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1 **Putting a price on planning? Reimagining planning as “market**  
2 **maker”**

3 **Abstract**

4 Planning has been widely vilified for the role it plays in disrupting the development process,  
5 hindering economic growth and creating the conditions for undersupply in housing markets  
6 characterised by unaffordability. In this paper we hope to show that the analyses that  
7 support this view of planning are incomplete because of the theoretical limitations of the  
8 neoclassical tradition from which they emerge. By way of alternative we posit an account of  
9 planning that draws upon game theory and behavioural economics to explore those aspects  
10 of the activity that serve to animate the development process. This interpretation of  
11 planning as a ‘market maker’ is explored through empirical case study research from three  
12 Continental European contexts where planning is charged with playing an economically  
13 active role to control liquidity.

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15 **Keywords:** urban/environmental planning, game theory, behavioural economics,  
16 development process.

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## 23 **Introduction**

24 The case for thinking of planning as a disruptive force, the principal effect of which is the  
25 creation of market distortions, has been made extensively (Nathan and Overman, 2011;  
26 Cheshire et al, 2014; Cheshire, 2014; Hilber and Vermeulen, 2016). In recent times this  
27 debate has been re-animated by an exchange between Overman (2014a, 2014b) and  
28 Haughton, Deas and Hincks (2014a, 2014b). The aggregate of these contributions (together  
29 with others in cognate literature) is that the costs of planning are real but greatly more  
30 amenable to measurement through a neoclassical understanding of the effects of regulation  
31 on real estate prices than the, equally acknowledged, benefits of planning. Indeed, if we  
32 were to respond in kind to the neoclassical impulse to measure the costs of planning with an  
33 account of how we collectively benefit from the activity we would need to disentangle a  
34 range of environmental and social variables. This in turn would entail engaging with the  
35 great academic controversies that ecosystem services accounting and social cost-benefit  
36 analyses serve primarily to define rather than conclusively end – questions such as, does the  
37 natural environment have a computable economic value and should urban policy  
38 investment decisions be made on the basis of forecast returns or continuing the struggle  
39 against inter-generational poverty?

40 Modesty dictates that we must be honest: it may be impossible to produce an econometric  
41 analysis that clearly establishes to a satisfactory degree of certainty precisely what we  
42 collectively get out of planning. The underlying problem is that many of the positive aspects  
43 that most accept are an outcome of the process of regulatory policy for land and property  
44 markets are matters for ethical debate and are not well accommodated by the framework  
45 of neoclassical economics. Nevertheless, because of this analytical mismatch the inaccurate

46 impression that planning is an activity that principally bears only costs has become close to  
47 an accepted wisdom amongst the political élite in nations such as Britain, and constructed  
48 into formulations to “get the planners off our backs” or overbearing, strained associations  
49 between planning and communism (Cameron, quoted in Kirkup, 2012; *Birmingham Post*,  
50 2010). Rarely have the political class been held to account for the selectivity with which  
51 they have used academic evidence. For example, Overman (2014a) explicitly acknowledges  
52 that planning supports social and environmental benefits and points out that he has  
53 debated whether the measured costs of the activity outweigh these benefits even with his  
54 closest collaborators. Moreover the same authors who are frequently cited favourably by  
55 politicians as justifying less planning have actually advocated a more powerful role for state  
56 agency in controlling land supply (Cheshire, Nathan and Overman, 2014). Yet, the  
57 complexity of the underlying problems that these observations imply has seemingly had  
58 little bearing on the political discourses that have been crafted in response to the academic  
59 literature.

60 To provide a corrective to this politicised interpretation of academic work, in this paper we  
61 turn to a different branch of economics: game theory. More specifically we do not seek to  
62 quantify the outcomes of planning decisions as these are clearly questions that relate as  
63 much, if not more, to ethics, culture and social cohesion as they do to the mechanics of  
64 economic analysis. Instead we look to the function performed by planning as an  
65 intermediary that provides *market making* services. This market making role is common in  
66 many markets even those that do not possess some of the peculiar complexities that  
67 characterise land and real estate. In the context of urban and environmental management  
68 the terms of what making markets’ might confer would be wider than in other areas, such

69 as securities exchanges, as real estate markets possess some complicating factors: land  
70 assembly prior to development may be inhibited by sites in multiple ownership,  
71 transformation of land into new buildings inevitably takes a sustained period of time and  
72 questions of public interest and local democracy are relevant to the final outcome.

73 In this paper we seek to explore how other nations have chosen to deal with these issues by  
74 empowering - not diminishing - their planning systems and re-imagining planning as an  
75 activity that is an active market participant, often a first mover or catalyst, in the  
76 development process. In order to investigate this we draw upon the analytical rubric  
77 provided by game theory to conceptualise the interactions that occur between planning and  
78 other market actors in the development process.

### 79 **Market stability, liquidity and the role of the ‘market maker’**

80 Fundamentally a market maker is a catalysing intermediary that exists to support market  
81 integrity. As an economic function it is most necessary in markets that are geographically  
82 diffuse, disembodied, characterised by large numbers of transactions or in which there are  
83 systemic obstacles to transactions taking place easily. Although initially coined to describe a  
84 range of functions provided by intermediaries on financial exchanges the expression is now  
85 used much more widely to describe any set of circumstances that requires a third party to  
86 animate a market. As a result the literature on online markets (Kim and Ahn, 2006);  
87 business-to-business transactions (Klein and Quelch, 1997), new product development  
88 (Teichart, von Wartburg and Braterman, 2006) and the development of retail (Godley and  
89 Casson, 2015; Hamilton, Petrovic and Senauer, 2011) all make use of the expression “market  
90 maker” to describe the, often complicated, processes by which markets become established  
91 and remain functional over time.

92 Critically, the suite of activities that comprise market making can be wide ranging. For  
93 example, in the financial services industry where the term was born, the role of a market  
94 maker is usually defined as twofold: firstly, to take positions in assets (equities,  
95 commodities, currencies, derivatives) that correspondingly allows the market maker to  
96 control liquidity through acting as an intermediary between buyers and sellers; secondly, to  
97 provide a stabilising influence that guarantees 'fair dealing' through the establishment of  
98 transparent pricing. Research has shown the value of these two related activities to be  
99 potentially significant (Garbade and Silber, 1979; Grossman and Miller, 1988; Venkataraman  
100 and Waisburd, 2007). Indeed, it has been shown that beyond the activity of providing  
101 liquidity and determining pricing the role of the market maker has additional behavioural  
102 effects on market 'quality'. That is, the presence of a market maker itself may support the  
103 confidence necessary to facilitate trade and even potentially erode perceived barriers to  
104 entry (Venkataraman and Waisburd, 2007).

105 As the term has garnered greater currency and been applied to a wider range of market  
106 conditions the practical roles and functions that market makers might fulfil have grown. To  
107 some extent differences in practice are a reflection of context and depend to a large extent  
108 upon the specific nature of the markets in question, customs and regulatory environment,  
109 prompting some to begin new work on the behavioural typologies of market makers and the  
110 corresponding character of the markets they make (for example, Zhu et al., 2009). As a  
111 result the strength of market makers' position and their stabilising influence may vary giving  
112 rise to different market characteristics in each case. More research on the behavioural  
113 economics of market making activities is needed to explore these questions more fully  
114 across the board. Nevertheless this association between the character of the system under

115 which markets are made and the outcomes that follow is worth emphasising as it potentially  
116 has explanatory value for other areas where markets might require some form of 'making'.

117 The central contention of this paper is that there may be good grounds for thinking of land  
118 and property as one such market. To return to the earlier definition of the basic functions a  
119 market maker provides (and under what circumstances) - the control of liquidity and the  
120 guarantor of fair dealing – there are clear parallels between market makers in other spheres  
121 and the role planning plays in many contexts, as custodian of liquidity (in the form of the  
122 land supply) and as a regulatory body that evenly applies the rule book of planning law.  
123 Moreover, as real estate is a product created at the confluence of state-civil-market  
124 relations the systemic obstacles this presents to a straightforward matching of buyers and  
125 sellers further points to the necessity for a market making intermediary. As the agency that  
126 controls market liquidity, effectively animates the development process and, as a result, has  
127 a material effect on market stability and pricing there are good grounds to think of planning  
128 as a form of market maker for land and real estate: a quite different interpretation of the  
129 activity to that which pervades the understanding of planning as a solely regulatory brake  
130 on development amongst, for example, UK policy makers.

131 Moreover, similar to the contextual differences that might give character to, for example,  
132 various countries' securities exchanges so too the terms under which planning is charged  
133 with catalysing development might provide qualitative clues to variations in how nations  
134 administer development and, ultimately, the character of the built environments that  
135 follow.

136 **The research: methods and concepts**

137 Exploring this conjecture means confronting questions that are perennial in planning. For  
138 example, adherents to the New Institutional Economics have long sought to explore what  
139 planning might be said to achieve through a transaction cost framework (for example, Lai  
140 and Lorne, 2015). For others the set of activities collected together under the banner  
141 'market making' might be said to have been fulsomely described in the empirical literature  
142 on the correction of market failures, for example, through the US programme of Urban  
143 Renewal (Rapkin, 1980).

144

145 Building on this literature developments in game theory, and the emergence of the related  
146 behavioural economics, have presented clear challenges to the fundamental psychological  
147 assumptions of rational, self-interested decision making that underpin the neoclassical  
148 paradigm (Samsom, 2015). As such this developing field seeks to understand the reasoning,  
149 heuristics, emotion and, sometimes, irrationality that explains the range of decisions we  
150 make in a wide array of economic settings. Academic work in this area has been  
151 successfully translated into popular accounts that have gone on to become bestsellers  
152 (Levitt and Dubner, 2007, 2010; Harford, 2007, 2014). Often the underlying economic  
153 questions asked, particularly in an empirical sense, speak directly to and build upon  
154 principles from game theory such as attitudes to risk, loss aversion and first mover  
155 problems/advantages.

156 From this point of view there are points of tangency between this branch of economics and  
157 aspects of the New Institutional Economics (bounded rationality, a focus on formal and  
158 informal codes of practice as 'rules of the game'). However, the microeconomics of  
159 psychology that permeate game theory and behavioural economics provide a clearly

160 defined focus on human practices irrespective of their origins, or otherwise, within an  
161 institutional framework. That is, NIE and game theory share an interest in the role played by  
162 institutions in animating markets (e.g. Bromley, 2014; Bromley and Hiedanpää, 2016) but for  
163 game theorists (and behavioural economists) much greater focus is placed on the micro-  
164 agential role played by individual actors in shaping and determining the character of the  
165 institutions, both formal and informal, that people them. Approaching planning in this way  
166 entails thinking of it less as a noun and more as a verb: not an institution or framework but a  
167 peopled activity that involves multiple participants that may each deploy separate strategies  
168 in relation to one another. It is also not an activity that pertains only to those areas where  
169 there is some evidence of market failure. The interactions that underpin market  
170 transactions in real estate markets are equally relevant in prosperous locations  
171 characterised by high demand. Every instance of market transaction, irrespective of  
172 context, is a new round of the planning game (Lord, 2012).

173 The implied research agenda is enormous and with respect to planning is in its nascent stage  
174 (Adams and Tiesdell, 2010; Ferrari et al., 2011; Samsura et al., 2015). In this contribution we  
175 aim to focus on just one aspect of what this agenda might entail – varying approaches to the  
176 market making activity of managing liquidity in land supply. To do this we take a cue from  
177 others (for example, Annand and Lea, 2011; Gordon 2011; Piore, 2006) in applying concepts  
178 from game theory to inform a qualitative empirical investigation of systemic behavioural  
179 differences in how the activity of planning is animated in different contexts.

180 In choosing case studies we were interested to explore a range of governmental settings  
181 where planning is explicitly charged with playing an economically-active role. As the  
182 research was funded under the Royal Town Planning Institute's SPIREe (Small Project Impact

183 Research) programme this objective was balanced against a desire to explore these  
184 questions within the context of Britain's nearest neighbours. The desirability of this near  
185 European focus was reinforced by academic calls, such as Adams and Watkins' (2014)  
186 invocation, for research to parse European experiences of new forms of planning practice  
187 that seek to actively animate development.

188 Following a thorough literature review of planning reform in continental Europe (for  
189 instance, Colomb, 2007; Hong and Needham, 2007; NAO, 2007; PRP, URBED and Design for  
190 Homes, 2008; Oxley et al, 2009; Helbrecht and Dirksmeier, 2012; Hall, 2014; Falk, 2014)  
191 three cases were selected as representing city-based case studies of how planning might  
192 play an economically active role in managing liquidity to catalyse development: the coalition  
193 of actors that have cooperated on multiple urban projects in Lille and its neighbouring  
194 towns and cities in the Nord-pas-de-Calais-Picardie region of France; the use of a form of  
195 public land development that prioritises strategic bargaining with private actors in  
196 Hamburg's HafenCity development; and the introduction of urban land readjustment  
197 policies in the Netherlands following the historic use of the Dutch public land development  
198 model.

199 The project ran from March-November 2015. As we were seeking to gain a qualitative  
200 impression of differences in real world approaches to controlling land supply the data  
201 produced to inform the research was generated by semi-structured interviews carried out  
202 with key individuals in each case study area. In addition relevant documents for each case  
203 study were reviewed.

204 The objective in data collection was to explore the range of market making activities that  
205 are entailed by planning's control of liquidity as a conduit to catalysing development.

206 Because the markets through which new real estate is produced have specific peculiarities  
207 the act of controlling liquidity in the development process is overlaid with questions of  
208 sequencing, consensus building and coalition formation. As a result, in conceptual terms  
209 the range of activities that this implies are best treated through the language of game  
210 theory which explicitly take the dynamics of counterparty interactions as its principal focus  
211 (see, Samsura, van der Krabben and van Deeman, 2010; Lord, 2012). To facilitate exchange  
212 between this body of economic thought and the specific question of how planning as an  
213 economic agent acts to manage liquidity in the development process we can point to three  
214 key concepts from game theory that have clear explanatory resonance with respect to the  
215 act of making real estate markets: ‘first mover’ problems; coalition games and attitude to  
216 risk.

## 217 **Developing the game theoretic understanding of planning practice**

### 218 *i. First mover problems*

219 Because urban development is so fundamentally dependent upon the *sequential*  
220 coordination of multiple stakeholders, controlling liquidity in the land supply comprises  
221 aspects of a collective action problem that have a peculiarly temporal aspect (Cadman and  
222 Austin Crowe, 1978; Goodchild and Munton, 1985; Gurrán and Phibbs, 2013; Meen et al.,  
223 2016). Even in circumstances where every stakeholder could reasonably expect to stand to  
224 gain from (re)development, delay is often caused by the question of which party should  
225 bear the risk of acting first. This issue is particularly acute where the actions of the first  
226 mover will confer material benefits on second (and subsequent) movers: such as where  
227 remediation work by one landowner benefits a neighbour. The corresponding systemic  
228 delay that is the hallmark of some planning systems is, therefore, perhaps best understood

229 as a collective action stand-off with a sequential dynamic. This 'failure to launch', in which  
230 the cooperation of multiple actors is necessary in order to achieve a particular end, is a long-  
231 acknowledged phenomenon (Olson, 1965). However, how this question might be recast as  
232 a first-mover problem complete with a deeper appreciation of the behavioural  
233 characteristics of the development process has not so far been clearly adumbrated.

234 At base the problem is one of mutual trust versus the fear of free riding. For the strategic  
235 alignment of interests and the development of mutual trust to emerge the latent  
236 uncertainty that each party holds as to each others' position must be reduced to a point  
237 where one participant is sufficiently emboldened to 'nudge' the market into life. For some  
238 post-positivist planning theorists this might be best achieved through disclosure and open  
239 dialogue - although others have questioned the degree to which private developers would  
240 be willing to share commercially sensitive information, or how we would ever know if the  
241 revealed position was genuine or strategic (Bengs, 2005; Tewdwr-Jones and Allmendinger,  
242 1998).

243 So, how might the first mover obstacle to land release be overcome? One possible  
244 approach is to acknowledge that land and real estate markets are peculiar and demand  
245 overt public-private cooperation (Mazzucato, 2013); namely, a state agency that in its  
246 regulatory capacity also performs open market operations to instigate a chain of action in  
247 the other actors in the development process. This may take many forms. For example, the  
248 first move may be the creation of a state or quasi-state institution that acts as a coordinator  
249 of the development process, thus providing confidence to investors and raising levels of  
250 trust between market actors – the equivalent of the 'market quality' said to arise in other  
251 areas as a function of the presence of a market maker. Alternatively, the state may institute

252 a regulatory framework (or a moderated local version such as through an enterprise zone)  
253 that uses incentives and penalties to engineer a desired response from the development  
254 industry. Finally, it may be that where the problem of coordination seems intractable a  
255 third party – possibly the state acting directly as investor – may demonstrate its  
256 commitment to redevelopment by itself acting as first mover to facilitate wider market  
257 participation subsequently.

258 Empirical examples of all three forms of open market activities by planners through planning  
259 systems designed with this end in mind can be found in each of the cases. The example  
260 provided by the polycentric city region surrounding Lille, led by its city regional governance  
261 body, the Métropole Européenne de Lille (MEL), serves well to illustrate the first of the three  
262 alternative first moves outlined above. Whilst the MEL has taken a multifaceted approach  
263 to the city-region's regeneration (Colomb, 2007; Hall, 2014) over a sustained period of time  
264 the vast majority of its activities have necessitated coordination across a fragmented  
265 geography comprising 85 communes. Perhaps the best specific example of this has been  
266 the development of the *Euralille* office and retail development that connects Lille's principal  
267 rail station with the city centre.

268 The rationale behind the *Euralille* development was that the construction of a high-speed  
269 rail station through which trains would pass *en route* from London and Paris to Brussels  
270 would provide Lille with an opportunity to attract new investment and employers to the  
271 city. However, at its outset the project was slow to commence. A reluctance on the part of  
272 the private development industry, which had largely abandoned Lille in favour of more  
273 readily profitable locations elsewhere in France, to invest in *Euralille* stalled the  
274 commencement of the redevelopment project.

275 In response a *Société d'Economie Mixte* (SEM) was established, a temporary public sector-  
276 led, majority public sector-owned, public-private limited company which was used to raise  
277 debt finance at lower interest rates than would be available to private investors. This in  
278 turn facilitated a first move on behalf of the SEM in the shape of land assembly and  
279 remediation. Colomb (2007: 37) describes this strategy as one that 'mobilised energy from  
280 various stakeholders (public, private) and changed the external image of the city'. Stated  
281 alternatively it was a first move that was essential to 'unlock' the *Euralille* site for  
282 development. Private investment followed in an approach that has been replicated in other  
283 French cities using similar models, such as the *Établissement Public Foncier* (Dupont, 2011).

284 A more aggressive form of planning acting as first mover can be observed in relation to the  
285 public land development model used in the Netherlands since the 1940s under which  
286 municipalities acquired land at pre-planning permission cost before fully servicing it with  
287 roads and other public infrastructure, dividing it into parcels and selling these on to private  
288 developers with specified development rights. This 'public top-down comprehensive model'  
289 of development (Van der Krabben and Jacobs, 2013) facilitated the uplift in price that results  
290 from the award of planning permission to be taken as profit by the municipalities as  
291 compensation for acting as first mover. An additional and enduring advantage of the public  
292 land development model was that, by making the first move in the development process,  
293 the municipality was in a strong position to shape the nature of development that followed.  
294 Evidence from our research would suggest that this usually took the un-priced form of  
295 directing the behaviour of private developers towards the achievement of public policy  
296 goals, such as the linking of new development to existing infrastructure and services and, up  
297 until a 2008 change in law, the provision of social housing. One interviewee pointed to the

298 leverage that acting as first mover accorded to the state in shaping the behaviour of the  
299 development industry that moved next:

300 'One reason, under the old planning law, that the public sector wanted to  
301 interfere in the land market, was that they wanted to guarantee sufficient land  
302 for social housing, and by owning the land they could choose who to sell it to so  
303 they could guarantee social housing,' (Dutch urban planning university  
304 department interview, 2015)

305 The ability to encourage social outcomes as a result of bearing the risk of being the first  
306 mover is echoed by other evidence that supports the view that public land development  
307 model allowed municipalities to play an active role in rebalancing real estate markets  
308 through cross-subsidising development in locations less favourable to private investment.  
309 By using proceeds realised in locations more desirable to the development industry  
310 interviewees pointed to the potential for municipalities to use these proceeds to again act  
311 as first mover in neighbourhoods less immediately attractive to developers (Dutch urban  
312 planning university department interview, 2015; Dutch Land Registry interview, 2015).  
313 These features have prompted interest in the potential of this approach where the state  
314 takes on first mover responsibilities to animate the development process in the UK  
315 (Cheshire et al, 2014).

316 The public land development approach to controlling liquidity was clearly characterised by a  
317 highly interventionist approach for the state. Large scale development could be hastened  
318 by the fact that planning was backed by the state to bear all the risk of being first mover.  
319 Correspondingly this had the advantage of meaning that liquidity could be controlled and  
320 the subsequent behaviour of the development industry could be very significantly shaped.

321 However, the disadvantages of this approach are that releasing large amounts of land very  
322 rapidly may have compounded the price shock to the Dutch real estate market following the  
323 financial crisis of 2008 onwards. The best example of this is the national programme of  
324 housing growth, the VINEX (*Vierdpublic e Nota Ruimtelijke Ordening Extra*), a huge  
325 programme of land release operating under the terms of the public land development  
326 model. Interviewees suggested that the negative price effects experienced by this  
327 programme were a result of the macro shock to the Dutch economy in 2008 exacerbated by  
328 a very rapid release of liquidity.

329 A highly active and risk taking state may also have prompted an unexpected/unwanted  
330 behavioural change in the Dutch development industry. Some interviewees pointed out  
331 that the longevity of the Public Land Development model had resulted in Dutch developers  
332 becoming accustomed to a low-risk business model where they could rely on planning to act  
333 as first mover and bear, what some might think should be, the risks that are the counterpart  
334 to the rewards associated with entrepreneurship.

335 Appetite for the public land development model diminished in the period following the 2008  
336 global financial crisis as many Dutch municipalities were left in financial difficulties due in  
337 large measure to outstanding debts with the *Bank Nederlandse Gemeenten*, the national  
338 bank specialising in lending to public sector organisations to finance public land  
339 development. In the immediate aftermath of these events whilst the public land  
340 development model remains available for use in the Netherlands its association with public  
341 sector indebtedness has led to a search for new ways of disentangling the knotted problem  
342 of controlling land release through overcoming first mover problems in the development  
343 process.

344 In the Netherlands the principal response to this question has been an exploration of urban  
345 land readjustment – an approach that has been previously employed in a number of  
346 international contexts, including Germany, Spain, Australia and Japan, and has been  
347 endorsed by the World Bank since the 1970s (Doebele, 2007), while the analogous ‘urban  
348 partnership zone’ has been proposed for use in the UK context (Adams et al, 2001).

349 The essential objective of urban land readjustment is to manage liquidity where a coherent  
350 site is held in multiple ownership. Often such sites are sub-divided in such a way as to make  
351 wholesale redevelopment implausible. Under urban land readjustment a temporary pooling  
352 of land holdings is followed by reconfiguration and servicing of the site into a layout more  
353 conducive to development/redevelopment through the planning system before the now  
354 more valuable plots are released to market. It is, therefore, an approach well-suited for use  
355 in cases where “the boundaries of the rights to land ownership or land use may impede the  
356 desired use of the area as a whole” (Needham, 2007: 115). At root, urban land  
357 readjustment is fundamentally concerned with governing liquidity by overcoming the first  
358 mover problem through the alignment of multiple strategic interests towards a common  
359 goal, avoiding the necessity of there being a single investor willing to bear all the risk of  
360 negotiating the acquisition of multiple plots of land on a case-by-case basis, or of the often  
361 disruptive, drawn-out and complex process of compulsory purchase in the case of public  
362 sector development agencies.

363 So conceived urban land readjustment offers a solution to the governance of liquidity by  
364 pooling the risks and rewards of development across landowners, developers and planning.  
365 As such it speaks to either or both of the two forms of first move described at the beginning  
366 of this section - the establishment of a common institution to raise levels of mutual trust

367 and the use of a regulatory framework to incentivise cooperative action. In the case of the  
368 former, urban land readjustment may proceed by the pooling of land and property rights  
369 into a jointly or publically owned development agency that re-parcels and redevelops the  
370 site according to the prior agreement of property owners. In the case of the latter, urban  
371 land readjustment may proceed from the simple legal guarantee of land and property rights  
372 throughout the course of the redevelopment, ensuring that the readjustment process can  
373 continue to completion. In both models planning plays an important market marking role,  
374 'collecting all the signals from the different owners and [saying] there's scope for  
375 redevelopment by urban land readjustment there' (Dutch Land Registry interview, 2015). In  
376 various circumstances either approach may be an essential precursor to the effective  
377 release of new sites for development; although it is the latter approach that has been  
378 selected as the basis of an on-going pilot project in the Netherlands, where there is a  
379 preference, post-VINEX, for planning to be more behaviourally risk-averse.

#### 380 *ii. Coalition formation*

381 As noted above planning's market making role as frequently entails the establishment of  
382 multi-agent cooperation. These coalitions of interest often first emerge as a solution to the  
383 first mover problem. However, because the development process can be protracted the  
384 stability of these coalitions of actors over a sustained period of time is necessary to  
385 guarantee that initial land release is ultimately translated into new development. Where  
386 agents are engaged in a constant shifting of allegiances, collective solutions are highly  
387 improbable. All these observations point to the pivotal role planning can play in providing a  
388 strong framework for the establishment and stability of coalitions necessary to guarantee  
389 land release and subsequent development.

390 One such way in which planning can seek to engineer coalition formation and stability is  
391 through behavioural prompts. All other things being equal, cooperative game theory would  
392 suggest that coalition stability is a function of the relative payoff to coalition members: the  
393 accrual to each member must be sufficient to ensure their commitment to the wider cause  
394 (Chakravarty, Mitra and Sarkarr, 2015; see essays in Roth, 1988). For the market maker  
395 there is, therefore, a need to consider the use of incentives and penalties (or threats of  
396 penalties) to encourage collaborative/cooperative behaviour across the coalition as a whole.  
397 The range of questions that are logically entailed by these predictions of theory include who  
398 is likely to partner with whom; how stable are the coalitions that might emerge; how might  
399 'fair shares' be agreed upon between coalition members; and what effect will coalition  
400 dynamics have on the specific character of the development that follows?

401 Our research in Continental Europe points to a wide variety of experiences with respect to  
402 these questions of coalition formation and stability. Coalitions of different forms operating  
403 over different timescales and devised to meet different ends within the development  
404 process were found in each of the case studies.

405 In Hamburg the establishment of a state owned development company, 'HafenCity  
406 Hamburg GmbH' (at the time known as *Gesellschaft für Hafens- und Standortentwicklung*,  
407 GHS), to oversee the redevelopment of the city's old docklands has proved essential to  
408 coordinating the activities of a coalition of interests. The breadth of this coalition has been  
409 systematically inscribed into the redevelopment of the area as a whole due to the way in  
410 which the development corporation has controlled liquidity through an allocation  
411 mechanism that fosters coalition formation and stability. Under a policy of 'spatial  
412 segmentation' the HafenCity area was sub-divided into a large number of relatively small

413 plots with the corresponding stipulation that any developer was entitled to purchase just  
414 one plot. This has given rise to a tightly controlled 'drip release' of developable sites and a  
415 very large coalition of developers, each relatively powerless as an individual relative to the  
416 wider set. The internal dynamic of the coalition is also important. By associating control of  
417 liquidity with a group dynamic there are important behavioural cues given to the engaged  
418 developers who are simultaneously collaborating with the development corporation on the  
419 wider vision for the area as a whole and, through a process of competitive tendering in  
420 which design criteria are strongly weighted, competing with each other for the right to  
421 develop a single site (see for fuller details, Lord et al., 2015). This approach to  
422 redevelopment echoes aspects of other market making activities where assets are bundled  
423 and/or repackaged (Mantovani, 2013) and contrasts sharply with the approach to  
424 controlling liquidity in real estate markets prevalent in other contexts, such as the UK,  
425 where large sites are typically released whole and usually developed solely by one,  
426 consequently quite powerful, volume developer.

427 A coalition of a different type can be found in the *Métropole Européenne de Lille* (MEL), a  
428 good example of what Lefèvre (2008) terms the inter-municipal joint authorities model, in  
429 which an indirectly elected board administers a cooperative grouping of local authorities  
430 that have collectively transferred some important responsibilities over policy and spending  
431 to a city-regional scale umbrella authority. This joint body has existed since 1967 before  
432 undergoing additions and name changes over the following decades until the incorporation  
433 of the coalition as a *Communautés Urbaine* in 1996 and since January 1<sup>st</sup> 2015 as the  
434 *Métropole Européenne de Lille* (MEL).

435 By the turn of the 2000s the *Communauté Urbaine* had engineered a consensus across the  
436 larger communes that comprise the Lille city-region founded on two principles. Firstly, the  
437 economic success of the city region as a whole was established as depending on policy  
438 markers' ability to establish Lille as an attractive location for internationally footloose  
439 service and knowledge-based industries> Secondly, for such a strategy to work, the social  
440 and economic prospects of the less affluent communes, most notably Roubaix and  
441 Tourcoing, had to be addressed (Hall, 2014). However, crucially, in order to access funds  
442 controlled by the city regional authority, projects had to be collectively agreed by the  
443 leaders of the four largest communes, Lille, Roubaix, Tourcoing and Villeneuve d'Ascq.

444 The sort of cooperation engineered in the MEL can best be understood as a long-term  
445 governance coalition, the stability of which has been dependent upon the relative payoffs to  
446 each member being sufficient to maintain their commitment to the wider group.  
447 Cooperative game theory offers an avenue to understanding the integrity of a 'grand  
448 coalition' such as that described across Greater Lille, using the concept of 'superadditivity':  
449 the notion that the stability of the coalition is dependent upon each coalition member  
450 perceiving that their interests are better served inside the coalition than by acting alone.

451 In game theory this concept is codified through the identification of what constitutes 'fair  
452 shares' within such a coalition. The 'Shapley value', (Shapley, 1953; see also Roth, 1988),  
453 offers the most widely accepted way of calculating what division of resources is sufficient to  
454 maintain coalition stability. The Shapley value is defined as the marginal contribution of  
455 each agent to the value obtained by the grand coalition of agents. With regard to its  
456 practical applicability, the Shapley value has been used to model voting patterns in  
457 committees, where voter coalitions are formed (Straffin, 1977), a useful point of congruence

458 with planning of the form practiced in Greater Lille, in which decision-making is systemically  
459 designed to be cooperative.

460 The outcomes of such an approach to organising urban (re)development on the basis of  
461 mutually agreed investment was spelt out by one interviewee:

462 'There are still some fields in which solidarity can play a part, typically for  
463 renovation for derelict housing and things like that. There's a need for some kind  
464 of public support ... the idea that there should be some solidarity between the  
465 slightly richer city of Lille and Roubaix and Tourcoing has always been accepted'  
466 (Lille urban planning department interview, 2015).

467 This echoes some of the findings set out in the previous section regarding the use of the  
468 public land development model in the Netherlands to encourage a spatial  
469 rebalancing/redistribution of development activity towards less affluent areas. Further  
470 research could potentially explore the degree to which coalition stability in urban  
471 development is, as the Shapley Value would suggest, dependent upon a perceived  
472 association between a member's contribution and reward or whether other behavioural  
473 characteristics – such as altruism or threats and penalties – explain coalition stability.

#### 474 *iii. Distribution of risk*

475 The previous two sections have illustrated the inextricable connections between the initial  
476 release of land and the subsequent orchestration of development through multi-agent  
477 coalitions. The behavioural character of the coalitions that follow are, however, likely to be  
478 shaped by the distribution of risk and rewards. As Ratcliffe et al (2009: 421) note, "risk is  
479 the very business of property development, and uncertainty the prevailing climate within

480 which development takes place". Risk is, therefore, a key determinant of the behavioural  
481 traits that serve to define the development process in any given setting.

482 In game theory individual attitudes to risk are codified through the derivation of a utility  
483 function that delineates a spectrum from the extremes of risk aversion to risk loving.  
484 However, it is important to note that the attitude of the individual to risk is hugely  
485 dependent upon the specific nature of the economic decision they are confronted with,  
486 particularly the asset under consideration and the period over which the individual has to  
487 think about how strongly they value that asset. An overall measure of the degree of risk  
488 aversion one takes into general economic decision making is very likely to be quite different  
489 to a specific case where one must contemplate, say, the question of a decision that carries a  
490 legal precedent that might have decades-long implications.

491 This issue of risk aversion is so significant in relation to planning and real estate markets  
492 because investments in the built environment are characterised by behavioural traits that  
493 are peculiar to this specific sector of the economy. For example, planning decisions that  
494 involve a significant stimulus to land supply fundamentally entail landscape altering effects  
495 that bear a decades-long (or longer) shadow. As a result the nature of the decision making  
496 environment may make risk aversion and protracted consideration of development  
497 proposals much more likely. In the language of behavioural economics this speaks to the  
498 propensity for 'status-quo bias' (for example, Samuelson and Zeckhauser, 1988) – and  
499 therefore a potential reluctance on the part of planning to release land for development.  
500 More widely in neighbourhoods characterised by capital flight and property market  
501 deterioration it may be the case that re-establishing a market requires the state to actively  
502 counter risk aversion in the private development industry.

503 In behavioural terms this points to an analytical paradox: planning's market making role is  
504 one that entails/necessitates an appetite for risk, but the character of the underlying asset it  
505 controls in the development process, land and the natural environment, might be expected  
506 to encourage risk-averse decision making. From this perspective the distribution of risk  
507 across a development coalition is perhaps the fundamental determinant of the behavioural  
508 character of the ensuing development process.

509 Our research points to very different behavioural outcomes as a function of the distribution  
510 of risk. In a city region adversely affected by deindustrialisation, urban development  
511 projects on the scale of *Euralille* and others initiated in metropolitan Lille since the early  
512 1990s could not have occurred had it not been for the kind of mutually-agreed, sustained  
513 public investment programme set in train by the coalition of interests outlined in the  
514 previous section. A major role played by the MEL has been to assume a significant  
515 proportion of the risk associated with urban redevelopment across the conurbation.  
516 *Euralille* demonstrates the benefits that can accrue from such risk-taking, as the  
517 development has been successful in the long-term both in its own terms and in helping to  
518 kick-start further regeneration in the wider city region. Conversely the collapse of real  
519 estate values in the Netherlands following the 2008 global financial crisis has revealed the  
520 dangers with models, such as the Dutch public land development approach, that  
521 systemically places much of the upfront risk on publically funded planning. It is this  
522 experience that has prompted a reappraisal of Dutch municipalities' desire to share too  
523 great a proportion of the burden of upfront risk and has resulted in the exploration of  
524 different models, such as urban land readjustment, that share risk more evenly among all  
525 counterparties according to their initial landholdings, investment and potential payoff.

526 The previous public land development model was premised on markets being made by a  
527 stimulus to supply in the shape of a first move by an emboldened and risk-taking form of  
528 planning. This behaviour then prompted the establishment of development coalitions, the  
529 stability of which was aided by the fact that they were able to effectively under-share in the  
530 risks of development (as these were disproportionately assumed by planning) and  
531 potentially over-share in the rewards at the conclusion of the process. To use the language  
532 of game theory the marginal return to developers' membership of the coalition exceeded  
533 their marginal contribution and so the concept of the Shapley Value would suggest coalition  
534 stability and, correspondingly, market liquidity followed by relatively rapid development.  
535 Undertaking this approach at a very large scale (such as through the VINEX programme)  
536 resulted in rapid land release that may have exacerbated the worst effects of the financial  
537 crisis on Dutch housing markets post-2008. The subsequent search for methods that share  
538 risk more evenly between public and private sectors, such as urban land development, have  
539 been spawned by a desire for a less definitive first move by planning and a generally more  
540 chastened approach to making the market for urban development. By extension, for this  
541 approach to work will require a behavioural shift from a Dutch development industry that  
542 had become accustomed to the favourable terms of the public land development approach.

543 This remarkable shift in the behaviours that explain changes in how the Dutch development  
544 process is animated begins with the question of how market liquidity is handled but  
545 necessitates a more fulsome account of dependent issues pertaining to the relationship  
546 between other participants in the process.

547 These empirical observations on how such markets are made in the Netherlands contrasts  
548 sharply with the experiences of other contexts. For example, whilst HafenCity GmbH has

549 also borne the majority of the first mover development risk by acting as the coordinating  
550 agency and installing the requisite infrastructure for the area in its entirety it has also strictly  
551 controlled liquidity very strictly. By sub-dividing the area into a relatively large number of  
552 smaller plots and allocating these plots competitively within a broader development  
553 coalition the redevelopment area as a whole has generally proven quite resilient to the risk  
554 of external shocks: commercial vacancy rates are low and rates of construction completions  
555 are high (HafenCity development agency interview, 2015).

556 By contrast where the question of liquidity (and attendant issues) is less carefully  
557 considered deadlock can prevail. Game theory would suggest that behavioural stasis is  
558 most likely to characterise those situations where no party is sufficiently empowered to  
559 make a first move. In the development process this outcome might be most expected in  
560 circumstances where planning is confined to a wholly regulatory function and/or where a  
561 single agency, such as a volume house builder, as is often the case in the UK, must bear all  
562 the risk associated with assembling and building out a large site. Exploring the potential for  
563 planning to act as a market maker that manages liquidity through a distributed model of risk  
564 sharing might help avoid the lengthy lead times, delays and disruptions that seem to  
565 routinely afflict even flagship developments in the UK – for example, the standoff between  
566 developer and local/national state such as was reported at the new Garden City in  
567 Ebbsfleet (Linney, 2015).

568

569 **Conclusion**

570 We began this paper by acknowledging that urban and environmental planning can create  
571 market distortions. In conceding this point we merely accept that making real estate  
572 markets is complex and turns on managing liquidity within the context of sustained multi-  
573 agency cooperation and competition. More widely, our aim in this paper was to show that  
574 planning can play a (varied) range of fundamentally important roles in this regard; roles that  
575 are barely acknowledged in the political campaign against it. The experiences of other  
576 countries – the UK’s nearest Continental neighbours – where planning is effectively charged  
577 with controlling liquidity through market making practices.

578 Conceiving of planning as occupying this wider position of animating development means  
579 taking a similarly broader framework than the limiting uni-equilibria approach offered by  
580 neoclassical economics to understand its impacts. Market making is an activity that may be  
581 best thought of as context and transaction specific. The range of experiences from near  
582 Continental Europe outlined in this paper show that planning can catalyse development in  
583 multiple ways using a variety of instruments and with remarkably different ends. The  
584 behaviour of participants in each setting will be an outcome of the terms set by the legal  
585 system within which transactions take place and the individual strategies deployed by  
586 market participants themselves. In this sense the behavioural aspects of planning and the  
587 real estate markets bear important similarities to other market contexts. As Madhavan and  
588 Sofianos (1998) point out about such markets for financial instruments, “although specialists  
589 play an important role in price formation, we still know relatively little about their behaviour  
590 and its consequences”. It is argued here that we know less still about the range of  
591 behaviours that underpin the markets that make cities, particularly when we own that  
592 markets for urban (re)development are highly contextually variegated. The actions of

593 planners seeking to stimulate development in a setting characterised by population loss and  
594 market decline will inevitably be quite different to those seeking to accommodate  
595 development in a sensitive and sustainable fashion in a growth area. Yet both demand a  
596 role for the state, usually through planning, to make these markets work.

597 From this perspective calls for deregulation from the development industry, the political  
598 right and neoclassical analysts are one, but not the only, option for systemic reform. The  
599 lessons from this paper allow us to conceive of various alternatives including variations on a  
600 more economically active planning profession that may adopt a variety of different  
601 approaches to manage liquidity, unlock development and shape it constructively. For  
602 academics the post-hoc analysis of this form of planning will mean mirroring developments  
603 in mainstream economics, specifically a move away from neoclassical analysis and a much  
604 fuller engagement with the psychology of economic decision making *vis a vis* planning.  
605 There is evidence that this work is beginning in cognate attempts to understand the  
606 psychology and emotions that shape planning decisions (for example, Baum, 2015).  
607 Framing planning questions in this way also opens up the possibility that academics might  
608 have a role in shaping the future of planning systems through further research aimed at  
609 developing a more fine-grained understanding of the behavioural economics of planning  
610 practice.

611

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