Circularity as Alterity? Untangling Circuits of Value in the Social Enterprise-led Local Development of the Circular Economy

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Abstract

In recent years, the circular economy (CE) paradigm has emerged as a mainstream policy discourse

having the potential to disrupt linear economic development pathways by extracting and retaining

the maximum value from existing resources through their recirculation. Highlighting the diverse

circuits of value implicated in local CE development, this paper considers how the ecological

(material) and extraeconomic (social) premises of CE thinking can be harnessed through mission-

driven social enterprises (SEs). Using a case study of a SE project in Graz, Austria, which is

engaged in CE activities across the textile, interior design/wood and food sectors, it proposes a

novel heuristic framework for examining the role of circuits of value in constructing alternative

circular narratives and local circular economic development trajectories. In doing so, this

framework positions SE as an entity entangled in a complex web of interconnected material and

social relations and practices that occur across co-existing mainstream and alternative economic

spaces of production, exchange and consumption. By aligning the CE concept with circuits of

value, the paper further shows the importance of mapping and conceptualizing value flows and

feedback loops associated with the local development of the CE in a given spatial and temporal

context.

Key words: circular economy; social enterprise; circuits of value; diverse economy; local

economic development

1. Introduction

The global economy remains dominated by the narratives of growth-driven capitalism, whose extractive and profit-driven nature is associated with climate change and high rates of ecosystem degradation, exceeding the Earth's capacity to restore its finite resources (Rockström et al. 2009). One of the transformative paradigms that challenges the way mainstream economic development currently operates is the circular economy (CE). Although the definition of the CE continues to evolve, building on different disciplines and philosophies (EMF 2013), it generally refers to regenerative practices whereby "resource input and waste, emission, and energy leakage are minimized by slowing, closing, and narrowing material and energy loops through long-lasting design, maintenance, repair, reuse, remanufacturing, refurbishing, and recycling" (Geissdoerfer et al. 2017, 6). The CE has quickly gained traction among European Union (EU) policy makers after the European Commission introduced the CE platform and CE Package in 2014 (European Commission 2019). There is also growing worldwide interest in applying CE to diverse local economic development contexts in order to reduce the carbon footprint associated with the global circulation of material products and services (Bolger and Doyon 2019).

Emerging from disciplines such as industrial ecology, business and engineering (Korhonen et al. 2018), the principles and practices of the CE have been adopted by corporations to reduce costs and realize competitive advantage by saving raw materials (Lacy and Rutqvist 2016). However, socio-spatial aspects of the CE such as human well-being, local community development and inclusive growth tend be overlooked in mainstream economic development practice and discourse (Hobson and Lynch 2016; Murray, Skene, and Haynes 2017; Ranta et al. 2018). As currently framed, research on the CE does not leave much room to interrogate the power relations and norms that underlie efforts to (1) identify alternatives to mainstream production systems and

social relations in capitalism, and (2) address the root societal causes of the problems that the CE is expected to tackle (Hobson and Lynch 2016). This has implications for the local development of alternative CE-based solutions, which might be prone to co-optation by the notions of green capitalism and consumerism (Hobson 2016). There is thus a growing need to understand how local transactions, social relations and, ultimately, circuits of value can be constructed around the CE in a manner that could (in)directly promote changes in linear economic systems and empower citizens and social enterprises to become active agents of sustainable economic development (Schulz, Hjaltadottir, and Hild 2019).

In this paper, we argue that research into the local development of a socially inclusive CE could benefit from conceptual insights from the economic geography literature on circuits of value (Lee 2010). The concept of circuits of value considered here originates in research on diverse economies, which examines economic activities not so much through the lens of markets and monetary transactions, but instead in terms of the social desirability and intrinsic value of everyday economic and extraeconomic transactions (Gibson-Graham 2006). By acknowledging the heterogeneity of emergent forms of economic organization rather than giving primacy to strictly profit-oriented activities, the literature on diverse economies challenges individualistic market rationality and highlights the complex nature of social relations that shape material and social flows of value or 'circuits of value' (Lee 2013). By recognizing monetary and nonmonetary, capitalist and non-capitalist, and formal (regulated) and informal (unregulated) transactions, which in fact underpin value circulation across spaces of production, exchange and consumption, the literature advocates innovative (albeit not exclusively mainstream) ways of (co-)producing, consuming, (re)distributing and exchanging goods and services, which have potential to be within Earth's limits. While some scholars have already attempted to combine

debates on CE with the literature on alternative economic spaces (Hobson and Lynch 2016; Holmes 2018), the integration of the concept of circuits of value into the CE discourse offers a new perspective on CE thinking that recognizes the importance of the flows of material and social (including non-capitalist) value associated with CE practices. In seeking to fill a gap in current CE research, we develop a novel heuristic framework for investigating the role of diverse circuits of value in shaping alternative pathways for the local development of the CE. This framework is developed and applied in the context of a case study of a social enterprise project¹ - heidenspass – which operates across the textile, interior design and food sectors in the City of Graz, Austria. The project emerged out of a need to provide employment to disadvantaged young individuals and embodies a number of activities epitomizing CE thinking such as upcycling of wood, furniture or textiles, and use of food surplus from retailers. The fact that heidenspass is also engaged in various sharing activities (e.g. of food, ideas and renting of spaces) further reinforces the need to align the CE concept with that of the diverse economy and its constituent transactions, including those highlighted by studies of the sharing economy (Schor 2015). Our primary aim here is to use the case study to map and conceptualize the full diversity of everyday transactions and flows that potentially underpin the local development of the CE. In doing so, the paper aims to answer the following research question: what is the role of social enterprises in constructing and sustaining circuits of value for the local development of a socially inclusive circular economy? Answering this question reveals how the social relations underpinning

¹ As will become apparent later in the paper, the definition of 'social enterprise' varies between national contexts. For the sake of expediency we are using this term to describe enterprises, including *heidenspass*, which explicitly incorporate a social mission in their everyday transactions.

circulation of value are embedded in, and are shaped by, wider socio-economic, spatial and institutional contexts (Granovetter 1985). Authors have called for the implications of context in this sense to be considered with respect to environmental policies traditionally focused on technical requirements for sustainability transitions (Deutz and Lyons 2015) and specifically for CE transitions (Hobson 2016).

The paper is organized as follows: first, it conjoins the literature on circuits of value and CE with that of diverse economies in order to set out a new heuristic framework for examining local CE development processes. Next, it considers why a focus on social enterprises (SE) provides a useful means of investigating the material and social circuits of value underpinning the CE. The third section describes the methods used in conducting a qualitative case study of *heidenspass* SE project in Graz, Austria. The methods included interviews, mapping sessions and empirical observations supported by videography. This is followed by the findings and discussion section, which interrogates the social structures and (spatial) contingencies underlying circuits of value in local CE development trajectories. Finally, in the conclusion we reflect on how our heuristic framework might help to advance economic geographical research on the CE and inform discourses and practices that support social CE transitions and attendant material flows of resources and circuits of value.

2. Building alternative circular futures: where two worlds collide

In this section we lay down the foundations for our heuristic framework for investigating the role of circuits of value in developing local and socially inclusive CE. We, first, initiate a dialogue between the literatures on CE and diverse economies; second, explore the role of circuits of value in a CE; and, third, identify SEs as key agents of local CE development.

2.1 CE and diverse economies: constructing a dialogue

The respective concepts of the CE and the diverse economy occupy important niches in contemporary economic development discourse and practice. Each set of literature and its associated concepts has, however, different origins and antecedents.

While the origins of the CE concept can be traced back to formative works such as Boulding's (1966) 'Spaceship Earth' or Club of Rome's 'Limits to Growth' (1972), Pearce and Turner (1990) were among the first to formally adopt the CE term in an economic model (Winans, Kendall, and Deng 2017). A growing body of literature has subsequently positioned the CE as emerging from the fields of ecological and environmental economics and industrial ecology (Deutz and Ioppolo 2015; Murray, Skene, and Haynes 2017). Shaped and refined by theories such as biomimicry (Benyus 1997), cradle-to-cradle (McDonough and Braungart 2010), the performance economy (Stahel 2010), or the sharing economy (Sposato et al. 2017), the CE concept has entered mainstream economic discourse and practice as reflected in corporate policies on reducing the use of raw materials. The adoption of CE thinking remains, however, primarily motivated by cost savings and achievement of competitive advantage for firms rather than by extraeconomic premises (Lacy and Rutqvist 2016). A focus upon the latter is integral to diverse economy thinking and practice.

Contrary to the CE concept, the diverse economies literature emerged not as much out of environmental concerns as out of the growing need to represent the diversity of forms of economic organization both within and outwith global capitalism (Gibson Graham 2006). Diverse economies and spaces are portrayed as amounting to more than just marginal, subjugated phenomena or merely as subsystems of an overarching global capitalist economic system.

Instead, they are regarded as necessary features of an intrinsically heterogeneous and locally emergent economic landscape comprising a great variety of institutional forms and circuits of value (Gibson-Graham 2006; Lee 2006; Healy 2009; Gritzas and Kavoulakos 2016). By coexisting with mainstream economic institutions in different places, diverse economies are, in fact, inherently 'tangled up' (Lee 2006) in complex social relations, material transactions and geography. As such, the literature depicts diverse economies as inherently dynamic, performed and always in the process of *becoming*, both organizationally and geographically, rather than as pre-given, static entities. This insight forms the entry point into our own attempt to reconceptualize CE from the vantage of circuits of value by highlighting the broader institutional and socio-ecological contexts in which alternative and mainstream economic spaces **co**-exist, and which shape social relations and networks underpinning both economic realms. When referring to the CE, we recognize that the CE itself is comprised of diverse economic practices, circulations and flows or 'circular economies' (CEs) (cf. Gregson et al. 2015).

Figure 1 illustrates the complex mosaic of economic spaces through which people produce, exchange and distribute materials and resources both within and outwith the mainstream capitalist socio-economic system. These forms, which can be also referred to as 'spaces of alterity' (Fuller, Jonas, and Lee 2010), may range from consumer and worker cooperatives to bartering or any voluntary work in nonprofits or SEs. The locally-specific ways in which these forms emerge further reflects the diversity of social relations, conditions and, more specifically, the coexistence of regulated mainstream market transactions with unregulated non-market transactions, paid and unpaid/voluntary labor in particular places (Gibson-Graham 2006).

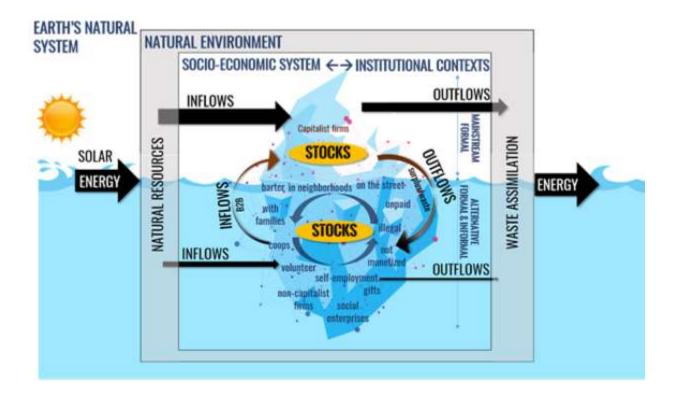


Figure 1. Resource flows across the mainstream and alternative economic spheres: a heuristic framework. Author's design after Community Economies Collective (Diverse Economies Iceberg by Community Economies Collective is licensed under a Creative Commons Attribution-Share Alike 4.0 International License), Laurenti et al. (2018), and Haas et al. (2005).

Whilst diverse economies often remain hidden from mainstream local development discourse, studies nonetheless reveal their significance for community development and social and physical well-being (Gibson-Graham 2008). Crucially, diverse economy discourses, practices and spaces are increasingly becoming more closely aligned with broader environmental, and more recently, CE practices including reuse, repair, refurbishment, rental, remanufacture, local resource sharing and recycling (Holmes 2018; Lekan and Rogers 2020). This putative alignment is represented in

Figure 1, which attempts to capture how stocks of human, financial, social and natural capital² flow through, and circulate within, the global capitalist socio-economic system. Within this system, institutions and enterprises operating in a diverse economy both serve as sinks for resource outflows from the mainstream economy and capture flows of stocks *rec*irculating through the diverse economy itself. Just like in nature's design, economic diversity, as embodied in complex socio-natural networks and (re-)circulation of material flows, can help to boost local community resilience in the face of external economic shocks (Raworth 2017). Indeed, alternative economic spaces often emerge spontaneously from a need to provide a means of survival for communities by, for example, recirculating reusable resources, and redistributing income, capital and commodities (Fuller and Jonas 2003). It follows that local CE development spaces should not be seen as ideal types so much as a way of understanding how different economic forms emerge to address a variety of pressing economic and socio-environmental challenges facing particular localities. We next consider how the local development of the CE can be animated by incorporating circuits of value into a novel heuristic framework.

2.2 CE and Circuits of Value

It is our contention that the concept of *circuits of value* provides the analytical 'glue' conjoining the CE and diverse economies. This concept enables us to investigate and capture in a more concrete fashion those feedback loops and value flows underpinning the (re)circulation of material resources within and through a diverse economy as represented in the heuristic in Figure 1. Circuits of value refer to material and social pathways around which values attached to a given resource

² By natural capital we imply resources extracted from the natural environment.

circulate are subsequently co-produced, transformed/exchanged and consumed through relevant economic activities (Lee 2006). These circuits are being constantly reconfigured by social relations and embed multiple, diverse conceptions of value that may include both capitalist (i.e. market-based) and non-capitalist (e.g. social and environmental) values. As Hudson (2004) noted, "(...) economic processes must be conceptualized in terms of a complex circuitry with a multiplicity of linkages and feedback loops rather than just "simple" circuits or, even worse, linear flows" (462). The same principle in fact also applies to the CE; albeit the CE-related concept of value itself needs to be broadened to encompass its diverse material, social and spatial forms and their constituent circuits.

By embedding non-capitalist values, the concept of circuits of value goes beyond Marx's concept of *circuits of capital* (Fox and Marx 1985). The latter concept denotes pathways around which labor-value and commodity-value circulate across spaces of consumption, production, and exchange (where commodities and their embodied labor-use value are exchanged into monetary prices/wages, i.e. 'exchange value') through monetary financial transactions and their supporting institutions. In circuits of capital, any generated surplus value, which occurs when the volume and value of production outputs exceed the costs of production inputs, is appropriated by the owner of the means of production and therefore as production outputs. The classical structural Marxist approach to economic development thus focuses on capitalist use values at the service of exchange value and prioritizes the analysis of capital-labor relations at the point of production rather than the wider landscape of social reproduction and consumption and its constituent social relations of power structures (Lee 2013; Löwy 2015; Warde 1992). This focus is to some extent reflected in Santos' (1977) classic study of 'circuits of capital', which draws a distinction between an 'upper circuit' dominated by mainstream economic activities and organizations (e.g.

multinational firms) and a 'lower circuit' involving small-scale and informal enterprises, with the latter largely subordinate to the former through socio-economic relations.

This paper casts particular attention on the intersection of lower and upper circuits of capital, and more importantly on the intersection of geographically expansionary circuits of capital with broader, non-market conceptions of value. In doing so, it adopts Lee's (2013) definition of value as involving "vital, life-sustaining things, ideas, relations and practices consumed, exchanged and produced" (415). Such a conception of value highlights the potential contribution of corresponding upper and lower circuits of value to social reproduction, i.e. support for the development of socially necessary conditions that sustain or improve extant social relations, (quality of) human life and (circular) economic activities (Fox and Marx 1985). It is also in line with Arnould's (2014) definition of value, to which he referred as a "contingent effect of interaction" (2), which is enabled and/or supported by socially necessary resources, thereby to some extent reconciling the satisfaction of social needs with demands for a circular/ecological approach to the protection of the natural environment (O'Connor 1998).

We also acknowledge that (use-)value can further refer to "forms of life, relations, things, thoughts and practices that are held dear and are considered to be inalienable" (Lee 2013, 415). This notion of value is especially relevant in case of diverse (and circular) economies, which postulate that material success is a necessary but insufficient condition in building prosperous societies (Gibson-Graham 2006). In other words, it is vital to acknowledge non-capitalist, intangible values surrounding (alternative) processes of production, exchange and consumption of value, and which may embody CE principles, as well as those embodied in circulating goods, for example ecological value embodied in waste as a type of revalued good. The latter case challenges the subjective theory of value according to which "the value of goods arises from

their relationship to our needs, and is not inherent in the goods themselves" (Menger 1976, 120). For these reasons, the research adopted a subjective value mapping technique as a means of interrogating both the tangible (material) and intangible (subjective) circuits of value (see Methods below). Overall, this alternative approach to value provides us with an opportunity to reveal and shape diverse, socio-circular economic practices, discourses and imaginaries, i.e. novel notions about nature and extraeconomic purposes of circuits of value surrounding local CE development.

Moreover, our inherently relational concept of circuits of value enables us to move beyond a simplistic taxonomic segmentation of economic activities into mainstream/alternative and capitalist/non-capitalist binary categories (cf. Samers and Pollard 2010). For example, what is 'alternative' to someone is another person's 'mainstream'. In recognizing "socio-spatial anatomy" of economic processes (Hudson 2005, 143), circuits of value hence reflect Heley, Gardner, and Watkin's (2012) multifaceted concept of compound economy, which focuses on the "diversity of drivers, values and forms of exchange" (370), as well as "relations and logics that combine in complex ways to produce, reproduce and transform local and regional economic space" (368). Such an approach helps to reveal how community (local), regional and global economies are interrelated. Similarly, a study conducted by Cannas (2018) demonstrated that alternative local economies can coexist with mainstream, globally connected and monetized economic organizations whilst at the same time delivering new forms and circuits of value. Likewise, Gibson-Graham (2006) highlighted the need for exploring the links between local alternatives and global capitalism rather than allowing knowledge of the processes by which alternative economic spaces proliferate to be obscured by an abstract analysis of capital-labor (class) relations. Nonetheless, such depiction of the economy raises questions as to what extent

alternative CE activities at the local level may be enhanced through stronger linkages between local circuits of value and the regional and global economy (Gritzas and Kavoulakos 2016). This is especially relevant in the CE discourse whereby circular activities are often deemed sustainable when they occur at the local level such that spatial distances between economic spaces of procurement, production, exchange and consumption are significantly reduced and hence negative environmental externalities lessened (Stahel 2013).

2.3 Social enterprises as diverse circular economic spaces in the making

Until now the, the diverse economies literature has examined inter alia (worker) cooperatives, credit unions, time banks, Local Exchange Trading Systems (LETS) (Fuller and Jonas 2010; Jonas 2013), households (Domosh 1998) and, more recently, repair cafes (Rosner 2014), makerspaces (Granger 2018), and food swaps (Schor et al. 2016), amongst many others. Many of these forms of economic activity can be categorized as, or are run by, social enterprises (SEs). The definition of SE is, however, fluid and contested as different actors construct and use it according to their needs (for example as a policy tool) (Teasdale 2012). SEs operate across an organizational spectrum ranging from charities with a trading arm and social benefit enterprises to socially responsible commercial enterprises (Bolton, Kingston, and Ludlow 2007). Many are thus distinct from non-profit organizations (NPOs) by being, at least to some extent, financially independent. SEs seek to maximize social impact by prioritizing the reinvestment of profits to fulfill a social and/or environmental mission over their distribution among-shareholders (Longhurst et al. 2016). SEs hence embed both mainstream and alternative characteristics and, depending on the national context, they may be subject to taxation whilst being eligible for donations.

SEs help to challenge dominant neoliberal practice and discourse in their quest to provide not only symptomatic support to aid the poor and satisfy basic social needs (i.e. shelter or food), but also systemic support to address individual and social challenges (e.g. they may run social and work integration schemes) (Certo and Miller 2008; Kay, Roy, and Donaldson 2016). Studies also reveal that SEs help to "restore community solidarity" and "develop relational assets in business processes" (Kim and Lim 2017, 1427), hence helping focal actors to create and appropriate social value whilst enhancing social wealth (Mizik and Jacobson 2003). More importantly, they can also deliver environmental value by promoting sustainable, often circular, ways of doing and being (Vickers 2010). This may be possible through their ability to harness positive and negative externalities (e.g. waste) that may be neglected or unrecognized by the government and companies, and may be invisible to the general public (Santos 2012). SEs thus go beyond reproduction of businesses as usual and help to deliver blended value that spans social, environmental and economic dimensions. We position SEs within a diverse CE perspective such that cross-sectoral collaborations occurring at the nexus of the upper and lower circuits of value, enhance (re-)circulation of material and non-material resources through monetary and nonmonetary transactions to render socio-environmental benefits. In short, we focus on SEs as examples of diverse and circular economic spaces in the making.

3. Methods

Informed by critical realist research methods (Sayer 1992), the findings reported here draw on an intensive case study of *heidenspass* - a SE project in the City of Graz in the region of Styria, Austria. The study took place during a visit by the lead author to the University of Graz in November 2019. *Heidenspass* is formally delivered by *Verein Fensterplatz* – an association

founded in 2006 in Graz to offer employment opportunities to unemployed youth. The official Austrian enterprise taxonomy does not specifically distinguish the concept of a social enterprise and instead refers to *Socialwirtschaft* (social economy) or *Socialintegrationsunternehmen* (social integration enterprises) that incorporate legal forms such as associations, public benefit limited liability companies and cooperatives (Anastasiadis, Gspurning, and Lang 2018). Nonetheless *Verein Fensterplatz-Projekt heidenspass* conforms to the broad definition of SE discussed above. SEs are becoming increasingly important players in the Austrian social economy due to growing demographic changes, complex welfare-state reforms and relatively high rates of municipal waste generation per capita at the EU level (Anastasiadis, Gspurning, and Lang 2018; Eurostat 2018). These challenges, coupled with state (national, regional and local) support for SEs, open a window of opportunity for locally embedded SE initiatives such as *heidenspass* to offer not only social work activities and work integration schemes, but also actively and creatively circulate CE practices, ideas and values.

Heidenspass' work activities are performed in distinct spaces, namely a textile workshop, interior design workshop, eatery, two kitchens (one adjacent to heidenspass eatery and an open kitchen) and shop (offline and online). The enterprise adopts the following CE practices: 1) upcycling, including repurposing materials such as reclaimed wood or rubber hoses to make furniture; 2) reuse, such as using second-hand sewing machines and ovens, as well as food surplus from large retailers that would otherwise go to the landfill; 3) maximization of the use of vacant spaces by renting heidenspass premises for its activities and to private companies for events; and 4) repair, which expands the lifespan of heidenspass' homemade products. Cooperation with companies and private customers further enables the enterprise to generate sales income from its services and products. The initiative also receives funds from the province

of Styria, the Municipality of Graz, the Ministry of Labor, Social Affairs, Health and Consumer protection, and the Ministry of Education and Science, the European Social Fund (ESF) and the 'Fund Healthy Austria' ('Fonds Gesundes Österreich'). By recognizing *heidenspass*' broad spectrum of economic spaces and associated work activities, materials, and alliances, this case study thus provided an opportunity to develop and apply-a set of methods for investigating the diverse circuits of value underpinning the local development of the CE in a particular urban setting.

3.1.1 Interviews

A total of 12 interviews were conducted with 13 members of *heidenspass* staff during one week visit to the organization in November 2019: CEO, two members from the core team, three key staff members representing the main kitchen and textile workshop, and seven employees. One interview was additionally conducted with the member of a core team during the scoping visit in May 2019. The interviews lasted approximately 30-80 minutes and were conducted in person. They were organized around the following key areas: 1) *heidenspass* historical background, mission and activities in respective work units, 2) opportunities and challenges associated with existing alliances with alternative and mainstream organizations, 3) *heidenspass* broader regulatory and financial context. The interviews provided a detailed understanding of the functioning of the project in terms of mobilization of human and financial capital as well as material resources. All the interviews were recorded, transcribed and subsequently analyzed adopting thematic analysis approach, which enabled to identify key themes emerging from the study and around which the next section is organized.

3.1.2 Mapping sessions

The interviews were complemented with interactive mapping sessions with heidenspass employees in order to spark their engagement and better identify and map flows of inputs, outputs and value outcomes associated with the performed activities. The sessions incorporated the lens of relational reflexivity, which enabled to reflect "the material arrangements and their social meanings in how collective sense making and action emerges" (Allen 2015, 7-8) in the organization. In order to aid the mapping of use and exchange values attached to flows of labor, materials and money and ensure that the study also captured intangible perceptions of value outcomes across the social, environmental, and economic dimensions of sustainability, the mapping sessions employed the Value Mapping Tool (VMT) developed by Rana et al. (2013). VMT distinguishes four conceptions of value: (1) current value proposition of a company; (2) value destroyed (i.e. negative social or environmental impacts), which may be re-conceptualized as (3) value missed (i.e. under-utilized assets, resources, capabilities, and failure to capture value); and (4) opportunities for new value creation (i.e. new value-generating activities, relationships and network reconfigurations). For simplicity, results from this study recognize three conceptions of value whereby 'value missed' and 'value destroyed' are classified together as value lost. VMT paints a largely enterprise-centric picture as the mapping exercise concerns heidenspass employees' perceptions of value outcomes associated with its activities for 1) young employees, 2) private firms, 3) customers, 4) environment, 5) society, and 6) local authorities. The researcher also collected eight customer service feedback forms from the shop and eatery, and these feedback findings were translated into value outcomes specific to customers and complemented the mapping of different circuits of value.



Image 1. Value Mapping Tool in practice.

Photograph taken by the lead author (2019).

3.1.2 Empirical observations and corroboration

In order to obtain insights into the workplace-customer dynamics, the researcher also conducted empirical observations in the enterprise setting. These observations were video recorded with the aim of providing a better online narrative for the 'offline' impact. Videography additionally enabled (1) corroboration of the results of interviews and mapping sessions and (2) communication of research results to (non-)academic audience in the form of animated graphs.

Consistent with an overarching critical realist approach to the research (Sayer 1992), such triangulation of research methods enabled the researcher to identify causal mechanisms and contingent conditions surrounding the local development of the CE in a particular spatial setting. The requisite institutional ethics approvals for the adopted research methods were obtained prior to undertaking the research.

4. Results and Discussion

Drawing upon the results of the case study of *heidenspass* in Graz, Austria, this section interrogates and further develops the proposed heuristic framework for analyzing the sociomaterial configurations of value underlying local CE development (Figure 2). The framework represents flows of value as ingrained not only into the broader economic system (Granovetter 1985), but also into broader ecological and institutional contexts, which have implications for how CE practices blur the boundaries between the mainstream and alternative economic realms. By untangling and interrogating feedback loops inherent in circuits of value, this section reveals how mainstream and alternative economic spheres in fact co-exist and co-produce values with one another. The results are organized around the following two themes: (1) the interplay of upper and lower circuits of value; and (2) interrogating institutional norms.

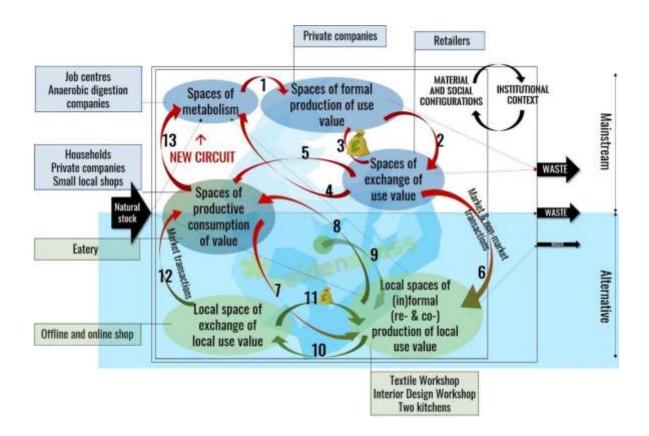


Figure 2. Mapping Circuits of Value in the Social Enterprise-led Local Development of the Circular Economy: the case of *heidenspass*. Author's design after Lee (2013) and <u>Community</u> Economies Collective.

4.1 Circuits of value: untangling feedback loops in the CE

In its everyday transactions, *heidenspass* exemplifies the potential of SEs to represent a new arena of alternative local development praxis within the social and circular economy. This is because SEs adopt novel yet ordinary ways of producing, exchanging and consuming (raw) materials, goods and services whereby circuits of value are co-produced alongside the mainstream economic paradigm. Positioned in the lower part of the economic iceberg model (see green arrows in Figure 2), this particular circular SE project forms *lower circuits of value* that interact with, and are shaped by, the *upper circuits of capital* (Santos 1977). Once the means

of social production, namely, extracted raw materials, labor power and time, are appropriated and exchanged for monetary value (see circuit 1 in Figure 2), stocks of natural capital are then transformed through the use of stocks of human capital (i.e. labor power) into raw material commodities (outputs) in *spaces of formal production of use value*. Any unsold commodities in extra-local *spaces of exchange of use value* where private companies and individual customers execute monetary and digitally-mediated transactions with large retailers (2), may be then transferred to SEs such as *heidenspass* (6).

For example, heidenspass collects unsold food surplus from a large food retailer, which is then transformed into meals in local spaces of (re- & co-)production of use value for consumption by heidenspass staff and customers at heidenspass eatery (see space of productive consumption of value and circuit 8). The enterprise also receives secondary resources that have already undergone several production and consumption cycles (7). They may concern second-hand truck canvas from transportation companies, punctured tyres from bicycle retailers, second-hand furniture from individual donors and charity shops (9), or worn out jackets from private companies, all of which are being (re- & co-) produced into aesthetic goods by heidenspass employees. While some of these items may be transferred to heidenspass via non-monetary transactions (donations) to serve as production inputs, several large private companies send to heidenspass unwanted goods based on the premise that the provided materials will be converted on a business-to-business (B2B) basis into corporate gifts (8). For example, one well-known corporation sent heidenspass worn out jackets and money in exchange for bags for its staff. In this way, heidenspass' work activities revalorize 'waste' and prevent it from being landfilled, incinerated, recycled via global production networks, or in cases of food waste - from being subject to anaerobic digestion, which also generates troublesome waste (13). Such feedback loops across mainstream and alternative realms raise, however, a range of environmental, social and ethical value considerations, which we now examine.

4.1.1 Environmental considerations

To begin with, many of the materials used by heidenspass have already circulated through Global Production Networks (GPNs). GPNs occupy transnational space and constitute "the nexus of interconnected functions, operations and transactions through which a specific product or service is produced, distributed and consumed" (Coe, Dicken, and Hess 2008, 272). Heidenspass' inputs thus incorporate already-embedded complex social and material values and social relations that went into their production and distribution network, many of which are difficult to trace. For instance, observations conducted in the textile workshop revealed that some of the textiles received from private companies (6), or charity shops and individual donors (9), were manufactured in China. Many of the second-hand materials used in *heidenspass* already carry a negative carbon footprint as a result of circulating across extra-local spaces of production, exchange and consumption. Some may include raw materials that were extracted without regard for the natural environment, thus contributing to its irreversible modification and revealing how capital may subsume nature (1) (Hudson 2005).

With regard to the environmental benefits of spatial proximity, *heidenspass*' spaces of production (kitchen and textile workshop), exchange and consumption (shop with adjacent eatery) are co-located in the same rented premise. The interior design workshop is located within a relatively short journey by public city transport from the retail shop. The notion of spatial proximity does not, however, capture online sales of *heidenspass* goods to individual customers or private (B2B) clients outside Graz and Austria, who are an important source of income for the

enterprise. In a similar fashion, B2B partners and donors of second-hand materials are not always located in Graz. All these aspects not only have implications for the environmental footprint of the final product, but also for the development of a sustainable CE, which, according to Stahel (2013) occurs when all production inputs are sourced, produced and consumed locally.

4.1.2 Circuits of value surrounding labor

The question of labor needs to be at the forefront of discussions of circuits of value in a diverse economy (Gibson-Graham 2006; Jonas 2010). This is because it is important to recognize the full diversity of labor relations and conditions, including notions of gender and identity, which underpin ethical negotiations of economic development trajectories (McKinnon 2020). For example, the materials that *heidenspass* employees work with may already embody low labor costs, which neither compensate for potentially precarious working conditions nor unfair remuneration - issues that are often signaled in the context of low income countries of the Global South (Wright 2006). As Campana, Chatzidakis, and Laamanen (2017) mentioned: "the mainstream economy is typically conceived to extract value from local communities, (...) and lead[s] to crises and social stratification" (125). It is therefore necessary to explore the conditions of labor and associated circuits of value "through which material economic life is performed and reproduced" (Jonas 2010,15), and which go beyond ascribing value to a commodity based on the time and amount of work spent on producing it (Lee 1993).

Crucially, low labor costs may translate into decreased exchange value (i.e. price) of produced goods (2). This has implications for the development of such B2B CE initiatives, and hence (local) value creation. An interview with the CEO of *heidenspass* demonstrated that some of the private companies (clients) are unwilling to purchase *heidenspass* bags as they are deemed too

expensive when compared to similar products tailored in lower income countries. Besides, junior heidenspass employees usually work at low wages on a part-time basis, yet the prices of the final, high-quality goods they produce are high. This may deter western consumers with a lower income elasticity, notwithstanding their growing social and environmental awareness. A question then follows as to whether the labor of employees in such SEs is subject to some kind of exploitation, especially given that the utilization of mainstream 'waste' and second-hand items effectively lowers production costs. The findings nonetheless reveal that financial gains, which are small, are not the primary reason employees join the project. Many of them simply seek to improve their CV and language skills, and become better integrated into the host society. Crucially, the enterprise ethically reinvests any profits from sales into its social and environmental mission, keeping them within localized circuits of value (11). Albeit, there remain 'leakages' into the 'mainstream' in the form of taxes or occasional purchases of new inputs (e.g. zippers for bags).

Interviews with heidenspass employees reveal that their work environment encourages them to express their creativity and gain transferable skills, which may be applied in the mainstream labor market, and hence wider circuits of value. This is because junior employees display high degrees of trust in managers who co-design circuits of knowledge exchange in a flexible, relaxing, experiential, ethical and collective work environment where there is a 'family-like' feeling. As one of the junior staff managers stated: "We learn through experience. We make things happen even if it seems challenging. If something is not working, we readjust it" (Interview, November 2019).

Contrary to Holmes (2018) and Schor et al.'s (2016) work on *circular* alternative economic spaces, our empirical findings do not reveal any gender inequality or imbalance with the

exception of the wood workshop where women constituted a minority. There are, however, other aspects of work activities at *heidenspass* that may represent uneven dynamics at the micro level. For example, some junior employees may be, under exceptional circumstances, employed for longer periods of time than 6 months, and do longer and more frequent shifts, thus preventing others from entering the scheme. This further indicates that *heidenspass* employees may have strong attachment to workplace and/or struggle to attend full-time education or access other work placements.

Concerning labor's social reproduction (Jonas 2010), to some, the use of unsold food surplus as cooking ingredients for meals for *heidenspass* employees may constitute 'bad food for poor people' (Holmes 2018, 145). Such a notion is, nonetheless, challenged by the fact that those meals are also sold at a regular price in *heidenspass* eatery. The findings reveal that the customers who are aware of the fact that the served food comprises 'unsold surplus ingredients' from retailers do not question the quality of the food; instead the idea of using food surplus appeals to their environmental conscience. Following Warde's (1992) notion of *identity-value*, which is associated with spaces of consumption and is not adequately captured in orthodox economics, it could be that *heidenspass* customers find new ways of enhancing their identity (e.g. environmental identity) by 'consuming' *heidenspass*' meals or items such as unique accessories. This is especially the case given that *heidenspass* accessories can be tailored according to individual desires. *Identity-value* can be also manifested in spaces of production. By cooking national dishes, e.g. Afghan cuisine, employees can express/enhance their national identity.

Moreover, the example of cooking and food sharing sessions with employees, local authorities and clients (B2B) in the open kitchen wherein food acts as a social glue, illustrates how the formation of strong and trust-based horizontal working relations spans upper and lower circuits

of value. *Heidenspass*' spaces of production and consumption are hence characterized by strong intra- and inter-organizational "relational assets, which embody social capital" (Kim and Lim 2017, 1427). They are sites for "practicing new social relations and new political, environmental and economic subjectivities" (Davies and Evans 2019, 157). Food sharing and collective cooking also challenge the traditional Marxist notion of producing solely for the sake of consumption or reproduction of labor power (Warde 1992). While the workers producing purely capitalist goods in the mainstream spaces of production may also have good relations with colleagues, heidenspass' primary mission is to help disadvantaged young individuals benefit from the social integration and work scheme.

Overall, *heidenspass* has had to make a trade-off between remaining faithful to their core mission of socially and personally (rather than strictly financially) empowering many young individuals; and growing in size to increase volume of B2B transactions, accumulate more capital and increase wages whilst possibly producing cheaper goods of lower quality, for profit, and on a mass scale (3 & 4). The latter case suggests that the enterprise would additionally have to cease to rely on the state support, which currently constitutes the major part of its available capital, thus providing a *life sustaining value* (Lee 2006).

4.1.3 B2B transactions: Genuine impact or window dressing?

The interaction of upper circuits of value with lower circuits of value in the case of *heidenspass* also raises important ethical questions with regards to the performance of the CE as *window dressing* by private companies involved in B2B transactions or when donating food surplus. Window dressing refers to a strategy, often near the quarter end, whereby company managers use mutual funds to boost their corporate social responsibility (CSR) and firm's reputation in the

face of many reputational pressures to green their corporate image (Lin 2010; O'Neal 2001). For instance, by transforming 'waste' from private companies, or in other words, by-products of the main production cycle, into upcycled goods, the SE project enables private companies to capitalize their CSR, aligning it with *heidenspass*' social and environmental mission whilst lowering their waste management fees. In a similar fashion, Holmes (2018) noted that alternative circular economic spaces accepting mainstream 'waste' can be perceived as 'a free solution to the waste problems of the capitalist [food] industry'.

While it may seem like a win-win transaction whereby each transacting party obtains a value specific to their motives, it is, however, important to acknowledge that B2B and similar exchange agreements may, in reality, indirectly perpetuate deeper structural problems underlying contemporary economic systems. First, following the European Waste Hierarchy (EWH) pyramid, it is important that companies prioritize waste prevention above reuse, recycling, recovery and ultimately landfill in order to significantly minimize their negative environmental externalities (Hultman and Corvellec 2012). While *heidenspass*' B2B partners may be already adopting some internal waste prevention strategies at the company level, by sending no longer in use materials to *heidenspass*, they do not prevent waste generation and overexploitation of natural resources. Besides, upcycled products such as bags are likely to be landfilled or incinerated at some point during their lifetime as they are made out of non-biodegradable materials (unlike compostable wood or food waste). This further suggests that *upcycling* is not inherently circular unless it involves biodegradable inputs (e.g. newspapers for collages).

Second, by simply acknowledging social and environmental benefits of B2B partnerships, private companies are not likely to be profoundly challenged and rethink their ties to global commodity/value chains and exploitative labor relations (Phillips and Sakamoto 2012). Even

though SEs help to create demand for alternative markets offering circular products, these markets currently do not seem to be sufficiently developed to significantly impact the way large capitalist companies act. On top of that, corporations intend to appeal to more investors by boosting their image through B2B partnerships. By enabling SEs to repurpose their waste, they hence (in)directly make profits, which may prompt them to exchange even more waste into corporate gifts or procure new goods from the upper circuits. It is hence important to question as to what extent materials circuits in such circular economies are moral (Gregson et al. 2015).

4.2 Interrogating institutional arrangements underpinning circuits of value in the CE

Table 1 brings together some of the key results of our analysis of circuits of value associated with *heidenspass*, and represents (use) value captured, lost, or potentially captured in relation to respective economic units. This table forms a basis for interrogating the role of underlying institutional norms (public, private and social) in directing (re)circulation of value in the local development of the CE.

Economic unit	Use value captured	Use value lost	Use value opportunity

	ECONOMIC	SOC-EC	<u>LINKING-</u>
	Financial capital	Reinvestment of	REPUTATION
	accumulation	surplus capital to	AL-
		support social	ECONOMIC
		mission is not	Partnerships with
Spaces of formal		always prioritized	SEs to reinvest
production			surplus capital
,		SOC-ENV	and improve
		Goods may be	corporate image
		produced under	via social
		challenging work	procurement &
		conditions	B2B
	REPUTATIONA	SOC-ENV-EC	<u>LINKING-</u>
	<u>L-SOC-ENV-EC</u>	Not all clients are	SOC-ENV-EC
	Improved socio-	located in close	Partnerships with
	environmental	proximity to	SEs to
Maintenance	image of	heidenspass	donate/exchange
Mainstream spaces of exchange	mainstream	premises	(B2B) obsolete
	companies by		materials for
	donating surplus		revalorization
	materials and/or		
	exchanging them		

	(B2B); lower		
	waste management		
	fees		
heidenspass	SOCIAL	ECONOMIC	<u>LINKING</u>
neidenspass	Social welfare	Short-term contracts	Lack of formal
Alternative spaces of	support services	(up to 6 months)	contracts with
(in)formal	by providing low-	that offer up to 4h	mainstream
(re- & co-)	threshold	& 3 days of work	companies (more
production	employment to	per week	flexibility)
9.	disadvantaged		
	youth	1-year funding	SOC-PER-EC-
		contracts subject to	ENV
Dhoto aronh hy tho	Timproved well-	renewals &	Training and
Photograph by the	being	negotiations	counselling in
lead author (2019)		Competition for	climate change,
	Reduced urban	material resources	drug prevention,
	crime rates	with other similar	sports
		enterprises	
No. of the last of	ECONOMIC		PER-EC
Photograph by the	Reduced rates of	SOC-EC	Partnerships with
lead author (2019)	production of	Strong attachment	mainstream
	landfilled food,	to workplace does	companies to
		not motivate them	progress young

	employees'
products jobs ca	areers
PERSONAL Cuisines	Growing
	. • . •
New social, dominate co	competition
language, motor,	nduces necessity
	1:00
Photograph by the creative, tailoring, SOCIAL to	o differentiate
joinery & cooking Mability to hire p	products
lead author (2019) skills refugees	
skills refugees	
<u>S</u>	SOCIAL
Flexible work SOC-EC A	A high employee
schedules Limited marketing to	urnover rate
10000000000000000000000000000000000000	
ENV-SOC-PER- ENVIRON.	neidenspass
LINKING-EC Some collages a	ppreciates
	11
Photograph by the Environmental incorporate plastic cu	eustomer
lead author (2019) awareness-raising fe	eedback
work activities, <u>SOC-EC</u>	
DIY workshops & Production inputs <u>L</u>	LINKING
The section of the se	
cooking sessions may embed	Growing trends
negative social &	mong
	companies to
Chynomichai	ompanies to
ENV-SOC footprint in	mprove their

	Proximity of		corporate image
	spaces of		by partnering
	production to		with SEs
	spaces of		
	consumption		Ability to
			negotiate
	<u>ENVIRONMEN</u>		distribution of
	TAL		funds with local
	Only vegetarian		authorities
	and vegan meals		
	are offered		ENVIRON.
			Changing
	Rented premises		directives on
			plastic use
	SOC-ENV	ENVIRONMENT	SOC-EC
*heidenspass	Revenue from	<u>AL</u>	heidenspass
Alternative spaces of	sales is reinvested	International sales;	encourages
exchange	into socio-	not all clients are in	customer
· · · · · · · · · · · · · · · · · · ·	environmental	close spatial	feedback
	mission	proximity to	
A LES		heidenspass	
	Rented premises	<u>ECONOMIC</u>	
		Expensive products	
	<u> </u>	<u> </u>	

Photograph by the	SOCIAL		
lead author (2019)	Community events		
	₹		
	AESTHETIC/		
	T IDENTITY		
	Aesthetic goods		
	EC-LINKING	SOC-ENV	ECONOMIC
heidenspass	Lunches are	The project is not	Crowdfunding
	provided for	sufficient to	campaigns to
Alternative spaces of	customers	significantly	support socio-
productive		challenge throw-	environmental
consumption	<u>ECONOMIC</u>	away culture	mission
	Eatery and shop	(possibility of	
	are merged	rebound effect)	<u>LINKING</u>
			heidenspass
		ECONOMIC	membership to
Photograph by the		Only lunches are	join various
lead author (2019)		provided	community
		₹	activities
Spaces of	<u>ENVIRONMEN</u>		
_	TAL	EC-ENV	
metabolism			

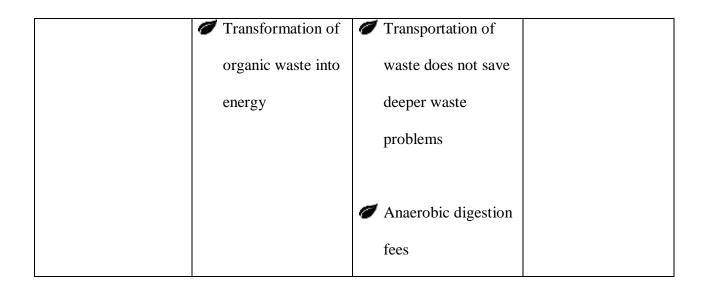


Table 1. Diverse multi-stakeholder value outcomes across spaces of value creation, capture and loss associated with *heidenspass*.

Legend representing key actors who are directly impacted by respective value outcomes:



As an evidence of the potential of SEs to foster the local CE development, *heidenspass* contributes to *local* economic value creation through strategic and mutually beneficial partnerships with public, private and social sector organizations. These organizations exhibit varying degrees of power to manipulate transactions and operational processes across respective economic units through diverse institutional norms, regulations and governance mechanisms. Respective institutional logics may in turn facilitate or constrain the expansion of circuits of value in the CE and their supporting institutional norms (e.g. those conjoining economic, reputational and/or environmental value). Understanding the broader institutional context in

which SEs operate, and which shapes socio-political relations, is hence important when exploring transition pathways toward a more localized and socially inclusive CE.

Following Fuller and Jonas (2003), the case study can be classified as an 'alternative-additional' enterprise, one which is complementary to, and reliant upon, flows and outputs in the mainstream economy. The social work aspect of heidenspass mission and organization's high dependence on public funds, which amount up to 70% of the enterprise's total financial resources, means that it does, to some extent, complement (if not substitute) mainstream social welfare delivery structures, especially those the public sector fails to provide. Such high reliance of heidenspass on external agents for funds, however, may constrain its institutional autonomy, and hence capacity to determine its own strategic direction and structure circuits of value accordingly. For instance, the interviews revealed that public funds have been invested in a top-down pilot sports project that deviates from heidenspass' upcycling mission. In line with Cleaver (2016, 17) who noted that, "[w]e seem unlikely to transcend politics - understood as the confrontation and negotiation of differences" when investigating the diversity of economic forms, annual negotiations with public authorities determine heidenspass' availability of funds, and hence its activities. As heidenspass' project manager mentioned: "Governmental players are changing so fast and the public funding is always very tricky because it depends on the current political situation. The Austrian political situation is not too good for innovative social projects like heidenspass. Our field of work is going in a different direction. It is hard to be true to our concept with which we have a very good experience and we know it works" (Interview, November 2019). Moreover, the project currently receives many employees via a Youth Coaching organization, which depends on public funds. This has implications for mixed levels of personal work motivation: "In former times it was 80% of youngsters showing up and 20% were coming

through Jugendcoaching" (Interview with heidenspass manager, November 2019). Such public-social dynamics reflect the dependence of SEs more generally upon the state and thus confirms a tendency in the literature to depict the social economy as a form of social-welfare capitalism (Amin, Cameron, and Hudson 2003). However, such a portrayal that focuses primarily on the social mission can conceal environmental, aesthetic and creative value associated with CE practices. As the CEO of the SE in this study mentioned: "it is very important for the young people to see that it is not just the money from the government but it is also the money that they help to make because the product is very cool and interesting. Our clients don't buy things because we are a social project but because they are very nice and have environmental value" (Interview, November 2019). Crucially, the fact that such sales are underpinned by digital transactions, only further denotes interactions of local circuits of value with mainstream, global financial institutions via upper circuits of capital, and hence heidenspass' subordination to the 'laws of the market'.

The transactional context shaping relations between *heidenspass* and private sector organizations is likewise noteworthy. B2B transactions are subject to negotiations and are underpinned by verbal agreements rather than formal written contracts. The semi-formal character of B2B transactions allows the SE to circumvent formal bureaucratic contracting processes (hence adding economic value), yet it involves dependence upon relatively high degrees of trust between transacting parties (cf. Granovetter, 1985). When asked as to whether contracts with private companies would be useful, the social project manager at *heidenspass* admitted that "Sometimes contracts make things more complicated" (Interview, November 2019). CEO of *heidenspass* also mentioned that "It is very important to have personal contact with firms. People who know me trust me as I have a good reputation" (Interview, November 2019). Despite high social

legitimacy, SEs do not significantly challenge the value proposition of large international corporations and, instead, add community and public benefits into their existing business models. By spending their accumulated surplus capital on 'ethical goods', private clients often provide only a temporal 'spatial fix' of their capital (Aoyama, Murphy, and Hanson 2011). It can be therefore argued that the localized nature of B2B transactions tends to perpetuate patterns of uneven development resulting from sedimented economic practices in place, which often fail to establish a bridge between the local development of the CE and its capacity to establish connections between production, circulation and environmental value at larger spatial scales. As Bornstein (2007, 14) noted, "Relatively few social entrepreneurs have achieved the levels of scale needed to excite state- and nation-level policy makers". Nonetheless, SEs collectively have a significant potential to contribute to national and international policy and practice evolving around the CE.

5. Conclusions

By mapping circuits of value (Lee et al. 2004) and outlining a heuristic framework that positions social enterprises (SEs) as agents of local development, this paper makes a novel contribution to the existing economic development discourses and practices surrounding circular economies (CE). By way of conclusion, we highlight five findings and identify some questions for further research.

First, through the lens of circuits of value we have offered a novel heuristic tool for investigating how SEs involved in the CE, such as *heidenspass*, operate at the nexus of the upper and lower circuits of value, where extra-local and local social relations and transactions conducive to CE intersect. In doing so, the paper has added to the literature on how collective actions enacted by

SEs help to diversify local economic development trajectories (Montgomery, Dacin, and Dacin 2012). Crucially, it has interrogated the role of the SE in constructing alternative circular narratives, tacit knowledge and other values in their systemic pursuit of 'beyond capitalist' value co-creation with the mainstream. Through its multi-level, cross-sectoral and extra-local relations, heidenspass demonstrates the resources, capabilities and low-tech tools necessary for extracting value from secondary resources whilst fostering community spirit and creating new, inclusive and diverse (circular) economic opportunities for the disadvantaged.

Secondly, and most importantly, the adoption of circuits of value enabled us to excavate some key tensions and contradictions in relation to (re-)production, (re)circulation, exchange and consumption of products and services in the CE. By uncovering feedback loops inherent in circuits of value in the context of the particular SE, it cross-examined the implications of the movement and transformation of diverse notions and conceptions of value in terms of its extraction, expansion and (re)circulation via (non-)market mechanisms operating across coexisting alternative and mainstream spaces of exchange, production and consumption. The proposed framework has thus covered a gap in the CE literature by revealing mechanisms and processes linked to outcomes of value co-creation within multi-stakeholder systems, and the impacts of institutional structures on organizations engaged in the circulation and co-creation of value (Kohtamäki and Rajala 2016).

While *heidenspass*' socio-material configurations and activities result in many socioenvironmental benefits, especially with regards to its systemic support for young people through the work integration scheme (Table 1), the SE's broader contribution to the development of a local and socially inclusive CE remains questionable. This is because many of its production inputs embody complex, and often exploitative (of labor and nature) social and material conditions of global production. By internalizing wider societal tensions in capitalism, such SEs may, in fact, indirectly and unwittingly help to perpetuate a range of inequalities and environmental problems whilst at the same time attempting to become more circular and financially independent (e.g. from state support). Not only are heidenspass' commodities expensive, and hence affordable only to certain groups of customers, but they also depend upon global market transactions and are consumed both locally and globally. Such spatially differentiated economic activities have implications for the development of a genuine CE, which occurs when all production inputs are sourced and produced locally and ethically, and commodities are exchanged and consumed locally (Stahel 2013). Metaphorically framed as mini-cogs of circuits of value, SEs in fact operate within the larger cogs of expansionary circuits of capital. In line with Lee's (2011) analysis of circuits of value, our contribution suggests that SE-driven local economic development is little more than the joining of some parts of circuits of value in such a fashion that they enhance local *circular* economic activity rather than stimulate local economic development in a broad sense. There is, therefore, a need to formulate policies for local CE development that are sensitive to the wider territorial contexts and institutional constraints within which SEs operate.

Third, as global corporations seek to boost their image and attract more investors through B2B partnerships with SEs and/or social procurement, it is debatable to what extent, if at all, such practices prompt them to rethink their linear production logics and adopt CE practices. It remains dubious whether the socio-environmental benefits offered by SEs such as *heidenspass* outweigh the negative social and environmental externalities embodied in *heidenspass*' inputs of non-local, capitalist origin. The formation of cross-realm circuits of value neither significantly challenge the status quo nor address deeper issues that underlie mainstream economic logic,

including the problem of overconsumption and demand for cheap products. Such alternative material circuits of value tend to, instead, rather only superficially consolidate what the mainstream circuits tend to disintegrate (i.e. humans and environments made disposable) and what, in fact, underpins their sole existence. In this respect, the debate about the social and environmental benefits of the CE can learn much from examining the contribution of SEs from the perspective of a diverse economy.

Fourth, the study invites further research on SEs operating in different spatial contexts for local CE development. For example, SEs operating in the CE in other contexts being investigated in this research (e.g. UK and Chile) may generate income solely from selling donated items such as food or textile products (Lekan et al. 2020; Holmes 2018). In these contexts, profits may be reinvested into social missions not only locally, but also nationally and globally through expansionary circuits of capital especially in cases where SEs belong to social franchise networks. What these circular SEs have in common though is utilization of 'waste' as a means of providing ('use-value') for those in need, be it directly (i.e. in the form of socially necessary resources such as food or clothes), or indirectly (i.e. by using it as an input for the production of luxury goods whilst creating socially necessary employment opportunities). As the CE concept continues to attract political attention, SEs are very likely to be increasingly leveraged as a tool and an 'object of policy and politics' (Gibson-Graham 2008, 620) to deliver public services whilst navigating us toward a bottom-up CE transition (European Commission 2016). This paper has hence identified several salient points that different stakeholders, including policy makers, investors, (social) entrepreneurs, economic geographers and urban planners, need to be aware of when seeking to diversify local economic development trajectories and unleash the full potential for circularity in SEs.

Finally, future research on the CE could benefit from a more participatory approach that could involve multi-stakeholder perceptions and negotiations of value among actors such as local authorities and private companies, who have different value priorities, yet hold the power to shape flows of value across spaces of production, exchange and consumption (cf. Farrelly, Kildunne, and Deutz 2020; Mendoza and Prahbu 2009). This would ideally call for more transformational societal and institutional changes to ensure that biophysical resources and human labor are not just (re-)circulated but also valued. In this way, SEs could also become more than just "a drop of water on the arid soil of the capitalist desert" (Löwy 2015, 42).

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