# Metadata for rights reservation & beyond

## Recommendations by the Article 4 WG of STM

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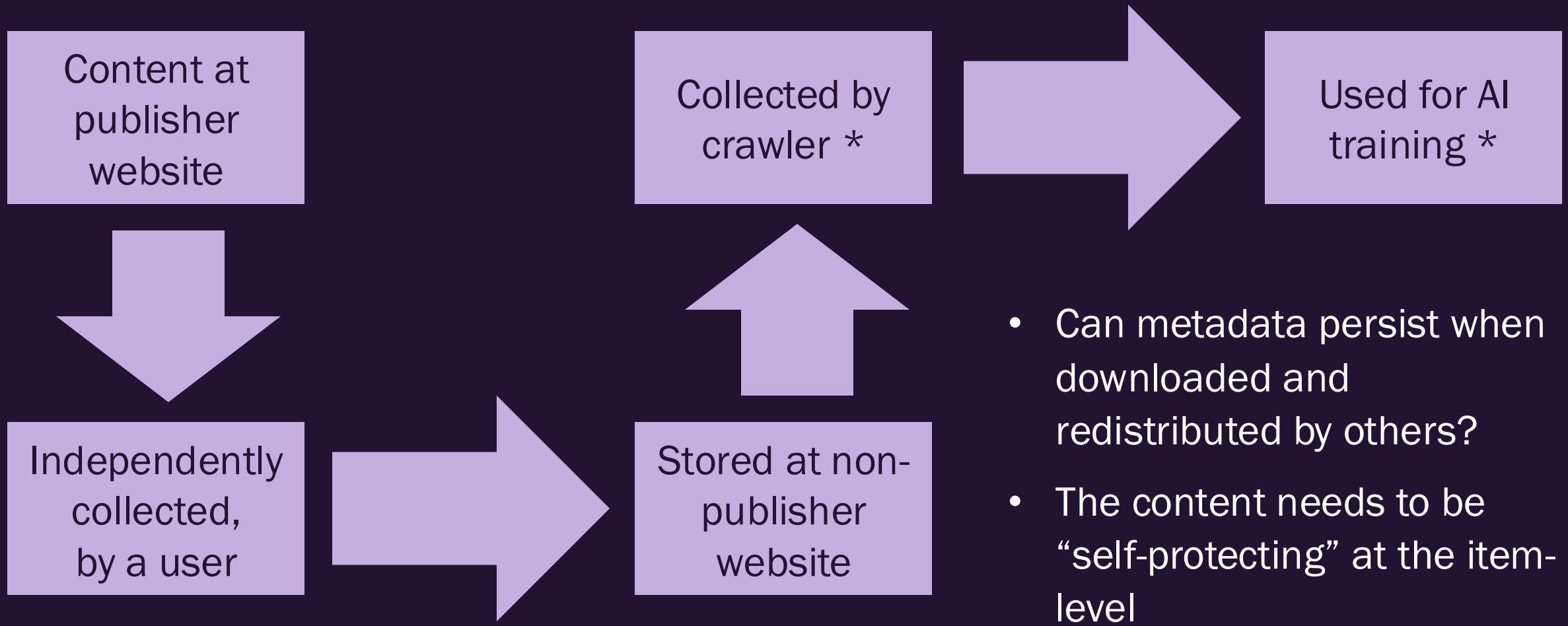
Working Group Members

- ACS
- APA
- Elsevier
- Highwire Press
- IEEE
- JAMA
- Springer Nature
- Taylor & Francis
- Wiley
- STM

# The Problem : redistributed content




- Can metadata persist when downloaded and redistributed by others?
- The content needs to be “self-protecting” at the item-level

# Machine-readable solutions : W3C TDMRep for Web

- TDM Reservation Protocol (TDMRep)
  - See https://www.w3.org/2022/tdmrep/
- A simple and practical Web protocol, expressing the reservation of rights relative to TDM, and to ease the discovery of TDM licensing policies associated with specific content.
- Can be implemented – in a very targeted way:
  - Can include a reference to a specific license policy
  - As an origin server file (like robots.txt)
  - As a TDM Header Field in HTTP responses
  - As TDM Metadata in HTML content
  - As TDM Metadata in EPUB publications

```
[{
    "location": "/",
    "tdm-reservation": 1,
    "tdm-policy": "https://publishe
}]
```

```
HTTP/1.1 200 OK
Date: Wed, 14 Jul 2021 12:07:48 GM
Content-type: text/html
tdm-reservation: 1
tdm-policy: https://provider.com/p
```

```
<head>
  <meta charset="utf-8">
  <meta name="tdm-reservation" co
  <meta name="tdm-policy" content=
  <title>Document title</title>
</head>
```

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# Machine-readable solutions : Extend W3C TDMRep for PDF

- Embedding the “reservation” flag and “policy” location in standard PDF XMP metadata.
- Can point to the same TDM policy as your web content or a different policy.
- Travels with the PDF

```
<rdf:RDF xmlns:rdf="http://www.w3
  <rdf:Description rdf:about=""
        xmlns:xmp="http://ns.adobe
        xmlns:xmpMM="http://ns.ad
        xmlns:xmpRights="http://n
        xmlns:tdm="http://www.w3.
    <tdm:reservation>1</tdm:reser
    <tdm:policy>
      https://publisher.com/polic
    </tdm:policy>
 </rdf:Description>
</rdf:RDF>
```

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# Example: Rights reservation policy for EU Directive Article 3 & 4



- Machine-readable policy file based on W3C ODRL Recommendation.
- STM WG extended the purpose constraint to identify and include Article 3 TDM Actors
- The TDM policy may be further extended for additional directives or laws.

```
{
  "target": "https://provider.com/description",
  "action": "tdm:mine",
  "duty": [{
    "action": "obtainConsent"
    }
  ],
  "constraint": [{
    "odrl:leftOperand": "purpose",
    "operator": "neq",
    "odrl:rightOperand": "stm:article3"
    }
  ]
}
```

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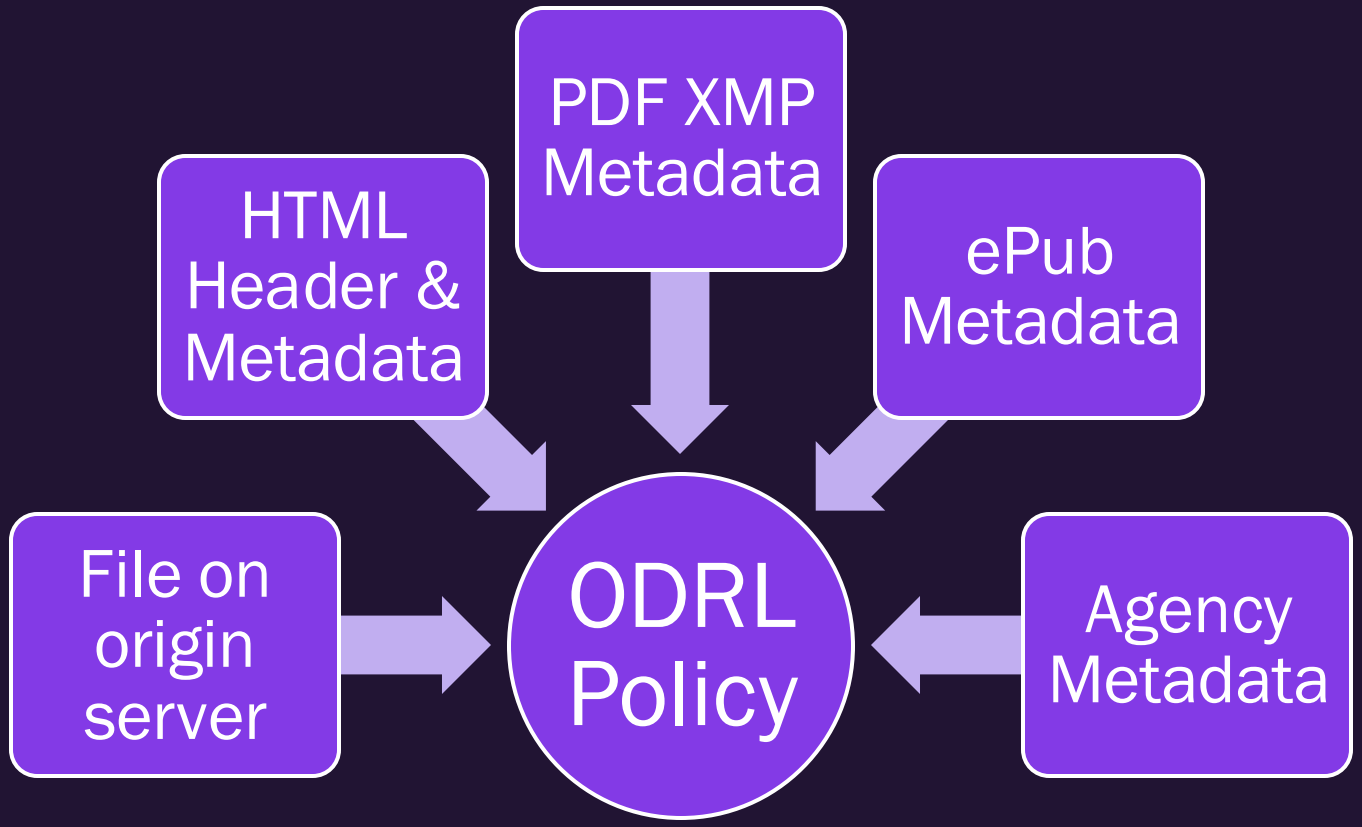
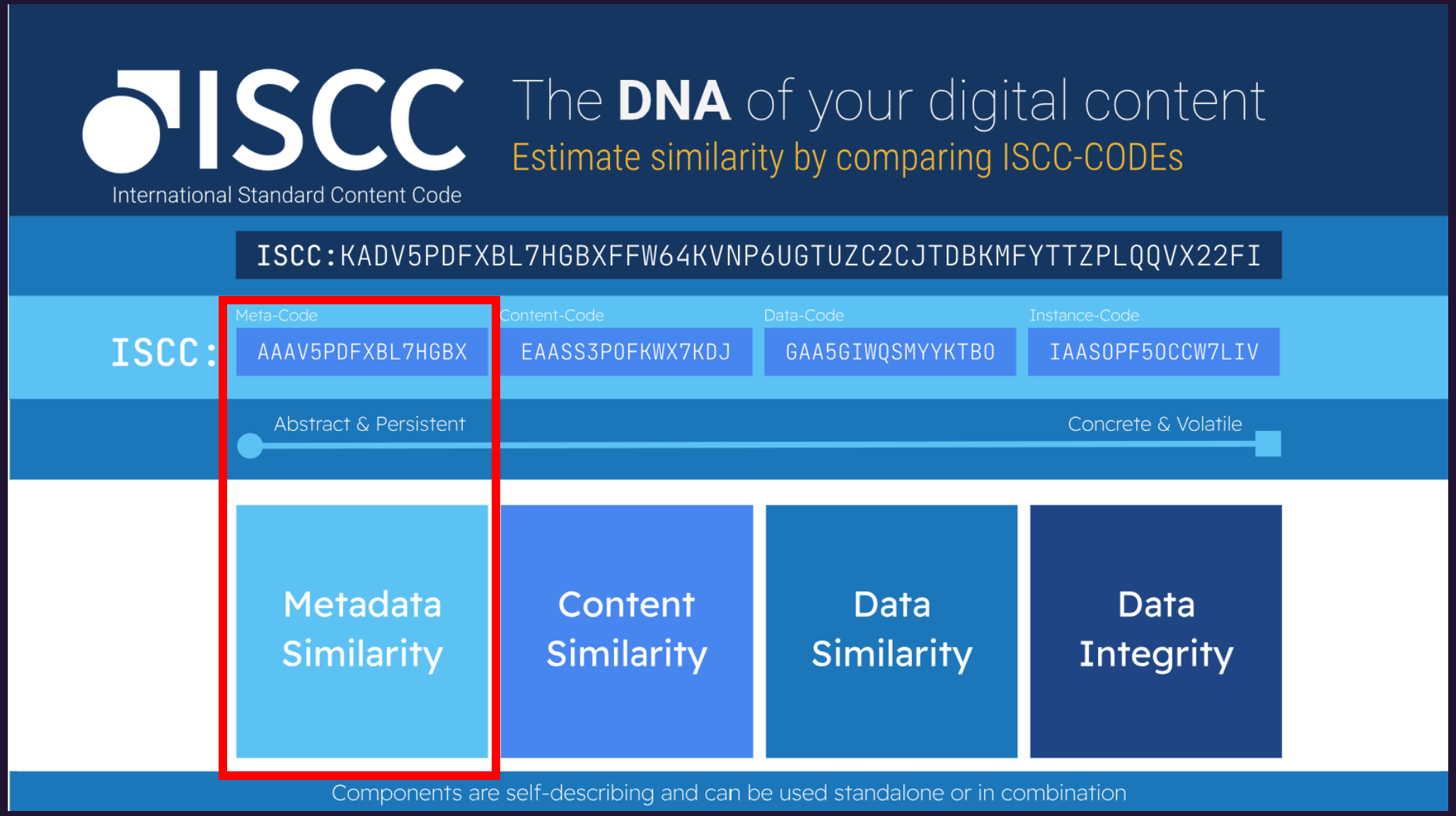
# All roads lead to a central rights reservation metadata



# ISCC for Metadata storage & integrity (iscc.codes)

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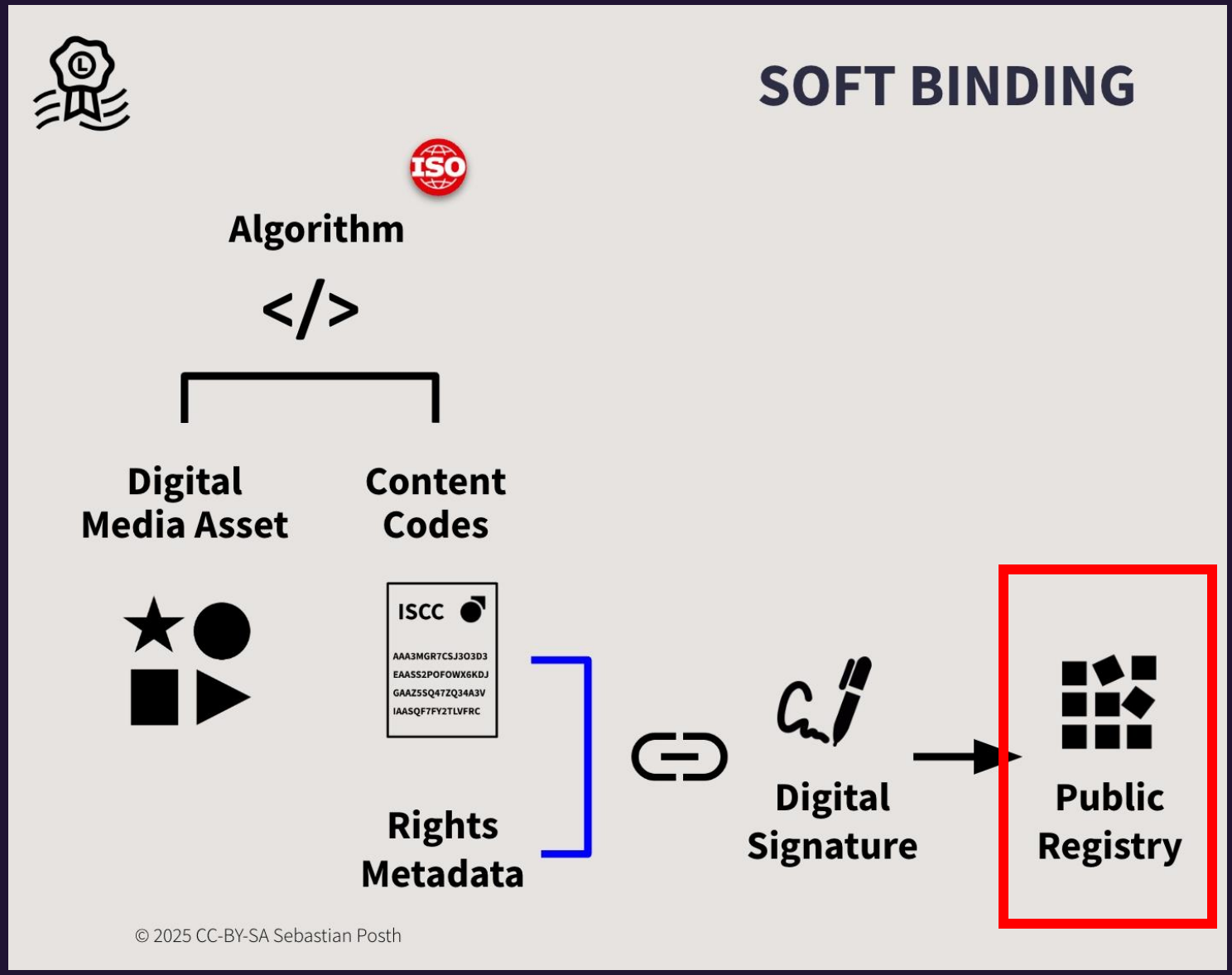
# Registries like Liccium.com for soft binding of metadata

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