Let’s Get Physical

A Sample of INC Longforms
2015-2020
INC Reader #13

Let's Get Physical: A Sample of INC Longforms, 2015-2020

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A Sample of INC Longforms

2015-2020

Edited by Miriam Rasch

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# Table of Contents

Introduction: Celebrating Five Years of Online Tech Critique  
*Miriam Rasch*  
7

<table>
<thead>
<tr>
<th>Affects &amp; Interventions</th>
</tr>
</thead>
</table>
| **Choose How You Feel: You Have Seven Options**  
*Ruben van de Ven*  
13 |
| **A Dream of an Algorithm**  
*Agnieszka Zimolag*  
31 |
| **Turing for the Masses**  
*Bennet Etsiwah*  
41 |
| **Proof-of-Transaction: The Materiality of Cryptocurrency**  
*Tim Brouwer*  
55 |

<table>
<thead>
<tr>
<th>Class Lines</th>
</tr>
</thead>
</table>
| **Luxury & Paranoia, Access & Exclusion: On Capital and Public Space**  
*Anastasia Kubrak and Sander Manse*  
71 |
| **Club-wise: A Theory of Our Time**  
*Maisa Imamović*  
83 |
| **I, For One, Welcome Our New (Google) Overlords**  
*Lasse van den Bosch Christensen*  
99 |
### Meme Politics

**Fictiocracy: Media and Politics in the Age of Storytelling**  
*Davide Banis*  
119

**Execute Order 66: How Star Wars Memes Became Indebted to Fascist Dictatorship**  
*Pim van den Berg*  
137

**The Islamic State Unfiltered**  
*Inte Gloerich, Rose Rowson, Rebecca Cachia, Susan Clandillon, and Cristel Kolopaking*  
149

### Architectures of Control

**The Effect of the List**  
*Nikos Voyiatzis*  
165

**‘That Others May Die’: Autonomous Military Technology and the Changing Ethos on the Battlefield**  
*Gustavo Velho Diogo*  
181

**Res Publica Ex Machina: On Neo-cybernetic Governance and the End of Politics**  
*Felix Maschewski and Anna-Verena Nosthoff*  
193

### Biographies

211

### Resources

217

### INC Longforms

230
Res Publica Ex Machina: On Neo-cybernetic Governance and the End of Politics

Felix Maschewski & Anna-Verena Nosthoff
Res Publica Ex Machina: On Neo-cybernetic Governance and the End of Politics

Felix Maschewski and Anna-Verena Nosthoff | 18 October 2018

#nudging #technocracy #SiliconValley #post-democracy

In 2017, Denmark sent the first digital ambassador, Casper Klynge, to Silicon Valley. The aim of this move of ‘techplomacy’ was, as Klynge explained, not simply to distribute greeting notes by the Danish queen. Rather, the intention was to ‘update diplomacy’ based on the recognition that a few tech companies have obviously become much ‘more influential than some nation states.’ Klynge framed the new political course in the manner of a well-known old but still utterly contemporary mantra: ‘There is no alternative.’ In a similar vein, Denmark’s Foreign Minister Anders Samuelsen highlighted the importance of the step as follows: ‘Just as we engage in a diplomatic dialogue with countries, we also need to establish and prioritize comprehensive relations with tech actors, such as Google, Facebook, Apple, and so on. (…) The idea is, we see a lot of companies and new technologies that will in many ways involve and be part of everyday life of citizens in Denmark.’

Likewise, French President Emmanuel Macron announced that it is time for France to also enhance diplomatic relations with the digital players newly entering the terrain of politics. De facto, however, this means that the country is not only sending an ambassador to Palo Alto but is also ready to invite the largest tech companies as partners to create projects such as ‘Station F’, the world’s greatest start-up-incubator – Silicon Valley made in France. Indeed, because companies like Google, Apple, Facebook, and Amazon have managed to accumulate a market value equal to the size of the second most powerful European national economy, Emmanuel Macron has notoriously developed a plan to become a ‘start-up nation’.
Denmark and France are just two of many examples. One might also add the relationship between ‘Facebook President’ Barack Obama and Mark Zuckerberg; or, regarding the realm of healthcare, between Obama and Eric Schmidt; or, regarding the current realpolitik order, PayPal founder Peter Thiel's advisory activities for Donald Trump. They represent an (a-)political way of thinking which follows the tech-laws of solutionist efficiency. The rationale was nicely summed up by a slogan promoted by the German Free Democratic Party (FDP) during the country’s 2017 election campaign: ‘Digital first, Bedenken [which is German for concern or reflection] second.’ Indeed, it seems that political leaders across the globe have come to realize that many tech entrepreneurs have arguably overrun a variety of states when it comes to power, money, and – one might add – influence.

The political reactions to this new awareness are homogenous, as is exemplified by Canada’s Prime Minister Justin Trudeau, who in October 2017 pitched his own country as a ‘Silicon Valley, plus everything else Canada is.’ Against this background, he has characterized Google as a ‘partner who is determined to find innovative solutions to make our communities even better places to call home.’ Thus, Trudeau’s invitation to Alphabet Inc.’s Chairman Eric Schmidt and the subsequent plans of Toronto to ‘sell’ a part of its city (i.e. Waterfront, Sidewalk Labs) to Google to create a new playground for experimenting with proprietary AI-based products and services was not surprising. As Schmidt claimed after the deal was set in stone, the hope is to create something important and powerful that might give rise to new ideas that can be adapted and implemented in various other cities around the globe.

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We know where you are. We know where you’ve been. We can more or less know what you’re thinking about. - Eric Schmidt, Chairman Alphabet Inc.

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The idea to implement tech on new political test grounds is also mirrored by recent digital initiatives that focus more explicitly on the nation-state. The most poignant concepts in this realm include ideas such as ‘algorithmic regulation’, ‘government as a platform’ (Tim O’Reilly), ‘direct technocracy’ or ‘info-states’ (Parag Khanna), ‘smart states’ (Beth Noveck), or ‘social physics’ (Alex Pentland), to name a few. It is vital to explore some of these concepts in greater detail and on a more theoretical and philosophical level. What form of politics is implicitly being promoted in this context? As we argue, such concepts are best examined as very idiosyncratic reformulations of cybernetic approaches to the political,
which date back to the 1960s. We will explore how they implicitly rearticulate early visions of cybernetic politics in their insistence on the vitality of feedback structures, in allegedly blending hierarchy with tenets of decentralization, in shifting the focus from the individual to the interrelations between humans, including the social fabric encompassing them and, most importantly, in how far this might raise problems. This rather theoretical perspective will allow us to examine the extent to which such neo-cybernetic concepts promote a rather reduced vision of the political, or politics as such. Current approaches to ‘smart’ states or cities and their corresponding models of governance mark not an entire automation of politics, but at least in certain respects do show a pragmatic actualization of cybernetic visions of the state, against the background of surveillance capitalism. As such, theoretical dispositifs that have emerged from early ideas of cybernetic politics are still marking certain effects.

Cybersyn operations room. Source: unknown.

More so, we are in a period in which smart technologies are becoming more ‘intelligent’, increasingly invisible, and ever more difficult to grasp. This makes it all the more crucial to understand their cybernetic origins alongside their political connotations. To name a prominent and much-discussed example, Stafford Beer’s
socialist cybernetic project to regulate Chile’s economy and politics through feedback systems at the beginning of the 1970s, was still based on the implementation of telex machines, whereas current neo-cybernetic politics are able to instrumentalize sensor systems, algorithms, AI, and thus an entire environment designed by significantly more complex digital techniques. Such ‘smart’ techniques are far more suitable to implement and actualize what political cyberneticists already envisioned a few decades ago, when the internet was still a centralized ‘Arpanet’, Wiener’s *Cybernetics* had just become a revolutionary bestseller, and Silicon Valley was just about to become the melting pot of a new counterculture.

**Performance Before Politics**

Before we delve into the origins of cybernetics, a review of some of the most recent theoretical trends in neo-cybernetic politics is useful. We start with one of the most controversial figures. Political scientist and consultant Parag Khanna, who is a strong advocate of the ultimately cybernetic idea that connectivity is of intrinsic political and moral value, has argued for what he terms ‘direct technocracy’. By this term, he refers to the intermingling of real-time information and an ‘info-state’, which for the most part would be governed by non-party experts. Such info-states, examples of which are Singapore and Switzerland, are driven by the ideology of a supposedly neutral pragmatism and with maximizing efficiency as the only aim. ‘In the long run, the quality of governance matters more than regime type,’ Khanna argues, believing that, ‘with good governance comes trust.’ Khanna’s book *Technocracy in America* was published just weeks after Trump’s election, a cleverly chosen moment to actively promote his tech-expertocracies with their presumably non-reactionary and, as he puts it, ‘non-ideological’ form of anti-politics. He is convinced that ‘America has more than enough democracy. What it needs is more technocracy – a lot more.’ Most dubiously, Khanna openly promotes not only Singapore but also China – with its announced ‘social credit system’ – as role models for both the US and Europe.

Khanna’s neo-cybernetic agenda can in part be traced back to Tim O’Reilly, one of the first defendants of neo-cybernetic concepts. O’Reilly coined the term ‘algorithmic regulation’ around 2011 and ‘government as platform’ in 2010. Here, ‘regulation’ is in no way comparable to any traditional notion of governmental regulation, O’Reilly’s aim is rather to replace regulation with reputation, such as mutual ratings. For instance, he argues that services such as Airbnb and Uber can provide valuable models for providing maximum efficiency and oversight. According to O’Reilly, they
do a great job ensuring quality and availability while 'drivers who provide a poor service are eliminated', as he states in ‘Open Data and Algorithmic Regulation’.

Although O’Reilly is not as specific as Khanna about the countries that should serve as role models for proper neo-cybernetic politics, and seemingly envisions an agenda that is less state-centric than Khanna’s, in ‘Government as Platform’ he equally depicts the government’s prior function as a ‘service provider’, while propagating the outsourcing of government activities to the private sector: ‘The whole point of government as platform,’ O'Reilly argues, ‘is to encourage the private sector to build applications that the government didn’t consider or doesn’t have the resources to create.’ It is an argument that comes close to some suggestions by political scientist and ex-Obama-consultant Beth Noveck, who is also a member of the ‘Digitalrat’ recently announced by the German Bundesregierung. Noveck repeatedly refers to corporate platforms – from LinkedIn to Facebook – when describing how the future of digital democracies should ideally appear.

**Early Fundamentals of Cybernetic Politics**

Regarding the fundamentals of cybernetic politics, it is essential to understand that from a cybernetic viewpoint content has no essential value for politics. As the engineer Claude Shannon envisioned in the beginning of the 1940s, the meaning and semantics of a message can be considered irrelevant insofar as information is thought of as a measure of freedom of choice: ‘The two messages between which one must choose,’ he argues, ‘can be anything one likes. One might be the text of the King James Version of the Bible, and the other might be “Yes”.’ Rather than on meaning, Shannon’s focus was on reducing noise where possible and on reinforcing smooth and predictable communication within governable channel systems. In fact, he even drew an explicit distinction between information and meaning, adding that the terms must not be confused.

Although Shannon’s *Mathematical Theory of Communication* had no explicit political connotation, Karl Deutsch’s *The Nerves of Government*, which explicitly drew on Shannon’s information theory, was exclusively focused on the state. In what appears like an almost logical political conclusion drawn from Shannon’s reductive focus on information, Deutsch proposed that the level of democratization is directly related to the intensity of measured communication. For him it was equally irrelevant which contents run through the channels of communication, whether the information flow concerns the banality of consumption or a political movement,
as long as autopoietic mechanisms of self-learning automatically lead to a new balance or homeostasis; a new controllable order. Seen from the meta-perspective of cybernetic regulation, what is important is not what and how one communicates but rather that one communicates – that the information flow is continually kept alive and that it follows a foreseeable, anticipatable direction. The information flow must not be suppressed or restricted but, instead, reinforced and encouraged. Nevertheless, a certain level of anarchic contingency or even resistance and thus disorder, has always been vital for both classically cybernetic and neo-cybernetic politics. It keeps the system in motion and through additional information, offers the possibility of its optimization, expansion, and regulation, to continually establish newly ordered wholes.

Technocracy is a term first coined by the Californian engineer William Henry Smyth in 1919. In the 1920s and 1930s it gained popularity through the so-called ‘technocracy movement’ in the US and Canada, which proposed to replace politicians with engineers. Image by Dorothea Lange. Source: Wikimedia.

According to the cybernetic conception of government, the problem of representation and the divergence between the rulers and the ruled, including the classic problem of how to overcome or mediate this divide, has become at least partially obsolete. In fact, it is thought to be resolved by a conception of politics that can continually establish orders through a real-time regulation of crowds,
masses, and affects. The political task par excellence becomes the direct or indirect creation of order from noise, whereby the state’s goal is reduced to its mere systematic survival – what Habermas termed, in a more critical vein, equivalent to ‘the biological base of survival at any cost, that is, ultrastability.’

This term ‘ultrastability’, popularized by Ross W. Ashby in the early 1940s, is derived from the mechanisms of a classic homeostat, a device that reacts to external signals with the aim of self-regulating through constant feedback, thus reaching constant, stable states. More systematically, ultrastability can be defined as the capacity of a system to adapt smoothly to unpredicted changes by reducing noise. Early political cyberneticist Eberhard Lang went so far as to think of the general will as ultimately and solely concerned with the ‘absence of disturbances’ – a notion that seems reminiscent of Khanna’s aim to provide the greatest efficiency of a nation’s people at any cost.

Hermann Schmidt, the founder of cybernetics in Germany. Source: Wikimedia.
The essential telos of a cybernetic state, then, is not a productive dissensus, let alone a form of democratic, agonistic pluralism, but the other’s integration into the same – in other words, the expansion of the whole via adaptation. Hermann Schmidt, the founder of cybernetics in Germany, affirmatively frames this logic as an imperative: ‘to control everything that is controllable, and to render controllable that which cannot yet be controlled.’ The political conclusion to be drawn from this is summed up by the authorial collective Tiqqun, who define the task of cybernetic governance in the era of networks as follows: ‘governing means ensuring the interconnection of people, objects, and machines as well as the free – i.e., transparent and controllable – circulation of information that is generated in this manner.’

The Cybernetic Hypothesis is thus a political hypothesis, a new fable that after the second world war has definitively supplanted the liberal hypothesis. Contrary to the latter, it proposes to conceive biological, physical, and social behaviors as something integrally programmed and re-programmable. More precisely, it conceives of each individual behavior as something “piloted,” in the last analysis, by the need for the survival of a “system” that makes it possible, and which it must contribute to. - Tiqqun, The Cybernetic Hypothesis

A Technocratic Future?

The problem with the information-centered approach as grounded in Shannon’s mathematical theory of communication and Ashby’s view of ultrastability, becomes evident when looking a bit closer at Beth Noveck’s book Smart Citizens, Smarter State, as well as some of her talks. Noveck, who was Obama’s chief technology officer during his presidency and an adviser to his open government campaign, early on and quite excessively praised the advantages of social networks and did not shy away from presenting parts of the mechanisms employed by corporate platforms such as Facebook and Twitter as innovative role models for a new form of digital government. As she summarizes in a TED-talk: ‘You’ve got 3,000 employees at Facebook governing 900 million inhabitants. We might even call them citizens.’ She asks the audience: ‘Why is Twitter so successful? Because it opens up its platform. It opens up the API to allow (...) new applications to be built on top of it, so that we can read and process information in new and exciting ways. We need to think about how to open up the API of government.’ And she predicts that ‘the
next great superpower is going to be the one who can successfully combine the hierarchy of the institution (…) with the chaos and the excitement of networks.’ We’ll all be working together, as she says, engaging ‘in the practice of governance.’

Noveck’s last comment in particular, translates cybernetic management-pioneer Stafford Beer’s early vision of what he termed a ‘democratic machinery’ into the vocabulary of contemporary information technology. Sure, the idea of government as referred to by Noveck is far from that of an Ops room with a couple of steersmen acting on the basis of information, as Beer envisioned for the sake of cybernetically controlling Allende’s Chilean economy of the early 1970s. It seems closer to Beer’s project Cyberfolk – which was never realized – a sort of cybernetic nerve system established between the demos and the politicians, enabling the former to rate the latter in real time via so-called ‘algedonic meters’ (pain-pleasure buttons on their TV) and based on a vision of radical transparency. Noveck would arguably welcome such quantified direct-democratic mechanisms. For her, the role of the government should be reduced to the role of a facilitator, its primary goal being to establish a ‘platform for coordinating citizen action,’ based on the mechanisms of a dedicated feedback logic.

A pragmatic actualization of at least some aspects of early cybernetic visions of the state becomes evident. As mentioned, Karl Deutsch envisioned democratic politics as exclusively depending on its measurable level of information flows, ‘emancipated’ from deliberation, lengthy parliamentary discussions and arguments, and what Habermas thought of as communicative action. Although Noveck provides a political approach that is far more participatory in its design than that of Parag Khanna or Karl Deutsch, it nevertheless has serious problems regarding issues of participation and equality. That is, Noveck addresses governance (which she mostly uses as a substitute for politics in toto) as a coordination and logistics problem that urgently needs to be solved using better, or smarter, technology. According to her, the issue is to widen ‘the pool of potential problem solvers (…) with good solutions to a hard problem.’ A similar notion becomes evident in Khanna’s vision of what he considers a ‘smart’ state, in which progress should be measured according to so-called KPIs, or key performance indicators. Many of the advantages that Khanna lists are concerned with smooth functioning, logistics, and better service. One Singaporean example that he mentions is the installation of touchscreen iPads for citizens to rate the state’s public toilet and passport check services.

Such a fundamental concern with a frictionless functioning of the whole and a rather limited focus on the handling of complexity through regulatable connectivity, echoes
Shannon’s interest in the intensity rather than the content of communication flows. It leaves little room for a discussion of more content-related and straightforward political matters, such as inequality, issues of freedom, racist biases, algorithmic injustices, and so on. Nor does it suggest how and why the sole focus on logistic efficiency might necessarily increase democratic deliberation. It should be evident that to participate in rating a service is not similar to political participation in the sense of making one’s voice heard or articulating political demands. It is hardly surprising that Khanna at one point praises Swiss ‘technocratic’ workers who are ‘trained, competent and productive’ for not going on strikes. ‘Democracy,’ he concludes, ‘doesn’t deliver Switzerland’s perfectionist efficiencies; technocracy does.’ Again, the focus on maintaining stability at any cost is reminiscent of a classic cybernetic focus on ultrastability as the aim of politics, which is conceived as a ‘system’ in the first place. In fact, to Deutsch, the history of revolutions appeared ‘to a significant extent as the history of internal intelligence failures in the governments that were overthrown.’

Noveck, while criticizing the lack of integration of citizens into the process of governmental decision making and institutional design, eventually rejects expert professionalism in governance and political thought only to propose an integration of a different body of experts of, above all, technicians. Criticism of political elitism eventually leads to promoting a new elite that is first and foremost in possession of smart, ‘practical know-how’. The role of the citizen is mostly reduced to providing information. In this context, Noveck refers to what she calls ‘an army of citizen scientists reporting data through an app,’ which she mistakes for actual ‘participation in government,’ or what Arendt would term political action [Handeln] as opposed to, and precisely not correlative with, fabrication [Herstellen]. Even though Noveck proposes a model far more inclusive than Khanna’s army of state-rating citizens, her design has limitations of its own. It is quite telling that she explicitly criticizes Habermas’s discourse ethics for only stressing the necessity of mediated forms of public discourse, i.e. a discourse that depends on institutions (such as, traditionally, the print media). Habermas, she argues, undermines more direct participatory roles that citizens could play at the level of governmental decision making. She conveniently leaves out Habermas’s revitalization of autonomous judgment, argumentative participation in public discourse, and the normative framework initiated through public debate. She herself only emphasizes immediate data delivered to the government. In her neo-cybernetic agenda, there is little room for the formation of discursive political will and so it implicitly repeats Khanna’s belief that political representatives spend ‘too much time arguing rather than doing something.’
In Noveck’s model, general participation is reduced to reporting systemic disruptions, whereas participation in decision making is open only to those with relevant knowledge or know-how that might contribute to solving a particular problem. Moreover, according to Noveck, such ‘citizen experts’ should be listed publicly and ranked according to their individual capacities in close cooperation with private platforms such as LinkedIn and Coursera, on which citizens can publicly inform others of their progress, newly awarded certificates and so on. It seems like a highly competitive, market-driven form of self-organization or self-governance that largely relies on 360° feedback models. Such forms of self-organization implicitly propose decentralized governance through flexible markets that allocate individual capacities. Politics is limited to coordinating expert knowledge with the aim of finding relevant technical solutions in real time. Additionally, Noveck claims, such expertise can be attained by anyone, since technical education is now available ‘freely’ through Coursera and other similar platforms. She thinks of expertise as being democratized simply through internet access and access to (corporate) platforms, without considering issues of equality, including potentially unequal distributions of free time, access to resources, the ability to attain such knowledge, and issues of privacy and transparency regarding the use of personal data.

The engineer Howard Scott, who was the leader and founder of the technocracy movement. Source: Wikipedia.
Even more problematic is Noveck’s explicit reliance on nudging techniques, as elaborated upon in Sunstein and Thaler’s *Nudge*. According to the report *Nudging all over the World*, behavioral economics have already affected policy initiatives in more than 130 countries, whereas the frame of application usually remains rather non-transparent. Noveck affirms what Thaler and Sunstein call the implementation of a ‘libertarian paternalism’: the aim of influencing, subtly controlling, and above all anticipating human behavior through changing choice architectures, while at the same time delegating responsibility to the level of the individual in a typically neoliberal fashion. By now it will come as no surprise that such a limited understanding of freedom can be traced back to the historical origins of cybernetics, particularly to Stafford Beer. Although he followed a diametrically opposed agenda politically speaking, namely a socialist model, he defines freedom as a ‘computable function of effectiveness’. And this understanding in turn hints at the intellectual mindset of another and particularly debatable pioneer of neo-cybernetic politics: Alex Pentland.

**The Problem with Social Physics**

Not only Noveck and Khanna aim to disrupt conventional politics and allegedly antiquated notions of freedom. Certain Silicon Valley pioneers and also the director of the MIT Media Lab Alex ‘Sandy’ Pentland, proclaim a similar agenda that leaves behind both negative and positive conceptions of freedom. Rather, they have an entirely transformed notion of freedom, which is only realized through being regulated when necessary. It is freedom as framed by Stafford Beer: ‘The freedom we embrace must yet be in control.’ Even more straightforward is the manner in which he continues – with words that are uncannily reminiscent of Parag Khanna’s and, as we will see, Pentland’s: ‘We have to become efficient in order to solve our problems; and we have to accept the threat to freedom that this entails – and handle it.’

Pentland’s agenda of datafying the social and the problems this entails, can best be described by the media philosopher’s and mathematician’s Dieter Mersch’s recent diagnosis and critique of cybernetics. As Mersch argues, throughout the history of cybernetics the notion of participation has been reduced to merely equal access (as could also be said of Shannon’s mathematical understanding of communication). Mersch reminds us that participation stems from the Latin ‘participatio’ and originally means ‘Teilhaftigmachung, Teilnahme, Mitwirkung [contribution]’. The concept itself however rests on a certain ambiguity, as it does not specify what participation relates to or how far it goes, or what it encompasses: ‘The ‘Mit-’
[with] in ‘Mitsein’ [being-with] remains as indeterminate as the forms of participation.’ According to Mersch, cybernetics rests on a reduced understanding of participation, thus implying a limited notion of both the social and the political, which are neither deducible from a technical infrastructure or logistical setting, nor necessarily follow from it. As is particularly evident in current forms of the social – such as social networks – the exclusive focus on technical infrastructure and coordination almost automatically reinforces a predominance of mathematics and a mathematical imaginary, producing what German sociologist Steffen Mau has recently termed a ‘metric we’.

This becomes especially evident with regard to Pentland’s neo-cybernetic vision of what he terms ‘social physics’: whereas his governance approach essentially rests on participation, it is not at all concerned with what Mersch (drawing on Jean-Luc Nancy) refers to as the ‘Mit-’ of ‘Mitsein’: a shared dimension of the social that cannot be (technically) constructed but is always precarious, a horizon at best of what is still to come. As such, Pentland’s vision of governance illuminates the difference between socio-politically rich and socio-politically limited notions of participation. Seen from a political viewpoint that considers autonomous judgment as a necessary precondition for self-determined political participation, Pentland’s behavioristic focus on the homo imitans and on adaptable behavior is particularly alarming. Close to what Obama advisor Sunstein has popularized under the rubric of ‘nudging,’ that is, a form of choice architecture that strives to subconsciously influence or push human behavior in certain directions, Pentland seeks to influence the interrelations between humans.

In a ‘Talk at Google,’ Pentland distinguishes this ‘peer-to-peer behavior’ from ‘individual behavior’. The former largely rests on adaptation, a term that became extremely popular during the rise of cybernetics as a science, for instance, in the works of W. Ross Ashby and Norbert Wiener. Pentland wants to shape the social fabric by implementing quantifiable incentives that modify interactions. Such a focus on the network is, according to him, twice as efficient as focusing on an isolated individual. One of Pentland’s experimental examples refers to the attempt to raise the overall activity level of a group during a lazy winter. There were two groups: in one people were rewarded with a certain amount of money according to their activity level, in the other people were assigned buddies. In this second group, a reward was not given when one had maximized one’s own activity level but if one’s buddy did. In other words, your buddy was rewarded for you being active and vice versa. Pentland’s experimental results showed that the second group was far more effective, given the extent of interactions
between people and the structures of mutual control and responsibility established between them.

What becomes evident here is a shift from depicting the human as capable of autonomous judgment, to behavioristic models that have given up on the idea of the autonomous decider. Indeed, this holds not only for the shift from \textit{homo economicus} to what is now deemed behavioral economics in economic theory; the same occurs in political theory, which long rested on the idea of the individual as a rational decider or enlightened citizen, but is now considered a ‘system’ even by political theorists and sociologists (examples are the German sociologist Armin Nassehi, who has argued for a smart steering of the social, or political scientist Philip Howard in his \textit{Pax Technica}). The individual is no longer conceived as an entity, but depicted as a ‘\textit{divisum},’ as Günther Anders termed it a long time ago: dissociable, divisible, and partly shapeable, whereby the distinction between activity and passivity becomes obsolete. And to return to the issue of freedom, the implementation of choice architectures and the redesign of what Pentland terms the ‘social fabric’ might not directly determine or violate free choice – Sunstein and Thaler have repeatedly emphasized that they seek to preserve ‘freedom,’ therefore calling their approach ‘\textit{libertarian} paternalism’. However, they hardly seem compatible with either positive or negative freedom, precisely because influence on individual behavior works primarily on the subconscious level.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{image}
\caption{Cyber Horse at Tel Aviv University. Image by: No, No, No, No, Yes - Ad Agency in Tel Aviv.}
\end{figure}
The End of Politics as we Know it?

To conclude, these examples ranging from classical cybernetic concepts of the state to their neo-cybernetic pendants, shed light on a paradigm shift that concerns the very fundamentals of our understanding of politics and the political. As Tiqqun provocatively argued in *The Cybernetic Hypothesis*, this hypothesis expresses nothing less than ‘the politics of the “end of politics”.’ The cybernetic notion of politics offers at best a reduced understanding of it – an understanding that is already imminent to Shannon’s influential theory of communication and that still shapes neo-cybernetic concepts of the political. The most worrying aspects of such an understanding are the absence of any notion of democratic deliberation and antagonistic dissensus, and the overarching focus on avoiding noise, irritations, and emancipation. The formation of long-term political will is replaced by a direct response to immediate needs. And thus, politics is tendentially reduced to feedback.

It can be argued that the stylization of digital technology to the *ultima ratio* of producing allegedly stable, self-settling orders, solely based on the mechanisms of algorithmic problem solving, has opened entirely new spheres of influence that will eventually establish what media theorist Roberto Simanowski terms a ‘numerocracy’: a quantified society partly self-regulated through real-time data flows. Correspondingly, Evgeny Morozov speaks of a general tendency towards ‘solutionism’ by which he addresses politics’ increasing reliance on technological solutions and other cybernetic techniques such as behavioral economics, evaluations, and ranking lists, or more generally, the setting of incentives and feedback loops to reinforce regularity.

Although a citizen score such as the system that China has introduced seems an impossibility in Western societies, at least on such a large scale, an interesting hint for the future is provided in the *The New Digital Age*, by two of Obama’s top advisors on technology and terrorism issues, one of whom is Eric Schmidt, the executive chairman of Alphabet Inc.:

To be sure, there will be people who resist adopting and using technology, people who want nothing to do with virtual profiles, online data systems or smart phones. Yet a government might suspect that people who opt out completely have something to hide and thus are more likely to break laws, and as a counterterrorism measure, that government will build the kind of “hidden people” registry we described earlier. If you don’t have any
registered social-networking profiles or mobile subscriptions, and on-line references to you are unusually hard to find, you might be considered a candidate for such a registry. You might also be subjected to a strict set of new regulations that includes rigorous airport screening or travel restrictions.

The so-called ‘hidden people’ would have far greater difficulties than the network participants. Digital technologies, especially when blindly adopted by governments as problem-solving tools, in such ways only further manifest a state without alternatives and deny a fair share to those who do not conform to the cybernetically formed homogenous mass. Rather than abolishing friend-enemy distinctions, the ultimate enemy – the outsider, the other – becomes what Günther Anders foreseeably termed the ‘unadaptable fellow’.

What has to be thought through then, is how the cybernetic reduction of the political notion of *equality* to the rather contentless notion of *equal access*, and the perception of the *social* in the sense of mere *connectedness*, is complicit with the ways in which democracies today tend to undermine and, eventually, cancel their very own fundamentals – the scandal around Cambridge Analytica, SCL, and Facebook is just one out of many examples of such a tendency. In this respect, we agree and finally conclude with a decisive dictum of Jürgen Habermas, formulated at a time when cybernetics was just beginning to become popular and that only seems to have gained relevance in the dawning age of post-democratic, post-truth politics: ‘This challenge of technology cannot be met with technology alone. (...) The redeeming power of reflection cannot be supplanted by the extension of technically exploitable knowledge.’
Resources
Res Publica ex Machina: On Neo-cybernetic Governance and the End of Politics

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