REMI and Cost – benefit in VEGI Ken Jones, Economic Research Analyst, ACCD April 9, 2019

- 1. REMI calculates impact on the Vermont economy when a business makes a change
- 2. ACCD-managed cost-benefit model translates economic changes to Vermont state revenue changes both increased taxes and increased government costs
- 3. Final calculation translates changes in net revenue to a schedule of incentive payments

REMI Inputs

- Number of employees
- Wages plus compensation
 - o Construction (new and renovation) Only carried out by Vermont companies
 - Machinery and Equipment Only purchased from Vermont suppliers
- Industry Sector (for background growth)
- When the jobs are added and when the construction takes place

Key REMI outputs

- Personal income (for income tax)
- Personal consumption (for sales tax)
- Residential and non-residential capital stocks (for property tax)
- Population change (for several state government cost variables)

From REMI to the Benefit Cost (Tax Revenue and State Government Cost) model...

State tax revenues – General fund

Personal income tax (based on a straight percent of increased personal income) Other general fund revenues based on population change

State tax revenues – Transportation fund

New vehicle purchases (purchase and use tax) Fuel use (motor fuels tax) Other transportation fund revenues based on population change

State tax revenues – Education fund

P. tax revenues from project construction plus other Grand List growth Sales and Use tax (based on a straight percent of taxable purchases) Other ed fund revenues from sales and use, and purchase and use Other ed fund revenues based on population change

State government expenses – General fund and Transportation fund

Based on population change and per capita costs

State government expenses - Ed fund

Based on school age population change and per student costs to the Ed fund

The Calculations (CAUTION: Wonk alert)

- Total Net Benefit over five years (reduced by discount rate)
 - Reduced to 80% (or 90% green)
- Total Qualified Payroll increase
- Establish a Ratio of benefit to payroll increase
- Apply ratio to each year's payroll increase (reduced by background growth)
 - \circ When a year's payroll increase less than background \rightarrow no incentive
 - o Product for any individual year divided into 5 equal payments

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Тах	\$50,000	\$100 <i>,</i> 000	\$125 <i>,</i> 000	\$135 <i>,</i> 000	\$145 <i>,</i> 000	
Revenues						
State Gov't	\$20,000	\$60,000	\$80,000	\$90,000	\$100,000	
costs						
Net	\$30,000	\$40,000	\$45,000	\$45,000	\$45,000	\$205,000
Qualifying	\$100,000	\$200,000	\$50,000	0	\$50,000	\$400,000
Wage						
increase						
Background	\$10,000	\$21,000	\$32,500	\$44,000	\$56,000	
growth in						
wages						
Percent of	22.5%	44.75%	4.4%	0	0	71.6%
benefit						
available						
for						
incentive						