Application House

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In 1994, technologist and cultural critic Stewart Brand commissioned an illustration[1] for "How Buildings Learn," showing different rates of disruption effecting architecture's component systems. This drawing, "Shearing Layers of Change," has since been adapted to model things like corporate business structures, software project management, website content, and, in an updated graphic by Brand for his current initiative, The Clock of the Long Now, human civilization itself.

This drawing type has been instrumental for Silicon Valley. Let us re-draw the smartphone in this mode. Stacked layers of material and information change at different rates. Unlike the house diagram, each layer foregrounds a distinct relationship with an economic system. Phone hardware price is usually subsidized, software applications are often free. Everything from the protective case to the user's contact list is a monetizable commodity, subject to forced obsolescence and upgrade cycles. Apps are conduits to continuously transfer information, breaking the layers' concentricity, creating tunnels from a small private interior to a broad diffuse exterior: "the moon." This scheme passes information through an almost invisible, unavoidable outer layer, recuperating exchange value from each transaction.

Application House uses this new diagram spatially, to rewrite domestic quasi-urban architecture into a full stack house of the future potentially bridging a techno-capitalist mode with fully automated luxury communism. The project takes building-scale CNC, driverless cars, drones, delivery and maintenance robots for granted, exploring their potential for spatial/social production through the act of drawing on the surface of the ground.

The urban surface is configured by the paths of these vehicles at different scales, with structures filling the space left between. Structures are defined by center points and radii of pivoting machines that deposit concrete in linear layers, shaping private space inside, social space outside. The closed contours that the machines draw are opened by apertures, each one space for an application that regulates inputs and outputs. Food, water, household goods, even thermal energy are all exchanged by means of these applications. Applications are designed so that their forms can only dock with automated vehicles in their brand ecosystem. What if Amazon gave a free front door to every Prime subscriber? What if neighborhoods could build their own networks of resources on the back of this system?

The notion of a world redrawn as loops, paths and nodes, shearing at different rates, is a starting point for speculation about possible utopian and dystopian futures. These drawings are like philosopher Donna Haraway's "sf," "... that potent material semiotic sign for the riches of speculative fabulation, speculative feminism, science fiction, science fact, science fantasy – and, I suggest, string figures."

[1] The diagram is by Donald Ryan, Brand credits the idea to British architect and RIBA President Stewart Duffy. Stewart Brand, How Buildings Learn, What Happens After They're Built. p. 13, New York, Penguin Books, 1994. Print.

[2] "In looping threads and relays of patterning, this sf practice is a model for worlding." Donna Haraway, SF: Speculative Fabulation and String Figures. p. 4, Ostfildern, Hatje Cantz, 2011. Print.

