

## Diversifying the Usage of Identifiers: Expanding the ccTLD Portfolio Beyond the Names System

**Key Concept: ccTLDs** (Country Code Top-Level Domains) are traditionally part of the **Domain Name System (DNS)**, representing a country's online space (e.g., .tv, .pg, .in)

*“By leveraging blockchain technology, decentralized identities, and specialized services, ccTLDs can go beyond traditional DNS roles and become cornerstones of national digital strategies, secure services, and global branding opportunities”*

### Thought Provoking Opportunities for Expansion:

#### 1. Blockchain Integration:

**Decentralized DNS:** Utilize blockchain-based DNS for censorship-resistant, secure, and transparent domain resolution.

**Linked Identifiers:** Partner with organisations such as D3 who are leading the WEB3 space in cross-platform collaboration to drive multiple use cases

#### 2. New Services and Digital Applications:

**Digital Sovereignty:** Use ccTLDs as anchors for **national digital services**, secure government portals, and e-commerce.

**National Digital Identity Systems:** Expand ccTLDs to offer verified **digital identities** for citizens and businesses.

#### 3. Internationalization & Branding:

**Specialized Uses:** Market ccTLDs for industry-specific purposes (e.g., .tv for media, .ai for artificial intelligence).

**Multilingual Domain Names:** Support **Internationalized Domain Names (IDNs)** for ccTLDs to reach global audiences with diverse languages.

#### 4. Security & Infrastructure:

**DNSSEC and Beyond:** Implement **DNSSEC** to ensure authenticity and prevent spoofing; explore **blockchain-enhanced security**.

**Decentralized Hosting:** Pair ccTLDs with decentralized hosting solutions (e.g., **IPFS**) for greater resilience and uptime