sOS_Working_paper_6: Proposta per l'Ordenança dels Espais d'Experimentació de Barcelona.

Introductory document (400 words, 1–2 min)

Social Operative System (sOS) is a scientific governance project aimed at exploring new forms of organization and decision-making in societies characterized by increasing complexity, interdependence, and technological acceleration. The project is grounded in a perspective of technological humanism and is structured through a scientific Decentralized Autonomous Organization (DAO), conceived as an operational infrastructure to execute, coordinate, and govern the deployment of sOS. The project is developed within a controlled experimentation environment (sandbox), which enables institutional mechanisms to be tested in a progressive, measurable, and reversible manner, in coherence with the principles of legal certainty, transparency, and democratic oversight.

One of the fundamental principles of sOS is that data belong to individuals. People continuously generate data through their personal devices and through the urban infrastructures they interact with, such as cameras, smart streetlights, traffic lights, environmental sensors, mobility systems, or digital services. sOS proposes to use these data exclusively under the control of their owners, with legitimate, legal, and ethical safeguards, to improve both public and individual decision-making. All data holders are co-owners of sOS.

The model enables the design of policies grounded in empirical and scientific evidence. At the collective level, aggregated and anonymized data can support more adaptive, contextual, and efficient public policies. At the individual level, the analysis of personal data—managed directly by individuals rather than by third parties—should facilitate better everyday decision-making, without imposition or automation. The development of personalized policy introduces a new social paradigm and, in all cases, technology acts as decision support rather than as a substitute for human will.

sOS also addresses the limitations of centralized artificial intelligence models, which tend to concentrate power, generate opacity, and create structural dependencies. In response to these limitations, sOS proposes a paradigm shift toward decentralized

artificial intelligence, oriented to the common good and under collective ownership and governance by society. Participants in the experiment share a common infrastructure and symmetric AI mechanisms to generate data-based consensus in a more transparent and auditable manner than current models.

Thus, governance within sOS is conceived as an emergent, decentralized, and adaptive social technology designed to empower civil society. From a technological perspective, sOS integrates Big Data, distributed artificial intelligence, and DLT / blockchain technologies as the foundation of transparent, trustworthy, and democratic governance, oriented toward the generation of transferable scientific knowledge.