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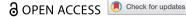
Cristiana Zara , Benjamin Coles , Sophie Hadfield-Hill , John Horton & Peter Kraftl

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Geographies of food beyond food: transfiguring nexus-thinking through encounters with young people in Brazil

Cristiana Zara na, Benjamin Coles nb, Sophie Hadfield-Hill na, John Horton nc and Peter Kraftl

^aSchool of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham, UK; Department of Geography, University of Leicester, Leicester, UK; Centre for Children and Youth, University of Northampton, Northampton, UK

ABSTRACT

Engaging contemporary forms of nexus-thinking with interdisciplinary food scholarship and childhood and youth studies, this paper explores the social, cultural and political implications of young people's entangled connections with - and beyond - food. The paper draws on a large-scale research project investigating young Brazilians' relationships with and understandings of the water-energy-food nexus. Based upon ethnographic, mixedmethods research, we attend to young people's everyday, material experiences of water-energy-food, and call for a transfigured nexusthinking, alive with the lives, cares, relationalities and politics at the heart of 'the nexus'. Through examples ranging from participants' routines, rhythms and mobilities to experiences of food insecurity, we show how young people express a range of social-political sensibilities that articulate with food and expand nexus-thinking in several interconnected ways. First, by exposing the multi-scalar and multi-temporal processes underlying their everyday 'nexuses'. Second, by destabilizing the water-energy-food nexus to include ever-new elements emerging from lived experiences of resource access. Third, by showing the embeddedness of resources in the cultures, politics and social fabric of communities. Fourth by uncovering the workings of social difference in articulating nexus dis/ connections. It is through these encounters with youths in Brazil that we propose a (re)politicisation and critical transfiguration of nexus thinking.

Les géographies de l'alimentation au-delà de l'alimentation: transfigurer l'approche nexus au travers de rencontres avec des jeunes au Brésil

Combinant les formes contemporaines d'approches nexus avec la recherche interdisciplinaire sur l'alimentation et les études sur l'enfance et la jeunesse, cette communication explore les implications sociales, culturelles et politiques des liens compliqués des jeunes

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CONTACT Cristiana Zara 🔯 c.zara@bham.ac.uk 🔁 School of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham B15 2TT, UK

avec l'alimentation et au-delà de celle-ci. Elle s'appuie sur un proiet de recherche de grande envergure qui examine les relations des jeunes Brésiliens avec le nexus eau-énergie-alimentation et la façon dont ils l'appréhendent. En nous appuvant sur des méthodes de recherche ethnographique mixtes, nous suivons les expériences concrètes quotidiennes de ces jeunes avec l'eau-énergiealimentation, et revendiguons une approche nexus transfigurée. animée par les vies, les préoccupations, les relations et les politiques au cœur du « nexus ». Au travers d'exemples allant de la vie quotidienne des participants, leurs rythmes et leurs mouvements, aux expériences d'insécurité alimentaire, nous démontrons comment ces jeunes expriment une gamme de sentiments sociopolitiques qui s'articulent avec l'alimentation et agrandissent l'apnexus de multiples façons interdépendantes. Premièrement, en exposant les processus multiscalaires et multitemporels à la base de leurs « nexus » quotidiens. Deuxièmement, en déstabilisant le nexus eau-énergie-alimentation pour inclure de nouveaux éléments émergeant de leurs vécus de l'accès aux ressources. Troisièmement, en montrant l'intrication des ressources dans la culture, la politique et la fabrique sociale des communautés. Quatrièmement, en révélant les rouages des différences sociales par la formulation des liens et des séparations avec le nexus. C'est au travers de ces rencontres avec ces jeunes au Brésil que nous proposons une (nouvelle) politisation et une transfiguration critique de l'approche nexus.

Geografías de la comida, más allá de la comida: transfigurando el pensamiento nexo a través de encuentros con jóvenes en Brasil

Al involucrar formas contemporáneas de pensamiento de nexo con estudios interdisciplinarios sobre alimentación y estudios de la infancia y la juventud, este artículo explora las implicaciones sociales, culturales y políticas de las conexiones entrelazadas de los jóvenes con, y más allá de, la comida. El documento se basa en un proyecto de investigación a gran escala que investiga las relaciones y la comprensión de los jóvenes brasileños con respecto al nexo agua-energía-alimentos. Con base en investigaciones etnográficas y de métodos mixtos, atendemos las experiencias cotidianas y materiales de los jóvenes sobre el agua, la energía y los alimentos, y pedimos un pensamiento de nexo transfigurado, vivo con las vidas, los cuidados, las relaciones y la política en el corazón 'del nexo'. A través de ejemplos que van desde las rutinas, los ritmos y la movilidad de los participantes hasta las experiencias de inseguridad alimentaria, mostramos cómo los jóvenes expresan una variedad de sensibilidades sociopolíticas que se articulan con los alimentos y expanden el pensamiento de nexo de varias maneras interconectadas. Primero, exponiendo los procesos multiescalares y multitemporales subvacentes a sus 'nexos' cotidianos. En segundo lugar, al desestabilizar el nexo agua-energía-alimentos para incluir elementos siempre nuevos que emergen de las experiencias vividas de acceso a los recursos. En tercer lugar, al mostrar la integración de los recursos en las culturas, la política y el tejido social de las comunidades. Cuarto, descubriendo el funcionamiento de la diferencia social en la articulación de des/conexiones del nexo.



Es a través de estos encuentros con jóvenes en Brasil que proponemos una (re) politización y una transfiguración crítica del pensamiento de nexo.

Introduction

In a context of global anthropocenic threats to Earth's physical-biological-human systems, the United Nations Sustainable Development Goals provide an important framework for thinking and enacting social-environmental sustainabilities. Among the Goals, water, energy and food figure as fundamental resource sectors to be radically rethought, towards more equitable and sustainable geographies. Researchers, activists, NGOs and policy-makers working in this context have increasingly conceptualized interdependences of water-energy-food (W-E-F), prompting new forms of 'nexus-thinking' (Leck et al., 2015) and nexus-oriented policymaking (Bazilian et al., 2011).

The development of nexus-thinking has been important in affording many notable political-technological achievements in diverse contexts (Food and Agriculture Organisation [FAO], 2014) and constituting interdisciplinary/cross-sector collaborations around contemporary global challenges. Extending critiques of the typically weak theoretical and empirical bases of nexus-thinking (Kraftl et al., 2019), however, in this paper we make three major interventions to develop new forms of nexus-thinking. First, empirically, we highlight the problematic absence of children and young people (and, by extension, other forms of social-geographical difference) from mainstream nexus-thinking. Second, conceptually, we argue that attending to everyday, material and emotional details with/in young people's narratives of water-energy-food requires us to profoundly *rethink nexus-thinking*. Third, we emphasise how, recursively, such revised forms of nexus thinking might better enable analyses of the complex workings of intersecting 'resources' (and especially food) in everyday lives. Thus, the paper's conclusion outlines a set of key considerations for such analyses.

Drawing upon a major, interdisciplinary programme of ethnographic, mixed-methods research with young people in Brazil, we call for a transfigured nexus-thinking, alive with the lives, cares, relationalities and politics at the heart of 'the nexus'. As a starting point for this intervention, we foreground young people's engagements with food (although, as will become clear, these engagements are always already interconnected with waterenergy-politics-mobilities-exclusions-friendships-homes-and-much-else). Our focus on food is in contrast with the way in which, thus far, scholarship on the W-E-F nexus tends to centre water (e.g. Leck et al., 2015), overlooking manifold, everyday ways in which food constitutes and is constituted relationally with/in other nexus components. A central contribution of the paper is, therefore, to use an expanded form of nexusthinking to make linkages between young people's engagements with food and what we term 'food-beyond-food' - how young people express social-political sensibilities that articulate with food. This is a demand for a transfigured nexus-thinking, recognising how the 'W-E-F nexus' looks and feels so substantially different in light of young people's accounts of how food is embedded in, and constitutive of mobilities, rhythms, emotions and inequalities. More broadly, this requires us to argue for, and exemplify, a fuller conversation between nexus-thinking and extant geographical scholarship about food, childhood and youth.

Rethinking nexus-thinking: three major concerns

In this section, our call to rethink nexus-thinking is developed through three arguments. First, we call for greater attention to nascent critical (re)theorisations of the 'water-energy-food nexus', which we seek to develop in this paper. Second, we question the often-limited engagement between nexus-thinking and multidisciplinary food studies, arguing that longerstanding theorisations of embodied, interconnected geographies of food suggest some important lacunae within much nexus-thinking. Third, drawing upon multidisciplinary studies of children and young people's food practices, we problematize the limited attention to childhood and youth within most nexus-thinking.

Expanding the 'water-energy-food' nexus

Over the past decade, international academic and policy discourses around sustainable development have focused increasingly upon resource interdependence (Allouche et al., 2015). Amongst an array of languages for describing and analysing the relational constitution of resources – their flows, materialities and entangled threats – forms of 'nexusthinking' have gained considerable traction (Leck et al., 2015). Nexus-thinking and nexuspolicymaking purportedly offer forms of analysis and intervention that overcome silo-ing of resources, by delineating complex interdependencies, feedbacks and trade-offs that occur between sectors (Bazilian et al., 2011; Hoff, 2011). Born of rising concerns for global environmental change, such an approach affords an integrated view of social and natural processes involved in earth system changes, thus challenging the scope and disciplinary boundaries of social and natural sciences (Leck et al., 2015). Fostering a development perspective based on knowledge integration, interdisciplinary dialogue and cross-sectoral governance, the nexus approach contributes to innovative framings of the social and ecological as interconnected, multiscale socio-ecological systems. Calls for interdisciplinary research and integrated resource management are nothing new in development debates, particularly in geography (Rees, 2015). Nonetheless, nexus advocates see in the nexus a renovated tool for expanding system thinking, which is key to tackling global challenges, calling for greater research and policy attention to the interlinkages across resource insecurities at various scales (Leck et al., 2015). Following the adoption of nexus approaches by international organisations (e.g. FAO, 2014; World Economic Forum, 2011), nexus-thinking has become increasingly mainstreamed in sustainable development contexts - including Brazil (Mercure et al., 2019).

The water-energy-food nexus has come to dominate nexus-thinking in both academic and policy circles. Work mobilising this concept has led to advances in interdisciplinary resource modelling, with important attempts to combine (for instance) engineering and social-scientific methodologies (e.g. Bazilian et al., 2011). Moreover, it has offered scholars another language for witnessing the complexity and intractability of sustainable development challenges. Thus nexus-thinking has become an important point of articulation for a wide range of large-scale (sometimes global, sometimes national, sometimes city-scale) analyses of entangled challenges (Allouche et al., 2015).

However, nexus-thinking has latterly been subject to inter-related critiques: that it promotes a problematically technocentric, anthropocentric approach to sustainability (Cairns & Krzywoszynska, 2016); that it is commonly focused upon large-scale, 'topdown' analyses (and interventions) that efface details of everyday, community and household lives (Leck et al., 2015); that, consequently, it ignores gendered, aged, and other social differences (Foden et al., 2019); that – via its imposition by (inter)national agencies, often originating in the Minority Global North - nexus-thinking and policy-making is underscored by a questionable politics that has been left largely unscrutinized (Schwanen, 2018); and, thus, that nexus-'thinking' is, ironically, often theoretically vacuous (Leck et al., 2015). Importantly, Allouche et al. (2015) point out that the ostensibly neutraltechnocentrism of nexus-thinking 'masks a bigger debate, which lies around resource inequality and access that contribute to social instability' (p. 622), thus calling upon the nexus to be framed around the politics of resource insecurities rather than on their technical solution. As a result, a range of critical approaches has emerged, which attempt to theorize nexuses with, alongside and against other modes of relational thinking (e.g. assemblage, ANT and topology) (Müller & Schurr, 2016; Schwanen, 2018), and by adopting a critical political economy perspective (Allouche et al., 2015). For instance, Schwanen (2018) suggests that 'slow' modes of interdisciplinary collaboration provide opportunities for geographers to (re)theorize the articulation of sustainability transitions with/through greater attention to power relations inherent in experiences and governance of W-E-F sectors. Likewise, notions of resource nexus have also been productively engaged with by recent work on infrastructure geographies, particularly in relation to urban sustainability. This scholarship interrogates questions of scale (Williams et al., 2019), vulnerability (Browne et al., 2018) and intersectoral infrastructure integration, from the city (Monstadt & Coutard, 2019) to the household (Rohracher & Köhler, 2019) and the rural-urban fringe (Browne et al., 2018), in the light of a 'politicised nexus thinking' (Moss & Hüesker, 2019) which calls for a critical rethinking of the urban nexus' politics and spatialities in processes of infrastructural and urban change.

Extending these emergent critiques in several ways, this paper focuses on everyday experiences of the water-energy-food nexus to provide one of the first empiricallygrounded, ethnographic studies of the W-E-F nexus (Kraftl et al., 2019; Leck et al., 2015). As a result, it starts from (but does not necessarily end up at) a smaller geographical scale, affording a different sense of the nexus as configured by/from materials, bodies and sites of governance, raising questions of identity and social justice orientated towards the national scale (Ansell, 2009). Moreover, it emerges from research undertaken in a Majority Global South context (Brazil) where largely Minority World policy imperatives around nexus-thinking have taken hold in the formulation of recent sustainable development policies. Thus, we seek to develop nexus-thinking, recognising its political purchase and distinctive value, while insisting that it should be radically transfigured to acknowledge everyday details, materialities, socialities and narratives (Horton & Kraftl, 2018). We claim that the concept of nexus provides a useful lens for tracing resource geographies revealing the intersecting scales, socio-materialities and human-environment interactions mobilised in resource use and governance - and related socio-ecological impacts. Additionally, because notions of nexus are already deployed within policy discourses, we suggest that they already highlight particular, politically important configurations of materials and resources. However, a more critical nexus thinking can tease out the

broader social-spatial entanglements that these configurations invariably bring. Moving from the lived experience of resource relationalities, we therefore endeavour to think critically with the nexus to interrogate questions of everyday resource access, (in)security and inequality. Given their prevalence, we argue that there is an urgent need for social scientists to critically engage with the now-widespread formulation of nexus-thinking and radically transform their predominant technocraticality, apoliticality and neutrality through encounters with political, relational, everyday geographies. Specifically, this paper's critical transfiguration of nexus-thinking emerges from our concern at its limited engagement with interdisciplinary food studies and young people's everyday lives.

Engaging nexus-thinking with interdisciplinary food studies

It seems ironic and problematic that theorisations of the W-E-F nexus so rarely acknowledge or engage longstanding interdisciplinary food studies. In this section, we identify two important contributions made by work on geographies of food, which seem to be problematically underexamined in most models of the W-E-F nexus. First, we suggest that most models of the W-E-F nexus could be deepened and extended via engagement with multi-sited ethnographies of interconnected geographies of food. Such accounts are typically concerned with the always-interconnected materialities and unjust ethicopolitics of contemporary food provision (Cook, 2004; Cook & Harrison, 2003), and the ways in which the often-hidden interconnected politics and geographies of food can also be traced through. Notable examples include Mintz's (1985) work on the (post)colonial organisation of the global sugar trade, or theorisations of food networks and politics in terms of enduring postcolonial power relations (Cook & Harrison, 2003), feminist visceral politics (Hayes-Conroy & Hayes-Conroy, 2008), affinitive practices (Coles, 2016), or moral economies (Clarke et al., 2008; Coveney, 2000; Jackson et al., 2009). In addition to underscoring the persistence of unjust food politics, these lines of work highlight the complex plurality of everyday food nexuses that destabilise any neater sense of 'a' or even 'the' water-energy-food nexus (Allouche et al., 2015). However, to date, very few formulations of the W-E-F nexus have engaged these theorisations of politicized interconnectedness.

Second, we are surprised that many versions of the W-E-F nexus say little about everyday food practices and their importance in (re)constituting identities, inclusions and exclusions. This is despite a significant recent wave of studies explicitly theorising everyday practices of/with/around foods (Abbots, 2017; Warde, 2016), as well as longer-standing scholarship foregrounding the important role of food in constituting social lives in diverse contexts (Bell & Valentine, 1997). This major body of work has mapped some of the ways in which everyday food practices are fundamental to identities (Cook & Crang, 1996), not least through their centrality to discourses of national identity and nationalism (Appadurai, 1988; DeSoucey, 2010), their symbolic value as markers of social status (Fielding-Singh, 2017), their mobilisation in material-cultural processes of ethnic and religious identities (Nukaga, 2008) and discourses of place/culture 'authenticity' (Coles & Crang, 2011; DeSoucey, 2010), or their constitution of globalized spatio-temporal phenomena like 'convenience food' (Jackson et al., 2018).

Certainly, nexus-thinking could be productively complicated, deepened and extended via greater engagement with such critical, empirical studies of food (and, perhaps, vice versa). However, we also want to argue that *both* nexus-thinking and food studies might

be radically unsettled – and conceptually transfigured – via greater engagement with the still widely overlooked experiences and narratives of children and young people. This paper has emerged from a sense that work on the materialities, everyday practices, identities and ethico-political sensibilities articulated with/in food are profoundly important to, and challenging for, nexus-thinking. And, it has developed from a sense that within qualitative and ethnographic research with young people such relationalities come to the fore powerfully as a matter of course. As we explore more extensively in the first part of our analysis, these relationalities question and enliven debates about young people's practices and the entanglements of food with/in the purported 'speed' of contemporary life (Jackson et al., 2018; Warde & Yates, 2017). Thus, this paper foregrounds young people's own narratives of eating as constituted relationally through entangled socio-materialities of food. These narratives illuminate the complex webs of matters, resources, spaces, rhythms and movements through which food is constituted, as well as their potential to articulate wider questions of politics and social justice in relation to food security, resource access and sustainability.

Critically, however, this paper illustrates that the complexity highlighted within these same narratives also expose the myriad ways and mechanisms by which many young people are unable to access W-E-F resources and thus become vulnerable to their insecurities. Unpacking the intersections of W-E-F nexus with social difference – particularly the relationships between poverty, social inequality and resource (in)security – brings resource (in)securities to the fore and enables their imbalances to be framed through a 'web of lacks'. Rather than connectivity, this 'web' articulates the disconnections from resources visible within young people's representations of their everyday (non)engagement with water-energy-food. The implication of such a framing is that although W-E-F nexus thinking typically endeavours to highlight complex resource interconnectivities, it also reveals the points at which interconnectivities are broken, or simply nonexistent.

Transfiguring nexus-thinking through encounters with young people

Children and young people are rarely a focal concern, and rarely research participants within nexus-thinking (see also Kraftl et al., 2019). This is especially problematic given the significant array of empirical work from children's geographies and interdisciplinary childhood/youth studies highlighting the importance of food and other 'resources' to young people's everyday lives. In particular, we highlight four key areas of scholarship that could inform – and perhaps transform – nexus-thinking.

First, we suggest that the absence of young people from nexus-thinking overlooks the importance of young people's spatialities of food. A wide range of work in this context has illustrated that young people have very distinctive food practices and constitutive roles in relation to food, spatializing it in unique ways (Punch et al., 2010). For example, recent work has explored children's everyday geographies in/of politics of childhood nutrition (Pike, 2008), obesity (Evans, 2010), school catering (Gibson & Dempsey, 2015), food pedagogies (Pike & Leahy, 2012), and family eating practices (Wills et al., 2008). These studies highlight young people's distinctive positionalities within family practices and power relations, their regulation by age-related institutional and policy contexts, and their disproportionate subjection to multiple forms of deprivation.

Second, work in this context is important in mapping how food practices often enable or delimit social relationships. For example, with a focus on social relations emergent from everyday, habitual eating practices (Wills et al., 2008) and 'formal and informal codes and social mores' (McIntosh et al., 2010, p. 289) we suggest that nexus-thinking could productively engage with work on teenagers' foodscapes. Similarly, ethnographic accounts of young people's power-related food socialities offer empirical bases for rethinking the everyday socialities at the heart of W-E-F nexuses in practice (see for example, Nukaga, 2008).

Third, we highlight the potential value of empirical accounts of diverse forms of 'family' and 'home' in grounding nexus-thinking. A wide range of studies have explored how food is an important nodal point in maintaining, negotiating and 'doing' family-lives (Jackson, 2009; Punch et al., 2010). Across diverse contexts, these highlight the routine food practices that constitute senses of familial identities (Wills et al., 2008), care and belonging (Kohli et al., 2010), gendered domestic labour (Bell & Valentine, 1997), and classed inequalities (Fairbrother & Ellis, 2016; Wills et al., 2008).

Fourth, regarding this latter concern, we suggest that the extensive literature on the regulation and control of children and young people's diets provides important insights about the biopolitical governance of W-E-F nexus sites and processes. For example, an important seam of literature explores the prevalence of normative, panic-laden media/political discourses about children's obesogenic diets and lifestyles in many European and North American contexts (Fairbrother & Ellis, 2016; James et al., 2009), and critiques the resulting interventions that target children's bodies and food practices via dining halls (Pike, 2008), lunchboxes (Metcalfe et al., 2008), mealtime supervisors (Dotson et al., 2015), curricula (Pike & Leahy, 2012), and pedagogies (Cairns, 2017; Welch et al., 2012). Allied work has also explored the perpetuation of anti-obesity anxieties, and individualized, gendered, classed norms of blame, shame and responsibility (Evans, 2010; Gibson & Dempsey, 2015) within intimate domestic and family spaces (Fairbrother & Ellis, 2016). These examples are significant in revealing the pervasive operation of normative discourses and biopolitical governance that are infrastructural in many W-E-F nexus contexts, despite this language and mode of analysis seeming entirely alien to most existing models of nexus-thinking.

The absence of children and young people from formulations of W-E-F nexuses limits the extent to which advocates of nexus-thinking have been able to witness the kinds of everyday spatialities, socialities, politics and discourses (especially of *food*) discussed in this section. In one sense, we suggest that greater engagement with young people's everyday lives – and with existing scholarship regarding them – would begin to address these key lacunae. In another sense, however, over the following sections we suggest that working with young people in Brazil has exposed us to some profoundly disquieting narratives of food which require rethinking nexus-thinking – a *transfigured* nexus approach, as we argue, able to articulate the constitutive embeddedness of W-E-F resources into the socio-materialities of everyday life, and illuminate their social and political implications for achieving equitable and sustainable development.

Research context and methods

The following sections draw on a large-scale, interdisciplinary research project investigating young people's experiences of, participation in, and learning about the W-E-F nexus in

Brazil. The project was based in Brazil's Metropolitan Region of Paraiba do Sul River Basin and São Paulo State North Shore (MRPSRBSSNS). With a population of 2.5million, the region is economically significant (Emplasa, 2015), and socially/geographically diverse, comprising large urban centres, traditional rural, coastal and mountain communities, seasonally-popular tourist destinations, and several national parks and conservation areas. This case study was selected for its strategic position between the extensivelystudied metropoles of São Paulo and Rio de Janeiro, strategically allowing for an analysis of the wider region – and W-E-F interdependencies – connecting the two cities.

Over 30 months, the project team completed a programme of qualitative and quantitative research, 1 engaging with more than 4,000 young people aged 10-24 plus publicand private- sector professionals within water, energy, food and education sectors. The focus on young Brazilians was pivotal. Firstly, it provided important insight into W-E-F nexus experiences in a country where 42% of the population is under the age of 24, and where food, water and energy are strategic development goals in national policy agendas (Emplasa, 2015). Secondly, as noted, this age group is rarely involved as stakeholders in nexus-thinking or policymaking. Thirdly, much existing research on food and childhood focuses empirically on case studies from the Minority Global North, perpetuating Western assumptions about what food is, how/where eating happens, and the normative policy focus on obesity. Fourthly, the research complements – and challenges – predominantly Minority Global North definitions of the nexus with 'bottom-up' perspectives on W-E-F nexus.

Here we focus on one major element of the project: a programme of detailed, qualitative research with 48 10-24-year-olds. Participants were recruited from socially-, culturally- and economically-diverse communities. Young people were invited to participate through education institutions, risk prevention bodies, local environmental associations, grassroots groups, and via snowballing through personal networks. Participants were diverse in terms of age, gender and social background including university, high school and primary school students, and formal/informal workers, living in very diverse settings from wealthy, affluent, consumerist enclaves to informal settlements profoundly exposed to hazards like flooding, drought and energy threats.

The qualitative component, which informs this paper, entailed a sustained process whereby participants were invited to partake in a series of research activities. These included in-depth interviews focusing on 'My life - food-water-energy'; geo-located photography and daily diary collection focusing on experiences of food-water-energy vis-à-vis a specifically designed mobile app; follow-up interviews and discussions prompted by app data and elaborated through a 'visual web' exercise, and finally, a mapping exercise in which W-E-F routines and mobilities were plotted using Google 'My Maps'. These one-to-one activities established trustful, continued relationships through repeated research encounters over a prolonged period, often leading to participants getting increasingly engaged in the research, comfortable in interacting with the researchers and open to sharing experiences. These activities were mostly carried out in participants' living places - homes, schools, hangouts and youth centres - allowing for first-hand observations of the contexts from which their accounts emerged.

Combined, these methods enabled us to collect data on diverse aspects of young people's nexus experiences. Indeed, resonant with the overarching objective of the research, we adopted a nexus approach to the data collection, with the different methods and activities building upon one-other and enabling us to co-construct intersecting data. The co-analyses of data with participants also derived shared definitions for nexus. The resulting data offers both deep insights into young people's lives, and the capacity for them to articulate these insights as part of a variety of narrative-visual-creative registers.

Bringing these diverse data and analysis together, the 'visual web' exercise in particular produced rich visual and textual artefacts. In these, participants were invited to reflect on everyday experiences of dis/connection with food, water and energy and represent them on a large sheet of paper through different modes of expression, including drawing, photos, writing, symbols and post-it notes. Participants' app photos worked as prompts to elaborate upon, and draw, their nexus webs; highlights from the mobility mapping exercise and the first interview were also used. The 'web of lacks' framing that we adopt in the analysis resulted directly from this particular method. Although a loose definition of nexus as water-energy-food dis/connections was initially proposed, as part of these activities participants were free to explore, use, drop or take this idea further, especially in the visual web exercise. Hence, by 'nexus' here we do not mean a single, a priori definition or approach to its analysis, but rather a set of complex dis/inter/connections wrought from the experiences of young people themselves.

Food nexuses in young Brazilians' everyday lives

The analysis in the rest of this paper is presented in two parts. Offering a multi-scalar and multi-temporal analysis of socio-material nexus relations in Brazil we start with young people's articulations of everyday food nexuses (although, as will become evident, their narratives cut across sectors, spaces and scales). We use 'nexus' as a working term to designate the plural ways in which food intersects with other resources, issues and activities. The analysis then considers food relations beyond food to show how multiscalar everyday nexuses matter in our theorisation of the W-E-F nexus. We use boxed empirical examples, juxtaposing images, pseudonymized quotations and anonymized ethnographic observations to focus attention on the complex geographies and interconnections present within any one participant's narrative. These accounts, however, are indicative of findings from the more extensive (qualitative and quantitative) project datasets, offering insightful and thicker glimpses of young people's daily interactions with water-energy-food as emerging through their own narratives and visual representations.

Busyness: routines, mobilities and temporalities of food

The first prominent theme in our analysis is busyness and its intersection(s) with food. Many of our participants' lives are characterized by (often draining) fast-paced rhythmic patterns, associated with the demands of study and work. University students in particular reflect on their busy schedules, exam pressures, commuting routines and the mundane chores associated with independent living. The cases of Adriana and Sonia (Figure 1) illustrate the sheer busyness of such spatio-temporal rhythms.

Gibson and Dempsey (2015) work with children notes that 'children's bodies function as sites of contestation around choice, agency, and the controlling and restriction of such choices' (p. 49). To this, we add time and mobility as key factors in young people's food

Adriana is a twenty-one-year-old female from a lower-middle income background who holds an administrative role in a factory. She commutes each day to her work place, located in a city 15km from her hometown, Guaratinguetá, a middle-size city in MRPSRBSSNS where she lives with her parents and siblings. In the evenings, after work, she attends a college preparatory course for university. Adriana's everyday routine follows a regular pattern: she gets up early in the morning, has breakfast at home, takes the bus to work, eats lunch in the factory canteen, travels back to her home town in the late afternoon, stops at a supermarket to pick up a snack and goes straight into evening school, eating her snack on the move. She explains that her timings and schedule are fast and tight, and sometimes she 'forget[s] to eat'. A sense of busyness, time, as continually being pressed and lacking, was a key element in her daily choices around food, as it proved to be for many other young participants. Adriana links the time-consuming workplace-to-college journey to the impact this has on time to eat: 'the transportation between the factory and the school is time-consuming and with this I have less time to eat'. She makes the decision to eat as she walks in order to maximize her time. In a similar vein, she comments on her restricted mobility during her lunch break. Without a car, she is limited to lunch at the factory, which she finds 'greasy and poorly prepared.' Other participants report that this time-food-transportation 'nexus' (or nexuses) has a profound impact on the choices, routines and quality of food available to them. Sonia, a sixteen-year-old female college student from a middle-income background, likewise reflects on the number of meals she eats per day, commenting that 'about five, but because of the school it may be three or four...it depends...because our schedule is tight so we can't stop to have lunch'. Later, she also refers to being caught up in a demanding school routine and the subsequent impact on food choices, choosing to take fruit to college which she eats when she remembers.

Figure 1. Adriana and Sonia.

choices and consumption. As highlighted earlier, a discourse of young people making 'bad', 'unhealthy' food choices is at the heart of debates about obesity, with the blame lying squarely with individuals (Gibson & Dempsey, 2015). However, our accounts of young people's experiences show how their lives are enveloped in a normative acceptance of *speed*, forcing them to make certain food choices, at particular times, in particular spaces.

Previous research on young people's lives and food tends to focus on the space of the institution, whether it be the school, foster or residential care (Punch et al., 2010). Focusing on young people's lives, in motion, in-between spaces, offers new insights into food related practices, experiences, anxieties and challenges. Bell and Valentine (1997) advocate analyses of food focused on temporal intricacies of 'consumption's role in punctuating or periodising all our lives through repetitive techniques of the body' (p. 4). We add a further dimension, and consider how a perceptible 'speeding-up' of young people's lives impacts consumption, and at the same time, how what is eaten shapes space-times of consumption practices.

Clara's insights into young people, mobilities, time and food choices (Figure 2) further complicate the discourse of 'good and healthy lifestyle choices and behaviour' (Punch et al., 2010, p. 231). Delving deeper into these intersections between food choice(s) and

Clara is a nineteen-year old female college student from a middle-income background; she attends a technical school and a preparatory course for university at the university campus. Clara explains how her fast routines lead her to make unhealthy food choices:

"It's really hard in this kind of canteen [on campus] to have healthy food. Because at lunch we have to eat what is easier for us because of the moment, you know, I am attending a class and I have to go to my home in like 15 minutes, so we have to eat faster so that we can get to our next class, you know. So it's really... no-one cares about healthy [food] at this moment you know, because we have to be fast, our life is really fast when we are students, we have to be in many places... we don't have the time to eat something like a salad we have prepared or these kinds of things...it's easier for us to eat processed food"

Clara's experience illustrates the close connection that many participants experienced between mobilities – 'we have to be in many places' – timings – attending classes, going home in fifteen minutes, going fast - and eating choices - 'easy', ready-made, fast and processed food, no time for 'healthy' salads or the like.

Figure 2. Clara.

mobility reveals that access to transportation and infrastructure is an important factor in shaping relationships to food.

The importance of time in young people's everyday mobilities is well represented in Lina's visual web and associated narrative (Figure 3); a clock sits central to a range of transportation options, which are in turn affected by different weather conditions. The temporalities of food revealed by Lina, and many of our participants, resonate with recent work identifying 'processes of escalation (doing more things) and acceleration (doing things within a shorter time)' (Jackson et al., 2018, p. 10) that are transforming practices of eating, preparing, cooking and shopping for food towards 'convenience' (Jackson et al., 2018).

However, we note that young people's experiences in our study add further complexity to recent studies of time and food in terms of movement. The entanglement of time, food and mobilities contributes to an extensive body of research on children and young people's mobilities (Barker et al., 2009; Bosco et al., 2017; Horton et al., 2014), but importantly it progresses beyond well-rehearsed debates about obesity and obesogenic environments to expose other experiences of eating - and eating on the move - as constituent of foods' wider nexuses. Moreover, our data also enable an upscaling of analyses, beyond a focus on micro-spaces of canteens and homes.

Leandro, for example, tellingly frames his nexus experiences around the Dutra highway, a critical arterial road connecting Rio de Janeiro and São Paulo (Figure 4). Highlighting how the W-E-F nexus weaves together resources, practices and the body, Leandro, like Adriana, believes that improving the bus service - currently extremely timeconsuming - would help to save energy, including that of his own body. As a consequence, Leandro devises his own coping strategies by consuming home-made food along the *Dutra*.



Lina is an eighteen-year-old female from a lower-middle income background; she works as an administration assistant in an electricity service company. Lina explains that time, and her sense of time, play a crucial role in decisions she makes about her other routines. Routes and means of transport that get her to her destination quickly, depending on the weather conditions. are greatly preferable. The bicycle, for example, is a much faster option than the bus in sunny weather. Although these everyday transportation choices make only small differences in terms of time saved, they nonetheless improve her perceived quality of life, amongst (now-familiar)

fast-paced rhythms and growing tasks. Lina tells us how the time-transportation link articulates with her eating practices, which are becoming increasingly unhealthy in 'the day-to-day rush', and consequently impact on bodily energy levels:

"...always in a hurry, sometimes I just ate a little cookie and forgot to eat, then I used to get tired, I came home and ended up being overcome by fatigue, and the next day it made a difference."

Figure 3. Lina.

Evidently, mobilities constitute cultures of young Brazilians' food consumption. Other forms of 'convenience food' are also evident. In particular, notions of 'practicality' – another mode of coping with hectic schedules – also constitute a common way of consuming food in Brazil: the *marmita* and *marmitex*. Sonia explains that these are preprepared meals consumed away from home. A unique kind of 'fast food', *marmitex* is prepared by specialized restaurants, typically ordered on-call and delivered to work/study places. Some restaurants also cater for schools and work canteens. Whilst *marmitex* and *marmita* are mostly used synonymously, Sonia notes that the term *marmita* is sometimes used to distinguish *home-made* packaged lunches carried to work or school. The lunchbox typically comprises the classically Brazilian rice, beans and meat-based meal. *Marmitex* provides a practical and cheap option for many young people who want to save time and still have a 'decent' meal.

Once again, space and time are connected through food. These connections are material (i.e. foodstuffs-themselves; digital devices used for ordering/delivering; the

Leandro is a twenty-two-year-old male University student from a middle-income background; he commutes weekly from his hometown 100Km from Guaratinguetá, where he attends university and shares an apartment with other students during term time. Leandro makes a connection between commuting (and thus mobilities), energy and food. His nexus-web clearly depicts the Dutra and highlights the first thirty minutes of his journey from his hometown to the interchange station. In yellow, Leandro draws anything related to energy consumption, which to him revolves mainly around the bus journey. Gasoline ('gas') and food are highlighted as key energy sources used to fuel the bus and his body, respectively. He stresses the fatigue of commuting, and how he tries to adapt his eating practices to augment his bodily energy:

'I used to eat cookies on my way but nowadays I only drink water. I also used to drink Coca-Cola something like that on my way but that is also something I said: "no, that is not very good". So, I just drink water nowadays. And if I have to eat something it is probably something that is light and not with a lot of sugar or like some snacks...I just eat some good stuff, I guess'.



Leandro devises his own coping strategies by bringing home-made food along the Dutra. Such tactics ensure energy supply and healthy eating during busy university routines:

- L: I brought some food but that is not what I used to do. I used to just come and get my food here [in university town].
- I: And so why did you bring it this time?
- L: Because I need more energy in my life. And I realized maybe bringing some food [from home] would help me.

Figure 4. Leandro.

lunchbox packaging) as well as social and emotional. On the latter point, many young people claimed that the home-made marmita, usually prepared by a close relative, tasted better, was healthier and cooked with more care, enabling them to somehow evoke 'home' into their time-pressed study and work regimens. The preparation of a marmita resonates with imaginaries that circulate around children and their school lunchboxes – folding an ethic of care, identity and emotion into the box (Metcalfe et al., 2008). Whilst it is tempting to deploy marmitas to highlight connections to, and positive associations with, 'home', Nukaga's (2008) analysis of food and the 'gift' economy reminds us that homemade food is also used to 'control ... relationships with peers as well as to mark, maintain, and mute ethnic boundaries' (p. 344). More broadly, marmita practices speak to extant scholarship on geographies of care by highlighting a particular 'topology of care' where place-specific networks of actors, objects and technologies configure around the act of caring for, and 'being related' (Hanrahan & Smith, 2020, p. 233) through food.

This section has highlighted young people's nexus experiences in relation to timemobility-food to extend recent debates on convenience food and nutrition (Foden et al., 2019; Jackson et al., 2018). It also contributes to emerging nexus-thinking scholarship within critical infrastructure studies (Monstadt & Coutard, 2019; Williams et al., 2019) by showing how transportation and W-E-F infrastructures are deeply woven into young people's nexus geographies. Developing our argument for complicating nexus-thinking, young people's diverse experiences are not redolent of 'a' simplistic time-mobilities-food nexus. Rather they expose manifold everyday nexuses, via a series of daily strategies, which, in weaving together elements of water, energy, food and far more besides, are developed through, and indeed generate different food-time-energy-transportation-infrastructure nexuses. Herein individual choices are shaped by the material and temporal organisation of urban infrastructures (public transport and marmitex systems) and by centralized time regimes of work and school, which participants felt they had little power to negotiate. In carving out ways to 'cope', Leandro and Adriana's modes of snacking-on-the-move subvert conventional time-space choreographies of Brazilian mealtimes. In a sense, snacking gave young people a degree of control, offering a rather different take on previous evocations of the power relations involved in young people's food practices (Punch et al., 2010).

Everyday nexuses: food relations beyond food

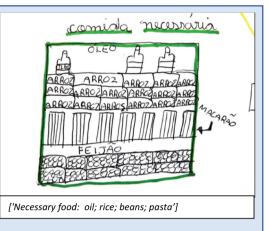
The previous section highlighted how foodstuffs – and differential practices of eating – are entangled with multiple, complex everyday nexuses that destabilized any neat sense of 'a' water-energy-food nexus (Allouche et al., 2015). In this section, although still *starting* with food, we push our analyses further to examine how such (broadly) food-orientated nexuses are interconnected with and productive of wider relationalities and connections (and, crucially, *dis-*connections). We highlight two key sub-themes: webs of 'lacks' and, socio-political sensibilities, enabling us to extend our argument about the multi-scalar constitution of everyday nexuses and, thereby, young people's everyday lives, identities and socio-political sensibilities.

Firstly, we focus on *webs of lacks*. Exemplifying how food can be experienced and framed very differently by young people in different socio-spatial contexts, it is here that Paulo's experiences come to the fore, in stark contrast to those of Adriana and other better-off young people. Figure 5 shows part of Paulo's nexus web. A key distinction in Paulo's experience of food is between the 'necessary food', deemed essential for sustaining the body, and the 'special food' for exceptional occasions.

Paulo's narrative once again complicates extant literature on childhood and food (Curtis et al., 2010; Wills et al., 2008). Paulo's everyday food rhythms are paced by presences and absences: of foodstuffs themselves, and of the money, family and social relations that can materialize them, alongside other interdependent factors that he depicts (Figure 6).

Existing research highlights the importance of immediate family members in giving care to others, particularly children, through food preparation (Punch et al., 2010). In our research, however, Paulo emphasizes the importance of his *neighbourhood* in temporarily bridging lacks in his nexus, and other participants recounted similar experiences of

Paulo is an eleven-year-old boy from a low-income family living in difficult socio-economic conditions. He lives and attends school in a challenging area, where crime, drug dealing and infrastructure addiction. poor provision and limited access to basic services are the norm, and his family struggles to secure regular access to food. In his verbal narrative of the nexus web, Paulo highlights a key distinction between two types of food, the 'special food' which he and his family can only afford to eat on special



occasions, and 'necessary food' for sustaining the body. He elaborates:

P: When we have money we buy what is necessary; and popcorn when we have the corn. I: And what is the 'necessary' food?

P: Rice and beans, sometimes sugar, salt... uhm... pasta, seasoning; I think that's it.

This simple, yet powerful representation of not eating, brings to the fore the material significance of food stuff for life-itself. In Brazil, rice and beans are high on the cultural register, however, their mundane presence in the diets of better-off young Brazilians is instead framed by Paulo as 'necessary'. Rice and beans are by no means ordinary, and Paulo thus places them prominently in his visual web for their material properties: their nutritional value and essential quality for maintaining life. For Paulo food is, quite literally, a 'matter' of presence and absence; matter that is not to be taken for granted. It is stocked up for when it can be afforded for times of hardship when it cannot. The rows of piled-up foodstuff that he meticulously draws symbolize material, visceral experiences of hunger and food insecurity and lack.

Figure 5. Paulo 1.

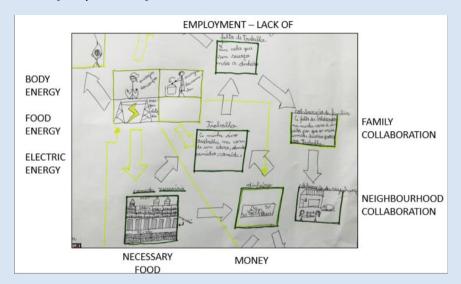
interdependency. Valentina, a seventeen-year-old female, speaks about food affordability and the connections with wider political-economic issues:

The food is not expensive, it's the tax that is high. Lack of employment is what makes the lack of food and many people suffer from hunger.

Meanwhile, Victor, a fifteen-year old male, tries to make sense of the situation of a school friend living in deprived socio-economic conditions. He effectively articulates the lived experiences of the food-family-money-employment nexus:

It's a complicated situation ... she [single mother] couldn't find a job, the job she had also did not pay well enough for her to buy food sometimes ... I think it was also the difficulty of getting a job itself, because she lived very far from the city ... she didn't have a car or anything, she had to go to places on foot ...

Paulo's 'necessary food' is embroiled in wider and more complex webs of presences and absences or 'lacks' (falta, in Portuguese). In his drawing, a large R\$50 banknote is placed next to the 'necessary food' vignette to signal that money and affordability are essential for Paulo's family to access food.



However, Paulo also highlights a wider web of interconnected circumstances that are important in the analysis. Employment (or lack thereof) is framed as the primary cause for Paulo's family's inability to secure regular food and a varied diet. Their situation is not inflected by a complete lack of employment. Rather, Paulo says that 'when we have the money we buy necessary food', alluding to the casual and temporary nature of the jobs (hence money) that the members of his family occasionally secure. Recursively, the rhythms of food are impacted by the fragmentary, casual and uncertain nature of employment conditions for (especially poorer) Brazilian families. Whilst job precarity may be linked to large-scale political economic trends (and especially the politicaleconomic crisis taking place at the time of our research), Paulo also notes that such macroeconomic processes, in turn, articulate with the more immediate concerns of his family circumstances. In his everyday nexus(es), the complexity of food-money-job is compounded by his family situation: his mother, a single parent, whose health condition does not allow her to fully commit to work; his father, who left the family and thus deprives them of a source of income; and his elder brother (caught up in issues of substance abuse) who 'lacks the energy' to search for a job.

Figure 6. Paulo 2.

Absence and 'lack' are key to many young people's narratives. These lacks, however, are expressed differently depending on a young person's socio-economic position. Adriana's, Lina's and Sonia's accounts are characterized by a lack of *time*; for Leandro's and others', it is the lack of efficient connectivity through transportation; in Paulo's, Valentina's and Victor's lives, absences were part of 'wider' nexuses of lacks – food relations *beyond* food – that included economic resources, affordability, employment and family circumstances.

Crucially, these narratives contribute an expanded, lived notion of resource nexus to scholarly attempts to unpack multiple, W-E-F related socio-material-environmental vulnerabilities and spatial inequalities (Browne et al., 2018).

Secondly, young people's experiences of lack are suspended in their wider sociopolitical sensibilities of food. We have shown that everyday nexuses are contingent, destabilising any neat sense of 'the nexus'. Indeed, young people – especially Paulo – convey a sense in which social, affectual and material webs are continuously interwoven, being constituted through unstable assemblies of foodstuffs, care, neglect, parents, carers, friends, neighbours, cars, buses, job, money and drugs. None of these nexus elements are 'social' in their own right, but by virtue of their associating in everchanging ways, they afford new social relationalities.

The social thus takes on a double value in young people's nexus experiences. It is expressed in terms of social issues, especially poverty, drug addiction, alcoholism, unemployment, family breakdown, which undermine some young people's ability to access resources (including but not limited to food). Whilst aware of the danger of framing any complex sets of circumstances as a nexus, we build upon young people's explicit perception of the relationality that exists between such social issues and water-energy-food resources in particular. Importantly, with a focus on lack, they questioned the rhetoric of interconnectedness that underpins much nexus-thinking (Hoff, 2011; Leck et al., 2015), pointing out gaps, absences and ruptures in webs of interdependencies, whilst nevertheless retaining forms of nexus sensibility (not least as these were expressed explicitly in their visual webs).

Thus, redolent of calls to draw out the political implications of nexus-thinking and policymaking (Allouche et al., 2015; Leck et al., 2015; Schwanen, 2018), young people highlight forms of inter-/dis-connection that foreground issues of resource allocation as an intrinsically social and political issue. For many young people - like Valentina and Victor - nexus dis-connections materialize as unequal distributions of resources, with some social groups being more exposed to nexus threats than others, whether in terms of gender (e.g. lone mothers), economic situation (e.g. low-income families; unemployment) or social circumstance (e.g. youths involved in crime or substance abuse). They prove to be acutely aware of, and vocal about, the fact that social inequalities are deeply entrenched in issues of water-energy (and especially) -food, many of them suggesting that for nexus imbalances to be addressed, other, wider inequalities needed to be addressed first. The social is very much 'political', and indeed young people are highly attuned to the political as a way of tackling responsibilities within the nexus. The State, but also 'the people' and communities are seen as key actors in everyday webs of dis/ connections, both as holding responsibility for the deficiencies and as potential agents of change. For Isabelle, an eighteen-year female student, unequal access to food should be tackled mainly at the government level, as she argues:

I can give everybody a little bit of help; it will be better. But I think that needs to be a bigger thing, like, governmental.

Whilst Rubens, an eighteen-year male student, discussing responsibilities for improving water provision in his town, thinks that:

The entire community ends up being involved, right? Also in the matter of asking for improvement. The organ, which is distributing, I think should be aware of the product it is offering. The government mediates this and should also be monitoring. So I guess, overall, it's everyone.

Although these suggestions afford a view of Brazilian youths' social and Political (with a big 'P') sensibilities (Skelton, 2013), young people also articulate forms of social and political (with a small 'p') agency that they deem supportive and progressive (Jeffrey, 2012; Kallio & Häkli, 2013). For instance, social networks figure as important resources as well as nexus threats. This is explicated by many as social networks of care and, especially, sharing that family, community, neighbours or friends put in place during hardship. In Paulo's nexus drawing, for instance, the vignette that he labels 'neighbourhood collaboration' shows a woman handing over a packet of sugar to her neighbour who had run out. Clara tells us about a rural area very rich in waterfall and spring water where she and her family would go to stock up on water from natural sources. Though located on private land, these water sources are left open for people to use freely. She explains that the community in the area believe that anyone should be able to access water from natural sources; she frames the community as being 'present', and receptive to, in her words, the right to 'natural resources for all', defining this practice as community 'solidarity'.

Conclusion

This paper opens up important conceptual connections between child and youth studies, nexus-thinking, and the spatio-temporalities of food. Extending the three interventions into nexus-thinking with which we began this paper, we argue that our research encounters with young people in Brazil *transfigure* nexus-thinking in several interconnected ways.

Firstly, our analysis encourages a focus on unpacking the mundane workings of food within and as expressive of the temporalities of everyday nexuses. We have called for and exemplified an empirical, conceptual and political project in which 'the nexus' is complicated, destabilized and embodied in ways that resonate with, but extend beyond recent arguments for nexus research at the community and household level (Leck et al., 2015; Rohracher & Köhler, 2019). In so doing, the paper complements, challenges and (crucially) connects with discourses of long-term temporality, global projections and distant futures inherent especially to policy and development debates on the nexus (e.g. FAO, 2014), by interrogating how these play out at the time-scale of everyday routines and movements. Our participants' narratives showed how food temporalities entail complex synchronising, clashing and overlapping timings, from bodily to institutional rhythms, from slow to fast paces, from seasonal to economic cycles. Thus, in line with the growing academic interest into the temporalities of food, eating and agricultural processes (Coles, 2016; Jackson et al., 2018; Warde et al., 2007), we call for an approach to understanding food which, without dismissing the macrotemporalities involved in dominant discourses on the nexus, embraces a perspective that reframes food processes, including issues of food security, as engaging simultaneously with multiple temporalities of the environment, the social, the individual and the material body.

Secondly, and relatedly, young people's experiences and spatial practices highlight *mobility* as a key point of articulation in the spatio-temporalities of food (Bosco et al., 2017;

Jackson et al., 2018). Young people's experiences of food are shaped by movement; food is carried around, consumed in between spaces, chosen, or neglected based on the moving bodies of young people, their access to transport infrastructures, and their adapting to time regimes of work, study and commuting. The food-time-mobilities 'nexus' (if we can call it that) revealed by young people offers an important entry point to rethink nexus-thinking from bottom-up perspectives. Not only does it reconfigure food through a series of socio-material assemblages of, for instance, vehicles, timetables, lunchboxes and road networks; crucially, it also demonstrates how nexus-thinking might derive greater conceptual force from being able to incorporate ever new elements – such as mobilities – drawn from lived experiences of resource access and use.

Thirdly, the processes and practices analysed in this paper are intrinsically *multi-scalar*. We have explored relationalities of food at multiple, intersecting scales - implicating marmita, the street, the bus, the supermarket, the classroom, the factory, the canteen, the home, the neighbourhood, the state and places/spaces beyond Brazil. This research sheds light on the entanglements of food with multiply-scaled spaces, places and materialities that shape and are shaped by young people's use of, and access to, resources. As the examples demonstrated, these have profound implications for issues of sustainability, food security and social inequalities. Thus, an important contribution of this paper has been to reveal the embeddedness of nexus resources and trade-offs in the cultures, politics and social fabric of communities, thus enabling a (re)politicisation and critical transfiguration of nexus-thinking.

Finally, and consequently, this paper makes a key contribution to recognising the workings of social difference with/in nexus-thinking (and, we would hope, nexus policymaking). Not only does it represent one of the first attempts to interrogate the W-E-F nexus from a 'bottom-up' perspective, or from the perspective of young people, but also, importantly, it demonstrates how the intersectionalities of youth and socioeconomic circumstance produce very different experiences of food-in-the-nexus. This move responds to, but, crucially, extends well beyond recent calls for a focus on the 'domestic nexus' (Foden et al., 2019) - not least since the experiences and concerns analysed in this paper transcend a range of spaces and practices beyond the (obviously) 'domestic' sphere. The multi-scalar, entangled socio-material experiences of food - and beyond – discussed here have shown that the concept of a resource nexus is an effective analytical tool in thinking through questions of everyday resource use, vulnerability and marginalisation; as a critical framework, it moves interdependence theories forward by illuminating the complex geographies of scale, power and materiality underlying resource governance. As we demonstrated in the final part of the paper, these experiences articulate nexus connections in ways that not only afford insights into differential access to food, but into pressing questions of social, political and environmental justice that could – and in our view should – be central to future forms of nexus-thinking.

Note

1. In addition to the qualitative component, the wider project entailed: i) a large-scale survey involving 3,705 young people; ii) semi-structured interviews with 63 key professionals whose work remit extended fully or partly within the case study region; iii) workshops with schools, community groups and environmental educational providers; iv) a 'Food-Water-Energy



Challenge' global video competition addressed to young people worldwide.

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ORCID

Cristiana Zara (p) http://orcid.org/0000-0003-0129-324X
Benjamin Coles (p) http://orcid.org/0000-0002-2973-0467
Sophie Hadfield-Hill (p) http://orcid.org/0000-0001-5127-013X
John Horton (p) http://orcid.org/0000-0002-2956-2264
Peter Kraftl (p) http://orcid.org/0000-0002-7915-4808

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