Academic interaction with social partners in the case from the University of Limpopo

Marota Aphane, Oliver Mtapuri, Chris Burman and Naftali Mollel

(Received 17 August 2015; accepted 16 May 2016)

Abstract

The purpose of this article is to describe the different dimensions of the community- university interactions that emanated from a Community Engagement Audit which was undertaken at the University of Limpopo (UL) in 2014. The Audit methodology followed a quantitative survey research approach. A sample of 278, out of a population of 559 academic staff at UL that included 196 with PhDs and 363 without PhDs, participated in the study. SPSS was used to compute factor analysis. The results indicated the dominant partners that faculties interact with across the spheres of engaged scholarship were multi-national companies, small, medium and micro-enterprises, national regulatory and advisory and sectorial organisations. The types of relationship with external social actors were contract research, continuing education and collaborative research and development projects. Channels of information were popular publications, public conferences, seminars or workshops, oral or written testimony or advice prominent. The outputs were new or improved products/processes, scientific discoveries and community infrastructure and facilities. The outcomes and benefits were regional development, improved quality of life for individuals and communities and research focus and research projects, theoretical and methodological development in an academic field, academic and institutional reputation. The main constrains experienced during engagement are lack of academic resources and institutional support and relationships with external social partners. The results provide guiding parameters to improve the scale and reach of CE at the UL and a snapshot of the architecture and terrain of engaged scholarship at a rural-based HEI in South Africa.

Introduction

This article presents the different dimensions such as the nature of external social partners, types of relationship, the channels, the outcomes and benefit and the challenges and obstacles of the academic-community interactions which were reflected in data that emanated from a Community Engagement (CE) Audit, undertaken from the 11th of November 2013 to the 30th May 2014 at the UL as rural based university. This university as described by

Higher Education Quality Committee (HEQC) (2011, p.8) is a "rural based medium-sized" university situated in the rural enclave of Mankweng Township, Ga-Makanye and Mamotintane villages in the Limpopo Province. Rural-based universities are "historically disadvantaged offspring of the so-called apartheid policy" of "separate development established during the apartheid era in the former homelands" and were "institutionalized through the Extension of University Education Act of 1959" (Mavhandu-Mudzusi and Netshandama, 2014, p.372; Nkomo and Sehoole, 2007, p.2).

Alongside teaching and learning and research, CE is identified as one of the core responsibilities of universities as mandated by the White Paper on Higher Education (1997). Council on Higher Education (CHE, 2004, p.12) defines CE as

Initiatives and processes through which the expertise of the higher education institution in the areas of teaching and research are applied to address issues relevant to its community. Community engagement typically finds expression in a variety of forms, ranging from informal and relatively unstructured activities to formal and structured academic programmes addressed at particular community needs.

Ramírez, Aitkin, Kora and Richardson, (2005) add that community engagement as continuous process characterised by addressing evolving needs and interests of the community. Both these definitions resonate with the University of Limpopo's CE policy that states CE "continuously negotiated collaborations and partnerships between UL and the interest groups that it interacts with, aimed at building and exchanging knowledge, skills, expertise and resources required to develop and sustain society" (UL CE Policy, 2008, p.8). CE is also included in the mission statement of the University of Limpopo which read "A university which responds actively: To the development needs of its students, its staff members and its communities, through relevant and high quality education and training, research and engagement, and in partnership and in collaboration with its different stakeholders" (UL website, 2016).

Although the HEQC "commends the University of Limpopo for its range of community engagement activities carried out by committed staff members" (HEQC, 2011, pp.35) the nature, types, channels of information, outputs, outcomes and obstacles and challenges of the academic-community interactions that its faculties has with external social partners remain undocumented. It is therefore, important to investigate different dimensions

that emerge out the University of Limpopo's academic-community interactions.

In this article we briefly explore some of the literature that critically examined the origins of community engagement, the context of engagement, a brief history of engagement in South Africa, the perceived benefits of CE to both university and community – and the constraints within the South African CE context, the research methodology used to conduct the study before introducing the results of the Audit.

Origins of community engagement

There is mounting interest in the way in which Higher Education Institutions (HEIs) such as universities confront local, regional and national development needs as echoed in 2009 World Bank higher education policy recommendations (Nampota and Preece, 2012; Schuetze, 2010). Internationally HEIs are responding to fundamental changes that are occurring throughout the world by "transforming their functions, role and purpose in order to respond to new needs and environmental conditions" (Rowe, 2011, p.5). According to Boughey (2014, p.1) in agreement with a "international trend in higher education (Arredondo and De la Garza, 2007; Hall, 2010; Kaburise, 2007; Shah, 2007; Taylor, 2007). South African HEIs over the past decade and a half have to greater or lesser degrees commenced to address the issue of recognising and addressing CE a legitimate concern alongside teaching, leaning and research.

The literature on community engagement suggest two modes of engagement i.e. "a dispersed model" that involves the interaction with external stakeholders of individual staff members "self-initiated projects" (Mulroy (2004 cited by Nampota and Preece, 2012, p.107 and "a coordinated model" that involves the interaction with external stakeholders both staff and students "as teams across and within departments, reflecting the engagement approach" (Nampota and Preece, 2012, p.107).

Almost two decades ago, the current focus on CE within South African higher education was catalysed by the publication of the Education White Paper 3 (Department of Education (DoE), 1997). The White Paper states that higher education in South Africa should undergo a process of transformation in order to contribute to the post-Apartheid development goals. It is therefore, crucial HEIs in South Africa ". . .continue to serve as a medium of socio-economic change and emancipation by involving surrounding communities in their research projects in order to provide the necessary skills that will help to improve quality of life" (Odeku and Meyer, 2014, p.667).

The national ambition was reinforced by the World Declaration on Higher Education for the Twenty First Century that universities should provide service to society as a contribution to reducing social ills such as "poverty, hunger, intolerance, violence, illiteracy, environmental degradation and diseases" (UNESCO, 1998, p.8). Consequently, South African HEIs gradually began to become aligned to the new mission of responding "to the changes in the demands and needs of society and stakeholders' (Paleari, Donina and Meoli, 2015, p.370) and work collaboratively with their immediate communities to address and contribute to the developmental potentials of both community and university (Nampota, 2011; Pratt, Matthews, Nairne, Hoult and Ashenden, 2011). The UL also recognises this and through its CE Policy.

HEIs have responded to both the national and international (focus) better word may be 'imperative' of the engaged university of the 21st Century in diverse ways, producing a nascent framework for engagement. The drive to develop redundant adjective 'architecture' of engagement that encapsulates 'good' scholarship. . . is premised upon the claim that engaged scholarship is inherently 'good' scholarship – which we address later in the introduction.

The context of engagement

Although community engagement is an integral, mandated aspect of all HEIs (including UL), the Council for Higher Education does not prescribe specific modes of engagement at an institutional level, enabling specific institutional contexts to shape the localised identity and nature of engaged scholarship (CHE, 2006). Policies from different HEIs demonstrate that there are similarities in the modes of structured and unstructured activities and identities of different HEIs (McRae, 2012; Hall, 2010; Westdijk, Koliba and Hamshaw, 2010). Generally, CE in most South African universities (including UL) takes the form of service learning, structured outreach – or volunteerism – and community centred research activities (Snyman, 2014; Nhamo, 2013; Schuetze, 2010; UL CE Policy, 2008). In this respect, it is incumbent on each

institution to formulate their own community engagement mode, often reinforcing the identity of the particular HEI through processes of institutional dialogue and procedures, influenced by the mission and vision of the institution and the context/s in which the engagement occurs (Hester, Adejumo and Frantz, 2015; Muller, 2010). Despite the relevance of these activities, the issue of engaged scholarship which has to be negotiated – if mutually beneficial outcomes are to be sustained – is often contested.

A brief history of engagement in South Africa

Since the ratification of the White Paper, the South African Higher Education system policies and legislation has gradually increased the scope and focus of engaged scholarship. The overall focus of these shifts reflects the ambition of bringing community and universities closer together, underpinned by the belief that such 'closeness' holds potentials to unlock new forms of knowledge (Van Schalkwyck and Erasmus, 2011; Erasmus and Albertyn, 2014).

The drive to produce knowledge that is both relevant at the local scale and can be used by communities has resulted in the development of some core themes that are intended to take the community-university relationship beyond the traditional pedagogy of teaching and learning and conducting research in the pursuit of knowledge that could be used is believed to reside at the dynamic academic-community interface. The central themes include: (i) the transformation of HEIs at an institutional level so that they are better positioned to facilitate, implement and disseminate findings from engaged activities (Snyman, 2014); (ii) the orientation of both academics and community partners to the relevance and utility of engaged scholarship and (iii) the expansion of specific, niche institutional knowledge areas – such as socio-economic development, environmental concerns and the inclusion of indigenous knowledge. In the last two decades these themes have become operationalised through a diverse portfolio of interactive partnerships between communities and universities which has included both formal and informal community engagement practices such as service-leaning, internships, participatory-action-research and volunteerism.

It has been argued – and reported – that the 'glue' that holds these unique partnerships together reflects some, or all of the following characteristics:

knowledge co-generation, horizontal social relations, trust, the sharing of experiences and lessons learnt in a process of community-university praxis from which unique forms of knowledge and 'knowledge enablement' have been produced (Erasmus & Albertyn, 2014). It has been argued from many perspectives that whilst traditional forms of teaching and learning and research add value to many aspects of development, engaged scholarship produces unique benefits as diverse communities intersect with HEIs. By participating in CE activities students achieve professional development, enhanced learning and develop positive impact on their academic learning by bridging the gap between classroom theories to practice (Preece, 2013; Netshandama, Maluleke and Kutame, 2011). HEIs get improved institutional commitment to the curriculum increase their networks, pedagogical skills and research possibilities and recognition in the community (Benneworth, 2015; Preece, 2013; Briscoe, Keller, McClain, Best and Mazza, 2009) while the Community enhance their knowledge to address their own social and economic needs, members gain in terms of self-esteem, trust, skills acquisition, confidence and problem solving skills (Preece, 2013, p.271; Ahmed and Palermo, 2010, p.1380).

The perceived benefits of community engagement

The continuous interaction and mutual beneficial partnership between HEI and their external actors may have yielded outcomes as "the changes, benefits, learning or other effects" as a result of the interaction (Hart, Northmore and Gerhardt, 2010, p.36) and outputs as "the products and services delivered" as a results of the interaction (Cupitt and Ellis, 2007, p.6). These include social and economic outcome and outputs including new or improved products, new or improved processes, scientific discoveries, community infrastructure and facilities and traditional academic outcome and outputs including students, academic papers and conference presentations and reports, policy documents and popular publications (Kruss, Diwu, Nyoka, Ranchod and Manamela, 2013, p.84).

It has been argued that the value contained within the community-university interface includes mutual benefits for academics, their institutions and the communities they engage with as HEIs get improved institutional commitment to the curriculum increase their networks, pedagogical skills and research possibilities and recognition in the community and the community enhance their knowledge to address their own social and economic needs.(Rowe, 2011; Hart & Northmore, 2010; Mohamed, 2006; Muirhead, Graham and Brown, 2002). Through academic programmes such as internships and service-learning the universities claim they are able to add value to both the community and the university as well as leveraging spaces for students to develop values associated with civil awareness and social responsibility – whilst simultaneously acquiring a stock of 'real-world' experiences that they can apply in both their academic work and future careers (Wood and Zuber-Skerrit, 2013; Kruss, Visser, Aphane and Haupt, 2012; Ahmed and Palermo, 2010; Strydom and Mentz, 2010; Global Alliance on Community Engaged Research, 2009; UNESCO, 2009).

Challenges confronting the community engagement mandate

Practical constraints

The historical positioning of UL and other HEIs in South Africa reflects the apartheid legacy which has resulted in an uneven HEI landscape and subsequently an uneven Community Engagement portfolio across South Africa. Particular constraints that have been highlighted include, inter alia: time constraints to do CE, gaining entry to communities and the negative perceptions of communities about the relevance of universities to marginalised households (Levitt, 2014; Mabuza, Diab, Reid, Ntuli, Flack, Mpofu, Daniels, Adonis, Cakwe, Karuguti and Molefe, 2013; Kruss *et al.*, 2013; Chimucheka, 2012). These 'day to day' constraints tend, however, to be underpinned by a more universal— mosaic of structural and ideological constraints which intersect with the practical constraints outlined above.

Structural constraints

Integrating successful and sustainable community engagement activities within the fabric of UL and other HEIs poses challenges for universities throughout South Africa (Israel, 2014; Wood & Zuber-Skerrit, 2013; UL CE Policy, 2008). Both national and international literature suggests that CE is often situated at the peripheries of the institutional hierarchy of importance. It is argued that the 'second cousin' (Moore and Ward, 2010 as cited by Kearney, 2015. p.27; Bender, 2008) status sustains uncoordinated, marginalised and inadequately supported – particularly funded – CE portfolios at many HEIs resulting in weak and lack lustre institutional impact (Pienaar, 2014; Erasmus & Albertyn., 2014; Hall, 2010). It has been argued that this is often exacerbated by the lack of clarity about the 'meaning' of CE, rendering evaluation and measurement of the impacts of CE on uncertain ground (Mirza, Vodden, and Collins, 2012; Hall, 2010). This claim that measurement cannot be precise if there is no clarity about what is to be measured (impact, commitment, responsiveness, community involvement, partnerships, types of knowledge generated, utility of the knowledge to different parties) is echoed from many quarters (Nhamo, 2013; Slamat, 2010).

It is not just internal institutional inconsistencies that make CE difficult terrain to navigate. Historically, universities have been perceived as 'ivory towers' that are populated by an elite who reproduce elite, Mode One knowledge (Gibbons, Limoges, Nowotny, Schwartzman, Scott and Trow, 1994) often with little – if any – practical utility to third sector agencies which are the civil society that include large and small non-profit voluntary sectors including non-governmental community based organisations, trusts, social enterprises and cooperatives (Albertyn and Erasmus, 2014; Corry, 2010; Boughey, 2014; Netshandama, 2010; Bender, 2008). The historical inconsistency remains a dominant influence within the broader UL architecture as an institution that compete for national and international recognition and status – which often favours Mode 1 knowledge over other forms of knowledge - through traditional indicators, such as accredited publication outputs and throughput rates (Gerber, 2005, p.1398). This terrain, which CE practitioners are as bound to negotiate as any other academic, often produces unintended obstacles that frustrate institutional and individual efforts to facilitate CE.

It is not just the contemporary positioning of HEIs in the broader, international academic context that influences the impacts and outcomes of CE activities. There are internal structural inconsistencies which also have discrete – yet profound – impacts on the CE landscape. One example of a discrete, structural obstacle is highlighted by Pienaar (2014) and Stillman (2014) who argue that outdated ethics committee protocols – inclusive of implicit epistemological clashes about the validity of different knowledge forms – frustrate the CE ambition. We suggest that the existing CE panorama in South Africa is an uneven one, influenced by historical, structural and practical challenges – yet despite these challenges a rich, diverse and reflective portfolio of CE activities has been developed within the neighbourhoods of both disadvantaged and advantaged HEIs. This reflects – albeit through a contested process – considerable individual and institutional efforts to embrace the CE ethos, rather than ignore it.

The study was to analyse existing relationships that UL faculties has with external social partners. Specifically this study sought to answer the following research question relating to UL's interaction with its external social actors: What are the different dimensions of the University of Limpopo's academic-community interactions?

Research methodology

A quantitative survey-based research approach using factor analysis was used in conducting the audit to measure and explain different forms of interaction of University of Limpopo academic staff "with a wide range of external social partners" (Kruss, Visser, Aphane, & Haupt, 2012, p.13; Sampson, 2012; Bryman, 2012). The research design was appropriate for obtaining relevant information about the different forms interaction with wide range external social partners of the UL academics. The study population comprised of 559 personnel from the University of Limpopo which included 196 academics with PhDs and 363 without PhDs. A probabilistic simple random technique was used to select a sample of 228 respondents while ensuring that each element of the population had an equal chance of being included in the study (Monette, Sullivan, Dejong, and Hilton, 2014). An additional 50 participants were further randomly selected for replacement purposes bringing the total to 278. The sample satisfied the inclusion criteria that of being full/part-time academic personnel involved in teaching and learning, research and community engagement. Ethical clearance to conduct the study was obtained from the Turfloop Research and Ethics Committee (TREC) of the University of Limpopo. The anonymity, confidentiality and informed consent of individual participants were ensured.

Data were collected using an interviewer-administered survey Instrument adopted with permission from the Individual Academic Interaction Instrument designed by the Human Science Research Council (HSRC) (Kruss *et al.*, 2012). "A rigorous process and steps were followed in the adaptation of the instruments, namely: grounding it in the emergent literature in South Africa, and in comparative literature on university community engagement, triangulated with instruments on civic engagement used in American and British universities, piloted in two universities with projects leaders, deans, senior managers, and other academics then revised it" (Kruss *et al.*, 2012, p.16).

The instrument consisted of 2 sections. Section 1 captured the demographic characteristics of the respondents which included the faculty, academic rank and qualifications of the participants. Section 2 consisted of 6 scales in order to investigate the nature, types, channels of information, outputs, outcomes and obstacles and challenges of the academic-community interactions using with a 4 point Likert Scale with following options 1 - N ot at all; 2 - I solated instances; 3 - On a moderate scale and 4 - On a wide scale. The six scales included; the first scale consisted of 29 items and covered identification of the external social partners, the second scale consisted of 20 items that covered the types of interactions, the third scale consisted of 12 items that covered the types of outputs produced, the fifth scale consisted of 21 items that covered the types of 14 items that covered challenges and constraints academic interaction with external social actors (see Appendix 1).

For example, scale 1 asked: To what extent do you interact through your academic work with any of these external social actors? (e.g. local government agencies; National government departments, clinics and health centres, schools, trade unions, national universities, community organisations, small-scale farmers and so forth). The scale 2 asked: To what extent does your academic scholarship involve these types of relationships with external social actors? (e.g. service learning, research consultancy, technology transfer, contract research, student voluntary outreach programmes, collaborative curriculum design and so forth). Scale 3 asked: To what extent have you used each of the following channels of information to transfer your knowledge to external social actors? (e.g. Popular publications, Public conferences, seminars or workshops, Informal information exchange, Oral or written testimony or advice etc.). Scale 4 asked: To what extent has your academic interaction with external social actors had the following outputs? (e.g. New or improved products, New or improved processes, Academic publications, Dissertations etc.). Scale 5 asked: To what extent has your academic

Interaction had the following outcomes or benefits? (e.g. Relevant research focus and research projects, Theoretical and methodological development in an academic field, Academic and institutional reputation, Interventions plans and guidelines, Community-based campaigns etc.). Scale 6 asked: In your experience, how important are the following obstacles and challenges to your academic Interaction with external social actors? (e.g. Legal problems, Lack of mutual knowledge about partners' needs and priorities, Unequal power relations and capabilities in relation to external social partners, Too few academic staff etc.). (See Appendix 1).

Dimension	No. of items
Identification of the external social partners	29
Types of interactions	22
Channels of engagement	20
Types of outputs produced	12
Outcomes and benefits of the engagements	21
Challenges and constraints of engagement	14

Table 1:	Dimensions	of the	communit	y-university	interactions
----------	------------	--------	----------	--------------	--------------

The Statistical Package for Social Science (version 22) was used for data reduction and to produce statistical outputs using factor analysis. Because a scalar questionnaire was used, the responses were therefore, grouped into like segments using a factor analysis to evaluate the inter-relationships among items and cluster them together to find out which items/variables load to particular components (Bartholomew, Steele, Galbraith and Moustaki, 2008; Kaiser, 1974). A factor in factor analysis is a new latent variable which represents many variables. According to Field (2009, p.639), factors with relatively large eigenvalues are retained and those with small are discarded because "the eigenvalue is a measure of the substantive importance of the eigenvector with which it is associated". Field (2009, p. ??) notes that Kaiser (1960) recommended the retention of all factors with an eigenvalue of 1 because "eigenvalues represent the amount of variation explained by a factor and that an eigenvalue of 1 represents a substantial amount of variation". This approach was adopted in this study in which only factors with eigenvalues above 1 were retained.

Results

Results of the reliability tests and KMO and Bartlett's Test of the scales

The KMO is a measure of sampling adequacy and varies between 0 and 1. According to Field (2010, p.647) a value close to 0 indicates "diffusion in the pattern of correlations, hence, factor analysis is likely to be inappropriate"; when the value is close to 1, this shows that there is compactness in the correlations such that factor analysis will "yield distinct and reliable factors". Field (2010) avers that Kaiser (1974) considers values greater than 0.5 as 'barely acceptable'; values between 0.5 and 0.7 as 'mediocre'; values between 0.7 and 0.8 as 'good'; values between 0.8 and 0.9 as 'great' and those above 0.9 as 'superb'.

In this study, the Kaiser-Meyer-Olkin Measure for dimensions 3 (.904) and 5 (.913) were excellent and for dimensions1 (.837), 2 (.883), 4 (.868) and 6 (.862) were all commendable. Therefore, the entire sample for all the scales was satisfactory for factor analysis and significant at level of .000 (Kaiser, 1974).

Dimension one yielded a good Cronbach Alpha value of .896, dimension two yielded an excellent Cronbach Alpha value of .922, dimension three yielded an excellent Cronbach Alpha value of .903, dimension four yielded a good Cronbach Alpha value of .862, dimension five yielded an excellent Cronbach Alpha value of .862, dimension five yielded an excellent Cronbach Alpha value of .926, dimension six yielded a good Cronbach Alpha value of .851. The overall reliability test of the questionnaire yielded a Cronbach Alpha value .968 which reflects an excellent internal consistency of the scale (Bonett, and Wright, 2015; Eisinga, Te Grotenhuis, & Pelzer, 2013).

Only group variables with more than one item were reported in this study because factor analysis is about correlations between items. One could consider a single item as an outlier and may warrant removal from the data set because it has low correlations with other items and this can also indicate what Field (2010, p.675) calls a "reverse-phrased item" – that is an item which requires an opposite response to all other questions. Demographics of research respondents

From the four faculties and Research Administration results, nearly 9% of the participant's preferred to keep their faculties anonymous. The majority of the participants (35%) were from the faculty of Science and Agriculture. In terms

of academic rank nearly 8% preferred to keep their rank anonymous and 38% were senior lecturers. With regard to their qualifications, close to 36% of the participants had PhDs, while nearly 11% preferred to keep their qualifications confidential. (See Table 2).

Table 2: Demographic characteristics of respondents

		Resp	onses
Variable	Category	Frequency (n)	Percentages (%)
Faculty	Health Sciences	32	13.5
	Humanities	52	21.9
	Science and Agriculture	83	35
	Management and Law	42	17.7
	Research Administration	7	3
	No response	21	8.9
	Total	237	100
Academic rank	Director	2	0.8
	HOD	14	5.9
	Senior Lecturer	91	38.4
	Junior Lecturer	83	35
	Tutor	7	3
	Academic Support Service	19	8
	Non-Academic Support Service	3	1.3
	No response	18	7.6
	Total	237	100
Qualification	Junior Degree	5	2.1
	Honours Degree	34	14.3
	Masters Degree	83	35
	Doctoral Degree	85	35.9
	Post Grade 12 qualifications	5	2.1
	No response	25	10.5
	Total	237	100

Type of external social actors the UL interact with

The Table 3 below shows the results of the Kaiser-Meyer-Olkin (KMO) and Bartlett Tests specifically for dimension one: the external social partners. For this dimension, the KMO value is 0.837 which is considered 'great' and we can conclude that the sample size is adequate for factor analysis. Barrtlett's test of sphericity which yielded a chi-square = 2127.447, p 0.000, indicates that correlations between items were sufficiently large for factor analysis.

Table 3: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of	0.837	
Bartlett's Test of Sphericity	Approx. Chi-Square	2127.447
df		378
Sig.		0

Table 4 illustrates that the types of external social partners included firms, civil society, academic, government, households and agencies. It is evident that firms accounting for 21.2% of the variance (and an eigenvalue of 5.939) and civil society (with 11.3% of the variance and an eigenvalue of 3.185) are the main type of external social actors the faculties interact with. These six components had Eigenvalues above Kaiser's criterion of 1 and account for a cumulative 61.2% of the total variance while the rest of the variance is accounted for by extraneous factors. The scree plot confirmed these six components. The items that clustered on the component we called 'Civil society' are led by religious organisations which had a high factor loading of 0.811.

In this study, among the social actors were large national firms (with a high factor loading of 0.804, multi-national companies (0.792), Small, medium and micro-enterprises (0.714), national regulatory and advisory agencies (0.591) and sectoral organisations (0.570) which were clustered/loaded onto component/factor which we called 'Firms' (See Table 4 below).

Table 4: Rotated component matrix on the type external social actors the faculties interact with

		Rescaled				
		Component				
	Firms	Civil society	Academic	Govern- ment	House- holds	External agencies
Large national firms	0.804					
Multi-national companies	0.792					
Small, medium and micro- enterprises	0.714					
National regulatory and advisory agencies	0.591					
Sectorial organisations	0.57					
Religious organisations		0.811				
Political organisations		0.692				
Social movements		0.658				
Trade unions		0.566				
Community organisations		519				
African universities			0.764			
International universities			0.731			
Provincial/regional government department or agencies				0.864		
Local government agencies				0.784		
National government departments				0.617		
Individuals and households					0.877	
A specific local community					0.749	
Science councils						0.819
Funding agencies						0.715
Eigenvalues	5.939	3.185	2.526	2.084	1.791	1.616
% Explained variance	21.21	11.37	9.021	7.443	6.397	5.773
Cummulative % of variance	21.21	32.59	41.61	49.05	55.45	61.22

In table 4, loadings of 0.5 and above were considered significant and reported. The extraction method was Principal Component, with orthogonal (varimax) rotation in which Kaiser normalisation was achieved in 6 iterations. (The same applies to tables that follow).

There are 19 items/variables remaining because of the substantive importance of factor loadings in which coefficients less than 0.5 were suppressed in line with Stevens (2002 cited in Fields, 2010) who recommends interpreting only factor loadings with an absolute value greater than 0.4. The rest of the variables were, thus, discarded. As such, in this study, only items with factor loadings of 0.5 and above were reported. Field (2009, p.644) argues that "factor loadings are a gauge of the substantive importance of a given variable to a given factor".

Types of relationship with external social actors

This dimension recorded a KMO coefficient of 0.883, which is also 'great' suggesting the sample size's adequacy for factor analysis. The Bartlett's test of sphericity was also significant at p 0.000 indicating that the data set did not resemble an identity matrix which is composed of zero correlations. The test produced a value of chi square of 1986.912 (See Table 5).

Table 5:	KMO	and	Bartlett's	Test
----------	-----	-----	------------	------

Kaiser-Meyer-Olkin Measure of	r-Meyer-Olkin Measure of Sampling Adequacy		
Bartlett's Test of Sphericity	Approx. Chi-Square	1986.912	
	df	210	
	Sig.	0	

Table 6 illustrates that the component matrix has four factors. Notably, the type of relationships with external social actors was mainly concerned with research, education and training and engaged learning. The first factor, Research, explained about 33.4% of the total variance in this dimension with an eigenvalue of 7.013 in which contract and collaborative research as well as technology were prominent in the engagements given their high factor loadings above 0.7. Under the factor of Education and Training, 'Continuing education or professional development' was prominent with a factor of loading of 0.746. These four factors account for 59.98% of the variance in this dimension.

156 Journal of Education, No. 66, 2016

Table 6: Rotated component matrix types of relationship with external social actors

	Rescaled Component				
	Research	Education & Training	Engaged learning	Techno- logical transfer	
Contract research	0.788				
Collaborative research and development (R&D) projects	0.779				
Technology transfer	0.721				
Participatory research networks	0.662				
Joint commercialisation of a new produced	0.644				
Research consultancy	0.606				
Community based research project	0.574				
Continuing education or professional development		0.746			
Collaborative curriculum design		0.691			
Monitoring, evanluation and need assessment		0.678			
Customised training and short courses		589			
Policy research, analysis and advice		0.569			
Education of students so that they are socially responsive			0.721		
Service learning			0.712		
Alternative modes of delivery to accommodate non-traditional students			0.672		
Work-integrated learning			0.665		
Student voluntary outreach programmes			0.525		
Clinical services and patient or client care				0.72	
Design and testing of new interventions or protocols				0.671	
Eigenvalues	7.013	2.312	1.903	1.369	
% Explained variance	33.4	11.01	9.963	6.158	
Cummulative % of variance	33.4	44.41	53.47	59.985	

Channels of information

This dimension recorded a KMO of 0.904 which is deemed to be 'superb' for adequacy of the sample and a Bartlett's test of sphericity which yielded a significant chi-square value of 1647.675 at p 0.000 – with both tests hinting at the appropriateness of factor analysis. (See Table 7).

Table 7: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of	0.904	
Bartlett's Test of Sphericity	Approx. Chi-Square	1647.675
	df	171
	Sig.	0

Table 8 illustrates that four components were extracted, namely Technological, Research and Informal Engagements as well as Public Media – which they have used as the stated channels of information to transfer their knowledge to external social actors. For instance, technological engagements account for 35.6% of the variance in this dimension with an eigenvalue of 6.775, while public media with an eigenvalue of 1.385 accounted for about 7.3% of the variance in this dimension. These four factors accounted for about 59% of the variance in this dimension while extraneous factors accounted for the remaining 41% of the variance. Under public media, popular publications (factor loadings of 0.773) and public conferences, seminars and workshops (with 0.724) were prominent.

Table 8: Rotated Component Matrix on Channels of Information

	Rescaled Component			
	Technological engagements	Research engagement	Informal engage- ment	Public media
Spin-off firms from the university (commercial or not for profits)	0.69			
Software development or adaptation for social uses	0.679			
Technological incubators or innovation hubs	0.635			
Patent application and registration	0.633			
Interactive websites	0.626			
Technolgy development and application networks	0.574			
Reports and policy briefings	0.523			
Participatory or action research projects		0.699		
Research contracts and commissions		0.648		
Demonstration projects or units		0.639		
Training and capacity development or workshops		0.602		
Cross-disciplinary networks with social partners		0.598		
Intervention and development programmes		0.571		
Informal information exchange			0.755	
Oral or written testimony or advice			0.748	
Students			0.6	
Popular publications				0.773
Public conferences, seminars or workshops				0.724
Eigenvalues	6.765	1.696	1.399	1.385
% Explained variance	35.61	8.929	7.362	7.288
Cummulative % of variance	35.61	44.54	51.9	59.185

Outputs from engagement

This dimension recorded a KMO of 0.868 which is deemed to be 'great' for adequacy of the sample and a Bartlett's test of sphericity which yielded a significant chi-square value of 1112.387 at p 0.000 – with both tests hinting at the appropriateness of factor analysis (See Table 9).

Table 9: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of	0.868	
Bartlett's Test of Sphericity	Approx. Chi-Square	1112.387
	df	55
	Sig.	0

Table 10 illustrates that the outputs that resulted from academic interaction with external social actors were of an academic, and social and economic nature as the only two factors which were extracted. The items which clustered under the social and economic factor were new or improved products/processes, scientific discoveries and community infrastructure and facilities with factor loadings above 0.7.

Table 10: Rotated Component Matrix on outputs

	Resc	aled
	Comp	onent
	Social & economic	Traditional academic
New or improved products	0.875	
New or improved processes	0.803	
Scientifc discoveries	0.719	
Community infrastructure and facilities	0.707	
Snip-off companies	0.664	
Cultural artifacts	0.539	
Academic publications		0.841
Dissertations		0.841
Reports, policty documents and popular publications		0.733
Academic collaboration		0.704
Graduates with relevant skill and values		0.657
Eigenvalues	3.684	2.95
% Explained variance	33.487	26.814
Cummulative % of variance	33.487	60.301

The results indicate that the social and economic factor had an eigenvalue of 3.684 and accounted for about a third (33%) of the variance in this dimension. The two factors accounted for two thirds of the variance in this dimension.

Outcomes and benefits of engagement

This dimension posted a 'superb' KMO value of 0.913 and a Bartlett's test of sphericity chi square of 2452.745 (190) significant at p 0.000. These results also attest to the appropriateness of using factor analysis in terms of sample adequacy and sphericity (See Table 11 below).

Table 11: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of	0.913	
Bartlett's Test of Sphericity Approx. Chi-Square		2452.745
	df	190
Sig.		0

Table 12 illustrates that the outcomes and benefits that resulted from their engagement with external social partners were mainly social development and academic. Eight items clustered around the Social Development factor which had an eigenvalue of 8.704 and accounted for about 44% of the variance in the outcomes and benefits dimension. These items range from regional development to incorporation of indigenous knowledge. Under Engagement clustered items such as Intervention plans and guidelines as well as policy interventions.

Table 12: Rotated Component Matrix on outcomes and benefits

		Rescaled		
	Component			
	Social Development	Academic benefit	Engagement	
Regional development	0.793			
Improved quality of life for individuals and communities	0.781			
Improved livelihoods for individuals and communities	0.761			
Community empowerment and agency	0.719			
Community employment generation	0.645			
Firm employment generation	0.628			
Firm productivity and competitiveness	0.598			
Incorporation of indigenous knowledge	0.559			
Relevant research focus and research projects		0.793		
Theoretical & methodological development in an academic field		0.79		
Academic and institutional reputation		0.779		
Participatory curriculum development, new academic programmes and materials		0.675		
Cross-disciplinary knowledge production to deal with multi-faceted social problems		0.633		
Interventions plans and guidelines			0.711	
Community-based campaigns			0.707	
Community training and skills development			0.675	
Policy interventions			0.657	
Public awareness and advocacy				
Eigenvalues	8.704	2.474	1.935	
% Explained variance	43.521	12.372	9.676	
Cummulative % of variance	43.521	55.893	65.569	

Obstacles and challenges to engagement

The KMO test for this dimension produced a value of 0.862 which is considered 'great'. The Bartlett's test of sphericity also recorded a chi square value of 928.680 which is significant at p 0.000 (see Table 13 below).

Table 13: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of	0.862	
Bartlett's Test of Sphericity Approx. Chi-Square		928.68
	df	78
	Sig.	0

Table 14 illustrates that the main obstacles and challenges experienced during engagement are lack of academic resources and institutional support and relationships with external social partners. Four items clustered under the factor which we termed Relationship. This factor with an eigenvalue of 4.111 accounted for about 32% of the variance in this dimension. Three items clustered under the Institutional factor. The three factors account for about 59% of the total variance in this dimension.

Table 14: Rotated Component Matrix on obstacles and challenges

		Rescaled		
	Component			
	Relationship	Academic resource	Institutional	
Legal problems	0.785			
Lack of mutual knowledge about partners' needs and priorities	0.759			
Unequal power relations and capabilities in relation to external social partners	0.73			
Negotiating access and establishing a dialogue with external social partners	0.709			
Too few academic staff		0.718		
Competing priorities on time		0.603		
Limited financial resurces for competing university priorities		0.595		
Instutional recognition systems do not reward academic interaction activity sufficiently		0.547		
Risk of students involvement in interaction with external social partners			0.681	
Lack of clear university policty and structures to promote interaction			0.67	
University administration and bureaucracy does support academic interaction with external social patterns			0.58	
Eigenvalues	4.111	1.826	1.731	
% Explained variance	31.624	14.048	13.317	
Cummulative % of variance	31.624	45.672	58.989	

Discussion

Modes of engagement

It was observed that for the University of Limpopo, the interaction with external partners and faculties are primarily with firms and communities which had high factor loadings. These findings concur with Kruss *et al.* (2012, p.31) who found communities and firms as the "most frequent partners . . . reported by academics in South African universities". The engagement with large firms, multinational enterprises and Small, Medium and Micro-sized Enterprises (SMMEs), highlights the importance of university-industry linkages. The link to community could be surmised to reflect both the rural nature of the university as well as the relevance of community engagement which is developmental in orientation.

Regarding the types of relationships with external social actors, the most prominent variables which loaded to this factor were contract and collaborative research, technology transfer and participatory research networks. Typically such activities are bi-directional and mutually beneficial representing examples of genuine community-university interactions.

Channels of information

With respect to channels of information, software development or adaptation for social uses; technology and innovation hubs as well as patent application were important in the case of UL. These channels of information are direct, formal and arguably knowledge intensive. This opens new opportunities for re-imagining and re-thinking new forms of community-university interactions that are related to technological innovation. In contrast, Kruss *et al.* (2012, p.54) found that "channels of information for rural based universities included welfare and civil society".

Outputs resulting from interaction

The outputs resulting from academic interaction with social actors were of a traditional academic, social and economic nature. Likewise, Kruss *et al.* (2012, p.45) also found that "academic and social economic outputs are the

two main factors." This indicates that community engagement provided a feasible platform for knowledge exchange between the university and the community which augurs well for mutual capacity development by enabling the university and the community to further embed conventional knowledge/ development exchanges but does suggest that there is room for more innovative forms of engaged scholarship that fit the challenges of the 21st century (National Planning Commission, 2013).

Benefits from the interactions

Outcomes and benefits which result from community engagement with external social partners represent the purpose of these engagements. The benefits include regional development; improved quality of life for communities; firm productivity and competitiveness; incorporation of indigenous knowledge as well as cross disciplinary knowledge production. This corresponds with findings of, Wood, and Zuber-Skerrit, (2013) and Thomson, Smith-Tolken, Naidoo, and Bringle (2011). This suggests that community engagement presents opportunities to produce new and creative responses to societal problems through the enhancement of livelihoods.

Constraints to interactions

In this case, the key obstacles and challenges experienced during engagement with external social partners were a lack of academic resources and institutional support. The lack of resources and institutional support suggests that from an institutional perspective, CE is not reaching its full potential because the energy to promote CE; the student/academic benefits – as well as community benefits – are tied to the motivations of individuals, or departments. This corresponds with the findings of Holzer, and Kass (2015), Chimucheka, 2012, Thomson *et al.* (2011) and Cyril, Smith, Possamai-Inesedy and Renzaho, 2015 who also point towards a lack of resources and institutional support for CE at most HEIs in South Africa

On the one hand, the reality that many universities face the challenge of identifying sustainable support for CE emphasises the disorienting space that many have argued engaged interactions are situated, within the broader CE landscape. On the other hand, that argument masks the uneven territory that

all HEIs negotiate. It is unquestionably the case that some universities are able to commit funds and support to CE by virtue of either their size or their historical advantages and others do not have that luxury.

Given that there appears to be a national consensus that the community-university knowledge interface does add value (DoE, 1997), there is a logical argument for considering a national re-orientation towards engaged activities for specific universities that claim to be 'disadvantaged' or could simply 'do better' if the resources were available (Selvaratnam, 2013). One avenue could be to identify mechanisms to undertake baseline situational analyses of CE at these institutions and reward innovative ideas to radically improve – in accountable, measurable ways – CE at multiple spheres of institutional activity. Such a shift in orientation from HEIs 'expecting resources', to HEIs demonstrating commitment to coherent and responsive CE in genuine dialogue with appropriate partners might radically alter the CE landscape in favour of institutions that do possess both the institutional will and spirit to rigorously engage.

Conclusion

The article has described the different dimensions of the academic-community interactions of the University of Limpopo that emerged from a recent Audit. The study set out to answer the following research question: What are the different dimensions of the University of Limpopo's academic-community interactions?

The results suggest that although CE is not fully institutionalised at UL, committed academics have close relationships with external social partners that include heterogeneous partnerships amongst civil society and the third sector. The main reported obstacles and challenges experienced during engagement included a lack of resources and intuitional support and a network to identify external social partners. In this regard, the results provide guiding parameters to improve the scale and reach of CE at the University of Limpopo and a snapshot of the architecture and terrain of engaged scholarship at a rural-based HEI in South Africa.

The study only used a quantitative survey-based research approach with structured questionnaire. It is suggested that further qualitative research

should be undertaken to capture and explore the in-depth other factors associated with different dimensions of the academic-community interactions of the University of Limpopo.

Acknowledgements

This work is based on the research supported by the National Research Foundation. This Audit was undertaken with funding from the National Research Foundation (NRF) as part of a broader research project titled 'Community Engagement and Capabilities: Brokering Knowledge in a Dynamic Rural Landscape'. Any view, finding and conclusion expressed in this article is solely that of the authors and the NRF does not accept any liability in this regard. The authors of this article would like to acknowledge the HSRC for the use of the CE Audit Instrument, UL community for participating in the UL CE Audit 2012-2013 and the UL students, NRF bursary holders and community members who assisted in the data collection.

References

- Ahmed, S.M., and Palermo, A-G.S. (2010). Community engagement in research: Frameworks for education and peer review. *American Journal of Public Health*, *100*(8), 1380–1387.
- Albertyn, R., and Erasmus, M. (2014). An introductory perspective on the knowledge enablement landscape: Potential for Higher Education Third Sector Engagement. In M. Erasmus and R. Albertyn (Eds), *Knowledge as enablement: Engagement between higher education and the third sector in South Africa*. (1st ed.), (1–37). Bloemfontein: SUN MeDia.
- Arredondo, V.A. and De la Garza, M.F. (2006). *Higher education, community service and local development*. Paper presented at the CHE-HEQC/JET-CHESP Conference on Community Engagement in Higher education 3 to 5 September 2006.
- Bartholomew, D.J., Steele, F. and Moustaki, I. (2008). *Analysis of multivariate social science data*. (2nd ed.). New York: Chapman and Hall.
- Bender, G. (2008). Exploring conceptual models for community engagement at higher education institutions in South Africa. *Perspectives in Education*, 26(1), 81–95.
- Benneworth, P. (2015). University engagement with socially excluded communities. New York: Springer.
- Bonett, D.G., and Wright, T.A. (2015). Cronbach's alpha reliability: Interval estimation, hypothesis testing, and sample size planning. *Journal of Organizational Behavior*, *36* (1), 3–15.
- Boughey, J.D. (2014). A comprehensive university at the heart of its communities: Establishing a framework for engagement. Unpublished PhD Thesis, University of the Free State: Bloemfontein.
- Briscoe, R., Keller, H.R., McClain, G., Best, E.V., and Mazza, J,A. (2009). Culturally component community based research with African American

neighborhood: Critical components and examples. In S.Y. Evans, C.M. Taylor, M.R. Dunlap, and D.S. Miller, (Eds), *African Americans and community engagement in higher education: Community, service, service learning and community-based research, (pp.285).* Albany: State University of New York Press.

- Bryman, A. (2012). *Social research methods*. (4th ed.). New York: Oxford University Press.
- Chimucheka, T. (2012). Factors that motivate students to participate in community engagement projects: A case of commerce students at Fort Hare University, South Africa. *African Journal of Business Management*, 6(49), 11851–11858.
- Corry, O. (2010). Defining and theorising third sector. In R. Taylor, (Ed.), *Third sector research*, (1–21). New York: Springer.
- Council on Higher Education (CHE). (2011). Audit Report on the University of Limpopo, Report of the Higher Education Quality Committee (HEQC) to the University of Limpopo: Executive Summary. CHE: Higher Education Quality Committee. Retrieved 13 April 2015, from <u>http://www.che.ac.za/sites/default/files/institutional_audits/institutional_audits_2010_lp_executive_summary.pdf</u>
- Council on Higher Education (CHE). 2006. 'Higher Education Quality Committee (HEQC) and Jet Education Services Community–Higher Education–Service Partnership (CHESP).' Community Engagement in Higher Education Conference, 3–5 September, Cape Town.
- Council on Higher Education (CHE). (2004). *Criteria for institutional audits*. Pretoria: ComPress.
- Cupitt, S., and Ellis, J. (2007). *Your project and its outcomes*. London: Charities Evaluation Services.
- Cyril, S., Smith, B.J., Possamai-Inesedy, A., and Renzaho, A.M.N. (2015). Exploring the role of community engagement in improving the health of disadvantaged populations: A systematic review. *Global Health Action*, 8, 1–12.

- Department of Education. (1997). *Education White Paper 3: A programme* for the transformation of higher education. Pretoria, South Africa: Government Gazette. Notice 18207.
- Eisinga, R., Te Grotenhuis, M., and Pelzer, B. (2013). The reliability of a two-item scale: Pearson, Cronbach or Spearman-Brown? *International Journal of Public Health*, 58, 637–642.
- Erasmus, M. and Albertyn, R. (2014). An introductory perspective on the knowledge enablement landscape potential for Higher Education – third sector engagement. In M. Erasmus and R. Albertyn (Eds), *Knowledge as enablement: Engagement between higher education and the third sector in South Africa*. (1st ed.), (21–37). Bloemfentein: Sun MeDia.
- Field, A. (2009). Discovering statistics using SPSS. (3rd ed.). London: Sage.
- George, D. and Mallery, P. (2003). SPSS for Windows step by step: A simple guide and reference. 11.0 update. (4th ed.). Boston: Allyn & Bacon.
- Gerber, R.E. (2005). The need for a shift in the South African educational research epistemological landscape. *South African Journal of Higher Education*, 19, 1395–1404.
- Gibbons, M., Limoges, C., Nowotny, H., Schwartzman, S., Scott, P. and Trow, M. (1994). *The new production of knowledge: The dynamics of science and research into contemporary societies*. London: Sage.
- Global Alliance on Community Engaged Research. (2009). *Higher education, community engagement and the world we want: A policy brief to the world conference on higher education*, July 5–8, 2009. Retrieved 24 December 2014, from <u>http://communityresearchcanada.ca.</u>
- Hall, M. (2010). Community engagement in South African higher education in Kagisano, 6 Community Engagement in South African Higher Education, (1–52). Auckland Park: Jacana Media.
- Hart, A., Northmore, S. and Gerhardt, C. (2009). Auditing, benchmarking and evaluating university public engagement. Briefing paper commissioned by The National Co-ordinating Centre for Public Engagement. National Co-ordinating Centre for Public Engagement: Bristol.

- Hart, A. and Northmore, S. (2010). Auditing and evaluating university–community engagement: Lessons from a UK case study. *Higher Education Quarterly*, 65(1), 34–58.
- Hester, J., Adejumo, O.A., and Frantz, J.M. (2015). Cracking the nut of service-learning in nursing at a higher educational institution. *Curationis*, *38*(1),1–9.
- Holzer, J. and Kass, N. (2015). Understanding the supports of and challenges to community engagement in the CTSAs. *Clinical and Translational Science*, 8(2), 116–22.
- Israel, C. (2014). The merging of university and community: Furthering collaborative education. *International Online Journal of Primary Education*, *3*(1), 1–7.
- Kaburise, J. 2007. Community engagement at the university for development studies. Proceedings of Conference on Community Engagement in Higher Education, Cape Town, 3– 5 September 2006. The Council on Higher Education (CHE) Higher Education Quality Committee (HEQC) and JET Education Services (JET) Community-Higher Education-Service Partnerships (CHESP), 81–88.
- Kaiser, K.F. (1974). An index of factorial simplicity. *Psychometrika*, 39(1), 31–36.
- Kearney, J. 2015. Challenges for community engagement: An Australian perspective. *Educational Research for Social Change*, 4(1), 26–39.
- Kruss, G., Diwu, G., Nyoka, B., Ranchod, R. and Manamela, A. (2013). *A Review of the Community-University Partnership Programme (CUPP)* (Draft). Cape Town: HSRC Press.
- Kruss, G., Visser, M., Aphane, M., and Haupt, G. (2012). Academic interaction with social partners: investigating the contribution of universities to economic and social development. Cape Town: HSRC Press.

- Levitt, T. (2014). *Welcome to Good Co: Using the tools of business to create public good*. London: Gower Publishing.
- Mabuza, L.H., Diab, P., Reid, S.J., Ntuli, B.E., Flack, P.S., Mpofu, R., Daniels, P.S., Adonis, T-A., Cakwe, M., Karuguti, M.W., and Molefe, N. (2013).Communities' views, attitudes and recommendations on community-based education of undergraduate Health Sciences students in South Africa: A qualitative study. *African Journal of Primary Health Care & Family Medicine*, 13(1),1–9.
- Mavhandu-Mudzusi, A.H. and Netshandama, V.O. (2014). Management model for HIV/AIDS in a South African rural-based university. *African Journal for Physical, Health Education, Recreation and Dance, 20*(2:1), 372–388.
- McRae, H. (2012). Reframing university continuing education's role in community engagement. *Canadian Journal of University Continuing Education*, 38(1), 1–10.
- Mirza, R., Vodden, K., and Collins, G. (2012). *Developing innovative approaches for community engagement in the Grand Falls–Windsor– Baie Verte–Harbour Breton Region*. Newfoundland and Labrador: Canada Memorial University.
- Mohamed, S.E. (2006). Community engagement in South African higher education institutions. *Volunteer and Service Enquiry Southern Africa*: 1(3). Retrieved 23 December 2014, from <u>http://vosesa.org.za/focus/vol1_no3/index.html.</u>
- Monette, D.R., Sullivan, T.J., Dejong, C.R., and Hilton, T.P. (2014). *Applied social reassert: A tool for human service*. (9th ed.). Belmont: Brooks/Cole.
- Moore, T. and Ward, K. (2010). Institutionalizing faculty engagement through research, teaching, and service at research universities. *Michigan Journal of Community Service Learning*, 17(1), 44–58.
- Muirhead, B., Graham, P., and Brown, L. (2002). Redefining excellence: A strategic policy for Victorian higher education and community

engagement. University of Queensland. Retrieved 13 March 2015, from <u>http://www.uq.edu.au/boilerhouse/docs/Muirhead-etal-Redefining-Excel</u><u>lence.pdf.</u>

- Muller, J. (2010). Engagement with engagement: a response to Martin Hall in *Kagisano*, 6 *Community Engagement in South African Higher Education, (*24–29). Auckland. Park: Jacana Media.
- Mulroy, E. 2004. University civic engagement with community-based organizations: dispersed or coordinated models? In Soska, T.M. and Butterfield, A.K. (Eds), University-community partnerships: universities in civic engagement, (35–52). New York: Haworth Press.
- Nampota, D. and Preece, J. (2012). University community service and its contribution to the Millennium Development Goals: a pan-African research project. *Journal of Education*, 55, 105–126.
- Nampota. D. (2011). Emerging issues on the process and outcomes of community service from the experiences of the eight country case studies. In Preece, J. (Ed.), *Community service and community engagement in four African universities*, (107–120). Gaborone: Lentswe La Lesedi.
- National Planning Commission. (2013). *National Development Plan. Vision* for 2030. Pretoria: Presidency. Retrieved 13 January 2015, from http://www.gov.za/sites/www.gov.za/files/devplan_2.pdf
- Netshandama, V. (2010). Quality partnerships: The community stakeholders' view. *Gateways: International Journal of Community Research and Engagement*, *3*, 70–87.
- Netshandama, V., Maluleke, M., and Kutame, P. (2011). Students' reflections on the benefits of community engagement programmes in a rural-based university, a pursuit for social justice. *Journal of Educational Studies*, Special Issue Social Justice, 121–137.
- Nhamo, G. (2013). Participatory action research as a platform for community engagement in higher education. *Journal of Higher Education in Africa*, 10(1), 1–21.

- Nkomo, M. and Sehoole, C. (2007). *Rural-based universities in South Africa Albatrosses or potential nodes for sustainable development?* Pretoria, South Africa: openUP. Retrieved 13 April 2016, from <u>http://repository.up.ac.za/dspace/bitstream/handle/2263/2544/Nkomo R</u> uralbased%282007%29.pdf?sequence=1&isAllowed=y
- Odeku, K.O. and Meyer, E.L. (2014). Knowledge production, community engagement/development and global climate change. Mediterranean *Journal of Social Sciences*, *5*(7), 671–679.
- Paleari, S., Donina, D. and Meoli, M. (2015). The role of the university in twenty-first century European society. *Journal of Technology and Transformation*, 40, 369–379.
- Pienaar, S. (2014). Considering ethics: enabling participatory knowledge sharing. In M. Erasmus and R. Albertyn (Eds), *Knowledge as* enablement: Engagement between higher education and the third sector in South Africa. (1st ed.), (80–99). Bloemfontein: Sun Press.
- Pratt, J., Matthews, S., Nairne, B., Hoult, E., and Ashenden, S. (2011). Collaboration between universities: An effective way of sustaining community-university partnerships? *Gateways: International Journal of Community Research and Engagement*, 4: 119–35.
- Preece, J. (2013). Service learning and community engagement in South African universities: towards an 'adaptive engagement' approach. *Alternation* (Special Edition) 9, 265–291.
- Ramírez, R., Aitkin, H., Kora, G., and Richardson, D. (2005). Community engagement, performance measurement, and sustainability. *Canadian Journal of Communication*, 30(2), 259–279.
- Raykov, T. and Marcoulides, G.A. (2013). *Basic statistics: An introduction with R.* Maryland: Rowman and Littlefield Publishers.
- Richardson, R.C., Plummer, C.A., Bartheleney, J.J., and Cain, D.S. (2009). Research after natural disaster: Recommendations and lessons learned. *Journal of Community Engagement and Scholarship*, 2(1), 3–11.

- Rowe, C.D. (2011). The sustainability of service learning and community engagement in the post 'community higher education service partnership' era. Unpublished MEd Dissertation, University of the Witwatersrand.
- Sampson, J.P. Jr. (2012). "A guide to quantitative and qualitative dissertation research". *Educational Psychology and Learning Systems Faculty Publications*. Paper 1. Retrieved 11 December 2014, from <u>http://diginole.lib.fsu.edu/edpsy_faculty_publications/1</u>
- Schuetze, H.G. (2010). The Third mission of universities: Community engagement and service. In P. Inman and H.G. Schuetze (Eds), *The community engagement and service mission of universities*, (13–32). Leicester: NIACE.
- Selvaratnam, D.P. (2013). Do Student volunteers benefit from community engagement? *Asian Social Science*, 9(8): pp.123–128.
- Shah, R. (2007). The engaged university: Key challenges, enabling mechanisms and quality management. In: *Proceedings of conference on community engagement in higher education*, Cape Town, 3–5
 September. Higher Education Quality Committee (HEQC) JET Education Services (JET) Community-Higher Education-Service Partnerships (CHESP), (55–65).
- Slamat, J. (2010). Community engagement as scholarship: A response to Hall in Kagiso, 6 Community Engagement in South African Higher Education. Auckland Park: Jacana Media, (104–114).
- Snyman, L. (2014). Analysis of community engagement at South African universities. (Masters Dissertation). University of Johannesburg. Retrieved 08 January 2015, from <u>https://ujdigispace.uj.ac.za/bitstream/handle/10210/12461/Snyman%2c</u> <u>%20Leonardo.pdf?sequence=1&isAllowed</u>
- Stillman, L. (2014). Empowering community voices project: research studies from South Africa and Bangladesh. Centre for community and social informatics. Monash University. Retrieved 12 January 2015, from <u>http://artsonline.monash.edu.au/oxfam/files/2014/08/Oxfam-Bangla-1-A</u> <u>ug-2014.pdf</u>

- Strydom, J.F. and Mentz, M. (2010). *Focusing the student experience on success through student engagement*. Pretoria: Council on Higher Education.
- Taylor, M. (2007). Community participation in the real world: Opportunities and pitfalls in new governance spaces. *Urban Studies*, *44*, 297ff.
- University of Limpopo (UL). (2016). *UL Mission, Vision, Motto*. University of Limpopo website. Retrieved 30 April 2016, from http://www.ul.ac.za/index.php?Entity=ul_mis_vis
- Thomson, A.M., Smith-Tolken, A.R., Naidoo, A.V., and Bringle, R.G. (2011). Service learning and community engagement: A comparison of three national contexts. *Voluntas*, 22, 214–237.
- UNESCO. (1998). World declaration on higher education for twenty first century: Vision and action. Retrieved 24 December 2014, from http://www.unesco.org/education/educprog/wche/declaration
- UNESCO. (2009). *World conference on higher education*. Retrieved 08 January 2015, from <u>http://www.unesco.org/new/en/education/themes/strengthening-education_n-systems/higher_education/conferences/</u>
- University of Limpopo (UL). (2008). Community Engagement Policy. University of Limpopo website. Retrieved 30 April 2016, from <u>https://www.ul.ac.za/application/downloads/COMMUNITY%20ENGA</u> <u>GEMENT%20POLICY.pdfUniversity</u>
- Van Schalkwyck, F. and Erasmus, M. (2011). Community participation in higher education service learning. *Acta Academica*, *43*(3), 57–82.
- Westdijk, K., Koliba, C., and Hamshaw, K. 2010. Collecting data to inform decision making and action: The University of Vermont's faculty community engagement tool. *Journal of Higher Education Outreach and Engagement*, 14(2), 5–33.
- Wood, L. and Zuber-Skerrit, O. (2013). PALAR as a methodology for community engagement by faculties of education. *South African Journal of Education*, 33(4), 1–15.

178 Journal of Education, No. 66, 2016

Appendix 1: UL Community Engagement Audit 2013/2014

Name of Faculty:

Academic rank:

Highest qualification:

1. To what extent do you interact through your academic work with any of these external social actors?

	External social actors	Not at all	Isolated instances	On a moderate scale	On a wide scale
		1	2	3	4
1	Local government agencies				
2	Provincial/regional government departments or agencies				
3	National government departments				
4	Clinics and health centres				
5	Schools				
6	National regulatory and advisory agencies				
7	Individuals and households				
8	A specific local community				
9	Welfare agencies				
10	Non-governmental agencies (NGOs)				
11	Development agencies				
12	Trade unions				
13	Civic associations				
14	Community organisations				
15	Social movements				
16	Political organisations				
17	Religious organisations				
18	Large national firms				
19	Small, medium and micro enterprises				
20	Multi-national companies				
21	Small-scale farmers (non-commercial)				

22	Commercial farmers		
23	Sectoral organisations		
24	National universities		
25	African universities		
26	International universities		
27	Science councils		
28	Funding agencies		
29a	Other		
29b	Specify		

2. To what extent does your academic scholarship involve these types of relationship with external social actors?

	Types of relationship	Not at all	Isolated instances	On a moderate scale	On a wide scale
		1	2	3	4
1	Alternative modes of delivery to accommodate non-traditional students				
2	Work integrated learning				
3	Education of students so that they are socially responsive				
4	Service learning				
5	Student voluntary outreach programmes				
6	Collaborative curriculum design				
7	Continuing education or professional development				
8	Customised training and short courses				
9	Policy research, analysis and advice				
10	Expert testimony				
11	Clinical services and patient or client care				
12	Design and testing of new interventions or protocols				
13	Design, prototyping and testing of new technologies				

14	Monitoring, evaluation and needs assessment		
15	Research consultancy		
16	Technology transfer		
17	Contract research		
18	Collaborative Research & Development (R&D) projects		
19	Community-based research projects		
20	Participatory research networks		
21	Joint commercialisation of a new product		
22a	Other		
23b	Specify	 	

180 Journal of Education, No. 66, 2016

3. To what extent have you used each of the following channels of information to transfer your knowledge to external social actors?

	Channels of information	Not at all	Isolated instances	On a moderate scale	On a wide scale
		1	2	3	4
1	Public conferences, seminars or workshops				
2	Informal information exchange				
3	Radio, television or newspapers				
4	Popular publications				
5	Interactive websites				
6	Students				
7	Reports and policy briefings				
8	Oral or writen testimony or advice				
9	Training and capacity development or workshops				
10	Demonstration projects or units				
11	Research contracts and commissions				
12	Technology incubators or innovation hubs				
13	Intervention and development programmes				
14	Software development or adaptation for social uses				

Aphane, Mtapuri, Burman and Mollel: Academic interaction. . . 181

15	Participatory or action research projects				
16	Cross-disciplinary networks with social partners				
17	Technology development and application networks				
18	Patent applications and registration				
19	Spin-off firms from the university (commercial or not for profit)				
20a	Other				
20b Specify					

4. To what extent has your academic Interaction with external social actors had the following outputs?

	Outputs	Not at all	Isolated instances	On a moderate scale	On a wide scale
		1	2	3	4
1	Graduates with relevant skills and values				
2	Academic publications				
3	Dissertations				
4	Reports, policy documents and popular publications				
5	Cultural artifacts				
6	Academic collaboration				
7	Spin-off companies				
8	Community infrastructure and facilities				
9	New or improved products				
10	New or improved processes				
11	Scientific discoveries				
12	Other				
13	Specify	-			

182 Journal of Education, No. 66, 2016

5. To what extent has your academic Interaction had the following outcomes or benefits?

	Outcomes and benefits	Not at all	Isolated instances	On a moderate scale	On a wide scale
		1	2	3	4
1.	Public awareness and advocacy				
2	Imroved teaching and learning				
3	Community-based campaigns				
4	Policy interventions				
5	Intervention plans and guidelines				
6	Community training and skills development				
7	Community employment generaion				
8	Firm employment generation				
9	Firm productivity and competitiveness				
10	Novel uses of technology				
11	Improved livelihoods for individuals and communities				
12	Improved quality of life for individuals and communities				
13	Regional development				
14	Community empowerment and agency				
15	Incorporation of indigenous knowledge				
16	Participatory curriculum development, new academic programmes and materials				
17	Relevant research focus and new research projects				
18	Academic and institutional reputation				
19	Theoretical and methodological development in an academic field				
20	Cross-disciplinary knowledge production to deal with multi-faceted social problems				
21a	Other				
21b	Specify				

6. In your experience, how important are the following obstacles and challenges to your academic Interaction with external social actors?

	Obstacles and challenges	Not important	Slightly important	Moderately important	Very important
		1	2	3	4
1.	Limited financial resources for competing university priorities				
2.	Lack of clear university policy and structures to promote Interaction				
3	University administration and bureaucracy does not support academic Interaction with external social partners				
4	Competing priorities on time				
5	Too few academic staff				
6	Institutional recognition systems do not reward academic Interaction activities sufficiently				
7	Risks of student involvement in Interaction with external social partners				
8	Tensions between traditional and new academic paradigms and methodologies				
9	Sustainable external funding				
10	Negotiating access and establishing a dialogue with external social partners				
11	Unequal power relations and capabilities in relation to external social partners				
12	Legal problems				
13	Lack of mutual knowledge about partners' needs and priorities				
14a	Other				
14b	Specify				

183

Marota Aphane The Rural Development and Innovation Hub University of Limpopo

marota.aphane@gmail.com

Oliver Mtapuri School of Built Environment and Development Studies University of KwaZulu-Natal

simbaomtapuri@yahoo.com

Chris Burman The Rural Development and Innovation Hub University of Limpopo

burmanc@edupark.ac.za

Naftali Mollel The Rural Development and Innovation Hub University of Limpopo

naftali.mollel@ul.ac.za