	4.30	50%	0.17	OCS
Condo: Chapel Hill/Carrboro (Improved)	\$268,016	\$270,000	1.79	5.65	50%	0.18	CHCCS
Multifamily Apts: Unincorporated Orange County (Improved)	\$121,718	\$120,000	1.60	5.00	50%	0.17	OCS
Multifamily Apts: Hillsborough (Improved)	\$66,486	\$70,000	1.48	4.30	50%	0.17	OCS
Multifamily Apts: Chapel Hill/Carrboro (Improved)	\$149,314	\$150,000	1.79	5.65	50%	0.18	CHCCS
Manufactured Home Park: Unincorporated Orange County (Improved)	\$246,331	\$246,000	2.25	9.40	50%	0.52	OCS
Manufactured Home Park: Hillsborough (Improved)	\$115,225	\$115,000	2.37	8.40	50%	0.52	OCS
Manufactured Home Park: Chapel Hill/Carrboro (Improved)	\$0	\$0	2.49	8.30	50%	0.78	CHCCS

[1] Orange County Assessor data accessed online at https://property.spatialest.com/nc/orange/#/; residential unit values built within past 5 years.

[2] Rounded value

[3] US Census

[4] Institute of Transportation Engineers (ITE), 2017

[5] Trip rates are adjusted to allocate between origin (residential) and destination (nonresidential)

[6] Orange County, NC, Schools Adequate Public Facilities Ordinance Annual Report 2019

Sources: Orange County; ITE; TischlerBise



Key	Nonresidential Land Use Prototypes	Avg. Assessed Value Per Sq. Ft. [1]	Avg. Taxable Value Per Sq. Ft. (rounded) [1]	Employees per 1,000 Sq. Ft. [2]	Vehicle Trips per 1,000 Sq. Ft. [3]	Trip Adj. Factor % [4]	Additional Trip Adj. Factor % [5]	Adjusted Trip Rate per 1,000 Sq. Ft.	TIF Code I
	Retail: Unincorporated Orange County (Improved)	\$109.65	\$110.00	2.34	37.75	39%	100%	14.72	820
Assumptions:	Retail: Unincorporated Orange County (Unimproved)*	\$46.10	\$46.00	2.34	37.75	39%	100%	14.72	820
Assumptions.	Retail: Hillsborough (Improved)	\$102.31	\$102.00	2.34	37.75	39%	100%	14.72	820
	Retail: Hillsborough (Unimproved)	\$26.60	\$27.00	2.34	37.75	39%	100%	14.72	820
Nonresidential	Retail: Chapel Hill/Carrboro (Improved)	\$157.15	\$157.00	2.34	37.75	39%	100%	14.72	820
	Retail: Chapel Hill/Carrboro (Unimproved)	\$24.78	\$25.00	2.34	37.75	39%	100%	14.72	820
Default	Office: Unincorporated Orange County (Improved)	\$126.53	\$127.00	2.97	9.74	50%	100%	4.87	710
Jelault	Office: Unincorporated Orange County (Unimproved)	\$37.67	\$38.00	2.97	9.74	50%	100%	4.87	710
	Office: Hillsborough (Improved)	\$199.98	\$200.00	2.97	9.74	50%	100%	4.87	
Prototypes	Office: Hillsborough (Unimproved)	\$33.14	\$33.00	2.97		50%	100%	4.87	
101013/000	Office: Chapel Hill/Carrboro (Improved)	\$221.05	\$221.00			50%	100%	4.87	
	Office: Chapel Hill/Carrboro (Unimproved)	\$45.57	\$46.00	2.97	9.74	50%	100%	4.87	
	Industrial: Unincorporated Orange County (Improved)	\$75.12	\$75.00	1.63		50%	100%	2.48	
	Industrial: Unincorporated Orange County (Unimproved)	\$29.03	\$29.00	1.63	4.96	50%	100%	2.48	
	Industrial: Hillsborough (Improved)	\$86.37	\$86.00	1.63				2.48	
	Industrial: Hillsborough (Unimproved)	\$13.41	\$13.00	1.63				2.48	
	Industrial: Chapel Hill/Carrboro (Improved)	\$237.10	\$237.00	1.63				2.48	
	Industrial: Chapel Hill/Carrboro (Unimproved)	\$177.64	\$178.00	1.63		50%	100%	2.48	
	Institutional: Unincorporated Orange County (Improved)	\$102.35	\$0.00	0.78		39%	100%	10.16	520/530
	Institutional: Unincorporated Orange County (Unimproved)	\$10.62	\$0.00	0.78				10.16	520/530
	Institutional: Hillsborough (Improved)	\$103.27	\$0.00	0.78		39%		10.16	
	Institutional: Hillsborough (Unimproved)	\$24.42	\$0.00	0.78				10.16	
	Institutional: Chapel Hill/Carrboro (Improved)	\$195.07	\$0.00	0.78		39%	100%	10.16	
	Institutional: Chapel Hill/Carrboro (Unimproved)	\$103.69	\$0.00	0.78	26.04	39%	100%	10.16	520/530

[1] Orange County Assessor data accessed online at https://property.spatialest.com/nc/orange/#/; nonresidential prototypes built within past 20 years (to ensure adequate sample size).

\* Unimproved property reflects land value only

[2] Employees per development unit (1,000sf) calculated from trip rates, ITE 2017

[3] Institute of Transportation Engineers (ITE), 2017

[4] Trip rates are adjusted to allocate between origin (residential) and destination (nonresidential)

[5] Place for additional adjustment to account for transit accessibility, multimodal access, and multiple stops per trip, if applicable.

Sources: Orange County; ITE; TischlerBise



# Example: Fiscal Impact of Residential Development in Unincorporated County

- 20 Housing Units
  - Single Family
  - $\circ$  Condos
  - o Multifamily
- Location: Unincorporated County
- Schools: Orange County Schools
- Fire: Orange Rural Fire
- Parks: Cheeks/Hillsborough District Park



Example:	PROJECT SUMMARY SCENARIO COMPARISONS RESIDENTIAL IN UNINCORPORATED COUNTY						
Residential in Uninc.		Scenario 1: 20 SFD Units: Uninc.; OCS; Orange Rural Fire; Cheeks/Hills Park District	Scenario 2: 20 Condo Units: Uninc.; OCS; Orange Rural Fire; Cheeks/Hills Park District	Scenario 3: 20 MF Units: Uninc.; OCS; Orange Rural Fire; Cheeks/Hills Park District			
County:	RESIDENTIAL:	[20-Year Net New Growth]	[20-Year Net New Growth]	[20-Year Net New Growth]			
Summary	Uninc or Inc. School District Fire District Park Distict	Uninc. Co. OCS Orange Rural Cheeks / Hillsborough	Uninc. Co. OCS Orange Rural Cheeks / Hillsborough	Uninc. Co. OCS Orange Rural Cheeks / Hillsborough			
	HOUSING UNITS	20	20	20			
	POPULATION ENROLLMENT	47 9	32 3	32 3			
	NONRESIDENTIAL SQUARE FEET	0	0	0			
	JOBS	0	0	0			
	RESIDENTIAL TAXABLE PROPERTY VALUE NONRESIDENTIAL TAXABLE PROPERTY VALUE <b>TOTAL TAXABLE PROPERTY VALUE</b>	\$9,900,000 \$0 \$9,900,000	\$4,200,000 \$0 \$4,200,000	\$2,400,000 \$0 \$2,400,000			
	MODEL VERSION:	Filename: Orange Co FIM_FY2019_PROJECT_I	LEVEL_v6_Test ResidCH.xlsm				

12/2/2020



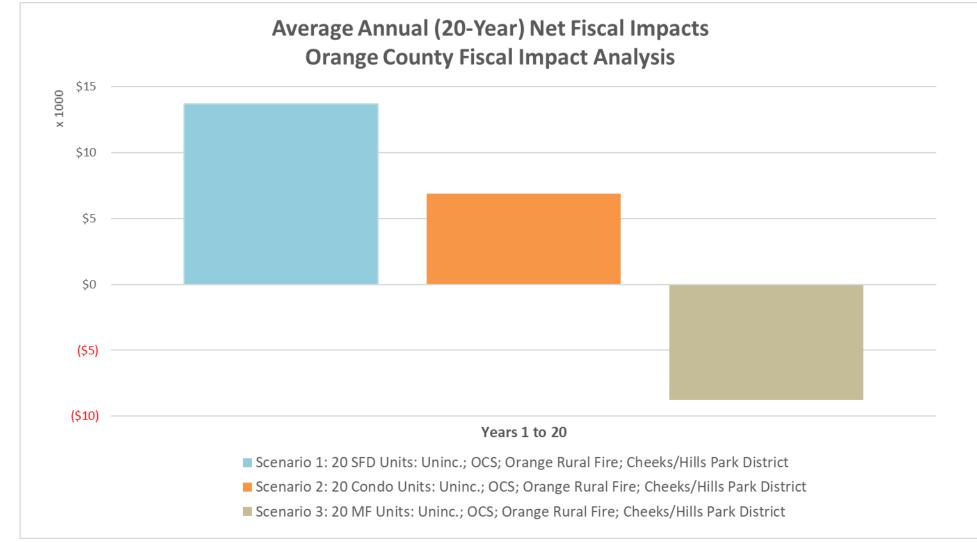
RUN DATE:

Example:	NET FISCAL IMPACT: 20-Year C	Cumulative Results					
	CUMULATIVE - Scenario Comparisons						
Residential	Orange County Fiscal Impact Model RESIDENTIAL IN UNINCORPORATED COUNTY						
Nesiuentiai		SCENARIO					
in Ilning		Scenario 1: 20 SFD Units:	Scenario 2: 20 Condo Units:	Scenario 3: 20 MF Units:			
in Uninc.		Uninc.; OCS; Orange Rural	Uninc.; OCS; Orange Rural	Uninc.; OCS; Orange Rural			
		Fire; Cheeks/Hills Park	Fire; Cheeks/Hills Park	Fire; Cheeks/Hills Park			
County:	Category	District	District	District			
	Grand Total						
Fiscal	TOTAL REVENUES	\$1,876,792	\$836,392	\$523,948			
	TOTAL EXPENDITURES	\$1,603,388	\$698,930	\$698,930			
Results	NET FISCAL IMPACT	\$273,404	\$137,462	(\$174,982)			
	MODEL VERSION:	Filename: Orange Co FIM_FY2019_P	ROJECT_LEVEL_v6_Test ResidUninc_v	2.xlsm			
	RUN DATE:	12/2/2020					

#### Results are 20-Year Cumulative Totals

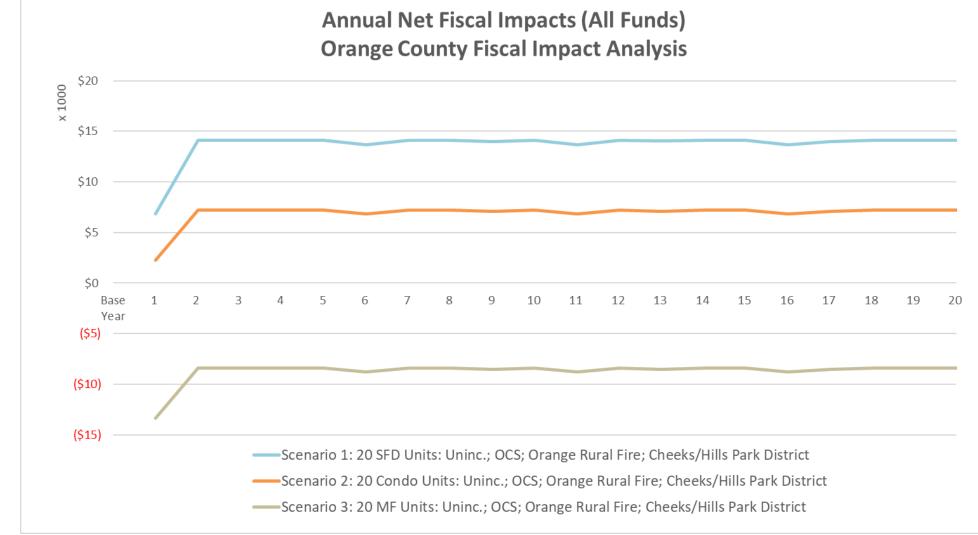


#### **Example: Residential in Uninc. County: Fiscal Results**





#### **Example: Residential in Uninc. County: Fiscal Results**





## Example: Fiscal Impact of Nonresidential Development in Uninc. County

- Nonresidential Sample
  - $\circ$  100,000 sf retail
  - $\circ~$  50,000 sf office
  - $\circ$  200,000 sf industrial
- Location: Unincorporated County
- Schools: N/A
- Fire: Orange Rural Fire
- Parks: N/A



Example: Nonresid. in Uninc. County: Summary



#### PROJECT SUMMARY SCENARIO COMPARISONS NONRESIDENTIAL IN UNINCORPORATED COUNTY Scenario 1: 100,000 sf Scenario 2: 50,000 sf Scenario 3: 200,000 sf Retail: Uninc.; OCS; Office: Uninc.; OCS; Industrial: Uninc.; **Orange Rural Fire; OCS; Orange Rural Orange Rural Fire; Cheeks/Hills Park Cheeks/Hills Park** Fire; Cheeks/Hills [20-Year Net New [20-Year Net New [20-Year Net New Growth] Growth] Growth] **RESIDENTIAL:** Uninc. Co. Uninc or Inc. Uninc. Co. Uninc. Co. School District OCS OCS OCS Fire District **Orange Rural Orange Rural Orange Rural** Park Distict Cheeks / Hillsborough Cheeks / Hillsborough Cheeks / Hillsborough HOUSING UNITS 0 0 0 0 POPULATION NONRESIDENTIAL SQUARE FEET 100,000 50,000 200,000 JOBS 234 149 326 \$0 **\$0** RESIDENTIAL TAXABLE PROPERTY VALUE **\$0** \$16,500,000 \$12,100,000 \$6,985,000 NONRESIDENTIAL TAXABLE PROPERTY VALUE TOTAL TAXABLE PROPERTY VALUE \$12,100,000 \$6,985,000 \$16,500,000 MODEL VERSION: Filename: Orange Co FIM FY2019 PROJECT LEVEL v6 Test Nonres Uninc reviseCommPpt.xlsm RUN DATE: 2/9/2022

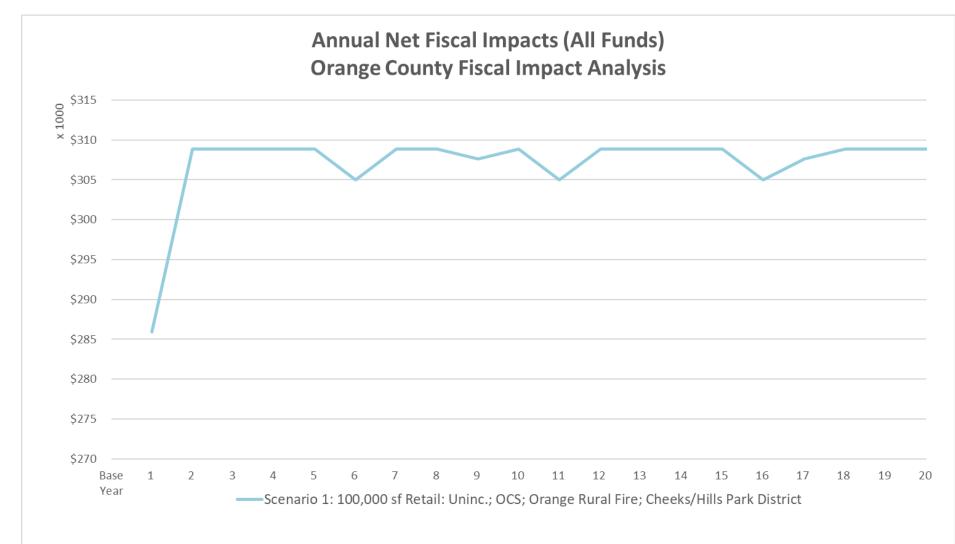
Example: Nonresid. in Uninc. County: Fiscal Results

NET FISCAL IMPACT: 20-Year C	umulative Results							
CUMULATIVE - Scenario Comparisons								
Orange County Fiscal Impact Model	NONRESIDENTIAL IN UNINCORPORATED COUNTY							
	SCENARIO							
	Scenario 1: 100,000 sf Retail: Scenario 2: 50,000 sf Office: Scenario 3: 200,000 sf							
	Uninc.; OCS; Orange Rural	Uninc.; OCS; Orange Rural	Industrial: Uninc.; OCS;					
	Fire; Cheeks/Hills Park	Fire; Cheeks/Hills Park	Orange Rural Fire;					
Category	District	District	Cheeks/Hills Park District					
Grand Total								
TOTAL REVENUES	\$7,849,654	\$1,287,188	\$3,028,127					
TOTAL EXPENDITURES	\$1,709,988	\$1,084,947	\$2,382,178					
NET FISCAL IMPACT	\$6,139,666	\$202,241	\$645,949					
MODEL VERSION:	Filename: Orange Co FIM_FY2019_PROJECT_LEVEL_v6_Test_Nonres_Uninc_reviseCommPpt.xlsm							
RUN DATE:	2/9/2022							

#### Results are 20-Year Cumulative Totals

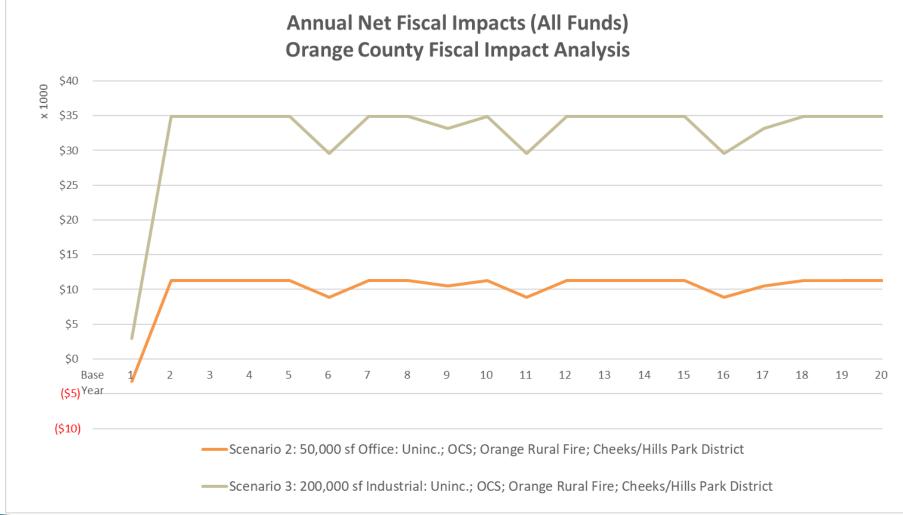


#### **Example: Retail in Uninc. County: Fiscal Results**





# Example: Office and Industrial in Uninc. County: Fiscal Results





# Wrap Up

- General findings:
  - o Nonresidential at default value assumptions typically generates positive fiscal results
  - $_{\odot}\,$  Retail generates the highest positive fiscal results of nonresidential land uses
  - o Certain residential development at high enough values generates positive fiscal results
- The model should be viewed as a tool
  - $\circ~\mbox{Results}$  and findings do not have a direct relationship in the UDO
- One piece of information among many to evaluate a project
  - Other non-fiscal factors should be considered when making land use decisions such as: job creation, jobs-housing balance/commute times, economic benefit of local spending from increased income
- Q&A

