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1 Critical realism in empirical research: employing techniques
2 from grounded theory methodology
3

4 **Abstract**

5 While critical realism (CR) is becoming recognised as a significant meta-theory for the
6 social sciences, there is little guidance on how to produce research that is consistent
7 with its ontological and epistemological assumptions. This article contributes to an
8 emerging discussion about how CR can be applied, drawing on an example of a
9 qualitative study that has sought to understand and explain the causes of unmet need
10 among a group of rural labourers in Tunisia (Author, 2018). Using this study as an
11 illustration, I show how techniques from grounded theory methodology can be usefully
12 harnessed in the data collection, coding and analysis stages of a research project that
13 adopts a CR philosophical and methodological framework. I illustrate how an
14 ‘abductive’ variant of grounded theory allowed drawing on pre-existing theoretical
15 knowledge throughout the research stages, while open and axial coding techniques
16 could be harnessed for identifying and postulating CR causal mechanisms. This article
17 should be of interest to students and researchers involved with grounded theory and
18 applied critical realism.

19 **Introduction**

20 Critical realism (CR) is becoming recognised as a significant meta-theory for the social
21 sciences. A relatively new addition in the philosophy of science, CR informs the
22 development of novel methodologies that allow researchers to empirically examine a
23 variety of social phenomena and to elaborate powerful causal explanations that can
24 account for them. The potential for CR-informed research to shine light onto the
25 underlying or ‘root’ causes of societal problems has reserved a role for it in social
26 justice-oriented studies and in the development of new knowledge that can be harnessed

27 by civil society organisations, movements and groups in their projects for social change
28 (Bhaskar, 2016; Sayer, 2000; Danermark et al., 1997; Collier, 1994).

29 This article contributes to an emerging discussion about how CR can be applied,
30 responding to the general problem of a lack of methodological guidance for researchers
31 keen on conducting research consistent with CR's ontological and epistemological
32 assumptions, particularly in respect to choices around data collection, coding and
33 analysis (Fletcher, 2016). It does this by demonstrating how Grounded Theory (GT)
34 techniques can support the data collection, coding and analysis stages of a CR research
35 project, indicating where these techniques can address to the demands CR puts to
36 methodology. Ackroyd and Karlsson (2014, 45) note that the lack of accessible, CR-
37 informed material has been a likely obstacle to the development of "interesting and
38 insightful research", while those brave enough to try have found it necessary "to review
39 and incorporate a large body of abstract philosophical literature" into their studies
40 (Wynn and Williams, 2012, p.788). As the stock of CR empirical research has only
41 really begun to emerge (Easton, 2010; Maxwell, 2012; Kempster and Parry, 2011;
42 O'Mahoney and Vincent, 2014; Parr, 2015; Fletcher, 2016), applied critical realists
43 have found themselves "well behind the game" in respect to methodology (Ackroyd
44 and Karlsson, 2014, p.45).

45 With this in mind, the following section introduces CR as a meta-theory for the social
46 sciences. It discusses some CR's basic components and how it informs the conduct of
47 empirical research. GT is introduced as a methodological approach that is useful to
48 applied CR, and an illustrative study is drawn on to demonstrate the use of GT
49 techniques. The study, which has sought to understand and explain the unmet needs of
50 a group of rural labourers in Tunisia, involved employing an 'abductive' variant of GT
51 (Oliver, 2011), where pre-existing theoretical knowledge could be harnessed

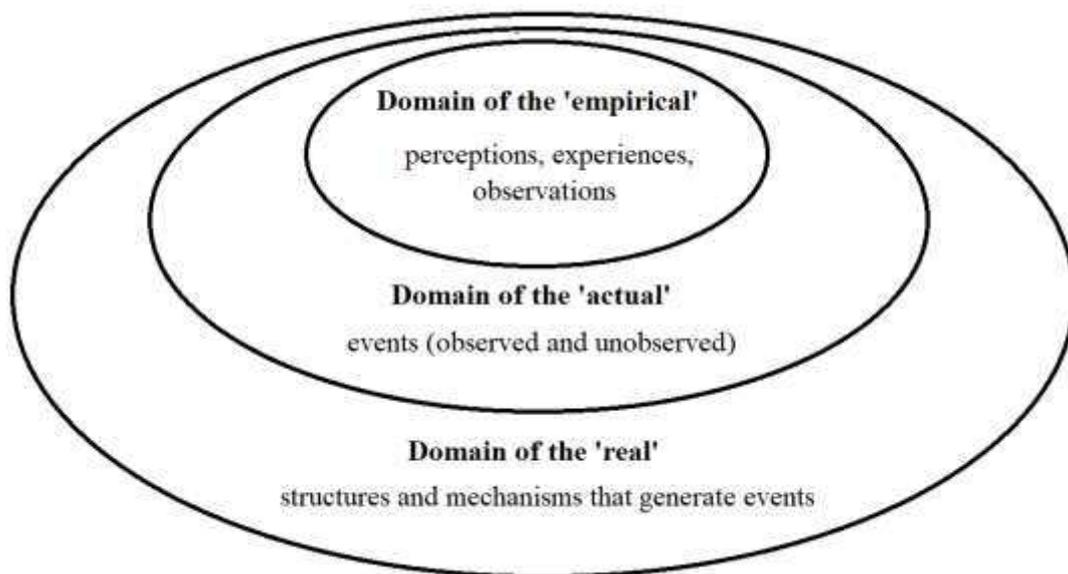
52 throughout the research stages and where open and axial coding techniques were used
53 for identifying and postulating CR mechanisms. A brief background to the study is
54 provided, before moving on to describe how the techniques were applied. The role of
55 pre-existing theoretical knowledge, data collection and the application of coding
56 strategies is explained and how CR causal mechanisms were retroduced. Finally, the
57 application of GT techniques is discussed with reflection on some limitations for
58 applied critical realism and recent claims to their incompatibility (Fletcher, 2016; Sum
59 and Jessop, 2013; Danermark et al., 1997).

60 **Critical realism as a meta-theory**

61 What's meant by 'meta-theory' is a useful, "non-disciplinary category that refers to
62 everything in the realm of thought outside theory and empirical work" (Fleetwood and
63 Ackroyd, 2004, p.20). Meta-theory concerns aspects and matters in the philosophy of
64 science, ontology, epistemology, causation, methodology, and so on, which are all
65 implicated in social scientific research. When CR emerged in the 1970s (Bhaskar, 1998;
66 2008; 2016), it was positioned as an alternative to both positivism and social
67 constructionism as the prevailing meta-theoretical orthodoxies of the time. Its claim
68 that statements about the world cannot be reduced to statements about knowledge
69 challenged orthodox reductions of ontology to epistemological questions and called for
70 the "revindication" of ontology in the philosophy of science (Bhaskar, 2016, p.11). For
71 the social sciences, it demanded a shift towards examining the fundamental nature of
72 social phenomena and their properties which can be discerned from their measurable
73 and observable characteristics and features.

74 The novelty of CR's approach to ontology was that it put forward a view of reality as
75 structured, differentiated and changing (Bhaskar et al., 2018). CR maintains that the
76 world consists of natural and social objects and structures with particular 'causal' or

77 'generative mechanisms' (Sayer, 2010; also Bhaskar 1998; 2008; 2016) that make
78 events occur, and that reality is stratified into three domains: the domain of the 'real'
79 (made up of these natural and social objects, structures and their mechanisms) the
80 'actual' (comprised of events, that is, what happens when mechanisms are activated)
81 and the 'empirical' (which refers to our perceptions and experiences of these events)
82 (Figure 1). In moving from our perceptions and experiences in the 'empirical' domain
83 toward the domains of the 'actual' and the 'real', reality becomes increasingly difficult
84 to access. Nevertheless, CR holds that the development of new knowledge about the
85 social world can be generated through the scientific discovery of objects, structures and
86 generative mechanisms in the domain of the 'real' and the conditions under which these
87 mechanisms are activated.



88

89 *Figure 1. Critical realist view of stratified reality.*

90 CR's notion of causation as a matter of 'generative mechanisms' also makes it distinct.
91 Rejecting the conventional 'successionist' approach to causation in open systems as
92 regularities between empirical events (of cause and effect), critical realists emphasise
93 the causal 'powers' and 'liabilities' which inhere in or are emergent from particular

94 objects, relations and structures. Causal powers denote “capacities to behave in
95 particular ways” while liabilities refer to “susceptibilities to certain kinds of change”.
96 (Sayer, 2000, p.11). For CR, these exist as potentialities which may or may not be
97 exercised under particular conditions, and which may not produce a regular pattern of
98 events. What is meant by ‘generative mechanisms’ are simply the “causal powers or
99 ways of acting of structured things” (Bhaskar, 1998, p.187).

100 In contrast to the orthodox metatheories, CR combines a realist ontology with an
101 interpretive epistemology (Bygstad et al., 2016). It maintains that the world is real in
102 the sense of it existing independently of our perceptions and beliefs, and that our
103 understanding of it is socially constructed. With positivism it shares this notion of an
104 objective reality or world ‘out there’ and the possibility of producing causal
105 explanations, although it differs with it in terms of the nature of causation and the extent
106 to which that reality can be observed. With interpretivism it shares the view that social
107 phenomena are concept-dependent (Sayer, 2010) but differs from it in emphasising the
108 role of real structures and mechanisms operating beyond people’s conceptions of their
109 actions and intentions. While CR designates an important place for interpretive methods
110 in social research, it applies particular qualifications that differentiate it from strong
111 forms of social constructionism: that communicative interaction has material
112 commitments and settings; and that social life has a material dimension (Sayer, 2010;
113 Bhaskar, 2016). There may be a variety of ‘realities’ and ways of ‘knowing’, but some
114 descriptions and accounts of a given phenomenon will approximate more closely to
115 reality than others (Parr, 2015).

116 **Empirical research and grounded theory**

117 How, then, does a CR meta-theory inform the aims and conduct of empirical research?

118 Rather than attempt to either establish laws and certainties or to understand merely the

119 meanings of issues or events, critical realist enquiry aims to develop causal explanations
120 that map the components of a social phenomenon across stratified reality, spelling out
121 what the relevant objects, structures, mechanisms and conditions are to that
122 phenomenon. Interpretation will be the starting point, because “we must at least know
123 what agents think they are doing and why they are (in their opinion) doing it” (Bhaskar,
124 2016, p.105). The movement towards these explanations involves a theory-building
125 process akin to detective work: the CR researcher begins with the experienced results
126 of something, such as a social problem, and then works backwards in an attempt to
127 explain why it is the case, or what must have caused it to happen. This mode of inference
128 is referred to as ‘abduction’ or ‘retroduction’ and involves abstracting from empirical
129 data about our concrete phenomenon while drawing on insights from pre-existing
130 knowledge and experiences of the same phenomenon elsewhere. Abduction involves
131 theoretically redescribing or recontextualising the phenomenon in question while
132 retroduction is a thought operation that involves postulating relevant causal
133 mechanisms that might account for it – though in practice the two overlap (Danermark
134 et al, 1997; Bhaskar, 2016).

135 One set of techniques suggested as useful for synthesising data and making inferences
136 about causal mechanisms and conditions is grounded theory (Oliver 2011; Kempster
137 and Parry, 2011; 2014). As one of the more prominent research methodologies, GT’s
138 movement from empirical data towards abstract theory resonates with the CR
139 requirement to move from the ‘concrete’ towards a causal explanation by means of
140 “abstraction and careful conceptualization” (Sayer, 2000, p.19; also Kempster and
141 Parry, 2011). As originally formulated by Glaser and Strauss (1967), GT methodology
142 is highly exploratory in approach, requiring the researcher to enter the field relatively
143 uninhibited by pre-existing theoretical knowledge and to gather comparable data about

144 a general phenomenon.¹ Data are compared and coded over fieldwork sessions, and
145 concepts and categories are distilled out and linked together in order to generate a theory
146 that is grounded in that data.

147 GT has had both its advocates and detractors in the emerging conversation about how
148 to apply critical realism. On the side of the detractors, the inductive and empiricist
149 qualities of GT raise compatibility issues vis-à-vis the abductive or retroductive
150 character of CR and its notion of stratified reality (Fletcher, 2016; Sum and Jessop,
151 2013; Danermark et al., 1997). According to this view, the GT idea that theory should
152 ‘emerge’ entirely from the data and its denial of a role for pre-existing theory at the
153 beginning of a research project provides little for moving beyond surface appearances
154 and for getting at underlying social structures and mechanisms.

155 In perhaps the most comprehensive assessment of GT’s compatibility with CR however,
156 Oliver (2011) identifies several areas of agreement between the two that supports the
157 significance of GT to CR. The most significant of these concern contemporary
158 developments within GT that have moved the methodology out of its empiricist and
159 inductive caricature into something resembling a “family of methods” (Bryant and
160 Charmaz, 2007, p.11) capable of operating across different epistemologies (Oliver,
161 2011). While early GT was satisfied with formulating claims about objective reality,
162 more recent constructivist engagements have developed the methodology further for
163 studying processes of meaning-making and for getting at tacit and implicit meanings
164 and actions which might not be registered in empirical data (Charmaz, 2006; 2017). At
165 the same time, a parallel shift within GT away from induction towards abduction has

¹ GT was developed as an inductive approach to theory building which would challenge the dominant ‘logico-deductive’ method that Glaser and Strauss claimed was responsible for producing abstract theories with little or no connection to concrete social life. Students were advised to defer compiling literature reviews until after data collection to avoid tainting their research with preconceived ideas and theories (Glaser and Strauss, 1967; Dunne, 2011).

166 brought grounded theorising into alignment with CR’s mode of inference. Whereas
167 early grounded theorists were advised to resist conducting literature reviews in advance
168 of data collection, contemporary grounded theory permits the researcher to handle
169 “preconceived analytical categories” and to draw on “pre-existing theoretical
170 knowledge, hunches and hypotheses as necessary ‘points of departure’ and building
171 blocks for the development of more abstract theory” (Oliver, 2011, p.10; also Strauss,
172 1987; Corbin and Strauss, 2008; Kempster and Parry, 2011; 2014; Kelle, 1995; 2007;
173 Thornberg, 2011).² Much contemporary GT has moved in this direction already, as
174 practitioners have had to contend with the theory-laden nature of observation and the
175 logical problem that induction cannot itself generate theories³ (Kelle, 2007; Reichertz,
176 2007; Timmermans and Tavory 2012; Richardson and Kramer, 2006; Corbin and
177 Strauss, 2008; Charmaz, 2006; Thornberg, 2011).

178 **Employing GT techniques**

179 Applying critical realism in this study involved drawing on these developments for
180 addressing both the phenomenon of interest and its meanings, and approach the data
181 with preconceived concepts and categories (Oliver, 2011). Doing this required making
182 decisions about data collection, coding and analysis that drew on GT’s repertoire of
183 methodological techniques. Table 1 shows the formal stages of a CR-informed research
184 project (Danermark et al., 1997), the demands put to methodology and the GT
185 techniques employed in the illustrative study. The first stage involves close examination
186 of empirical data while subsequent stages involve an increasingly abstract mapping of

² Kelle (2007, p.147) describes extant theory as a “heuristic framework” which “helps the researcher to focus attention on certain phenomena in the empirical field.”

³ Pierce, who introduced abduction in the 1930s, held it to be “the only logical operation which introduces any new ideas; for induction does nothing but determine a value, and deduction merely involves the necessary consequences of a pure hypothesis” (Peirce, 1934, cited in Timmermans and Tavory, 2012, p.171).

187 the concrete phenomenon's components across the domains of stratified reality. The
 188 final stage, which involves examining the combined effects of those components (Sayer,
 189 2010), is presented as a distinct stage although in practice it was undertaken iteratively
 190 alongside stage 3.⁴ While literature reviews cannot be characterised as GT techniques,
 191 they have been included in Table 1 for their significance in this research process and
 192 given differences in opinion over the place of them in GT. The next section provides a
 193 brief background to the study before moving on to show how the research was
 194 conducted and decisions made.

Formal stages of a CR research project	Demands	GT techniques
1. Description (i.e. describe the event or situation, drawing on people's interpretations and reasons)	Initial exploration of the literature for identifying: <ul style="list-style-type: none"> • existing concepts and arguments • empirical studies • historical evidence 	Literature review in advance of data collection
	Initial exploration of empirical data to identify: <ul style="list-style-type: none"> • people's understandings of what they are doing and their reasons • possible objects of interest • tentative relationships and connections, concepts and categories 	Theoretical sampling; open coding; comparative method
2. Analytical resolution (i.e. identify core objects/components of the phenomenon of interest)	<ul style="list-style-type: none"> • Identification and specification of demi-regularities in the data • Specify the core objects and begin laying out their properties and connections 	Theoretical sampling; early stages of axial coding (diagramming); comparative method
3. Abduction and retrodution (i.e. redescribe the components in terms	<ul style="list-style-type: none"> • Generate concepts and categories at increasingly higher levels of abstraction and lay out their properties and connections 	Axial coding alongside ongoing review of the

⁴ Danermark et al. (1997) note that these formal research stages can occur concurrently rather than chronologically in research practice and it is often necessary to switch between different stages.

of theories about relations and structures and suggest mechanisms that might be at play)	<ul style="list-style-type: none"> • Confront data with theory; identification of areas of the literature and theoretical knowledge that are significant to emerging data, concepts and categories • Assess the explanatory power of these theories and/or the manner in which theories deal with different dimensions of social reality. 	literature; comparative method
4. Concretisation and contextualisation (i.e. examine the combined effect of abstract components in concrete situations).	<ul style="list-style-type: none"> • Confront theory with data; testing against previous cases and emerging data 	

Table 1. GT techniques employed in the study.

195

196 **Background to the study**

197 The study sought to understand and explain the unmet needs of a group of rural
198 labourers in Cap Bon, Tunisia, as an independent research project that is part of a larger
199 collaborative project on ‘Transformative Justice in Egypt and Tunisia’. This larger
200 project counts on a number of academic institutions and local organisations, and
201 engages with a diversity of populations, communities and groups in both these countries
202 in an attempt to draw out their experiences of everyday injustice and ‘structural
203 violence’, as well as priorities for change in contexts of democratic transition.⁵ As is
204 known from elsewhere, these issues tend to be overlooked by existing transitional
205 justice mechanisms (Gready and Robins, 2014) and so the project has sought to generate
206 a new evidence base which brings social-economic matters to the foreground and

⁵ While Tunisia’s democratic transition has been relatively successful, the restoration of military rule in Egypt between 2013-2015 and the return of repression has thwarted initial prospects for democratic change.

207 ideally find ways of addressing them through more ‘transformative’ agendas for
208 practice.

209 This study of rural labourers is one of several studies initiated in Tunisia. Fieldwork
210 was conducted in the Cap Bon region with small landowning farmers, renters and
211 sharecroppers who pay rent to landlords as a portion of the crop yield or its market
212 value equivalent. The aim of the study has been to respond to an ‘epistemological gap’
213 in the existing literature by laying out how social-economic harms in transition societies
214 can be identified, examined and explained through social scientific enquiry. The study
215 sought to proceed from an examination of participants lived experiences towards the
216 social structures and generative mechanisms that underpin harm in this particular rural
217 context. The choice of rural focus has to do with the rural nature of poverty in Tunisia
218 (Author, 2018) and because rural economic issues were an important source of
219 grievances leading up to the Tunisian Revolution in 2010/11, as a review of the
220 literature revealed (Gana, 2012; Ayeb, 2012).

221 Pre-existing theoretical knowledge

222 Keeping consistent with a CR mode of enquiry and an abductive GT approach, existing
223 concepts, arguments, empirical studies and historical evidence were examined before
224 data collection, and over all remaining stages of the research process. This examination
225 occurred at two tiers: at the higher tier, a largely normative transitional justice literature
226 that provides political, moral and philosophical concepts that support and shape post-
227 conflict and post-repression practice (Franzki and Olarte, 2014), and which frames the
228 study problem; and at the lower tier, a much broader literature on rural poverty studies
229 and peasant studies that reflects the choice of case and which could help inform the
230 development of explanatory theory. This lower tier literature considers and examines
231 poverty and deprivation in social relational terms, and represents a convergence of

232 agrarian political economy on the one hand and psychosocial and relational/symbolic
233 approaches on the other (e.g. Borras, 2009; Bernstein, 1992; Harriss, 2007; 2012;
234 Scoones, 2015; Wood, 2007; Mosse, 2010).

235 Prior to fieldwork, my initial examinations of these literatures allowed me to develop
236 working research questions and study goals, and gave me some sense of what
237 relationships and mechanisms I could expect to find at play, and what empirical data
238 could be useful and how to interpret and understand that data (Maxwell, 2012; Corbin
239 and Strauss, 2008). A critical realist conceptualisation of ‘need’ (Ramsay, 1992; 2004;
240 Bhaskar, 2009; Sayer, 2004; 2011; Assiter and Noonan, 2007) suggested an approach
241 to qualitative data collection where data would be gathered from people about their
242 experiences of lack or social ills as a means of getting at their ‘real’, unmet needs and
243 the underlying social, economic or political arrangements and structures that mediate
244 them. Important to note here is that theoretical knowledge was treated as provisional
245 only. While it gave shape to the research process at the beginning, it neither constituted
246 a “fully coherent network of explicit propositions from which precisely formulated and
247 empirically testable statements can be deduced” (Kelle, 2007, p.147) and hence nor did
248 it determine the research outcomes. Rather, I would examine and draw on extant theory
249 as a heuristic (Kelle, 2007) to the extent that it helped illuminate the research
250 phenomenon or aspects of it, and as I was confronted with empirical data in the field.
251 In this sense, abduction was not a distinct stage in this study that followed data
252 collection but one that started from the very beginning by way of the combining of
253 observation and theory.

254 Data collection

255 With some insights from the literature, a set of initial interview questions was drawn
256 up on the basis of what themes looked like they might be relevant, and included people’s

257 relation to the market and state. Semi-structured interviews allowed for a discussion of
258 the questions and topics of relevance to the research as well as to pursue related and
259 relevant lines of enquiry that might arise. The question format also gave space for
260 participants to raise and discuss issues that might be important to them, which is also
261 in keeping with a ‘transformative justice’ concern for prioritising the voices of
262 marginalised and excluded groups (Gready and Robins, 2014).

263 Just as with GT, the exploratory mode of the research allowed interview questions to
264 be modified over the course of data collection on account of what became more or less
265 relevant and interesting and what we wanted to know. After several weeks of fieldwork,
266 a decision was made to continue sampling only sharecroppers from among the larger
267 population of ‘small farmers’ in the region. This decision was informed by a growing
268 awareness that sharecroppers, as labourers, were more structurally disadvantaged than
269 other ‘small farmers’ in the region, and because this latter category obscured nuanced
270 class differences which were becoming increasingly relevant to the analysis. Interviews
271 became centred around sharecroppers’ experiences with landlords, money lenders and
272 agri-industrial actors as important sets of relationships that were gesturing towards the
273 presence of underlying structures with causal significance. At this point, the data was
274 pointing towards similar sets of experiences among research participants, such as their
275 feeling instrumentalised by other class actors for the purposes of profit making, and
276 multiple forms of insecurity rooted in the potential for crop failures, perpetual
277 indebtedness and fluctuating household incomes.

278 [Data coding](#)

279 Very little has been said in the applied CR literature about data coding, as Fletcher
280 (2016) has already observed. A notable exception is Fletcher herself, who applied
281 explicit provisional codes identified from the literature to her first round of coding. The

282 process of data coding in this study was an effort at marrying up GT's open and axial
283 coding techniques with CR, with extant theory continuing to serve as a heuristic. Open
284 coding breaks open or 'fractures' the data to "consider all possible meanings" (Corbin
285 and Strauss, 2008 p.160) while axial coding reassembles it. Here, the axial coding
286 strategy allowed the identification of CR 'demi-regularities' or "rough trends or broken
287 patterns" in the data (Fletcher, 2016, p.5) and the relating of these to other concepts and
288 categories through a framework of relationships informed by CR. Open and axial
289 coding techniques have been taken up by other, non-GT qualitative studies since Glaser
290 and Strauss introduced them, though this study's use of constant and theoretical
291 comparisons for informing a unique and rigorous approach to sampling and coding
292 keeps it a firmly GT approach. Constant comparisons involve comparing incidents in
293 the data while theoretical comparisons involve comparing our experiences or insight
294 from the literature with some aspect of our phenomenon of interest (Corbin and Strauss,
295 2008).

296 [Open coding](#)

297 Data was initially coded in a line-by-line format, where each line of written data was
298 coded in verbatim and for process (Saldaña, 2009). Verbatim codes, such as 'working
299 for nothing', 'no one listens' and 'we are being colonised' preserved the voices of
300 participants and their interpretations of their situation, while process codes captured
301 conceptual items, such as 'rising costs'. Data segments were compared in order to
302 identify similarities and differences between them, which also included the farming
303 practices and relationships that research participants had to other actors and objects.
304 These sorts of comparisons were useful for not losing sight of the connections within
305 particular cases, something Maxwell (2012) suggests can interfere with the
306 development of realist explanations. Codes were formulated and stored in a codebook,
307 and provisional categories generated which captured several codes at once. Less

308 relevant codes were jettisoned and labels for the codes and categories were refined over
309 the subsequent axial coding cycle. One particularly useful technique borrowed from GT
310 was memo-writing, which served as a space for reflecting on the data, how it is coded
311 and categorised, for discussing the data in light of pre-existing theory, and so on (Corbin
312 and Strauss, 2008; Charmaz, 2006).

313 The decision to avoid codes identified from the literature in the first coding cycle was
314 intended to facilitate this consideration of ‘all possible meanings’. Rather than a form
315 of naïve empiricism, this was an effort at remaining open minded to what theoretical
316 possibilities it might contain (Charmaz, 2006; Dey, 2006) and made it consistent with
317 Strauss’ (1987, p.29) depiction of open coding as a strategy “grounded in data on the
318 page as well as on the conjunctive experiential data, including knowledge of the
319 technical literature which the analyst brings into the inquiry.” Particular codes and
320 rough categories were anticipated to appear given that the interview questions were
321 organised around themes, insights and hunches from the literature, and as participants
322 were recruited on the basis of what we were interested in. But the strategy also allowed
323 capturing items and nuances that were new, unexpected or puzzling in light of my own
324 preconceptions and knowledge. This would lead me to return to the field, and to
325 transcripts and the literature for insights into how to interpret, connect and compare
326 them. So, while the open coding strategy involved a deep exploration of the data, it also
327 marked the beginning of my relating these data to new and existing frames of reference,
328 and to scope out the possibilities for theoretically redescribing it, as demanded by CR
329 enquiry.

330 [Axial coding](#)

331 The transition to a more focused form of axial coding that could draw more explicitly
332 on substantive theory and which could work with CR assumptions and concepts of

333 structures, powers and so on, was automatic at first but was later pursued as a formal
334 coding cycle. The axial coding strategy employed here sought to identify and make
335 explicit the connections between concepts and categories, but it involved retrofitting its
336 framework with CR ideas. Strauss (1987, p.64), who pioneered axial coding, suggested
337 the strategy involves first

338 laying out the properties of the category, mainly by explicitly or implicitly
339 *dimensionalizing it...Second, the analyst hypothesizes about and increasingly*
340 can specify varieties of conditions and consequences, interactions, strategies,
341 *and consequences... that are associated with the appearance of the*
342 phenomenon referenced to by the category. Third, the latter becomes
343 increasingly related to other categories.

344 Strauss' emphasis on conditions (or causal conditions), actions and interactions,
345 strategies and consequences constitutes what he referred to as a 'coding paradigm' but
346 its pragmatist and interactionist elements⁶ made it difficult to employ in a way that is
347 consistent with CR. It contains assumptions about structure and action that diverge from
348 CR, and as Dey (2006) has suggested, assumptions about cause and effect that require
349 practitioners to demonstrate causation through the identification of empirical patterns
350 by comparing cases.⁷ As we saw earlier, this conception of causation has been taken to
351 task by critical realists.

352 The response in this study was to take the notion of a coding paradigm seriously but to
353 draw on explicitly on CR ontology. This involved retaining Strauss' first requirement

⁶ See chapter 1 of Corbin and Strauss (2008) for an overview.

⁷ Glaser, who criticised Strauss' axial coding for "forcing theoretical coding concepts on data to the max", nevertheless seems to have held onto the same idea about causation: "a causal condition or more simply, a cause, is a category or property that leads to the occurrence of another category or property. How causes emerge will be obvious to the analyst, as will any other theoretical code. An underlying pattern of several incidents, when constantly coding and comparing, emerges and appears causally related to a main concern" (Glaser, 1992, p.63-64).

354 to examine and lay out the properties of categories arrived at through open coding, but
355 to proceed through a modified coding paradigm. First, ‘demi-regularities’ were
356 identified from the data by way of comparison that pointed towards common
357 experiences of physical and psychological suffering. These were experienced by
358 research participants in terms of and associated with low incomes and consumption;
359 overwork and fatigue; perpetual indebtedness; feelings of being instrumentalised by
360 other actors; uncertainty in their livelihoods and the loss of control; and a lack of
361 meaningful work and alternative livelihood opportunities. These particular findings
362 were consistent with other qualitative studies and surveys conducted in transition
363 societies (e.g. Pham et al., 2009; Vinck and Pham, 2014; Robins, 2013), as well as
364 elsewhere in Tunisia (Andrieu et al., 2015), which have found individuals, communities
365 and groups raising their experiences of poverty and insecurity as priorities.

366 With these identified, the data was re-examined for building a picture of the social
367 arrangements or structural context in which livelihoods were pursued and which could
368 begin to account for the identified regularities. In this vein, data was coded for
369 individual potentials expressed in CR terms as powers and liabilities. For example,
370 sharecroppers’ power to acquire production credit or lenders’ power to demand
371 repayment. The presence of these powers and liabilities, as CR makes clear, is not the
372 same as their activation, and they can be coded independently of their empirical effects
373 (or ‘consequences’ in Strauss’ paradigm). Powers can be activated or left inactive, or
374 they can be activated but not effected due to the presence of countervailing powers
375 (O’Mahoney and Vincent, 2014). CR’s emphasis on stratification and emergence
376 allowed building a picture of various complex chains of liabilities at various strata,
377 some of which were active and some whose activation or inactivity depended on yet
378 more sub-level mechanisms and contingent conditions. Alongside, data was further

379 coded for relations and structures in order to begin locating these common powers and
380 liabilities in the relational contexts from which they derived. Coding for these involved
381 comparing and connecting objects and practices, as well as the meanings attached to
382 them, in each case and across cases. Diagramming was a particularly useful here for
383 mapping relationships and connections and producing qualitative descriptions of these.

384 In sum, these steps led to a picture of the distribution of powers and liabilities among
385 different classes of actors involved in agriculture and pointed towards three distinct
386 structures into which sharecroppers were simultaneously inserted. The first was the
387 landlord-tenant structure, which underpins sharecropping as a system of agricultural
388 production; second was the farmer-supplier structure, which refers to relations between
389 farmers and private sector actors controlling access and distribution to farming inputs,
390 such as seeds and fertilisers; and the third was the farmer-processor structure which
391 sees landlord-tenant production incorporated into commodity chains that link producers
392 to consumers through agri-food processors and private storage bodies. These structures
393 connected and interpenetrated by means of material resource dependencies and flows,
394 and shared cognitive categories such as knowledge of who does what in production and
395 exchange and an understanding of farming's 'rules of the game'. In any situation, the
396 range of powers, liabilities and structures at play will be large, but the data indicated
397 these were most significant for explaining the empirical findings.

398 **Abduction and retroduction**

399 As indicated, abduction and retroduction in CR involve theoretically redescribing a
400 phenomenon of interest and identifying mechanisms that might account for it and how
401 they behave. By combining observation with theory through the data collection and
402 coding stages, I was able to gradually identify and narrow down the relevant core areas
403 of substantive theory and to redescribe the empirical findings in terms of that theory.

404 Subsequently, common experiences of suffering could be connected to these social
405 structures by means of these two general mechanisms which were active and were
406 depriving people, as labourers, of access to material and non-material objects for
407 satisfying needs.

408 In terms of the data's redescription, drawing on a CR conceptualisation of need allowed
409 redescrbing people's experiences of suffering as evidence of unmet need at the level
410 of the 'real', and which were both material and psychosocial in nature: namely, needs
411 for social-economic security, relatedness, esteem and self-worth and self-realisation
412 (Ramsay, 1992; 2004; Collier, 1987; Bhaskar, 2009; Jones, 2006; Sayer, 2004; 2011;
413 Assiter and Noonan, 2007). These could be captured because this conceptualisation
414 emphasises the difference between 'real' objective need as a trans-historical
415 phenomenon on the one hand and its empirical manifestation on the other, which is
416 socially and culturally shaped and historically situated (Ramsay, 1992). Had I drawn
417 on theories of need that eschew CR's notion of stratified reality, emphasis on the social
418 arrangements of causal interest would have been lost because data collection and
419 analysis would have gone in different directions: from a phenomenological account
420 detailing how needs are socially constructed among this group to a 'naïve empiricist'
421 account of needs expressed as 'wants', 'preferences' and 'demands' and a set of
422 characteristics impinging on participants' capacities to satisfy them through market
423 mechanisms. This naïve empiricism underpins mainstream 'residual' approaches to
424 poverty, and are unable to produce depth explanations of the kind this study sought
425 after.

426 Further, what had begun as a wider livelihood focus had become reorganised and
427 narrowed over the course of data collection and analysis towards an examination of the
428 class-centredness of unmet need among sharecropping farmers. Drawing on 'relational'

429 perspectives on poverty allowed theoretically redescribing sharecroppers and their
430 structural context using relational concepts of class, economic power, exploitation,
431 insecurity and so on. Sharecroppers were conceptualised as one of many “classes of
432 labour” (Bernstein, 2010, p.111) in the region, and each structure thought of as a distinct
433 method of wealth extraction in production and exchange: rent (landlord-tenant); interest
434 and debt (farmer-supplier), resource transfer (farmer-processor). The convergence of
435 these three methods in participants’ livelihoods led me to conclude that these
436 livelihoods were the basis of a general mechanism of exploitation, understood as the
437 appropriation of surplus labour from one group or class for the enrichment of another
438 (Byres, 2003). Through insights from the literature, these structures could be
439 historicised as part of a process of agrarian change in the region and linked to other
440 structures and processes at higher scales, such the wider system of generalised
441 commodity production and a policy context characterised by state withdrawal from the
442 sector (deregulation, limited investment, reduction in support for small farming) in
443 favour of fostering a more business-friendly environment.

444 As well as managing the flow of material resources, the structures were identified as
445 exposing their participants to sets of disciplines and compulsions which were setting
446 limitations to their autonomy, such as when they were required to forfeit decision-
447 making over planting, cultivate clientelist relationships with other actors, and
448 participate in exposing their households to structural risks as conditions for their
449 participation in agriculture. Through this redescription, I came to conclude that social
450 subjugation was a second possible mechanism that accompanied economic exploitation,
451 and which captured its non-material dimensions and would explain its psychosocial
452 consequences. Two regularly recurring complaints, “we are working for others” and

453 “we are being exploited” captured participants’ sense of this ‘social incarceration’ as
454 their declining autonomy over their work and lives and their diminished prospects.

455 Given that these structures were need-frustrating, what explained participants’
456 cooperation and conformity? The place of agency in this picture wards off a
457 deterministic approach of structure, and kept it consistent with CR approaches to
458 structure and agency which emphasise their iteration over time (Bhaskar, 1998; Archer,
459 1995). Cooperating and conforming was generally assured by the absence of alternative
460 livelihood opportunities, but it also indicated these structures were enabling as well as
461 constraining, as CR suggests. On the one hand, certain needs were unmet through
462 farming livelihoods, while on the other, seasonally renewing these relations, or
463 (re)acquiring the structural position of labourer, meant acquiring powers to pursue
464 money incomes for satisfying other basic needs, such as for food and clothing – even if
465 that level was considered unsatisfactory. In the absence of other mechanisms that could
466 mitigate the effects of exploitation and subjugation (such as social protection), agents
467 were acting in a context where needs were pitted against one another, while their
468 decisions and actions were contributing to the reproduction of these relations over time.
469 Though these trade-offs may only have been expressed at the level of practical
470 consciousness, for some participants they were reflexive and explicit. As one
471 sharecropper put it, “the farmer is a part of agriculture, firstly. He lives from agriculture.
472 His life is agriculture. He doesn’t have other options. If he doesn’t work and produce
473 he’ll die from hunger.” These trade-offs were consistent with findings from other
474 studies emphasising how the poor are often required to secure conditions for their
475 livelihoods at the price of dependency, autonomy, and “truncated ambitions of self-
476 improvement and advancement” (Wood, 2003, p.456).

477 **Concluding discussion**

478 How well has the approach served its purpose? The application of GT techniques
479 informed by CR succeeded in drawing out generative mechanisms that connected
480 unmet need and social class, with the explanation produced being one that has the
481 required level of causal depth. The approach was ultimately useful for moving from an
482 analysis of the empirical or ‘concrete’ experiences and realities through a mode of
483 inference and abstraction that permitted getting at the ‘real’ relations, structures and
484 mechanisms of causal interest, and illustrates the utility of GT for root cause analysis
485 and applied critical realism more generally. Some critical realists reject GT on the
486 grounds of its ‘naïve empiricism’, yet this study was able to harness more recent
487 developments in GT, namely the shift towards abduction and the possibility of handling
488 preconceived analytical categories to employ its techniques for producing a CR
489 explanation. The techniques are useful for applied CR qualitative research that involves
490 work with communities, and its value for this study is found in contributions made
491 towards supporting the re-emerging significance of class in rural poverty studies
492 (Campling et al., 2016) and providing an illustration for the largely normative
493 transitional justice literature of how one might go about developing new knowledge
494 about the structural sources of harm in transition societies.

495 That said, while the GT approach in this study recognised higher-level structures and
496 processes (e.g. generalised commodity production and state withdrawal), these were
497 not the primary objects of study and could not be examined with these techniques.
498 Examining these within the same project, if desirable, would have required additional
499 data gathering and analytical techniques since this local level data can tell us by itself
500 very little about what is going on at other scales, such as the way local dynamics are
501 shaped by the disciplining effects of international organisations on national economies

502 and governments or the way national economies have been incorporated into the world
503 economy. This should be kept in mind in future studies. The choice to keep the local in
504 the foreground while aiming for causal depth required making connections between
505 these findings (i.e. relations, structures and mechanisms) and higher-level processes
506 that had already been examined in the existing literature. The study's linking in this
507 way, Sayer (2010, p.168) suggests, is not ideal but acceptable since the multitude and
508 complexity of social structures means analyses may require "reference to things lying
509 beyond the boundaries of the object as originally defined and hence an expansion of an
510 already complex field of study."

511 Further, while the highly exploratory character of the GT approach was an asset in this
512 study, the techniques might be less useful to CR researchers who already have a strong
513 idea of the mechanisms and actors they want to examine in a concrete context, or who
514 have a large degree of familiarity with the community, field or topic area. Empirical
515 research informed by CR will always be exploratory to some extent, but in these cases
516 a less exploratory and more deductive research design might be more useful, and
517 alternative research methods employed accordingly (e.g. Chung, 2017). From this, I
518 want to suggest that the discussion move forward by considering the relation of GT to
519 applied CR as one of suitability for a particular research project, or exploratory
520 emphasis, as opposed to a purported incompatibility of their modes of inference.

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