

Economic Impacts of the UA Tech Park 2015

Executive Summary

Prepared by

VP Research & Consulting, LLC

Tucson, AZ

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Economic Impacts of the UA Tech Park in 2015

Executive Summary

Introduction

Economic impacts of an organization, industry, or a cluster of economic activities such as a university research park are commonly measured in terms of jobs, wages, and total output that these economic entities generate in local and regional economies.

Direct jobs (and associated direct wages and direct output) of the UA Tech Park reflect the actual size and volumes of production of goods and services of all tenants. This is also referred to as the "direct contribution" to the regional economy.

Indirect and induced impacts (jobs, wages, and output) are generated through relationships with other sectors in the local economy by way of purchasing goods and services for business operations and household needs. These impacts depend not only on the changes in direct jobs, wages, and outcome at the UA Tech Park, but primarily reflect changes in the complex inter-industry relationships in the entire economy of Pima County and the rest of Arizona.

Impacting Pima County: Direct jobs, wages, and output

In 2015, the UA Tech Park had 38 tenants representing more than 15 different industries, such as guided missiles; semiconductor manufacturing; surgical appliance and supplies manufacturing; search, detection, and navigation instruments manufacturing; scientific research and development services; data processing, and business support services. In addition, a number of tenants provided maintenance services and support to Park's employees, such as food services.

The total number of persons employed in 2015 was 5,128 which included both regular and contract employees. The direct contribution to the Pima County economy was \$425.0 million in labor income. The total direct output (including labor income) was \$956.2 million. (Exhibit 1)

Exhibit 1

UA Tech Park: Direct impact in Pima County 2015			
Number of employees 5,128			
Payroll\$425.0 million			
Output (including payroll)\$956.2 million			
Source: Annual tenant survey; IMPLAN model of Pima County			

Indirect and induced impacts

The local inputs into daily operations at the UA Tech Park together with employees' spending in the local economy generated an additional 3,843 jobs in Pima County. The indirect and induced dollar impact (output) was \$538.7 million, of which \$182.2 million was in labor income. (Exhibit 2)

Exhibit 2

UA Tech Park: Indirect & induced impacts in Pima County 2015		
Number of jobs 3,843		
Wages\$182.2 million		
Output (including wages)\$538.7 million		
Source: IMPLAN model of Pima County		

Total impact on Pima County's economy

In 2015, the total number of jobs in Pima County's economy associated with the activities at the UA Tech Park was 9,023. The Park contributed a total of \$609.5 million in wages, and an overall contribution to the County's output in the amount of \$1,502.7 million. Included in these figures are impacts of construction activity which generated \$7.8 million in output, including \$2.3 million in wages from 52 jobs in Pima County. (Exhibit 3)

Exhibit 3

UA Tech Park: Total economy 2015 (including construction-related)	·
Jobs	9,023
Wages	\$ 609.5 million
Total output(including wages)	\$ 1,502.7 million
	Source: IMPLAN model of Pima County

Multipliers

The overall economic impact of the UA Tech Park on the economy of Pima County in 2015 is expressed in terms of multipliers. (Exhibit 4)

Exhibit 4

UA Tech Park: Composite multipliers 2015 (including construction-related activities)		
Job multiplier 1.760		
Wage multiplier 1.434		
Output multiplier 1.572		
Source: IMPLAN model of Pima County		

The multipliers suggest that every job at the UA Tech Park generated 0.7 (or 76 per every 100) additional jobs in Pima County; every one dollar in wages generated an additional 43 cents in wages, while every dollar in the Park's output generated an additional 57 cents elsewhere in Pima County.

Impacts on Arizona's economy

The economic impacts of the UA Tech Park are felt throughout the entire state of Arizona. The total number of jobs in Arizona that depended on the activity of the UA Tech Park was 10,155 in 2015. This figure includes direct jobs on the UA Tech Park premises and all indirect and induced jobs generated through purchases of industrial inputs and consumer spending in Pima County and the rest of Arizona. Statewide, the UA Tech Park activities generated a total of \$1,738.7 million in output, of which \$691.4 million were wages. (Exhibit 5)

Exhibit 5

UA Tech Park: Total impacts on Arizona's economy in 2015 (including construction-related activity)		
Jobs	10,155	
Wages	\$ 691.4 million	
Total output(including wages)	\$1,738.7 million	
	Source: IMPLAN model of Arizona	

Contributions to state and local tax revenues

In 2015 in Pima County, the UA Tech Park's activities generated an estimated \$37.9 million in tax revenues to local and state governments. Through additional spending outside Pima County, the total tax revenue impact was \$50.0 million. (Exhibit 6)

Exhibit 6

UA Tech Park: State and local tax revenues 2015 Generated in:
Pima County\$37.9 million
Arizona (including Pima County) \$50.0 million
Source: IMPLAN model of Pima County and Arizona

Place of residence of UA Tech Park employees

Less than 10 percent of UA Tech Park employees reside within 5-mi radius. About 28 percent are within 5 to 10-mi radius, and approximately the same number (or 27%) resides within 10 and 15 mi radius. Close to 13 percent reside between 15 and 20 mi radius, and another 10 percent, or every tenth employee, resides between 20 and 25 mi. Less than 8 percent commute from distances beyond 25 miles. For the remaining 5 percent of employees the data were not provided (Exhibit 7).

Exhibit 7

Data and Methodology

This analysis is based on data for calendar year 2015. Data was gathered through the annual tenant survey conducted in spring 2016 in combination with information extracted from the IMPLANⁱ models of Pima County and Arizona. Indirect and induced jobs, associated wages and output in Pima County and Arizona were estimated using the input-output methodology incorporated in the IMPLAN models. The IMPLAN county and state models also provided estimates of aggregated state and local tax revenues.

ⁱ IMPLAN modeling is widely used in academic and applied research of economic impacts associated with industry changes. Originally developed by the University of Minnesota research team, it is now operated and maintained by the MIG, Inc. of Hudson, Wisconsin.

Economic Impacts of the UA Tech Park 2015

Appendix:

Tables for Pima County and Arizona

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List of Tables

- 1. Direct Jobs, Wages, and Output, 2015 Pima County
- 2. Indirect and Induced Jobs, 2015 Pima County and Arizona
- 3. Indirect and Induced Wages, 2015 Pima County and Arizona
- 4. Indirect and Induced Output, 2015 Pima County and Arizona
- 5. Summary of Operations-Related Impacts, 2015 Pima County
- 6. Summary of Operations-Related Impacts, 2015 Arizona
- 7. Construction-Related Impacts, 2015 Pima County
- 8. Construction-Related Impacts, 2015 Arizona
- 9. Summary of Operations- and Construction-Related Impacts, 2015 Pima County
- 10. Summary of Operations- and Construction-Related Impacts, 2015 Arizona
- 11. Operations-Related Tax Revenues, 2015 Pima County and Arizona
- 12. Construction-Related Tax Revenues, 2015 Pima County and Arizona
- 13. Summary of Operations- and Construction-Related Tax Revenues, 2015 Pima Co. and Arizona
- 14. Summary of UA Tech Park's Economic Impacts in Pima County, 2015
- 15. Summary of UA Tech Park's Economic Impacts in Arizona, 2015
- 16. Comparison of 2015 Pima County Impacts with Previous Studies
- 17. Comparison of 2015 Pima County Impacts with Previous Studies (% Change)
- 18. Place of Residence of Tenants' Employees by Zip Code, 2015 and 2013

List of Charts

- 1. Total Job Impact in Pima County 1997-2015
- 2. Total Wage Impact in Pima County 1997-2015
- 3. Total Output Impact in Pima County 1997-2015

ECONOMIC IMPACTS 2015

A. OPERATIONS-RELATED ECONOMIC IMPACTS

Table 1. Direct Jobs, Wages, and Output, 2015 Pima County

Operations-related	Jobs	Wages \$ mil	Output* \$ mil
Direct impact	5,128	425.0	956.2

Source: UA Tech Park Tenant Survey; Pima County IMPLAN® Model. *Includes wages.

Table 2. Indirect and Induced Jobs, 2015 Pima County and Arizona

Operations-related	Pima County	Rest of Arizona	Arizona Total
Indirect jobs	1,275	345	1,620
Induced jobs	2,568	778	3,346
Total	3,843	1,123	4,966

Source: UA Tech Park Tenant Survey; Pima County and Arizona IMPLAN® models.

Table 3. Indirect and Induced Wages, 2015 Pima County and Arizona

Operations-Related	Pima County \$ mil	Rest of Arizona \$ mil	Arizona Total \$ mil
Indirect wages	71.9	29.0	100.9
Induced wages	110.3	52.1	162.4
Total	182.2	81.1	263.3

Source: UA Tech Park Tenant Survey; Pima County and Arizona IMPLAN® models.

Table 4. Indirect and Induced Output,* 2015 Pima County and Arizona

Operations-related	Pima County \$ mil	Rest of Arizona \$ mil	Arizona Total \$ mil
Indirect output	191.9	84.2	276.1
Induced output	346.8	150.1	496.9
Total	538.7	234.3	773.0

Source: UA Tech Park Tenant Survey; Pima County and Arizona IMPLAN® Models.

^{*} Output includes wages.

Table 5. Summary of Operation-Related Impacts, 2015 Pima County

Operations-related	Jobs	Wages \$ mil	Output* \$ mil
Direct	5,128	425.0	956.2
Indirect & induced	3,843	182.2	538.7
Total	8,971	607.2	1,494.9
Composite multiplier	1.749	1.429	1.563

Source: UA Tech Park Tenant Survey; Pima County IMPLAN® model.

Table 6. Summary of Operations-Related Impacts, 2015 Arizona**

Operations-related	Jobs	Wages \$ mil	Output* \$ mil
Direct	5,128	425.0	956.2
Indirect & induced	4,966	263.3	773.0
Total	10,094	688.3	1,729.2
Composite multiplier	1.968	1.620	1.808

Source: UA Tech Park Tenant Survey; Arizona IMPLAN® model.

B. ONE-TIME ECONOMIC IMPACTS FROM CONSTRUCTION ACTIVITY

Table 7. Construction-Related Impacts, 2015 Pima County

Construction-related	Jobs	Wages \$ mil	Output* \$ mil
Direct	29	1.5	5.2
Indirect & induced	23	0.8	2.6
Total	52	2.3	7.8
Composite multiplier	1.793	1.533	1.500

Source: UA Tech Park Tenant Survey; Pima County IMPLAN Model.®

^{*}Includes wages.

^{*} Output includes wages; **Includes impacts in Pima County.

^{*}Output includes wages.

Table 8. Construction-Related Impacts, 2015 Arizona**

Construction-related	Jobs	Wages \$ mil	Output* \$ mil
Direct	29	1.7	5.2
Indirect & induced	32	1.4	4.3
Total	61	3.1	9.5
Composite multiplier	2.103	1.835	1.817

Source: UA Tech Park Tenant Survey; Arizona IMPLAN® model. *Output includes wages. **Includes impacts in Pima County.

C. TOTAL ECONOMIC IMPACTS: OPERATIONS AND CONSTRUCTION

Table 9. Summary of Operations- and Construction-Related Impacts, 2015 Pima County

Pima County	Jobs	Wages \$ mil	Output* \$ mil
Operations	8,971	607.2	1,494.9
Construction	52	2.3	7.8
Total	9,023	609.5	1,502.7

Source: UA Tech Park Tenant Survey; Pima County IMPLAN® Model.

 $*Output\ includes\ wages.$

Table 10. Summary of Operations- and Construction-Related Impacts, 2015 Arizona**

Arizona	Jobs	Wages \$ mil	Output* \$ mil
Operations	10,094	688.3	1,729.2
Construction	61	3.1	9.5
Total	10,155	691.4	1,738.7

Source: UA Tech Park Tenant Survey; Arizona IMPLAN® Model. *Output includes wages; **Arizona impacts include Pima County.

D. TAX REVENUE IMPACTS

OPERATIONS-RELATED TAX REVENUE IMPACTS

Table 11. Operations-Related Tax Revenues, 2015

Operations-related	Pima County \$ mil	Arizona* \$ mil
Direct	11.1	12.7
Indirect	5.4	8.4
Induced	21.0	28.6
Total	37.5	49.6

Source: Pima and Arizona IMPLAN® models.

CONSTRUCTION-RELATED TAX REVENUE IMPACTS

Table 12. Construction-Related Tax Revenues, 2015

Construction- related	Pima County \$ mil	Arizona* \$ mil
Direct	0.12	0.1
Indirect	0.13	0.2
Induced	0.09	0.1
Total	0.34	0.4

Source: Pima and Arizona IMPLAN® models.

TOTAL TAX REVENUE IMPACTS: OPERATIONS AND CONSTRUCTION

Table 13. Summary of Operations- and Construction-Related Tax Revenues, 2015

Source	Pima County \$ mil	Arizona* \$ mil
Operations	37.5	49.6
Construction	0.3	0.4
Total	37.9	50.0

Source: Pima and Arizona IMPLAN® models.

^{*}Includes Pima County impacts.

^{*}Includes Pima County impacts.

^{*}Includes Pima County impacts.

E. SUMMARY OF ECONOMIC IMPACTS, 2015

Table 14. Summary of UA Tech Park's Economic Impacts in Pima County, 2015

Pima County	Operations	Construction	Total
Jobs	8,971	52	9,023
Wages (mil)	\$607.2	\$2.3	\$609.5
Tax revenues (mil)	\$37.5	\$0.3	\$37.9
Other value added* (mil)	\$850.2	\$5.2	\$855.3
Total output (mil)	\$1,494.9	\$7.8	\$1,502.7

Source: Pima County IMPLAN® model;

Table 15. Summary of UA Tech Park's Economic Impacts in Arizona,** 2015

Arizona	Operations	Construction	Total
Jobs	10,094	61	10,155
Wages (mil)	\$688.3	\$3.1	\$691.4
Tax revenues (mil)	\$49.6	\$0.4	\$50.0
Other value added* (mil)	\$991.3	\$5.9	\$997.2
Total output (mil)	\$1,729.2	\$9.5	\$1,738.7

Source: UA Tech Park Tenant Survey; Arizona IMPLAN® model.

^{*&}quot;Other value added" includes value added other than wages and tax revenues. The IMPLAN model does not specify other value added; instead, figures are derived from the output estimate minus wages and tax revenues.

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Table 18. Place of Residence of Tenants' Employees by Zip Code, 2015 and 2013

ZIP	Average distance from UA Tech Park (miles)	Number of employees 2015	% Distribution by Zip 2015	% Distribution by Zip 2013	% Change 2015/2013
85747	3.0	381	9.5	7.6	24.7
Sum <5	mi	381	9.5	7.6	24.7
85730	6.3	284	7.1	6.4	10.9
85706	6.8	219	5.4	5.6	-2.7
85708	7.0	3	0.1	0.2	-62.7
85710	8.2	294	7.3	8.1	-9.7
85714	9.0	25	0.6	0.9	-30.9
85748	9.1	191	4.8	3.6	31.9
85711	9.2	129	3.2	3.1	3.5
Sum 5 t	o <10	1,145	28.5	27.9	2.2
85715	10.0	106	2.6	2	31.8
85712	11.0	75	1.9	2.3	-18.9
85713	11.2	129	3.2	2.8	14.6
85716	11.7	77	1.9	2	-4.3
85701	12.0	22	0.5	0.4	36.8
85641	12.1	303	7.5	6.4	17.7
85749	12.4	153	3.8	3	26.8
85719	12.5	37	0.9	1.3	-29.2
85746	13.6	148	3.7	4.7	-21.7
85705	14.8	57	1.4	1.8	-21.2
Sum 10	to <15	1,107	27.5	26.7	3.1
85718	15.4	85	2.1	1.9	11.3
85750	15.7	134	3.3	3	11.1
85757	15.9	76	1.9	1.5	26.0
85745	16.3	141	3.5	3.7	-5.2
85704	18.3	78	1.9	2.3	-15.7
Sum 15	to <20 mi	514	12.8	12.4	3.1
85741	20.5	82	2.0	2.7	-24.5
85737	22.3	95	2.4	2.6	-9.1
85743	23.0	118	2.9	3.1	-5.3
85742	23.6	90	2.2	2.6	-13.9
Sum 20	to <25 mi	385	9.6	11.0	-13.0
85739	25.2	17	0.4	0.3	40.9

Total		4,021	100.0	100.0	
Sum other 8	& N/A	196	4.9	4.5	8.3
N/A		169	4.2	4.4	-4.5
91320		1	0.0	0	
80504		1	0.0	0	
85756		17	0.4	0.1	322.8
85751		2	0.0	0	
85744		1	0.0	0	
85731		1	0.0	0	
85637		3	0.1	0	
85602		1	0.0	0	
Sum >40 mi		88	2.2	2.9	-24.5
85658	47.2	30	0.7	0.9	-17.1
85736	44.1	8	0.2	0.3	-33.7
85614	40.7	22	0.5	0.9	-39.2
85653	40.6	28	0.7	0.8	-13.0
Sum 30 to <	40 mi	117	2.9	4.5	-35.3
85629	31.0	117	2.9	4.5	-35.3
Sum 25 to <	30 mi	88	2.2	2.3	-4.8
85735	28.8	26	0.6	0.8	-19.2
85755	25.6	45	1.1	1.2	-6.7

Source: UA Tech Park Tenant Survey 2015; 2013.

COMPARISON WITH PREVIOUS STUDIES

Table 16. Comparison of 2015 Pima County Impacts with Previous Studies (wages, taxes, and output in \$ millions)*

	1997-98	1999	2000-01	2003-04	2007	2008	2009	2010	2013	2015
Number of tenants	17	21	31	31	32	40	40	45	47	38
Direct jobs	4,173	5,309	5,949	6,226	6,175	6,938	6,494	5,961	6,226	5,128
Total jobs (operations)	8,491	10,866	12,150	12,985	13,027	14,787	11,835	12,662	14,321	8,971
Total jobs (construction)	144	1,673	345	320	220	16	33	77	38	52
Total job impact	8,635	12,539	12,495	13,305	13,247	14,803	11,868	12,739.0	4,359	9,023
Wage impact (operations)	358.9	437.8	595.7	607.6	678.9	900.4	610.1	652.2	845.9	609.5
Wage impact (construction)	3.5	40.2	8.3	24.0	9.2	0.7	1.3	3.0	1.7	2.3
Total wage impact	362.4	478.0	604.0	631.6	688.1	901.1	611.4	655.2	847.6	609.5
Tax revenues (operations)	28.7	34.8	48.7	43.1	63.0	77.8	41.0	42.2	51.3	37.5
Tax revenues (construction)	0.1	4.0	0.3	0.6	0.9	0.1	0.2	0.3	0.1	0.3
Total tax revenue impact	28.8	38.8	49.0	43.7	63.9	77.9	41.2	42.5	51.4	37.9
Dollar impact (operations)	,127.3	1,361.8	1,850.4	1,896.9	2,417.6	,019.5	2,163.9	2,297.7	2,332.0	1,494.9
Dollar impact (construction)	7.2	83.5	17.2	27.4	35.9	1.4	5.2	8.1	5.2	7.8
Total dollar impact	1,134.5	1,445.3	1,867.6	1,924.3	2,453.5	3,020.9	2,169.1	2,305.8	2,337.2	1,502.7

Source: Source: Impact Studies 1997-1998, 1999, 2000-2001, 2003-2004, 2007, 2008, 2009 2010, 2013, and 2015.

^{*}Impacts 2013 and 2015 do not include visitors' impacts. In previous studies visitors' impacts are reported together with construction-related impacts.

Table 17. Comparison of 2015 Pima County Impacts with Previous Studies (% change)*

	2015/ 1997	2015/ 1999	2015/ 2000	2015/ 2003	2015/ 2007	2015/ 2008	2015/ 2009	2015/ 2010	2015/ 2013
Number of tenants	123.5	81.0	22.6	22.6	18.8	(5.0)	(5.0)	(15.6)	(19.1)
Direct jobs	22.9	(3.4)	(13.8)	(17.6)	(17.0)	(26.1)	(21.0)	(14.0)	(17.6)
Total jobs (operations)	5.7	(17.4)	(26.2)	(30.9)	(31.1)	(39.3)	(24.2)	(29.2)	(37.4)
Total jobs (construction)	-63.9	(96.9)	(84.9)	(83.8)	(76.4)	225.0	57.6	(32.5)	36.8
Total job impact	4.5	(28.0)	(27.8)	(32.2)	(31.9)	(39.0)	(24.0)	(29.2)	(37.2)
Wage impact (operations)	69.8	39.2	2.3	0.3	(10.2)	(32.3)	(0.1)	(6.5)	(27.9)
Wage impact (construction)	-34.3	(94.3)	(72.3)	(90.4)	(75.0)	228.6	76.9	(23.3)	35.3
Total wage impact	68.2	27.5	0.9	(3.5)	(11.4)	(32.4)	(0.3)	(7.0)	(28.1)
Tax revenues (operations)	30.7	7.8	(23.0)	(13.0)	(40.5)	(51.8)	(8.5)	(11.1)	(26.9)
Tax revenues (construction)	200.0	(92.5)	-	(50.0)	(66.7)	200.0	50.0	3.4	200.0
Total tax revenue impact	31.6	(2.3)	(22.7)	(13.3)	(40.7)	(51.3)	(8.0)	(10.8)	(26.3)
Dollar impact (operations)	32.6	9.8	(19.2)	(21.2)	(38.2)	(50.5)	(30.9)	(34.9)	(35.9)
Dollar impact (construction)	8.3	(90.7)	(54.7)	(71.5)	(78.3)	457.1	50.0	(3.7)	50.0
Total dollar impact	32.5	4.0	(19.5)	(21.9)	(38.8)	(50.3)	(30.7)	(34.8)	(35.7)

^{*} Impacts 2013 and 2015 do not include visitors' impacts. In previous studies visitors' impacts are reported together with construction-related impacts.

Source: Impact Studies 1997-1998, 1999, 2000-2001, 2003-2004, 2007, 2008, 2009 2010, 2013, and 2015.

2015 5,128 3,895 2013 6,226 8095 2010 5,961 6,778 2009 6,494 5,374 2008 6,938 7,865 2007 6,175 7,072 2003-04 6,226 7,079 2000-01 5,949 6,546 1999 5,309 7,230 1997-98 4,173 5,000 10,000 15,000 20,000 ■ Direct jobs ■ Indirect & induced jobs

Chart 1. Total Job Impact in Pima County 1997-2015

 $Source: Impact Studies \ 1997-1998, \ 1999, \ 2000-2001, \ 2003-2004, \ 2007, \ 2008, \ 2009 \ 2010, \ 2013, \ and \ 2015.$

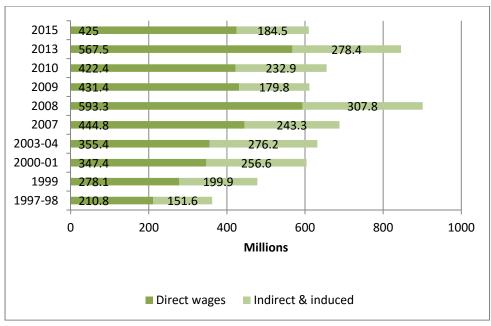
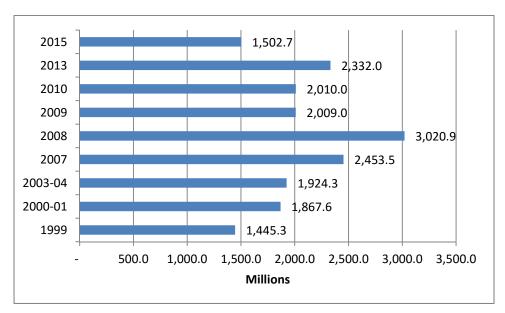


Chart 2. Total Wage Impact in Pima County 1997-2015

Source: Impact Studies 1997-1998, 1999, 2000-2001, 2003-2004, 2007, 2008, 2009, 2010, 2013, and 2015.

Chart 3. Total Dollar Impact in Pima County 1997-2015



Source: Impact Studies 1997-1998, 1999, 2000-2001, 2003-2004, 2007, 2008, 2009, 2010, 2013, and 2015.

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About the Author



Vera Pavlakovich-Kochi, Ph.D. VP Research & Consulting, LLC

VP Research & Consulting LLC (VP standing for "Very Professional") was founded and managed by Dr. Vera Pavlakovich-Kochi in Tucson, Arizona. During more than 25 years at the University of Arizona as senior regional scientist and affiliate faculty, Dr. Pavlakovich-Kochi authored and co-authored numerous studies, including impact assessment of various agents on local and regional

economies, such as universities and science and research parks; Mexican maquiladora sector; fresh produce industry; Mexican visitors to Arizona, and transborder region-building. Articles on Arizona's economy and U.S.-Mexican border have been published in *Arizona's Economy, Arizona's Review, Journal of Borderlands Studies, Revista de El Colegio de Sonora, Estudios Sociales, Studies in Regional Science*, as book chapters, the Arizona Town Hall reports, and online at https://azmex.eller.arizona.edu. Dr. Pavlakovich-Kochi holds B.A. and M.A. degrees from the University of Zagreb, Croatia, and a Ph.D. degree in Geography and Regional Development from Kent State University. Dr. Pavlakovich-Kochi is a Fulbright scholar (Austria 1997).

6/21/16



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Tech Parks Arizona is part of Tech Launch Arizona, a University of Arizona initiative to create an ecosystem of invention, commercialization and impact.