On 31 January 2018 at the Dutch Federation of Accountants in Amsterdam, Reporting 3.0 convened the kickoff meeting of the Global Thresholds & Allocations Council (GTAC), a governance body tasked with vetting and validating thresholds (the ecological ceilings & social foundations of Kate Raworth’s Doughnut Economics) and allocations (or fair share “slices of the pie” of resources). Henk Hadders & Glenn Frommer presented the below abstract of their comments delivered in the ‘Blockchain for Sustainability: Designing ecosystem-driven IT innovations’ session.

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This Abstract aims to provide a high-level outline of r3.0 "Blockchain for Sustainability" initiative. The context of this initiative is habitats, bioregions and ecosystems, with their ecological, social and economic dimensions and actors: inhabitants, communities and organizations. An ecosystem is a network of interdependent, interrelated and interacting assets, services and actors that jointly generate, add, use, destroy and exchange value. How to design regenerative cultures to make ecosystems and their governance healthy again?

How can (a) innovations in accounting, measurement & reporting and (b) innovations in smart IT systems (Informations Systems, Embedded Systems and Mobile Apps) support such a transformation? We badly need a new multicapital-driven social contract for sustainability between Market, State, Commons and Science, and shared measurement, monitoring and management by multi-constituents using multicapital accounting networks. We need new approaches to shift the way how we organize trust, how to disintermediate old institutions, while focussing more on distributed peer-to-peer (P2P) relationships and transactions. Our final goal is to enhance the capacity of an ecosystem and its actors to bring about and maintain a dynamic balance in an autonomous and self-sustaining manner. The context for this final goal is the integration of thresholds of resource availability (within the carrying capacities of capitals) and fair, just, and proportionate allocations amongst actors.

The focus of the “Blockchain for Sustainability” initiative is to co-create an IOT & Blockchain based operating system for real time integral ecosystem monitoring and control. Based on a description of the ecosystem (mapping actors and multicapitals), an open source Blockchain for Sustainability suite will have to consist of tools & technologies enabling processes and functionalities such as: creating agreements and contracts
(normative impacts), measurements (actual impacts), assignments of the outcome-impacts and settlements (with or without the use of cryptocurrencies). A core research issue is how to integrate Context Based Sustainability (relations) with the Life Cycle Analysis approach (products, things) in a unified conceptual framework. Another issues is: how to give resources an identity. An international consortium is working on a White Paper as a building block for developing Proof of Concepts and pilot plans in two regions: the island of Samsø (Denmark) with “energy” as its use case and the northern Wadden Sea region (The Netherlands) with a social area of impact as use case. At a later stage more technical issues will be addressed, such as the use of the Holochain-innovation, possibly shifting the r3.0 initiative towards “Holochain for Sustainability”.

— Abstract of presentation from the Reporting 3.0 Global Thresholds & Allocations Council Meeting at the Royal Dutch Federation of Accountants in Amsterdam on 31 January 2018.