

### **Student Employment Impacts**

## Mean & Median Wage Growth One Year Before & One Year After Completion

#### **2016** Graduates

	Mean				Median			
Award	2015	2017	\$ Diff.	% Diff.	2015	2017	\$ Diff.	% Diff.
1-Year	4	40	4	2.224	40	4		2.224
Certificate	\$16,044	\$21,815	\$5,770	36%	\$8,591	\$16,874	\$8,283	96%
2-Year								
Certificate	\$15,365	\$25,359	\$9,994	65%	\$10,856	\$22,992	\$12,136	112%
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Associate	\$16,553	\$25,114	\$8,560	52%	\$11,361	\$21,199	\$9,838	87%
Bachelor's	\$16,596	\$32,889	\$16,293	98%	\$11,191	\$31,346	\$20,155	180%

## Mean & Median Difference in Wages Between Completers & Comparison Group

**2016 Graduates** 

	Mean				Median			
Award	Graduates	Comparison	\$ Diff	% Diff	Graduates	Comparison	\$ Diff.	% Diff.
2-year Certificate	\$25,359	\$24,074	\$1,285	5%	\$22,992	\$16,808	\$6,184	37%
Associate	\$25,114	\$24,074	\$1,040	4%	\$21,199	\$16,808	\$4,391	26%
Bachelor's	\$32,889	\$24,074	\$8,816	37%	\$31,346	\$16,808	\$14,538	86%



### **Fiscal Impacts of Graduate Wages**

	2-Year Certificate		Asso	ciate	Bachelor's		
	Mean \$	Additional		Additional		Additional	
Year	Diff.	Revenue	Mean \$ Diff.	Revenue	Mean \$ Diff.	Revenue	
2017	\$1,285	\$106,166	\$1,040	\$217,163	\$8,816	\$4,241,181	
2018	\$1,860	\$149,677	\$771	\$156,022	\$12,135	\$5,291,910	
2019	\$1,595	\$126,662	\$1,245	\$250,709	\$13,608	\$5,750,665	
2020	\$1,034	\$79,266	\$2,298	\$446,496	\$17,068	\$6,895,595	
2021	\$2,424	\$180,083	\$4,002	\$770,657	\$20,231	\$8,085,754	
		\$641,854		\$1,841,046		\$30,265,105	
Total Additional							
Revenue					\$32,748,006		

#### **THANK YOU!**



# How Much Does Higher Education Contribute to Utah's Economy?

February 1, 2024
Utah Legislature – Higher Education Appropriations Subcommittee

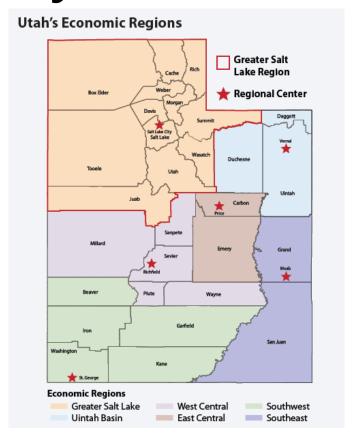


#### **Presentation Outline**

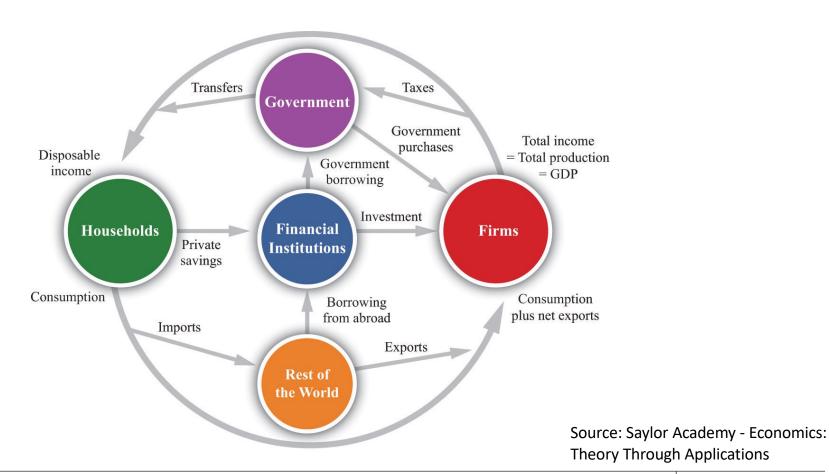
- Economic fundamentals
- Economic modeling approach
- Higher education economic contribution to Utah's economy

## What Drives the Location of Economic Activity?

- Economies respond heavily to availability and strength of basic economic resources ("factors of production")
  - Land / raw materials
  - Labor
  - Tools of production ("capital")
  - Entrepreneurship
- Location matters
  - Local availability of factors of production drives economic decision-making
- But....economies do not necessarily care about small political boundaries

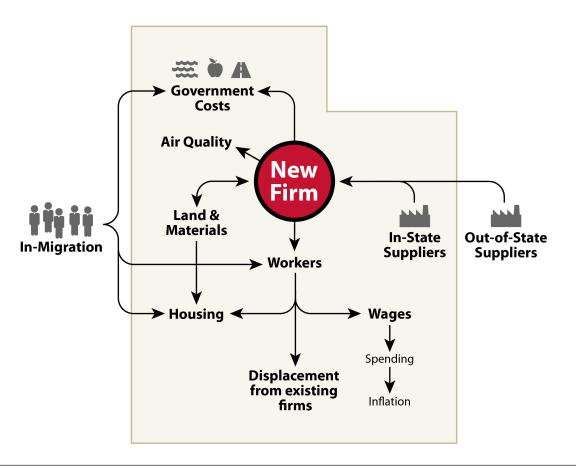


### **Circular Flow Model**



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### **Utah's Economy Functions Like an Ecosystem**



- Countless interconnections
  - Linkages
  - Leakages
- Important to consider overall impacts on the economic ecosystem with all linkages and leakages incorporated

Kem C. Gardner Policy Institute

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## Seen and Unseen Effects on Economic Ecosystem

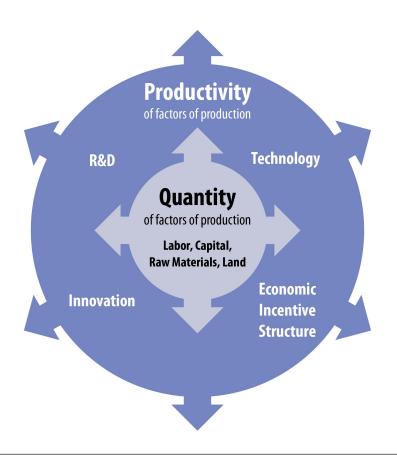


The art of economics consists in looking not merely at the immediate but at the longer effects of any act or policy; it consists in tracing the consequences of that policy not merely for one group but for all groups.

— Henry Hazlitt —

AZ QUOTES

#### **How Does Utah's Economic Pie Grow?**



#### **Factors of Production**

- Land / natural resources (Land, raw materials, water, timber, etc.)
- Labor Human capital
- Tools of production "Capital" (basic tools / equipment / buildings / public infrastructure)
- Entrepreneurship Combines factors of production in new ways

#### **Factor Accumulation**

- More worker hours
- More equipment
- More infrastructure

#### **Factor Productivity Growth**

- Improved human capital
- Improved technology
- Improved equipment
- Improved infrastructure

### What is an Economic Multiplier?



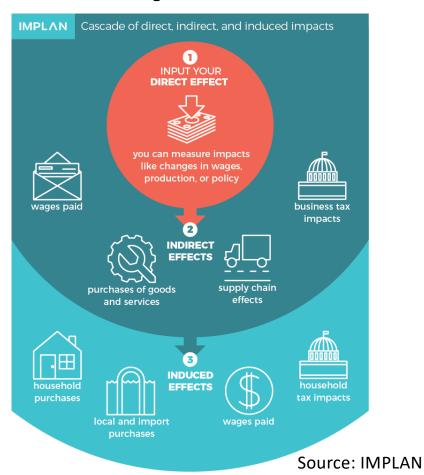




2 Indirect Effects



Induced Effects



### USHE Institution Estimated Economic Contributions to Utah's Economy

Economic Indicator	Direct Contribution	Total Contribution		
Jobs	~ 70,000	~130,000		
Labor Income	~\$5.3 billion	~\$8.3 billion		
Total Output	~\$10.5 billion	~\$22.1 billion		

Note: Conservative estimates based on operating expenses

Source: Kem C. Gardner Policy Institute using IMPLAN

### USHE Institution Estimated Economic Contributions to Utah's Economy

<u>Institution Type</u>	<u>Direct Value Added</u> (GDP)	<u>Total Value Added</u> (GDP)
Research	~\$4.3 billion	~\$9.3 billion
Regional	~\$0.7 billion	~\$1.4 billion
Community College	~\$0.2 billion	~\$0.4 billion
Technical College	~\$0.1 billion	~\$0.2 billion

Source: Kem C. Gardner Policy Institute using IMPLAN

## Education Multipliers Compared to Other Selected Industries in Utah

Industry	Multiplier
Construction	2.3
Hospitals	2.2
Professional and technical services	2.1
<b>Educational services</b>	2.1
Motor vehicle manufacturing	2.0
Air transportation	2.0
Motion picture and sound recording	1.8
Oil and gas extraction	1.8
Real estate	1.6

Source: RIMS II

## Utah Unemployment Near All-Time Lows - Where Are Firms Finding New Skilled Labor?



## Consider Different Types of Economic Benefits of Higher Education

- Near-term economic impacts
- Long-term economic impacts
- Broader societal impacts