The Effect of Town and Gown on Local Economic **Development: An Analysis of** Partnerships, Planning, and Policy

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Abstract

The relationship between institutions of higher learning and their local communities is often described as "town and gown." Few studies examine how these partnerships affect state and local public administration and local economic development. We analyzed data from the 2014 Economic Development Survey carried out by the International City/County Management Association (ICMA) to reveal empirical evidence regarding the factors that influence the formation of town and gown partnerships and the effects of these partnerships on local economic development. Communities that form town and gown partnerships were more likely to have written economic development plans and to utilize multiple development tools.

Keywords: economic development tools, town and gown partnership

institutions of higher learning (Florida, development. 2014), just as Silicon Valley owes an enormous debt to the expertise provided by the faculty and students of Stanford University (Glaeser, 2011).

tate and local governments operate become strained, impeding the formation in an environment of constraint, of partnerships (Brockliss, 2000; Bruning et facing complex economic and al., 2006; Kemp, 2013; Martin et al., 2005; social challenges. Colleges and Mayfield, 2001; O'Mara, 2012). Conflict universities are some of the most may arise over such issues as taxes, landimportant assets for state and local govern- use decisions, and the behavior of students ments. These institutions contribute greatly (Hatcher & Childress, 2016). Efforts to foster to the social, political, and economic life of town and gown partnerships must accordthe communities in which they are located ingly take into account factors that promote (Carroll & Smith, 2006; Chatterton, 2000; their formation in the first place, as well as Gray, 1999). Institutions of higher learning their effects on local policy. These issues, maintain large, stable, and creative work- however, have been understudied in the forces that play significant roles in local public administration literature. Few studeconomies (Lendel, 2010), and they are in a ies, before this one, have used empirical unique position to provide culture and ame- data to assess the characteristics of comnities and a steady supply of new ideas and munities that form strong relationships technologies. Boston's highly productive with local institutions of higher learning creative class economy, for instance, owes and the effects of these relationships on an enormous debt to the city's world-class state and local government and economic

Beyond the economic benefits of town and gown and partnerships, there are a host of engaged learning opportunities produced by universities and their communities Yet despite the vital assets that universi- working together. The engaged learnties and colleges represent for many com- ing opportunities can include internships, munities, town and gown relations often service-learning projects, speaker series, applied research, and other experiential with little attention paid to the contribuactivities that benefit students and com- tions of universities to the development of munity partners as well (Martin et al., the surrounding communities (Breznitz & 2005). Additionally, robust town and gown Feldman, 2012; Feller, 1990; Franz, 2009; partnerships have the potential to create Trencher et al., 2014). interdisciplinary workgroups that include faculty from numerous fields working with students and community partners to address local problems and in doing so provide an effective engaged learning experience for students (Laninga et al., 2011).

Given the economic, social, and learning of Louisville, through the Housing and impacts of universities and colleges, public Neighborhood Development Strategies administration has a responsibility to help (HANDS; now known as Sustainable Urban state and local governments form mean- Development or SUN) initiative, spearingful town and gown partnerships. The headed the redevelopment of the city's East present study was accordingly designed to Russell neighborhood, helping to address answer two research questions. First, what local economic problems by building a confactors influence the formation of town sensus among various partnering developand gown partnerships? Second, are there ment organizations (Mullins & Gilderbloom, significant differences regarding local eco- 2006). This effort promoted new businesses nomic development in communities with in the neighborhood, improved the availtown and gown partnerships? To answer ability of housing, and led to a discussion these questions, we relied on data from of redesigning the streetscape to include the 2014 Economic Development Survey slower two-way roads with bike lanes conducted by the International City/County (Meares et al., 2015). The Louisville case Management Association (ICMA) (ICMA, is an example of the benefits to be gained 2014a). The ICMA's Economic Development from an understanding of the administra-Survey is a national survey sent to U.S. tive features of town and gown partnerships counties and municipalities to collect in- and the roles of universities as coordinatformation on the economic development ing bodies in the forging of a consensus for priorities, practices and challenges of local community development. governments. Given the limited research on town and gown partnerships, our analysis was necessarily exploratory in nature, intended to offer a grounded explanation for the formation of these partnerships and an account of their effects on community economic development.

Town and Gown Relations

Universities and colleges serve as hubs for innovation and research, connecting public, private, and nonprofit entities in ways that promote local economic development and strengthen state and local governance. Educational institutions are stable assets that not only benefit local economies but University and local officials often, however,

In many cities, institutions of higher education have played crucial roles in the revitalization of neighborhoods, especially in areas bordering universities and colleges (Garber & Adams, 2017). An example is Louisville, Kentucky, where the University

Moreover, universities serve as anchor institutions (Birch et al., 2013), for the education industry is central to the growth of the knowledge economy. And since this industry is characterized by significant levels of face-to-face interaction, colleges and universities are commonly bound to a particular location, for which reason their land-use, procurement, and employment practices help to stabilize local economies. The procurement policies of the University of Pennsylvania, for example, have injected nearly \$122 million into local businesses in West Philadelphia during fiscal year 2015 (University of Pennsylvania, 2016).

also invigorate communities socially and find themselves engaged in conflict rather politically (Breznitz & Feldman, 2012). than cooperation (Martin et al., 2005; Silva Such economic success stories as those of et al., 2003), so there is again a need for Boston and Silicon Valley have been widely research in public administration to undiscussed in the scholarly and popular derstand how state and local governments literature on community development can help form collaborative town and gown (Glaeser, 2011). Past studies have focused on partnerships. Collaboration among public such issues as the influence of educational institutions is obviously required to adinstitutions on economic growth through dress the complex challenges that states technology transfer (Miner et al., 2001), and localities face (Kettl, 2006). This need

nerships.

The aforementioned cases of the University of Pennsylvania and the University of however, there are also negative aspects. Although universities serve as anchor institutions and have a vested interest in nearby neighborhoods, the main focus of a university is attracting and retaining students (Bose, 2015; Ehlenz, 2018). Thus, university investment decisions may at times reflect a tradeoff between serving the students and being a good community partner. This has led to many instances of tense relationships between a university and the surrounding neighborhoods. The development activity of a university can increase rents and home prices in adjacent neighborhoods (Bose, 2015). Universities also market some neighborhoods as student enclaves, which can exert upward pressure on the cost of housing in these neighborhoods. The increase in housing cost can lead to gentrification and displacement of existing residents, as has occurred, for example, in the Brighton neighborhood in Boston. Brighton is located in close proximity to local universities. With a growing demand for private market student housing close to campus, the cost of housing has increased significantly, which has pushed a portion of the nonstudent population out of the neighborhood (City of Boston, 2014). This problem is seen in many cities, including Atlanta, London, Toronto, New York, Philadelphia, and Chicago (Ehlenz, 2016, 2018; Foote, 2017; Smith, 2008). Tense relationships between universities and the surrounding neighborhoods hinder collaborative efforts of cities and universities in different policy areas, including economic development.

local officials and business leaders (Kemp, copy in June 2014 to a nationwide sample of

is underscored by the environment of con- 2013; Martin et al., 2005), with issues relatstrained resources that public agencies ing to land use and taxation having proved operate in, which encourages competition particularly vexatious for town and gown rather than collaboration. Public manag- relations. A second major source of tension ers who appreciate the interdependence reflects social concerns. In some cases, of community governance and economics universities view the surrounding areas as tend to encourage their organizations to unsafe; in others, students are held responengage in collaborative solutions (O'Leary sible for a variety of community problems & Bingham, 2009; Thomson & Perry, 2006), ranging from misbehavior to lack of parking one important example being administra- (Kemp, 2013). Again, however, these chaltive decisions to form town and gown part- lenges must be considered in the context of the wealth of opportunities that town and gown partnerships can bring when, for example, faculty share their expertise with the community, students volunteer to take part Louisville highlight some of the positive in local projects, and instructors use local features of town and gown relationships; communities as classrooms (Barnes et al., 2009; Kennedy, 1999; cf. Bringle & Hatcher, 2002; Maurrasse, 2002).

> Scholars and practitioners have arrived at various, often competing, explanations for the ways in which town and gown partnerships can provide experiential learning opportunities for students (Bringle & Hatcher, 2002), facilitate public health outreach (Seifer, 2000), and improve economic development. Once more, however, few studies have sought to identify the specific features of communities that form town and gown partnerships. In one such study, Martin et al. (2005) relied on case study evidence to identify funding, communication, synergy, measurable outcomes, visibility of applied research, and organizational capacity as key factors in the formation of successful town and gown relationships; however, neither this study nor any other has yet provided an empirical account of the characteristics of communities that form town and gown partnerships and the effects of these partnerships on local economic development policy. We accordingly sought to address this gap in the literature by using ICMA data to identify factors that promote the formation of town and gown partnerships and to explore the effects of those partnerships on local economic development policy.

Methodology and Exploratory Research Models

Since there have been few studies in the literature examining the administrative features of town and gown partnerships, we Further case study evidence makes clear developed an exploratory research design that collaboration can be difficult to achieve. that used data from ICMA's 2014 survey First, the development decisions of univer- on local economic development. ICMA adsities often run counter to the wishes of ministered this survey by mailing a paper

and counties. ICMA also made an online of communities in all of our models. survey available. Of potential participants, 1,201, or 23%, completed the survey, a re- Moving on to the next factor, previous stud-Kim, 2001; Sharp, 1991).

The ICMA survey instrument contains a number of economic development questions relevant to this study. To examine empirically the efficacy of town and gown partnerships, we used those indicating the existence of town and gown partnerships and those indicating the economic development practices in place in various communities. We analyzed the questions using basic descriptive analysis and multivariate analysis to develop three complementary models to account for the formation of town and gown partnerships and their effects on economic development planning and policy.

Model 1: Explaining the Formation of **Town and Gown Partnerships**

In developing a model for the formation of town and gown partnerships, we hypothesized that the size of a community, the form of the local government, the type of organizations responsible for local development, and the regional context would be significant factors in determining whether a community is likely to form partnerships with a local institution of higher learning. The formation of a town and gown partnership was thus the dependent variable for the first model.

5,237 municipal and county governments. smaller ones. We accordingly created the Accordingly, the units of analysis were cities variable "metro size" or analysis of the size

sponse rate that falls within a range com- ies have demonstrated that, unsurprisingly, monly seen in public administration schol- the form of local government affects ecoarship. We recognize this response rate as nomic development policy (Feiock and Kim, a limitation on our research and thus again 2001; Sharp, 1991). Thus, governments can stress that our work here was exploratory be classified in terms of their structure as in nature. At the same time, data collected mayor-council, council-manager, comby ICMA have been used in numerous stud- mission, town meeting, or representative ies in the public administration literature, town meeting, and counties as commisincluding investigations of the effectiveness sion, council-administrator (or councilof local government (Pavlichev, 2004), the manager), or council-elected executive. implementation of e-government services (These classifications were based on the (Reddick, 2009; Reddick & Frank, 2007), and ICMA data and the literature on the influespecially economic development (Feiock & ence of the form of local government.) We found systems run by a professional city or county manager and a council to be most likely to adopt and implement rational, evidence-based policies. From our perspective, the formation of town and gown partnerships when possible is more rational than the pursuit of policies that do not involve such partnerships. To analyze the effect of the local form of government, we coded the communities based on their answers to the ICMA survey question regarding their form of government, being particularly interested in the effect of a professionally selected manager or local executive on town and gown policies.

The type of organization responsible for local economic development is the third factor taken into account in Model 1 with regard to the relationship between town and gown partnerships and economic policy outcomes. The type of organization responsible for local economic development is classified into two groups: directly managed by the local government or operated by a nonprofit organization. Agencies directly managed by the local government normally include offices within cities and counties. The types of nonprofit economic development organizations (NEDOs) involved in local economic development include many forms of nonprofits. Some examples are Regarding the effect of community size, chambers of commerce, business advocacy larger cities and counties may be home to groups, state and federally funded commultiple industries and therefore less de- munity organizations, and small-business pendent on local higher learning institutions development. Administrative decisions may than smaller ones and less likely to form differ in a community that relies primartown and gown partnerships. Furthermore, ily on nonprofit organizations, or rather, such sources of friction between local gov- on government agencies to manage its ernments and institutions of higher learn- economic development (Feiock & Andrew, ing as land use and development may be 2006; Lipsky & Smith, 1989; Mirvis, 1992; more prevalent in larger communities than Moore, 2000). As it happens, communities

policy (Sullivan, 2004). Given that nonprofit development than mayor-council cities. organizations tend to be more flexible than governmental agencies (Feiock & Andrew, 2006), we hypothesized that communities in which NEDOs are primarily responsible for local economic development would be more likely to form town and gown partnerships than those in which governmental agencies are primarily responsible for development. In order to test this hypothesis, we included the variable of economic development responsibility in our models.

Model 2: Explaining the Effect of Town and Gown Partnerships on Economic Development Planning

Model 2 was designed to examine the effect that town and gown partnerships have on tools (Feiock and Kim, 2001), with scholars the overall efficacy of local economic dewhether communities that had entered into and Gaile, 1989). town and gown partnerships were more likely to have been pursuing evidence-based strategies than communities that had not. Previous studies have investigated thoroughly the role of planning in local economic development (Blair, 1998; Garcia et al., 1991; Pammer, 1998). In the literature on local government and economic development, planning has consistently been identified as a crucial evidence-based strategy for communities. Kemp (1992) found that strategic planning helped local governments to function effectively and moderated the influence of politics on local administrative decision-making. Leigh and Blakely (2013) argued similarly that, by planning for local economic development, communities could avail themselves of a means of addressing economic challenges created by changing employment climate processes such as globalization, growing inequality, and the increasing scarcity of stable jobs. To assess whether town and gown communities were more likely to plan, we created a binary dependent variable for whether communities did or did not have a written economic development plan. The other independent or control variables for this model were the same ones used in Model 1, and the dependent variable for Model 1 (i.e., town and gown partnerships) served as an independent variable in Model 2. When considering the planning performed by local agencies, the form of government is an important The first of these variables, partnership

have in recent decades turned to NEDOs— variable to take into account. Thus, for inwhich blend private and public features and stance, Feiock and Kim (2001) found that are inherently less political than govern- council-manager cities were more likely to mental agencies—for local development engage in strategic planning for economic

Models 3a-3c: Explaining the Effect of Town and Gown on Economic **Development Policies**

With our last series of models, Models 3a-3c, we examined the effects of town and gown partnerships on the types of economic development policies on which local development agencies rely. The ICMA survey asked respondents to identify economic development tools used by their agencies, and their answers were used to construct Models 3a-3c. Table 1 reports the types of tools used by the various communities. Previous research has found diversity in the types of policies implemented with respect to these urging communities to be entrepreneurial velopment. Our aim here was to determine by implementing a variety of them (Clarke

> To examine the effect of town and gown partnerships on local economic development policies, we constructed indices of the respondents' answers to the questions regarding the types of development tools used by their communities relating to (a) small business, (b) business retention and expansion and attraction of businesses, and (c) community development. The dependent variable for these models was accordingly the type of tools deployed. To be specific, and as discussed further in the Analysis and Results section, we constructed the indices based on the sum of responses for the various types of development tools (see Table 1) and used them as the dependent variables for Models 3a-3c (which, again, were designed to explicate the effects of a town and gown partnership on a community) concerning the types of tools used in the areas of, respectively, small business, business attraction and business retention and expansion, and community development. The other independent variables or controls were the same ones used in Model 1.

> In effect, the variables of interest for these analyses were partnership with college or university, economic development plan, economic development tools, economic development responsibility, form of government, metro status, and geographic region.

Table 1. Local Economic Development Tools

Small business

- Revolving loan fund a.
- Small business development center b.
- Microenterprise program c.
- Matching improvement grants (physical upgrades to business) d.
- Vendor/supplier matching e.
- f. Marketing assistance
- Management training g.
- Executive on loan/mentor h.

Business retention and expansion

- i. Surveys of local business
- j. Ombudsman program
- k. Local business publicity program (community-wide)
- Replacing imports with locally supplied goods 1.
- Export development assistance m.
- Business clusters/industrial districts n.
- Technology zones 0.
- Energy efficiency programs p.
- Business improvement districts q.
- Main Street Program r.

Business Attraction

- Local government representative calls on prospective companies s.
- Promotional and advertising activities (e.g., media, direct mail) t.

Community development

- Community development corporation u.
- Community development loan fund v.
- w. Environmental sustainability—energy audits/green building
- Transit to promote commuting x.
- High quality physical infrastructure у.
- Job training for low-skilled workers z.
- Business assistance, loans, and grants to support child care aa.
- bb. Affordable workforce housing
- CC. Investments in high quality of life (good education, recreation, and arts/culture)
- dd. Tourism promotion
- ee. Public/private partnerships
- ff. Programs to promote age-friendly businesses for seniors

Note. Information compiled from ICMA (2014a) Economic Development Survey.

based on responses to the ICMA survey elected." question asking whether communities had formed partnerships with a local institution of higher learning. We coded communities that had entered into such a partnership as 1 and communities that had not as 0.

The economic plan variable was measured based on responses to survey questions asking whether communities had a written economic development plan; those that had such a plan were coded as 1 and those that did not as o.

Economic development tools were measured in terms of the three aforementioned general economic development areas concerning small business, business attraction and business retention and expansion, and community development. Each general ecoa series of four-point scale items relating to communities' evaluations of the extent the nation. of their use of various tools. The response options for the ICMA survey questions consisted of not at all = 1, low = 2, medium = 3, and high = 4. For the purpose of this analysis, we constructed a composite score for each of the three general economic development areas using the sum of the responses to the respective survey items so that higher scores indicated more extensive reliance on a given tool.

The economic development responsibility variable was measured based on responses that had primary responsibility for undercoded o for communities in which nonprofit development corporations managed economic development and 1 for communities port on community projects. in which local governmental agencies were responsible.

with a college or university, was measured tor" or o for "mayor-council or council-

Metro status was operationally coded as o for large communities comprising urbanized areas with at least 50,000 people or 1 for smaller communities with urban areas between 10,000 and 50,000 people.

Finally, geographical region was assessed by creating dummy variables based on the four population regions distinguished by the U.S. Census Bureau, namely Northeast, North Central, South, and West, with "Northeast region" as the reference group. Regions with more nonprofits may have more NEDOs conducting economic development for local governments. Hatcher and Hammond (2018), for example, found that the South had fewer NEDOs than other regions. Accordingly, we include region nomic development area was assessed using as a variable to examine variations in the study's variables across different parts of

Analysis and Results

A striking finding from the ICMA data is that, although a majority of local governments (63%) reported the presence of a college or university in their communities, only a quarter (25%) had actually formed a partnership with an institution of higher learning for the purpose of collaboration on economic development strategies (Table 2). Given the benefits of town and gown to the survey question regarding the entity partnerships, there is need for a call to action (discussed in the conclusion of this taking economic development activities article) for institutions of higher learning within each community. This variable was to focus on building effective relations with their local communities and for local policy makers to look to their universities for sup-

Also significant was the finding that, among the partners with whom local governments The form of government was coded as 1 for had worked on economic development, "council-manager or council-administra- various local agencies were more common

Table 2. Colleges and Universities in Economic Development				
	Local government	Percent ^a		
Have a college or university in their communities	731	63%		
Partner with a college or university in their development	297	25%		

Note. Data from ICMA (2014a) Economic Development Survey.

^a Percentages do not add up to 100.

Table 3. Local Government Partners for Economic Development					
Type of partnership	Percent involved in the partnership	Type of partnership	Percent involved in the partnership		
City	86%	Public/private partnership	33%		
County	55%	Private business/ industry	32%		
State government	37%	Private/community economic development foundation	10%		
Federal government	6%	Utility	21%		
Chamber of commerce	57%	College/university	25%		
Economic development corporation	40%	Citizen advisory board/commission	26%		
Regional organizations	38%	Ad hoc citizen group	8%		
Planning consortia	8%	Nonprofit organizations servin the poor			

Note. Data from ICMA (2014a) Economic Development Survey. Table reprinted from ICMA's (2014a) summary report on the survey.

higher learning.

Table 4 provides the frequencies and percentages for the main variables used in the models. Given that planning is, as has been seen, a key tool of evidence-based economic development (Feiock & Kim, 2001), a surprising finding was that nearly half of communities (43%) that responded development. to the survey reported they had no written plan. This is more surprising because Regression analysis was used to assess the the ICMA sample (as seen in Table 3) was biased toward council-manager forms of logistic regression for Models 1 and 2 and local government and, at least according to ordinary least squares (OLS) regression Feiock and Kim (2001), council-manager for Model 3. All models were found to be cities are more likely to utilize strategic planning than mayor-council cities. More variance from 4% to 8% we attribute to the extensive use of written comprehensive exploratory nature of our study. Moreover, plans might also be expected based on the methodologists have agreed that these large number of council-manager systems measures, although they can seem quite included in the ICMA data (77%).

concerning economic development plan- Schutt, 2011).

than colleges or universities. Thus, 57% ning. Past studies (Feiock & Kim, 2001) of communities reported having partnered found that council-manager forms of local with chambers of commerce, 38% with re-government were more likely to conduct gional organizations, and 33% with private strategic planning than other forms of industry, whereas, again, only 25% reported local government. Our analysis found that having partnered with an institution of many communities (43%) did not have an economic development plan. However, this does not mean that the communities do not engage in strategic planning in the area of economic development. Their economic planning strategies may be part of a larger, comprehensive plan. Future studies need to explore the extent to which cities and counties write separate plans for economic

study's three main models, specifically statistically significant; the range in the small in comparison with most statistical metrics, can have practical significance in We would like to contextualize the finding natural settings (Abelson, 1985; Ellis, 2010;

Table 4. Description of Variables			
Variable	Frequency (%)		
Economic development responsibility			
Nonprofit (0)	254 (23.9%)		
Local government (1)	810 (76.1%)		
Form of government			
Mayor-council and council-elected (0)	235 (23.3%)		
Council-manager and council-administrator (1)	774 (76.7%)		
Metro status			
Large—Urbanized with at least 50,000 people (0)	749 (82.9%)		
Small—Urban with at least 10,000 people (1)	155 (17.1%)		
Written economic development plan			
No (0)	397 (43.5%)		
Yes (1)	515 (56.5%)		
Geographic region			
Northeast	133 (12.5%)		
North Central	330 (31.0%)		
South	353 (33.2%)		
West	248 (23.3)		

Note. Table adapted from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

and gown partnerships. Logistic regression ing. was accordingly used to determine the type of communities likely to form such partassociated in the literature with economic development activities and thus needed statistical significance of the impact of Mirvis, 1992; Moore, 2000). town and gown relationships on economic development.

The first model, as discussed, examined had formed an economic development partfactors influencing the formation of town nership with an institution of higher learn-

Contrary to our expectations, communities nerships. For each model, we used three in which local governments managed ecocontrol variables, namely (1) the type of nomic development were found to be some government, (2) the entity responsible for 47% more likely to form town and gown economic development, and (3) the size of partnerships than communities in which the locality. As discussed in the previous NEDOs took the lead. This finding may be section, each of these variables has been attributable to the expertise that a NEDO provides or to administrative differences between the two sorts of entities (Feiock to be accounted for when determining the & Andrew, 2006; Lipsky & Smith, 1989;

Another significant finding was that communities that were smaller as defined above As can be seen in Table 5, the model de- were 1.57 times more likely to partner with picting the likelihood that a city or county a college or university for economic dewould form a partnership with a college velopment than larger communities. This or university for the purpose of economic result is consistent with our hypotheses development was statistically significant. that smaller localities would be relatively Furthermore, with the exception of form more dependent on local institutions of of government, all of the other variables higher learning for expertise and that the appeared to have a statistically significant latter, because they exert significant power effect in predicting whether a city or county in the local economy, would be more likely

Table 5. Logistic Regression Analysis of Partnership with College or University					
Independent Variable	Coefficient (SE)	Wald	Odds (Exp(B))	95% CI ^a	
Economic development responsibilty	75 (.18)	17.59	.47**	.3367	
Form of government	10 (.20)	.27	.90	.61-1.33	
Metro status	.45 (.20)	4.87	1.57*	1.05-2.34	
North Central region	-1.01 (.36)	8.10	.36**	.1873	
South region	50 (.34)	2.14	.61	.31-1.19	
West region	49 (.36)	1.89	.61	.30-1.23	
Constant	.07 (.37)	.05	1.09		
Pseudo R ²	.07				
Model X ² (6)	41.57				

Note. Table adapted from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

1,064

(Hatcher & Hammond, 2018).

we again employed logistic regression, in is established. this case to assess factors that predispose a community to come up with such a plan. Table 6 presents the results of this regression analysis, controlling for the entity with nomic development policies. An ordinary economic development responsibility, form of government, metropolitan status, and to determine whether a town and gown geographic region.

Model 2 proved statistically significant, but analysis was performed for the three major none of the control variables had a statisti- economic development activities described cally significant effect in predicting whether above (i.e., those relating to small business, cities or counties had a written economic business retention and expansion and busidevelopment plan. Although this latter find - ness attraction, and community developing contradicts our hypothesis, again, given ment). Table 1 details the types of economic the exploratory nature of this research, it is development activities, each of which was not a cause for concern regarding the overall measured based on an index score comvalidity of our argumentation. Controlling prising the sum of a number of economic for the effect of the other variables did not development initiatives. Thus, the variable

to be included in economic development effect of a town and gown partnership for planning. Also, region of the country was economic development apart from a slight shown to have a significant effect, with increase in the odds ratio; thus, commucommunities in the Northeast being less nities engaged in such a partnership were likely than those in other regions to engage more likely to have come up with a written in town and gown partnerships targeting economic development plan. This finding, economic development. This finding may which suggests that this kind of partnerhave occurred because the region, like the ship tends to be formed by localities that South, has fewer NEDOs than other regions pursue evidence-based strategies, may be attributable to the fact that higher learning institutions often provide an economic de-For the second model, regarding the effect velopment plan or assist in the formulation of a written economic development plan, of one when a town and gown partnership

Model 3 examined the effect of town and gown partnerships on communities' ecoleast squares regression was employed partnership for the purpose of economic development actually had any effect. The affect the statistical significance of the for small business activities was measured

^a 95% CI denotes the lower and upper 95% confidence interval of the odds ratio. The dependent variable in this analysis is whether a city or county has a partnership with a college or university.

^{*}p = .05. **p = .01.

Table 6. Logistic Regression Analysis of Written Economic Development Plan					
Independent Variable	Coefficient (SE)	Wald	Odds (Exp(B))	95% CI ^a	
Partnership with college or university	.48 (.18)	6.96	1.61**	1.13-2.30	
Economic development responsibility	.27 (.19)	2.04	1.31	.91-1.88	
Form of government	.29 (.18)	2.50	1.33	.93-1.90	
Metro status	08 (.21)	.15	.92	.61-1.39	
North Central region	.01 (.34)	.00	1.01	.52-1.98	
South region	.36 (.34)	1.15	1.44	.74-2.78	
West region	.56 (.35)	2.57	1.75	.88-3.49	
Constant	46 (.37)	1.53	.63		
Pseudo R ²	.04				
Model X ² (6)	23.25				
N	1,064				

Note. Table adapted from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

^a 95% CI denotes the lower and upper 95% confidence interval of the odds ratio. Dependent variable in this analysis is whether city or county has a written economic development plan.

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Table 7a. OLS Regression Analysis of Small Business Activities					
Independent variable	Coefficient (SE)	t value	95% CI ^a		
Partnership with college or university	2.17 (.34)	6.32**	1.49-2.84		
Economic development responsibility	08 (.36)	22	7963		
Form of government	12 (.36)	32	8360		
Metro status	1.83 (.41)	4.48**	1.03-2.62		
North Central region	39 (.71)	54	-1.78-1.01		
South region	.30 (.70)	.42	-1.09-1.68		
West region	33 (.72)	45	-1.75-1.09		
Constant	13.60 (.77)	17.65**	12.09-15.11		
Model F-test	11.43, $p < .05$				
Adjusted R ²	.08				
N	865				

Note. Data from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

^a 95% CI denotes the lower and upper 95% confidence interval of the coefficient. The dependent variable in this analysis is small business activities; the sum of eight small business initiatives serves as the index score.

^{**}p = .01.

Table 7b. OLS Regression Analysis of Business Retention and Expansion
Activities

Activities					
Independent variable	Coefficient (SE)	t value	95% CI ^a		
Partnership with college or university	2.89 (.52)	5.54**	1.87-3.91		
Economic development responsibility	33 (.55)	61	-1.4174		
Form of government	.55 (.55)	.10	53-1.63		
Metro status	63 (.62)	-1.02	-1.8459		
North Central region	.06 (1.08)	.05	-2.07-2.18		
South region	.96 (1.07)	.90	-1.14-3.05		
West region	1.18 (1.10)	1.07	98-3.34		
Constant	23.62 (1.17)	20.21**	21.33-25.92		
Model F-test	6.05, p < .05				
Adjusted R ²	.04				
N	863				

Note. Table adapted from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

^a 95% CI denotes the lower and upper 95% confidence interval of the coefficient. The dependent variable in this analysis is business retention and expansion and business attraction activities; the sum of 12 business retention and expansion and business attraction initiatives serves as the index score.

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Table 7c. OLS Regression Analysis of Community Development Activities					
Independent variable	Coefficient (SE)	t value	95% CI ^a		
Partnership with college or university	3.52 (50)	7.12**	2.55-4.49		
Economic development responsibility	93 (.52)	-1.80	-1.9509		
Form of government	09 (.52)	17	-1.1294		
Metro status	.63 (.59)	1.07	52-1.78		
North Central region	-1.91 (1.02)	-1.87	-3.9210		
South region	-1.42 (1.01)	-1.41	-3.4156		
West region	-1.89 (1.04)	-1.82	-3.9315		
Constant	26.80 (1.11)	24.24**	24.63-28.97		
Model F-test	10.67, p < .05				
Adjusted R ²	.07				
N	862				

Note. Table adapted from ICMA (2014b) Economic Development Survey. Data from ICMA (2014b) Ecomonic Development Survey.

^a 95% CI denotes the lower and upper 95% confidence interval of the coefficient. The dependent variable in this analysis is community development activities; the sum of 12 community development initiatives serves as the index score.

^{**}p = .01.

for business retention and expansion and advantage of the added capacity that colbusiness attraction activities as the sum of leges or universities provide in town and 12 relevant initiatives, and that for commu-gown partnerships. Thus, for example, nity development activities as the sum of 12 faculty members and students might assist relevant initiatives. Tables 7a-7c show the in the design, administration, and analysis results of the regression analysis explaining of surveys for local nonprofits involved in the effect of town and gown partnerships on economic development. economic development policy.

models explained only a relatively small portion of the variation in economic develthat cities or counties that had partnered listed than those that had not formed such to cultivate town and gown relationships. partnerships. This finding further supports the notion that town and gown partnerships facilitate localities' engagement in significant economic development activities.

Discussion

The analysis, then, produced models with relatively low explanatory power, but we are again quick to point out that our research was exploratory in nature. We accordingly hope that our results will point the way to future research into the administrative features of town and gown partnerships. Having communities that take advantage of their assets is a key goal of state and local government. And in many communities, institutions are the primary asset. Public administration has a responsibility to help state and local governments form meaningful town and gown partnerships.

Although our analysis failed to validate 2005; Connolly & York, 2002). This being ing. Our study does show that the commu-

as the sum of eight relevant initiatives, that the case, NEDOs would be expected to take

However, as noted, we found that commu-Though the analyses showed that the nities in which local governmental agencies were primarily responsible for economic development were more likely to form opment activities, the results did make clear town and gown partnerships than those in which nonprofits took the lead. Part of the with a college or university for economic explanation for this finding may be that the development were consistently more likely nonprofits engaging in economic developto engage in the three kinds of activities just ment may have lacked the time or resources

> Also worthy of further consideration is the finding that smaller metro areas (again, those with populations ranging from 10,000 to 50,000) were more likely than larger metro areas (those over 50,000) to form town and gown partnerships. As mentioned, smaller communities may rely more heavily on local institutions of higher learning than do larger communities with a wider array of economically vital sectors. From this perspective, a lack of policy capacity in small communities may push them to partner with various organizations, including colleges and universities, to increase their expertise. Thus, taking into account the previous result as well, we found that small metro areas in which local governmental agencies were in charge of economic development were more likely to form town and gown partnerships than large metro areas in which nonprofits were managing development.

for the exploratory models meant to de- A further significant finding is that town scribe town and gown relations, our choice and gown partnerships affect economic of variables did find statistical support. development planning and policy. Thus, Specifically, we were able to show that communities engaged in such partnerships governmental agencies are more likely were more likely to have come up with a than NEDOs to partner with colleges or written plan for economic development universities. This finding is in contrast with than those that had not worked closely with earlier research and in this respect alone local higher learning institutions. Through represents a contribution to the literature. these partnerships, community leaders may Previous work has demonstrated that non- have opportunities to interact with experts profits tend to rely on partnerships to build from various fields who advocate the use capacity (Wing, 2004). Entities that fund of planning as an economic development nonprofits (i.e., donors, governments, and tool. When communities draft development other nonprofits) thus encourage organi- plans, they are practicing evidence-based zations to form collaborative partnerships management, in the context of which they for precisely this purpose in furtherance may come to recognize the value of partnerof their organizational goals (Cairns et al., ing with local institutions of higher learneconomic development tools.

Town and gown partnerships affect economic policies, in particular regarding the development of small business and the community in general. Our analysis thus shows that partnerships with local institutions of higher learning can be an important factor in local development planning and policy. Town and gown communities can promote entrepreneurial economic development by making use of a variety of tools (Clarke & Gaile, 1989).

Our findings are not entirely consistent with earlier work by Feiock and Kim (2001), suggesting that the form of government has an effect on the likelihood that a community will engage in development planning and on the types of development policies that it pursues. The present study does, however, corroborate research by Kwon et al. (2009) regarding the importance of institutional factors in local economic development; their work also, like ours, downplayed the importance of the form of government in predicting development policies.

The analysis presented here by design took into consideration only the likelihood that partnerships provide a host of opportunilocal governments would partner with institutions of higher learning and the rela- bringing the university into the town, comtionship of such partnerships to evidence- munities benefit from university expertise based development practices. The analysis in their economic development work, and showed our models to be underspecified and students gain additional opportunities to to explain only a small amount of variation in partnering on the part of governments. Nevertheless, it is our hope that this exploratory research will suggest future avenues governments reported partnerships with for making sense of town and gown relations.

Conclusions and Building Town and Gown Partnerships

This study, then, provides a starting point for further exploration of the formation and effects of town and gown partnerships. Our finding that communities in which local governmental agencies managed development were more likely than those in which nonprofits held this role to form town and gown partnerships represents a significant finding given that earlier work has shown nonprofits to be more likely than governmental agencies to engage in partnerships designed to develop policy ca-

nities that had partnered with colleges and pacity. Similarly significant is our finding universities tended to engage in planning that smaller communities were more likely and also to deploy a fairly wide variety of than larger ones to form town and gown partnerships. State and local governments can use this information in their efforts to form town and gown partnerships. Future research needs to move beyond our exploratory findings by designing specific survey instruments on the administrative features (e.g., barriers, institutional arrangements, benefits) of town and gown partnerships. Also, according to the analysis presented here, communities that had formed town and gown partnerships were significantly more likely than those that had not to engage in economic planning. Communities in town and gown partnerships likewise showed a greater tendency to make use of a variety of economic development tools in the three areas covered in this study: small business development, business attraction and business recruitment and retention, and community development.

> The findings here are certainly consistent with the general opinion voiced in the literature that communities benefit when they strengthen town and gown relationships. One area of benefits can be engaged learning. We want to stress how strong economic development projects from town and gown ties for engaged learning. Accordingly, by participate in experiential learning. Even with these benefits, however, our study found that only 25% of surveyed local the colleges and universities in their communities. Thus, many communities are not exploring the benefits of professors, university leaders, local government leaders, citizens, and students working together to form effective town and gown projects. This finding should be a call to action to push university leaders and local governments to build effective town and gown relations. Having strong town and gown partnerships will provide social, economic, and educational benefits.

> To help build town and gown partnerships, we suggest that university leaders and local government officials focus on the following strategies. Advocates of town and gown partnerships should focus on the benefits, not the costs, of the projects. Arguments

the combined support of universities and munity outreach, or volunteer services.

should point to how local nonprofits, gov- community organizations, in that local ernments, businesses, students, faculty, and projects may be more likely to receive fedothers will benefit from the partnerships. eral or state funding. The goal of economic Discussion should recognize the tensions development may be a unifying one, helping between universities and their communi- advocates make these arguments, and to put ties, especially in the area of land use, but these strategies in place, universities need focus should be turned to the benefits of to have a dedicated infrastructure focused effective town and gown. Advocates can on building town and gown partnerships, also focus on potential benefits of having such as an office of town and gown, com-



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