

The Digital Object Identifier (DOI®) System



10.1000/182

The Global Standard for Persistent Identification,
Interoperability, and Content Management.

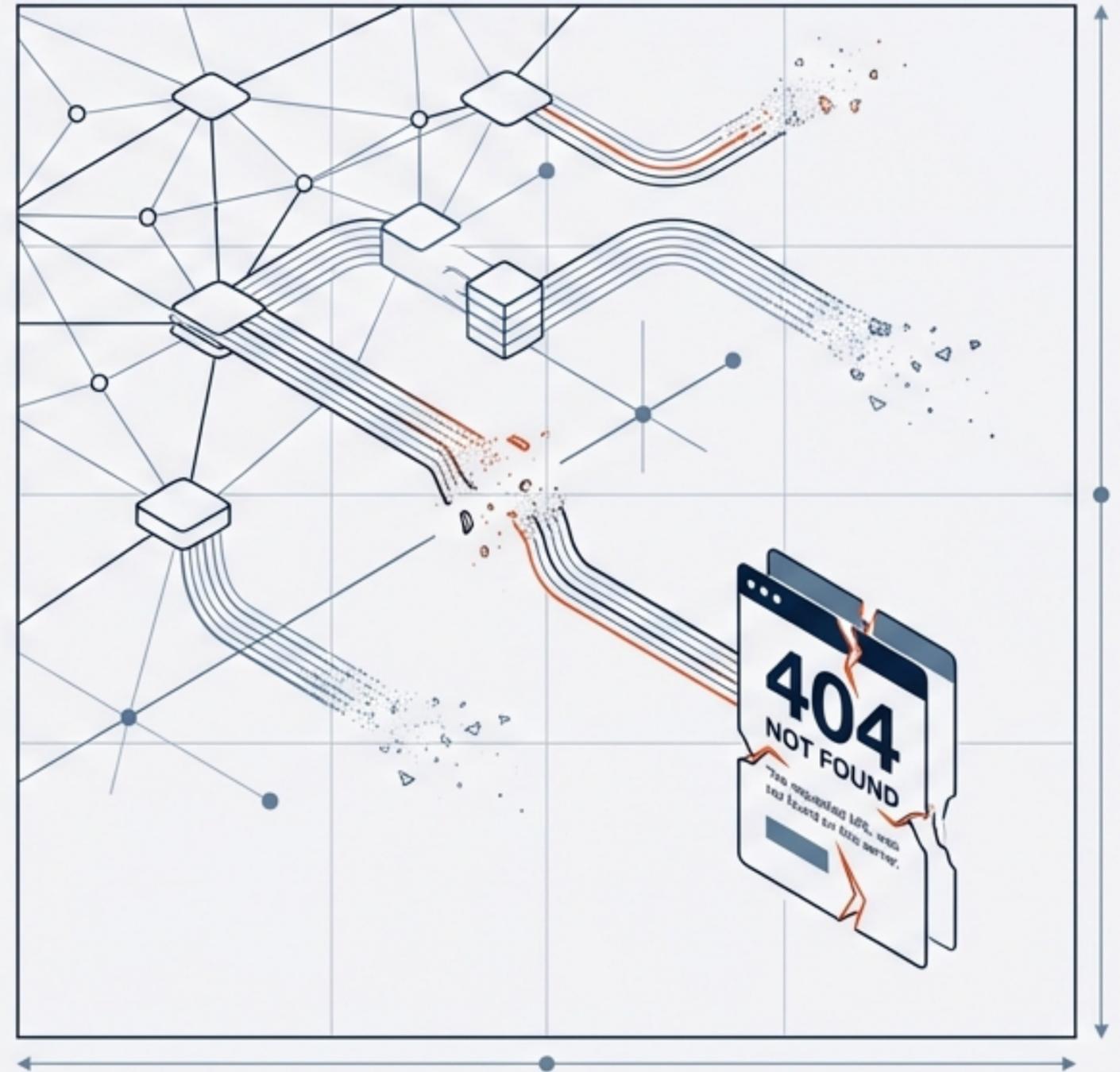
Slate Blue

BASED ON ISO 26324 STANDARD AND INTERNATIONAL DOI FOUNDATION (IDF) FRAMEWORKS

The Challenge: Stability in a Shifting Web

URLs do not identify content; they identify a location. When files move, the intellectual connection is lost. Reliable automation requires identifying WHAT an object is, not WHERE it is.

“Persistence is the requirement that once assigned, an identifier denotes the same referent indefinitely.” — Norman Paskin



Defining the DOI: A Contract of Permanence

The DOI is a managed system for the persistent identification of content on digital networks. It applies to physical, digital, or abstract entities. Georgia Pro



Persistent
Identifier never changes



Unique
One string denotes one entity



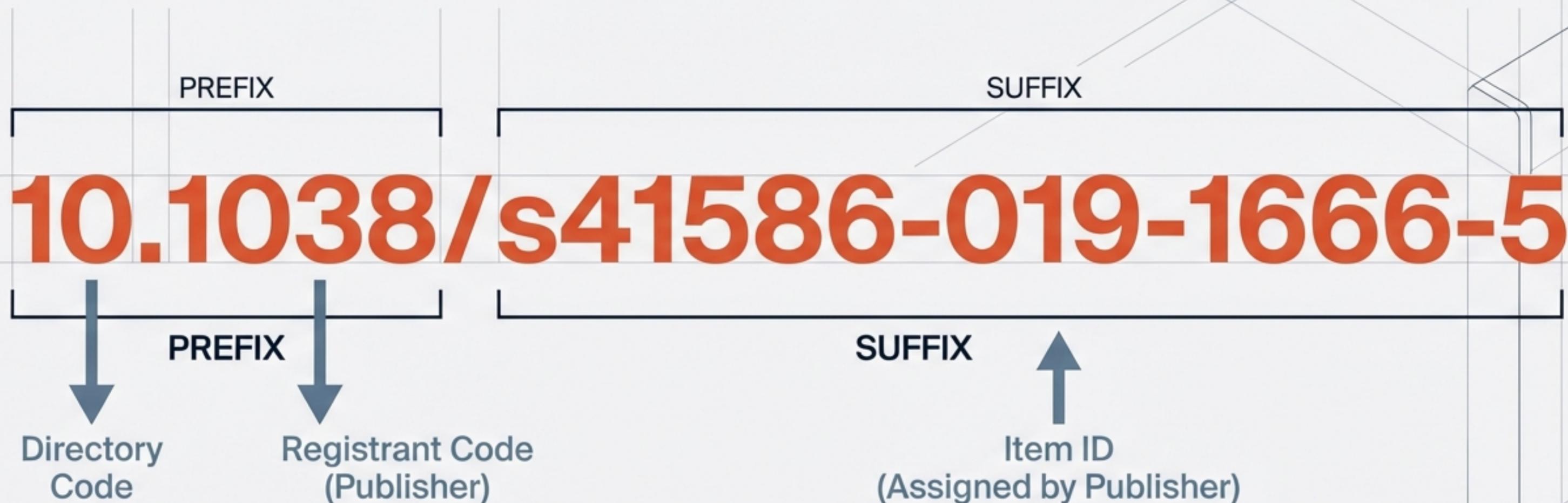
Resolvable
Returns current location/metadata



Interoperable
Works across platforms

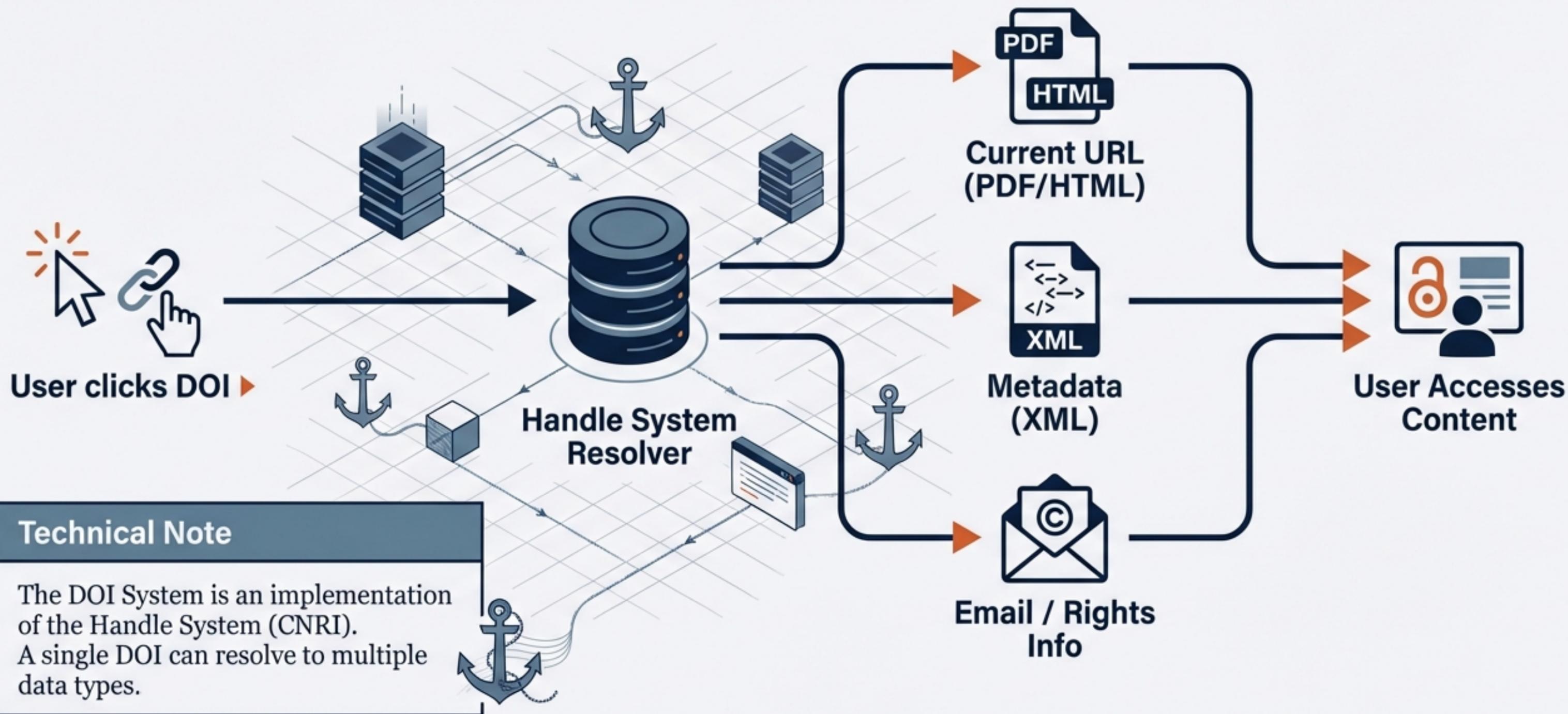


Anatomy of an Identity

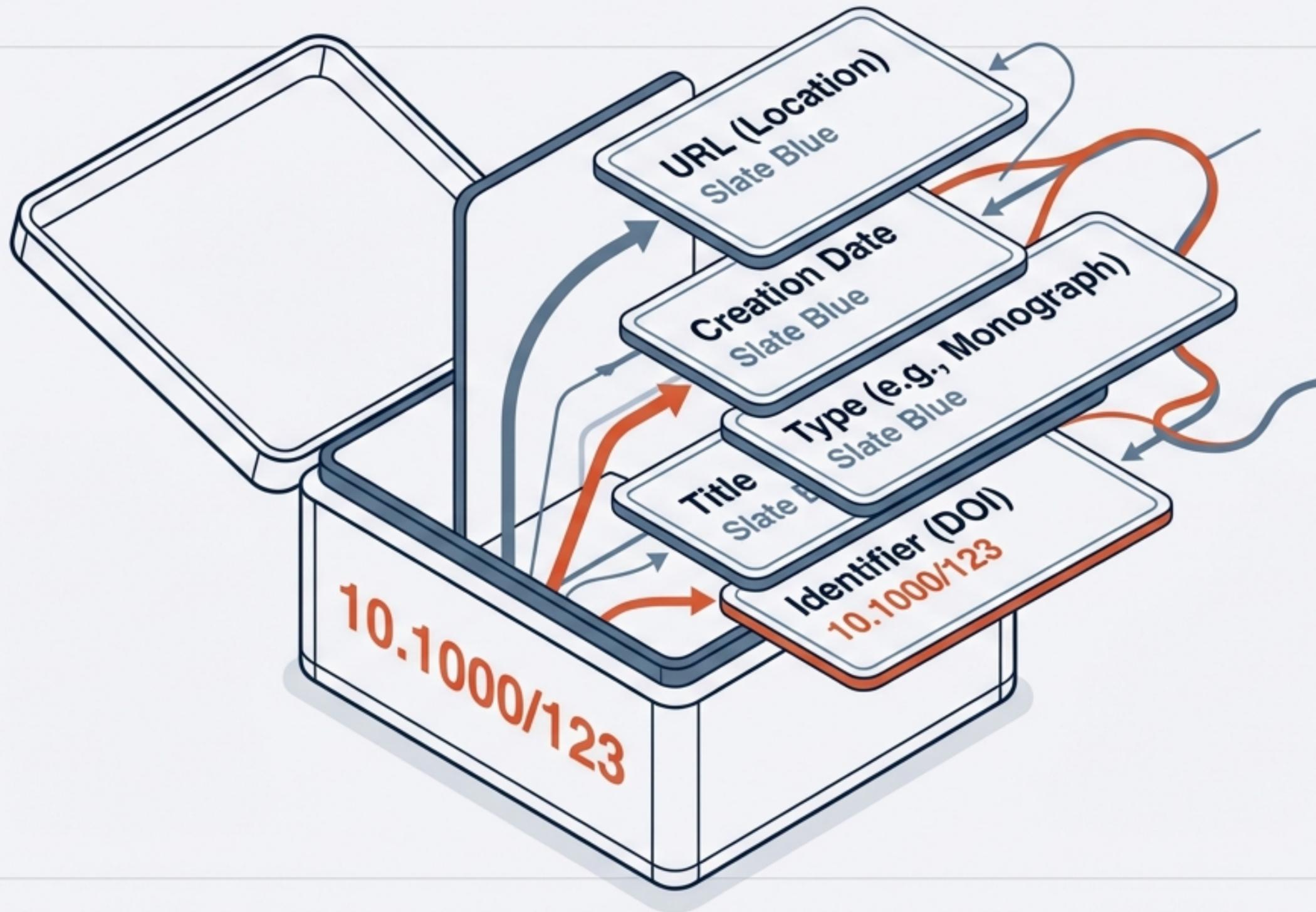


- Case-insensitive & Unicode compliant.
- Opaque String: The numbers imply nothing about the content.
- Assigned by a Registration Agency.

The Engine: Resolution & The Handle System



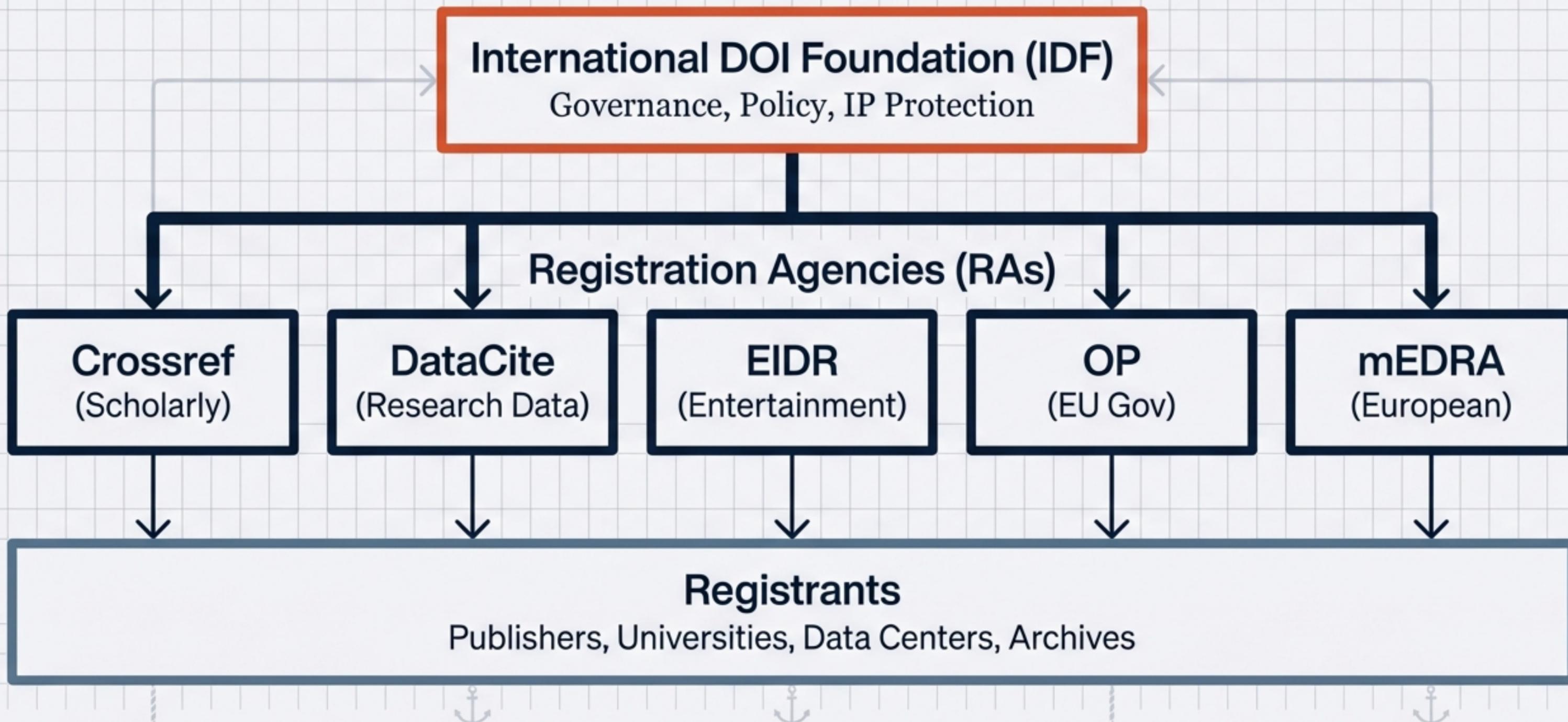
Metadata: The Intelligent Context



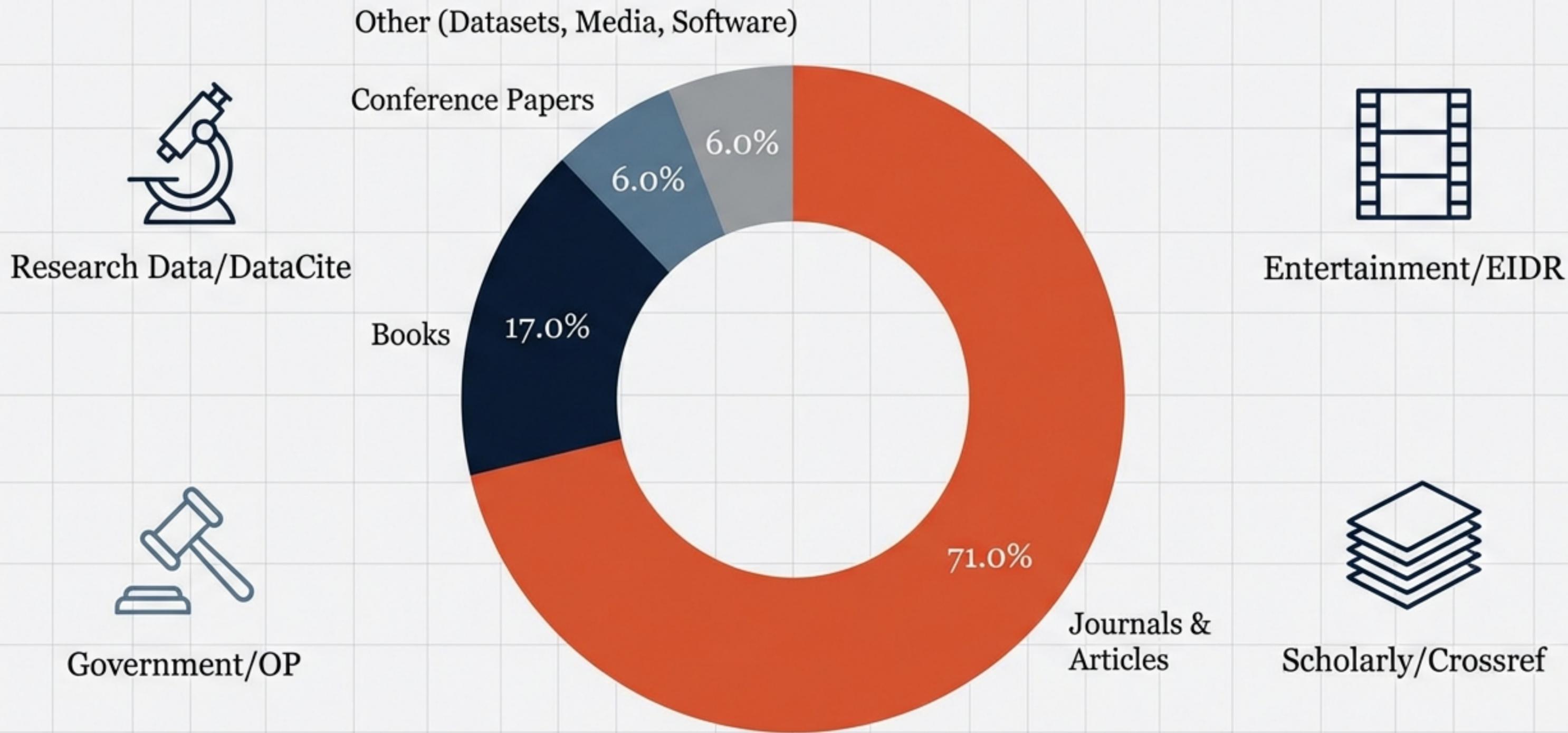
A number without context is useless. The DOI System uses the 'indecs' framework to ensure semantic interoperability.

Dynamic Updating: The URL can change, but the DOI and Metadata remain constant.

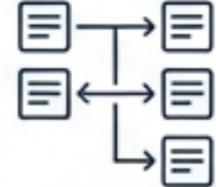
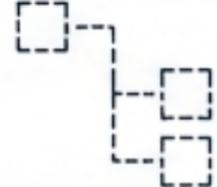
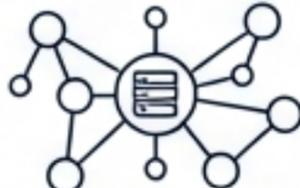
The Ecosystem of Trust



Applications Across Sectors



The Gold Standard: DOI vs. Traditional URL

Feature	DOI System (The Standard)	Traditional URL (The Link)
Persistence Georgia Pro	 (Managed, Permanent) 	 (Prone to Link Rot) 
Metadata Georgia Pro	 (Structured, Standardized) 	 (None/Variable) 
Rights Protection Georgia Pro	 (Traceable) 	 (Variable) 
Retrievability Georgia Pro	 (Global Resolvers) 	 (Location Dependent) 
Link Rot Resistance Georgia Pro	High 	Low 

Unlocking Value for Users & Providers



For the User (Researcher)

Reliability



Citations
never break.

Efficiency



One-click
access to Version
of Record.

Transparency



95% of DOI
citations are
are open.



For the Provider (Publisher)

Brand Integrity



No version
confusion.

Traffic



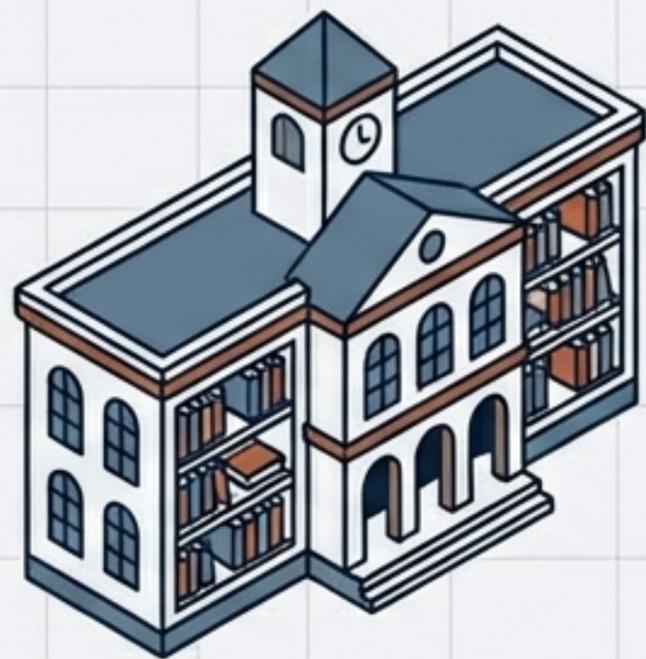
'Cited-by' links
drive readership.

Asset Management



One ID for sales
and rights.

Who Relies on the DOI System?



Academia

Georgia Pro

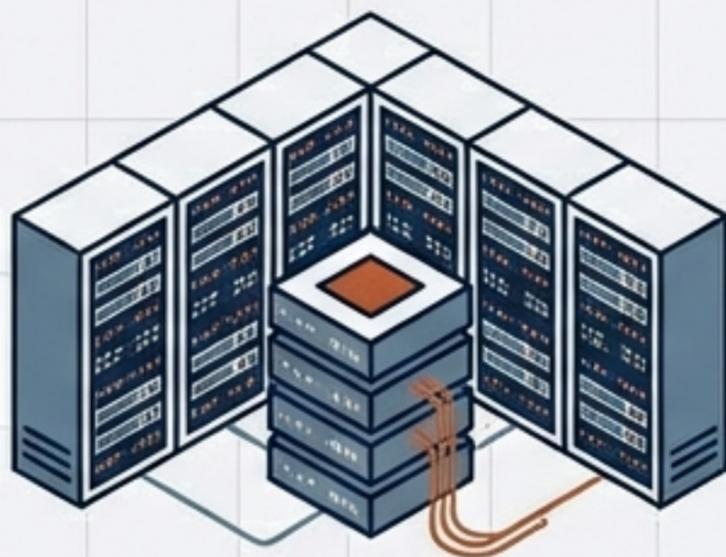
Researchers,
Librarians,
Universities.



Publishers

Georgia Pro

Commercial,
Open Access,
Government.



Data Managers

Georgia Pro

Repositories,
Archives,
Scientific Datasets.



Media Industry

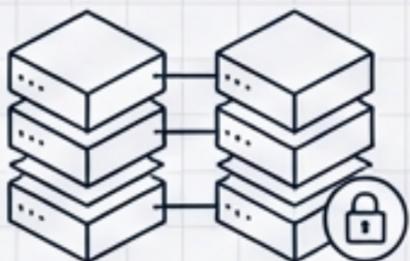
Georgia Pro

Film, Audio, and
Video Distributors.

Global Impact by the Numbers (2025)

1.1 Billion

Monthly Resolutions (Access Attempts)



167 Million+

Registered Records

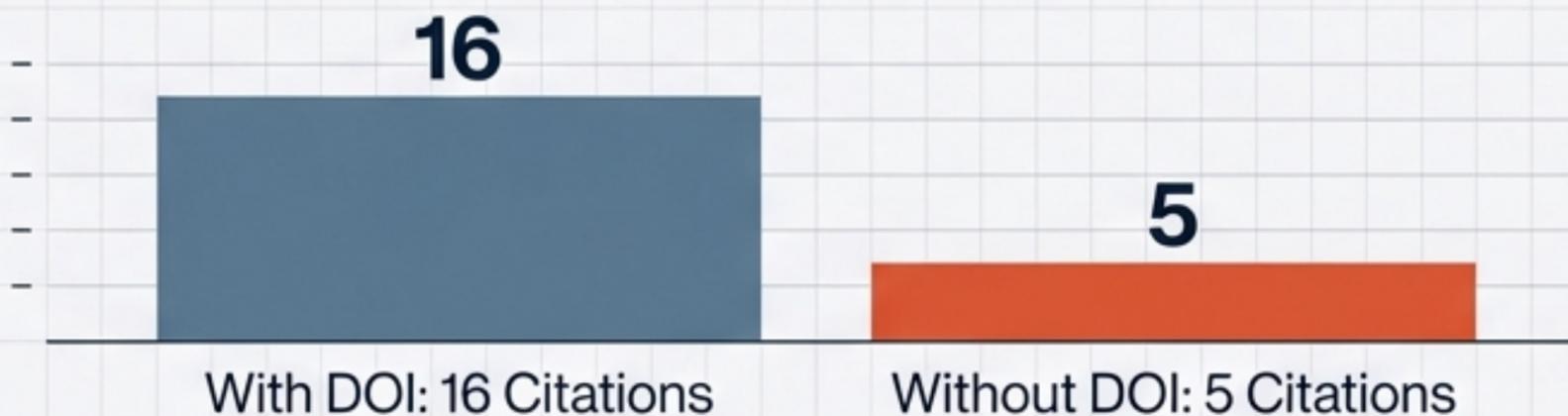


150+

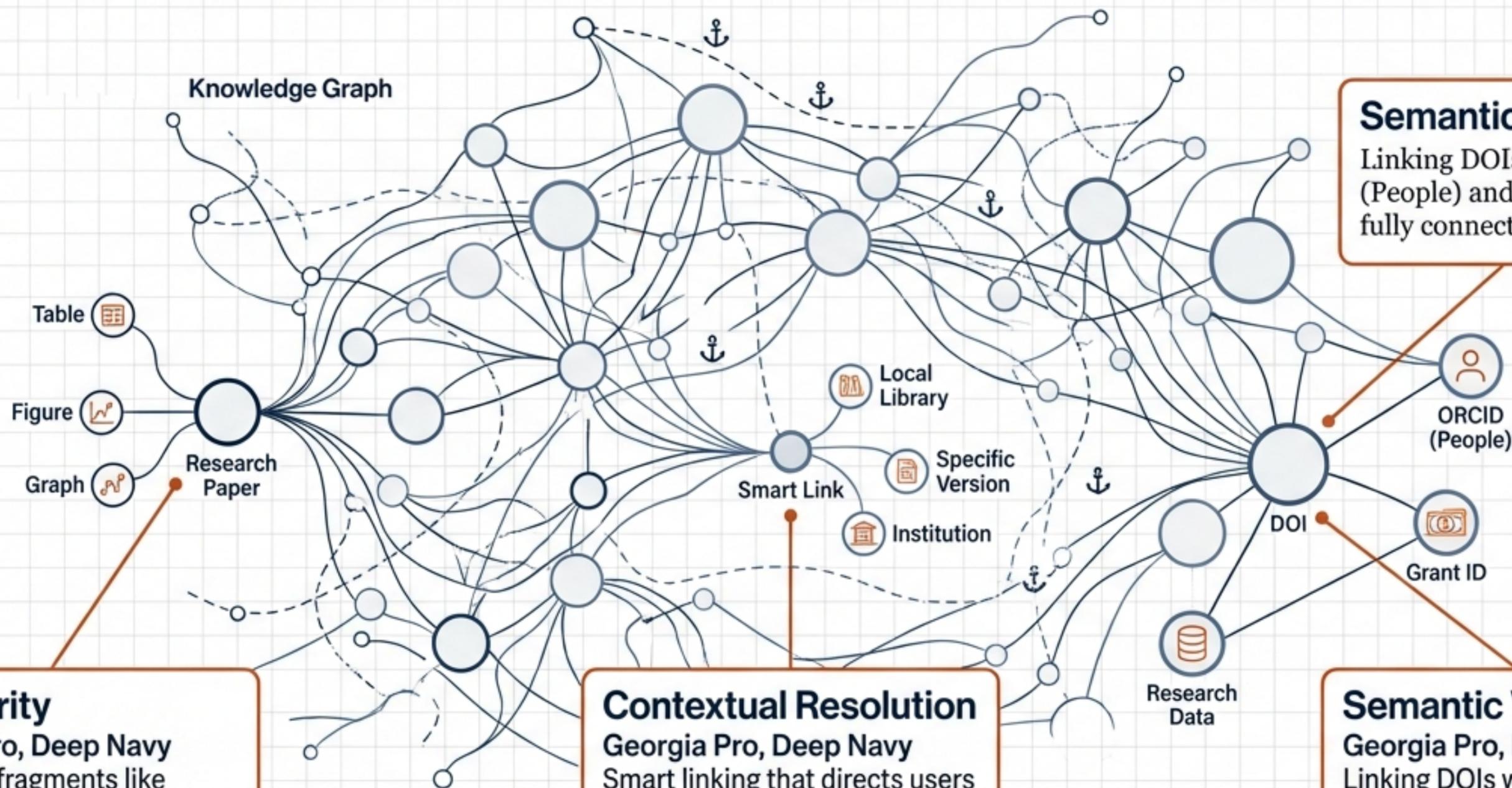
Participating Countries



Average Citation Count



Future Directions & Advanced Functionality



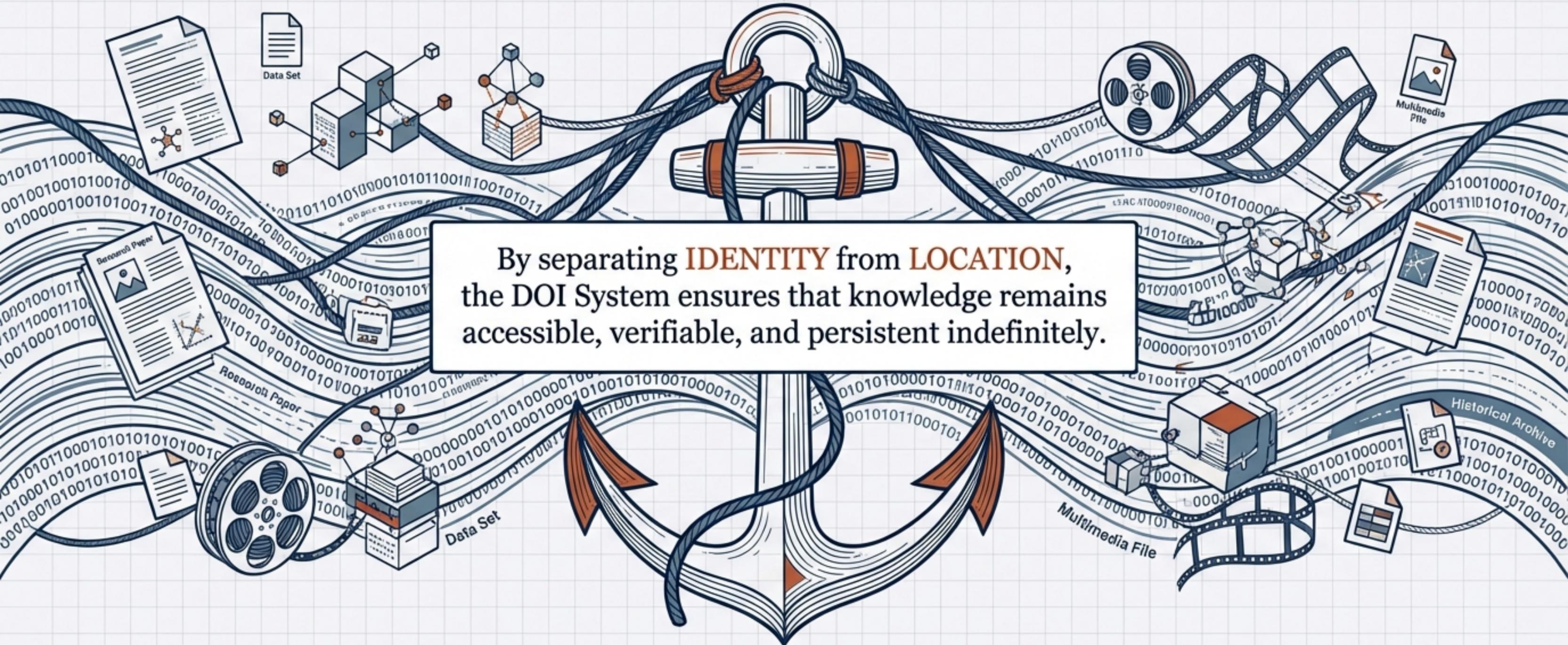
Granularity
Georgia Pro, Deep Navy
Identifying fragments like tables, figures, and graphs within a single work.

Contextual Resolution
Georgia Pro, Deep Navy
Smart linking that directs users to local library holdings or specific versions.

Semantic Web
Linking DOIs with ORCID (People) and Grant IDs for a fully connected ecosystem.

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The Infrastructure of Trust



By separating **IDENTITY** from **LOCATION**, the DOI System ensures that knowledge remains accessible, verifiable, and persistent indefinitely.

Adopt the Standard. Join the Infrastructure.