📰A permissioned multi-chain ecosystem purpose-built to serve as Regulatory-Compliant Digital Public Infrastructure (DPI)

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Digital Public Infrastructure (DPI) offer a new way to build and manage critical infrastructure by leveraging decentralized networks. These systems provide key services such as digital infrastructure, data exchange, and service coordination. However, despite their potential, DPI systems face significant challenges. These include strong centralization, single point of failure, interoperability issues between different platforms, regulatory complexities, lack of standardization, and high barriers to entry for both new participants and infrastructure contributors.

Currently, each DPI operates its own separate infrastructure and network specifically in different geographies due to regulatory complexities. This fragmented approach limits collaboration and discourages new players, even if they possess the necessary hardware like servers, GPUs and IoT devices. Moreover, separate systems for every purpose-built DPI use-cases make it harder to deliver strong value propositions to both active and passive contributors. If DPIs were part of a broader decentralized digital public infrastructure, the value for users and contributors would significantly increase.

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To solve these challenges, we introduce **Kalp**—a permissioned multi-chain ecosystem, purpose-built to serve as **Regulatory-Compliant Decentralized Digital Public Infrastructure (DPI)**. Kalp simplifies onboarding nation-wide DPI projects within its Decentralized and Digital Public Infrastructure(DPI) framework, improves interoperability, and enhances the overall value proposition for every participants. This whitepaper outlines how Kalp can help create more standardized, efficient, and scalable decentralized infrastructure networks, unlocking new opportunities for innovation and growth.

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