

Towards Plurality Preserving Platforms

Challenges and Opportunities in Algorithmic Policymaking

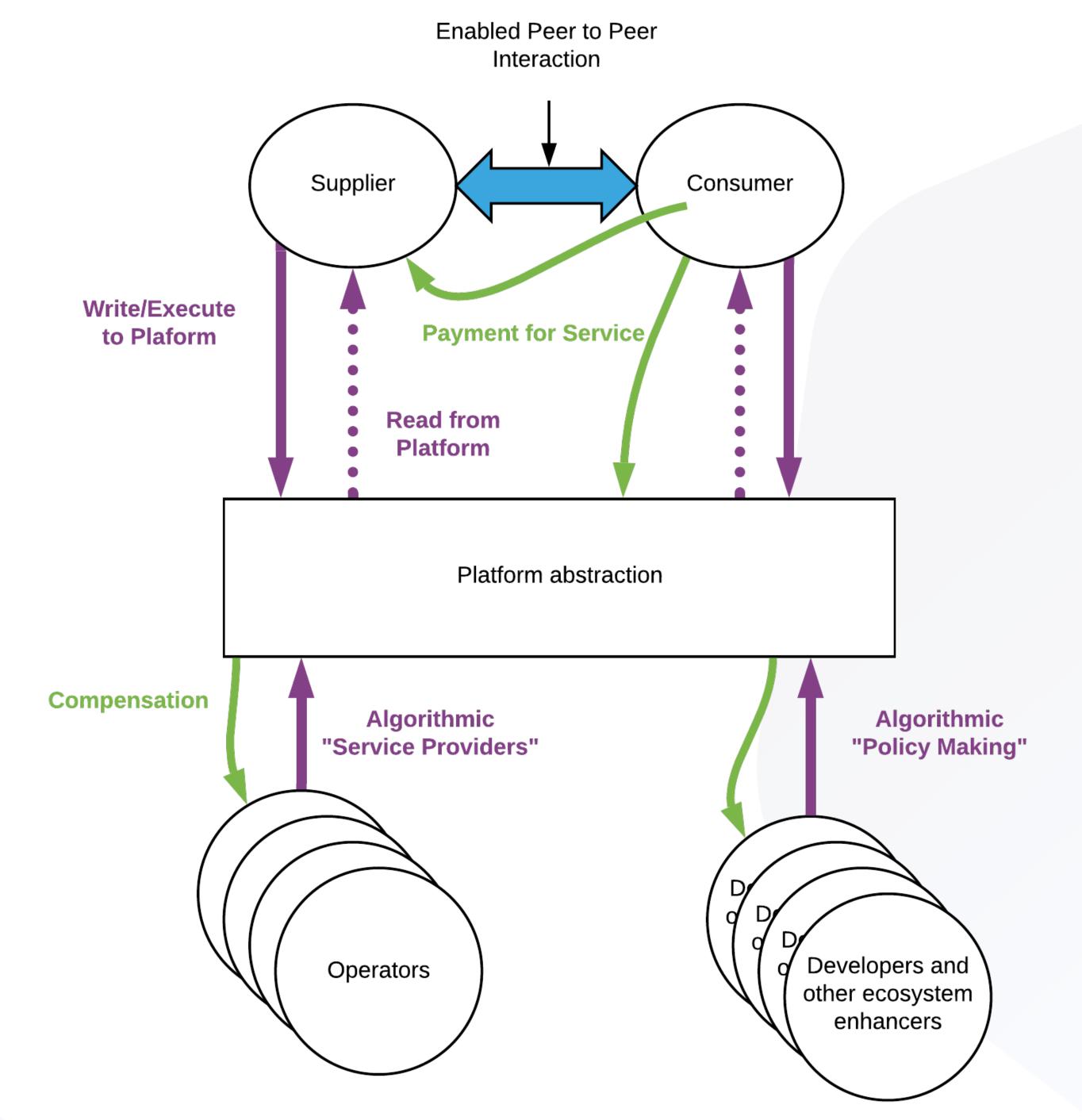
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Distributed Infrastructure for Common Good



Introduction

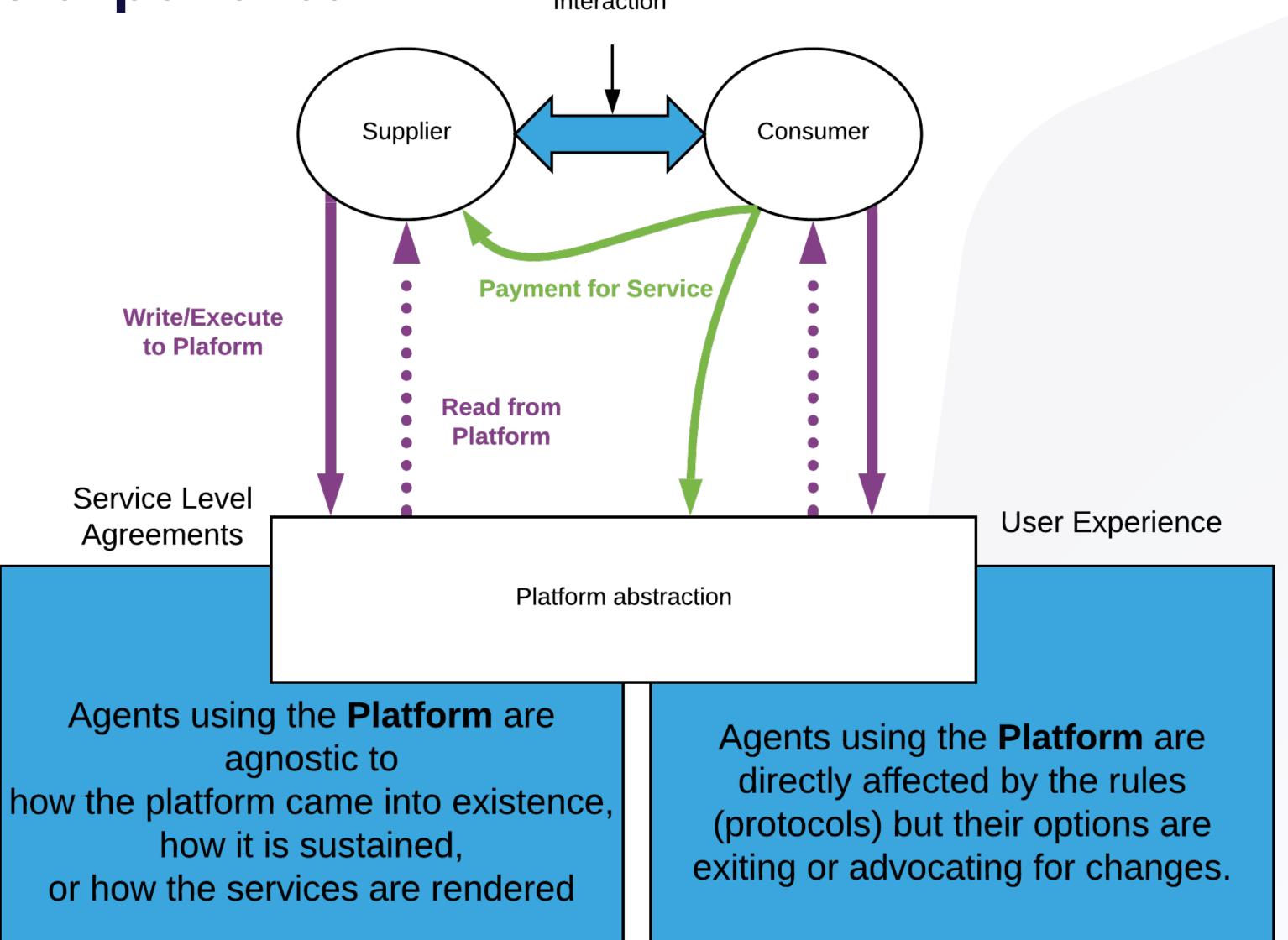
What is a "Platform" ?





How do users experience Enabled Peer to Peer Interaction

a platform?



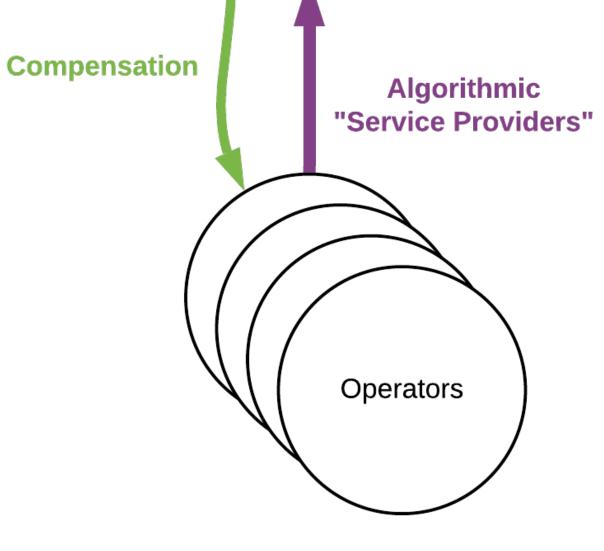


How do Operators experience

a platform?

Service Providers enabling the **Platform** are agnostic to the source or nature of the patform use, and benefit from contributing as long as their contributions are valued by the enabled community

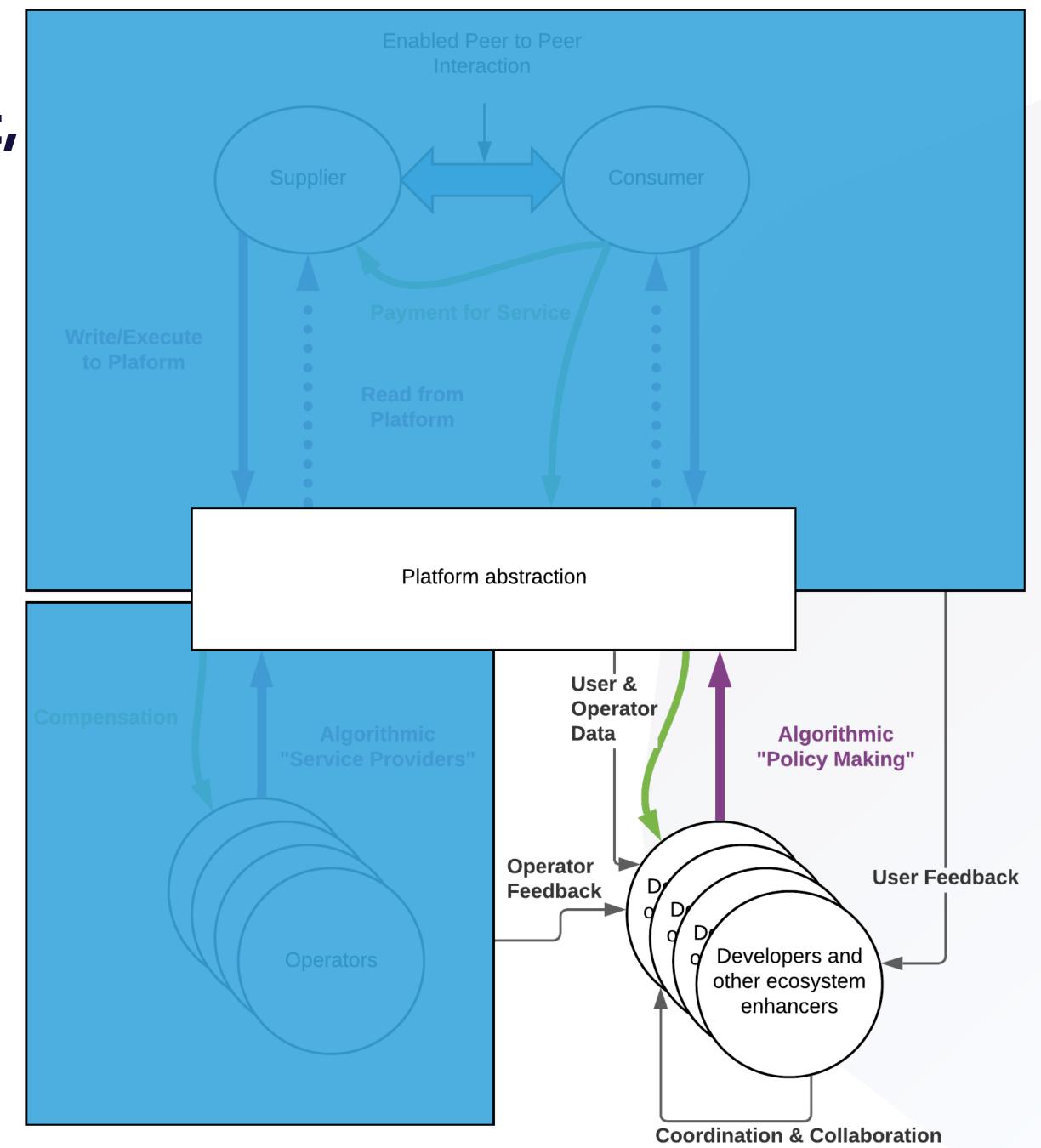
Platform abstraction



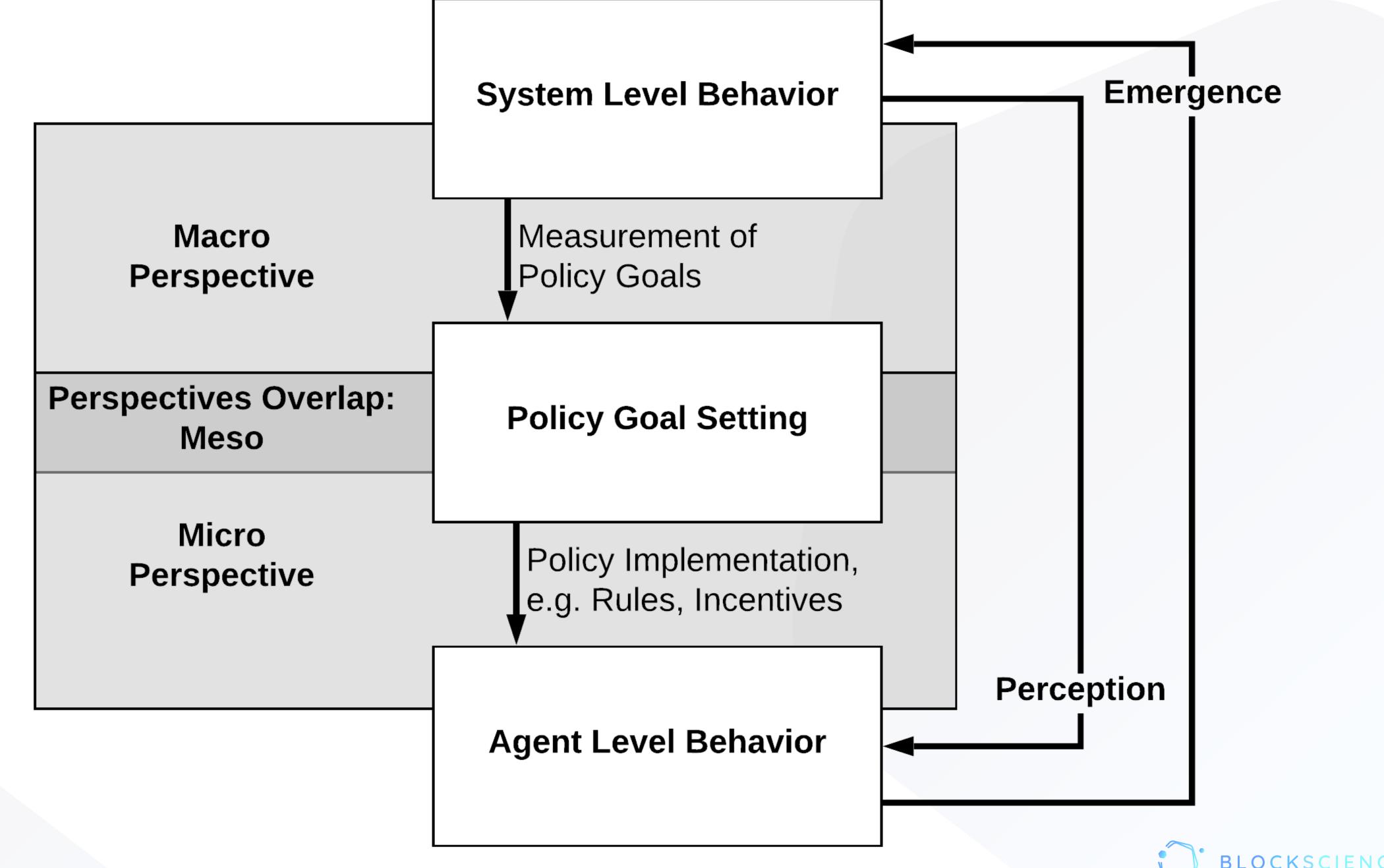
Service Providers enabling the **Platform** are directly affected by the rules (protocols) but their options are exiting or advocating for changes.



What about
Software Development,
Mechanism Design &
and Governance?



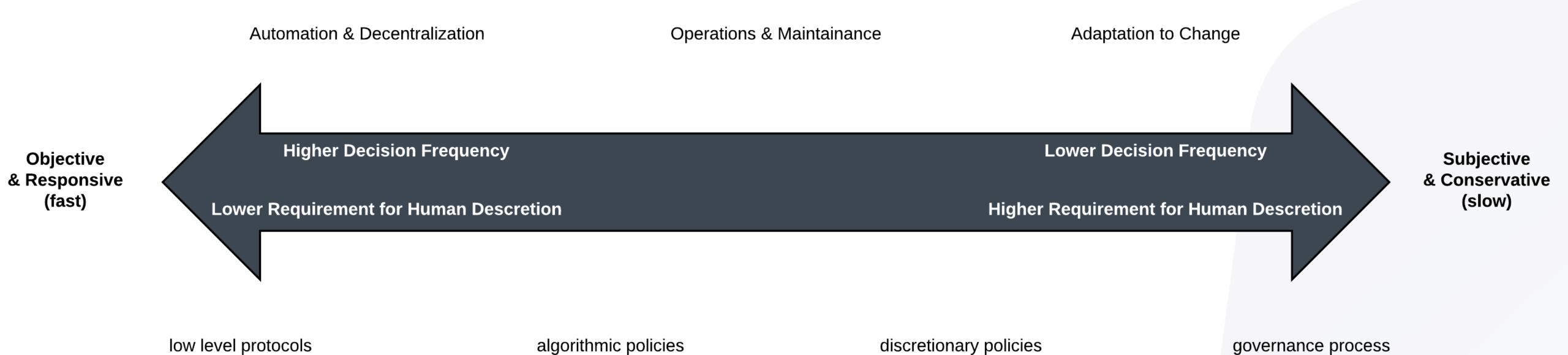






Challenges

Decision Making Objectives

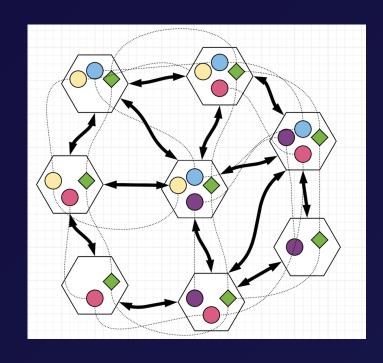


Decision Making Mechanisms

- Algorithms automate the execution of rules
- Consequences of actions are transparent
- Rely on observable data
- Susceptible "Goodhart's Law"
- Enshrine the subjectivities of the algorithm designer

Mindful of "Subjective" Choice of "Objective" Measures





Economic









Value Flows:	Macro State Evolution (Global Goals)
Local Agent Behavior:	Product of Mechanisms, Incentives and context
Interaction Patterns:	Definition of Mechanisms and Incentives (Local Constraints)
Trusted Computation:	Cryptographically guaranteed Execution of Code
Durable Data:	Trustworthy State Information



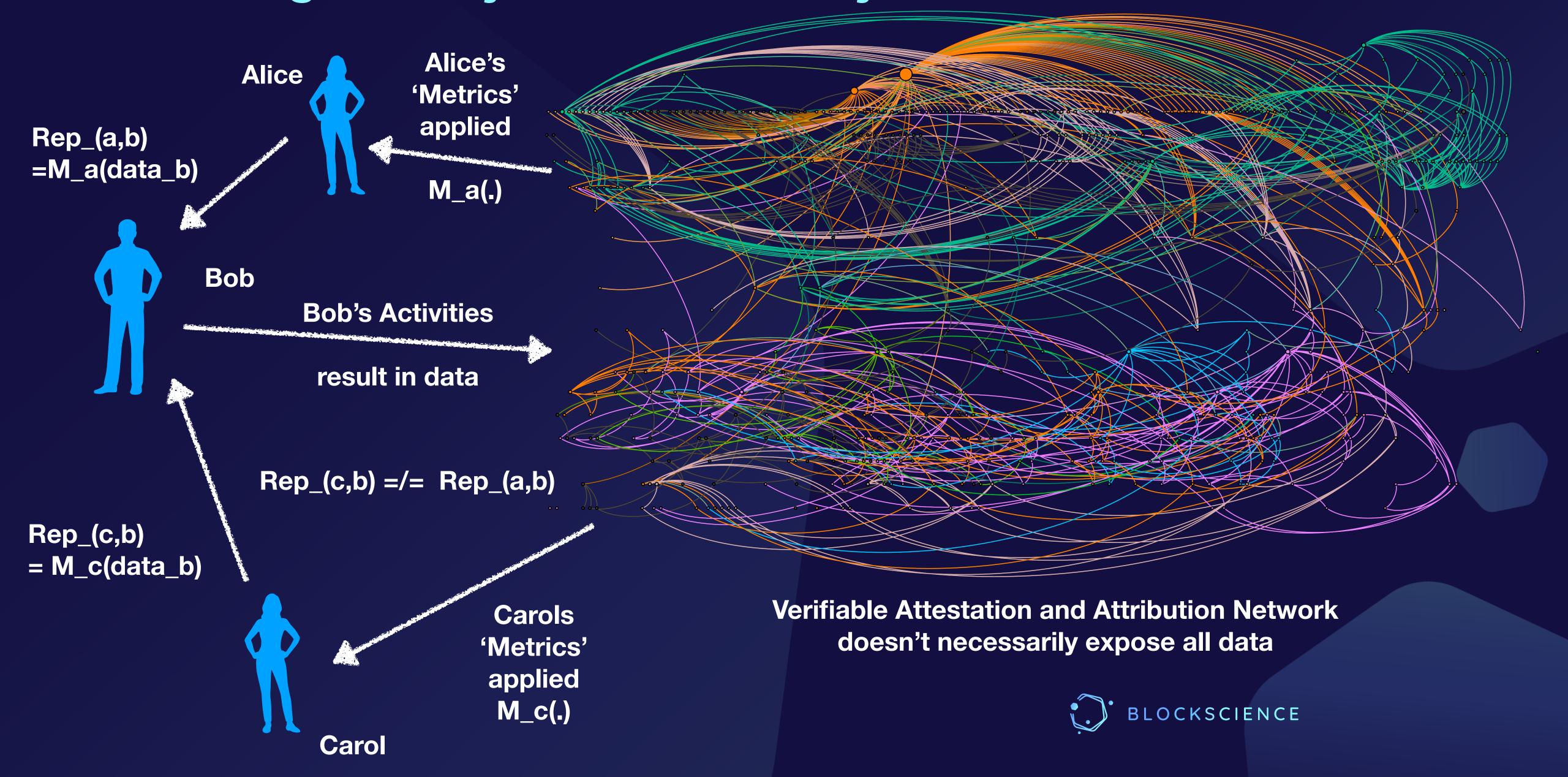
Choice of Measure is inseparable from the system itself and its outcomes



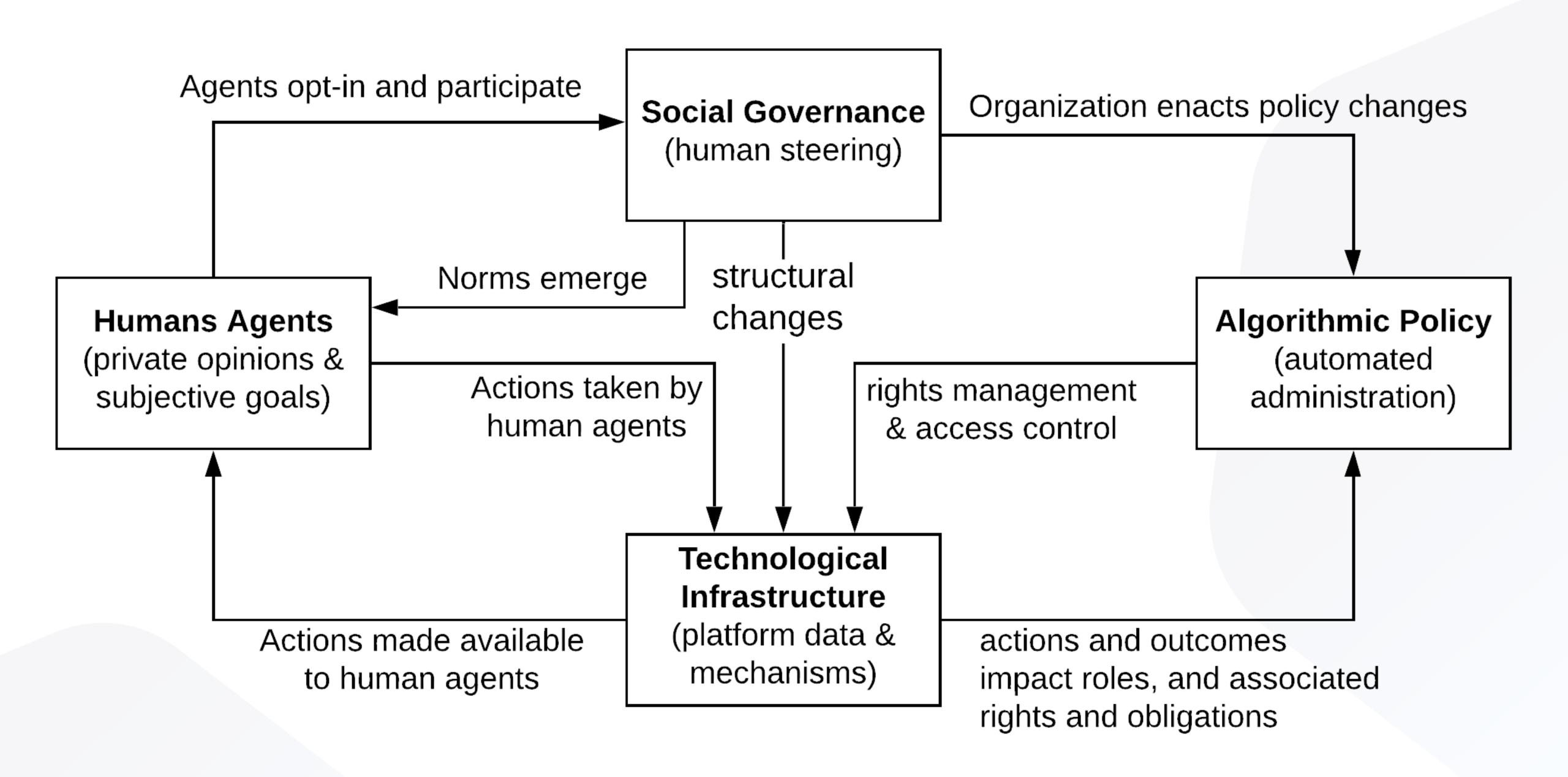


Opportunities

Avoiding God's Eye Measurement Systems



Network Structure & Subsidiarity System Level Behavior Emergence Measurement of Macro Policy Goals Perspective **System Level Behavior** Emergence Perspectives Overlap: **Policy Goal Setting** Meso Measurement of Macro Policy Goals Perspective Micro Policy Implementation, Perspective e.g. Rules, Incentives Perspectives Overlap: **Policy Goal Setting** Meso Perception **Agent Level Behavior** Micro Policy Implementation, Perspective e.g. Rules, Incentives Perception **Agent Level Behavior** Emergence **System Level Behavior** Measurement of Macro Policy Goals Perspective **Perspectives Overlap: Policy Goal Setting** Meso Micro Policy Implementation, **Perspective** e.g. Rules, Incentives Perception **Agent Level Behavior** BLOCKSCIENCE





Examples

Some (ongoing) Experiments In Platform Self-Governance

Computer Aided Governance in the Filecoin Ecosystem

https://www.youtube.com/watch?v=N9vmQhWyMF4

Participatory Data Science: Fraud Detection and Defense in Gitcoin DAO

https://medium.com/block-science/operationalizing-the-gitcoindao-anti-sybil-process-7f2595544f44

Participatory Parameter Selection: Token Engineering Commons

https://archive.org/details/green-metagov

Pushing Human Decision Making to the Edges with 1 hive Gardens

https://about.gardens.1hive.org/

Participatory Digital Ethnography with MetaGov & SourceCred

Publication Coming Soon!



Thank You.