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To cite this article: Cameron Tonkinwise (2015) Design for Transitions – from and to what?, Design Philosophy Papers, 13:1, 85-92, DOI: 10.1080/14487136.2015.1085686

To link to this article: http://dx.doi.org/10.1080/14487136.2015.1085686

Published online: 14 Jan 2016.

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Design for Transitions – from and to what?

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ABSTRACT
As part of its attempt to resituate the practice of designing within a commitment to facilitating social change toward more sustainable futures, the School of Design at Carnegie Mellon University has started talking about ‘Transition Design.’ It is risky to invent yet another term which too easily looks like an appropriative branding exercise, but it can also be useful as way of marking an ambition. The following is a further attempt to explain the differences from existing practice to which Transition Design aspires.

ASSUMPTIONS

There are crises
Transition Design assumes that the dominant, or at least dominating, ways of living today are not sustainable. How the global consumer class resource their lives is damaging the ecological impacts upon which those lifestyles depend and entails increasing inequality that excludes many from that class and even diminishing the capacity of most in that class from living as they intend.

Transition Design accepts the too often repeated litany of current ecological and social stresses: diminishing access to readily available fossil fuels, potable water, top soil, rare earth elements, etc.; mass extinctions and major ecosystem transitions; structural racism, sexism, classism, etc. Transition Design also works from the assumption that all these social stresses are interlinked; no one instance of these crises can be solved in isolation from the others. This also means that Transition Design is motivated by the belief that most current initiatives directed at these problems are futile or misdirected.

While Transition Design can and should be of value to existing commercial design practices, without this sense of crisis Transition Design seems pretentious. If you believe, as many do, that this litany of crises are fabrications or exaggerations, or if you admit that these are problems but believe that business-as-usual is progressing in ways that will successfully deal with these problems, then Transition Design will seem superfluous or dangerous.

However, a central assumption of Transition Design is that whilst our societies are in crisis, these crises are not being, and will never be, experienced in sufficiently motivating...
ways. There is never going to be a crunch time necessitating Promethean responses. These are slow motion crashes with which humans, especially while still moderately wealthy, are adept at coping. Transition Design, as with the Transition Town movement by which it is inspired, attempts pre-emptive change before change is unavoidable (which this may be never) (Tonkinwise 2011).

**Design is crucial**

The dominant forms of consumerist living are dependent on design. The interface between everyday habitual practices and the unsustainable economies and infrastructures that resource them are designed artifacts, environments, and systems; socio-ecologically exploitative industries manifest as clothes I wear while accessing my bank through an app on my cell phone as I sit in a car at traffic lights with the air conditioning on.

This quotidian ubiquity of designed products is perhaps the reason why design is often missed as axial to our societies and their unsustainability. Being a relatively recent profession and not yet a discipline, understandings of design are not commensurate with its importance, even by designers themselves. Current work in the sociology of technology is only just now articulating the socio-material power of designed things (Atzmon and Boradkar 2014). The ways in which designs influence how people act, making certain activities and their associated product ecologies inertial, are central to explaining how our societies are so unsustainable – just as they are crucial to shifting our societies out of current crises. Transition Design assumes that designing must play a central role in the systems-level change that our societies need to undertake. By assuming the need to foreground design, Transition Design is as much a challenge to other forms of psychological and social change as it is to forms of designing that believe they are powerless service providers.

**Design is in Transition**

Design is both the product of and the producer of modernism. Shaping material things became the art and science of interfacing between mass production and mass consumption. However, perhaps half-a-century after being predicted, developed economies are now post-industrial.¹ Service sectors, information economies, and digital platforms dominate new business.

As a result, design appears to be undergoing one its most significant transformations. The conventional design process of contextual inquiry, ideation, prototyping, and fixed final product is being displaced by data-driven into-the-field releases of constantly modifying systems (consider the role of a ‘product designer’ at Facebook for instance – see Klein 2013). The in-house innovation teams of large technology, and even financial companies, are challenging design consultancies. Meanwhile, design thinking is becoming mainstream in schooling, the liberal arts, and business.

All of these shifts, which reflect wider changes in late capitalist neoliberal economies, mean that the practice and discipline of design are currently in transition. Transition Design is based on the assumption that these transitions in the professional practice of designing are important opportunities for design education and research to demonstrate bold leadership. Practitioners and sponsors of design are looking for more comprehensive ways of negotiating change and complexity. There is consequently an openness to change-oriented values-based designing (Blevis et al. 2014).
Contexts

**Sustainable design was too problem-solving**

Design has always sought resource efficiency: the minimalist functionalism of modernism aimed to do more with less. Designers have been explicitly concerned about the ecological sustainability of their products since the 1970s. At that time, the Oil Crisis showed many designers that work they were doing for developing nations (what was called intermediate technology transfer) was also relevant to developed nations. Ecodesign became central to the discourse of Sustainable Development promoted by the UN in the late 1980s.

However, the results fell short of these ambitions. The supply-side focus of the early 1990s – Cleaner Production, Ecoefficiency – reduced the rate of ecological impact of business-as-usual but did not lead to net impact reductions. In addition, economic growth increased the overall volume produced, outstripping resource efficiency and pollution reduction efforts. In the later 1990s and early 2000s, emphasis shifted focus to the demand-side – Sustainable Consumption – but failed to deal with the Rebound Effect – when money saved by going ‘green’ was re-spent on other eco-impacting activities. This is why current Sustainable Consumption efforts focus on social psychology derived value-based behavior change.²

In the mid-2000s, Sustainable Design researchers recognized that the focus should not be on impact reduction but system change: how to make large-scale shifts in infrastructure, such as fuel-switching to distributed renewable energy systems; and how to radically transform consumer economies – from linear ownership-based models (resource extraction > manufacturing > retailing > domestic use > waste stream) to circular usership-based models (product service systems).³ There is now a strong discourse of ‘Sustainability Transition Management’ exploring Multi-level, Multi-stage Sociotechnical Changes (Elzen, Geels, and Green 2004).

Transition Design is explicitly connecting to this systems-level change version of Sustainable Design. It aims to bring design’s human-scale artifact-interaction focus to the transformation of everyday practices needed to enable structural transitions to more sustainable economies.

**Social design was too problem-solving**

Design has always also been a form of Social Design: from the worker-oriented Arts and Crafts movement, through the social-utopia vein in the various iterations of the Bauhaus, to the other-90%-directed designing promoted by Victor Papanek. The latter, which is currently dominant (e.g. IDEO.org, Frogimpact™, etc.) tends to be ameliorative rather than politically pursuing structural changes. This is changing as wealthy philanthropists embrace design and design thinking, funding larger-scale and longer-term social entrepreneurship.

Work by Ezio Manzini’s DESIS (Designing for Sustainability and Social Innovation) represents a shift in method and objective. Rather than being design-led, DESIS work lends service design expertise to existing community initiatives. Despite this localized focus, the work is committed to wider social change, via ‘scaling-across,’ since the initiatives it helps redesign represent non-market and often also non-governmental ways of resourcing everyday life (Manzini 2015). In this way, DESIS advances alternative economies.

The Social Design Pathways matrix (http://socialdesignpathways.com/) was developed in part by people interested in articulating the need for more ambitious, longer-term forms of Social Design, including some of us now developing ideas around Transition Design. For
Transition Design articulates a commitment to structural social change beyond social problem-solving.

**Heuristics**

*Design needs to rethink its relation to the future*

Design is the process of deciding on and then realizing preferred futures. The modern practice of design arose early in the twentieth century in North Atlantic countries as the development of strong visions for otherwise quotidian objects: the minimalistic machine aesthetic signaling the universal ahistoric human at the Bauhaus or the streamlined subject of ever-changing technocapitalism in the US. As Damian White has documented (in his paper in this issue), the discourse of design has always maintained this utopian tendency, now apparent in visualizations of smart green future cities on the one hand or cyborgian singularity on the other.

However, the professional practice of design today has a strong counter-tendency to abdicate from futuring. Talk of complexity, disruption, and constant change suggest that the future is cannot be anticipated: risks are black swans and value lies in the fickle movements of crowds. Consequently, the job of commercial design, especially in the realm of digital platforms, has become to remain agile, constantly building alternatives in response real-time analytics, rather than to pursue a vision.

Transition Design counters with a revived insistence on design taking responsibility for the futures it materializes. This should be more dynamic than the Procrustean visioning of modernism, but it should have a more forceful sense of what kind of society it is contributing to building.

*Design needs to have much more explicit Theories of Change*

As design has matured over the twentieth century and into the twenty-first century, its scope and influence has grown. Design has shifted from the problem-solving activity of giving form to new technologies, through the problem-reframing activity of new product development, to the research and change practices of design thinking applied to management and social issues (Dorst 2015). However, in cases of the latter, designing often assumes the same rationale as that which informed the former: artifacts (communications, products, environments) designed with human-centered principles can make activities easier, more productive or rewarding. The ‘Models of Man,’ as Herbert Simon called them, that underlie much Design Thinking are ones that cast humans as a combination of lazy and hedonistic; individuals (almost never treated as members of communities in any profound way) are only ever semi-rational, and hence need to be nudged or gamified by designs that makes things simple or rewarding.

The kinds of expanded social fields in which design now aids innovation and change are precisely ones in which humans need to be acknowledged as being more complex than marketing’s notion of consumers. These are people with strong social commitments and complicated ethics, groups of people often prepared to engage in effortful interactions that do not have immediate benefit. These contexts afford and demand a wider palette of interactions and design rationales.
Transition Design is a deliberate attempt to update the theoretical frameworks informing designing, especially design directed at structural, long-term sociocultural change. It tries to apply all that has been learned recently about individual and social change, as well as innovation diffusion and the social histories of large-scale technologies and infrastructures. These accounts of modern material cultures and sociotechnical practices equip designers to be powerful change agents without losing their core craft expertise.

**Design needs to take responsibility for its Sociality**

Whilst most designed artifacts are effectively anonymous, the history of design often comprises the biographies of iconic (white male) designers. The creation of the modern practice of designing was accompanied by strong personalities that were as deliberately designed as their products: think of Raymond Loewy’s explicit project of self-promotion, no less than Walter Gropius.

This is perhaps a necessary aspect of the fact that design is a ‘science of the artificial.’ Design brings things into existence, things that can then become crucial to our everyday life. This kind of world-making is not just a physical skill, but necessarily a social one. A wide range of people must be convinced to lend their money and materials and components and time and skills to realizing a particular design. Being a charismatic visionary is evidently one way that design has performed the social work of gathering allies for materializing a preferred future. However, this strategy clearly has its limits and there are many other cultures that designers could employ.

Transition Design foregrounds these questions of the social roles designers need to play to accomplish large-scale change in situations of urgency and crisis. Central is the recognition that design in realms of social complexity implicate the designer in what is being designed. This is quite distinct from conventional commercial design where the designer is making products for a client and primarily a set of users in different segments from the designer. Any Transition Design project also entails a redesign of the knowledge, values, and practices of the designer as well; Transition Design is always what John Chris Jones called ‘Designing Designing’ (1991), or Tony Fry ‘Redirective Practice’ (2009).

**Techniques**

**Multi-stage**

Designing to date has been primarily problem-based. This means that each design project tends to have a stopping point. There is an end-product. When the money for a dead-lined project runs out, the designers are rarely completely satisfied with the outcome – perfectibility is an inexhaustible motivator for design. Nevertheless, the consultancy model of designing that has been dominant for the last century encourages the designer to move on to some other very different kind of project.

This episodic way of working perhaps explains the notoriety Horst Rittel attained amongst design researchers with his notion of a ‘wicked problem’ – a problem whose social complexity means that it has no determinable stopping point. Transition Design explicitly locates itself within the domain of ‘wicked problems’ because it involves a kind of designing that ‘stays with’ a problem.
On the one hand, this ‘taking responsibility for ongoing work in the one context’ that defines Transition Design is a challenge for the psychology of the designer. When you are in for the long haul, the satisfiers are less direct and regular. On the other hand, this aspect of Transition Design is just a re-emphasis: it plays up that designing is a project-based practice, one whose expertise lies in its capacity to make strategic interventions in contexts. Designing is always a process of action research, coming to understand by making changes.

What is therefore a distinct technique of Transition Designers is attention to multi-stage multiplier effects. A Transition Designer designs something not to be an end-unto-itself, a final solution to a problem, but to open up subsequent opportunities. Any design must solve some problems, but the point is to always also ask what new options are generated by the conditions that that successful design generates. Transition Designers ask ‘… and so … and then …’. Designing a digital service system that enables people to ride-share creates new habits and expectations that Transition Designers immediately seek to take further, scaling-across to other ways of living and working to create large structural economic and cultural change.

Although longer-term thinking is inherent to Transition Designing, this practice is not like strategic planning. The multi-stage quality of it means that after each accomplishment, the way forward needs to be re-evaluated because un-anticipated consequences will have arisen. Transition Designers in this way seek to see round corners, moving in one direction not in order to get at the end point, but instead to discern other change-possibilities afforded by having shifted current conditions through the insertion of new designs and designed activities.

**Practice-oriented**

Design is the art and science of making useful things, but as indicated previously, those things, when well-designed, become transparent to the activities their use affords. This leads to a conundrum inside and outside of the discourse of design. Designers tend to focus only on the material things they produce (episodically). Designers often have to be reminded by design researchers and managers that their real object(ive) is enabling activities. By contrast, social researchers have almost entirely ignored the central role played by everyday designed artifacts, foregrounding instead immaterial things like values, meanings, and identities. Only recently have social researchers begun to effect Material and Thing Turns in their analyses. These perspectives incorporate insights from the field of Sociology of Technology Studies and propose that practices be considered a basic unit of society. A practice is a constellation of devices, skills and meanings that coheres as an everyday only-ever semi-conscious activity: breakfasting, commuting, work meeting, skiing, dating, etc.

One of the merits of Social Practice Theory is that it can explain how inertial our modern societies are despite media celebrations of constant technological development and economic change. Despite all the new inventions of the last half-century, the global consumer class still lives on a day-to-day basis in much the same way: eating, laundering, transporting, even schooling and holidaying, have not changed much as practices – with continued social and ecological impact consequences. The invention of new devices is only ever one-third of the problem of sociotechnical change. Any innovation must adapt to existing skills and meanings or assist in the development of new ones to be incorporated into everyday life. Similarly, any new value – ecological or social sustainability as a new ‘meaning’ for instance – will
not ‘take’ unless it can be materialized into devices that significant groups of people have the capacity to use habitually.

For designers, the way Social Practice Theory accords structural significance to devices and their skilled use at last registers the value of design to how we live our lives and organize our societies. By corollary, Social Practice Theory demands that designers acknowledge their responsibility for determining how our societies are made durable (to paraphrase Bruno Latour).

Transition Design is a form of Social Practice Oriented Designing. Its tactic for bringing about structural change targets multi-stage change of practices.

Key here is a somewhat new timespace of designing (Schatzki 2001). As discussed above, design evaluates preferred futures in the studio, although this is currently under pressure from the agile data analytics driven approach to product development that demands early fail-able beta-releases into the field. Social Practice Theory suggests something in the middle: groups of people need to be able to trial new everyday practices. It takes time to learn and then embed new devices and/or meanings, so the design of practice changes requires venues like Living Labs. However, ‘in real life’ and involving lay people, these are not into-the-field releases, but carefully designed experiences. In Transition Theory, these are referred to as ‘Niche Experiments.’ They are semi-protected domains in which new devices, skills, and meanings can co-evolve. When robust, these new social practices can then be reproduced or translated more widely.

**Conclusion**

Transition Design is an attempt to name an ambition for an expert craft of designing that acknowledges the extent of our social crises by advancing the practices of social and sustainable designing through the incorporation of multi-stage practice-oriented transformation.

**Notes**

1. Nigel Cross (1981) argued more than 30 years ago that design could and should become more participatory, political, and socially and ecologically responsible as society transitioned into post-industrial economies.
2. See the social psychology research commissioned by WWF UK now gathered at the website: [http://valuesandframes.org/](http://valuesandframes.org/). Related is Jackson (2011).
3. The idea of the Circular Foundation is currently being promoted by the Ellen MacArthur Foundation, although one of its first comprehensive proponents in relation to sustainability was Walter Stahel (2010).
4. A good selection of Rittel’s writings are collected in Protzen & Harris (2010). I try to explain the implications of this via John Chris Jones’ idea of ‘Continuous Designing’ (in an essay in Designing Designing (1991)) in Tonkinwise (2005).
5. For a rich account of this kind of ‘situated action’ (Suchman 1987) approach to ‘strategy as practice,’ one that combines Fernando Flores’ notion of organizational style (Spinosa, Flores, and Dreyfus 1999) with more Daoist notions of propensity (following Jullien 2004), see Chia and Holt (2009).
6. An excellent account of Social Practice Theory, but with an emphasis on its use in Organizational Studies, is Nicolini (2013). The definition of practices as constellations of devices, skills, and meanings is Elizabeth Shove’s (Shove, Pantzar, and Watson 2012).
7. Living Labs were originally conceived as processes by which the multinational corporation Philips could learn from consumers what a new technological might be for. The central idea
of getting lay people to dwell with changed practices for a period has been appropriated by Transition oriented sustainable design research (Scott Bakker, and Quist 2012).

References


