Smart Content Block

MIT/law Open Project

Project Team

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Identifying and Exploring the Ethereum Blockchain

Example:

http://etherscan.io/block/890199

Where is the entire Blockchain? How can it be maintained and accessible as a basic infrastructure service such that any person or organization could inspect, explore, validate and integrate the contents into their own content and processes?

Conceptual Architecture for **Smart Content Blocks**

Working Version for Innovations (soon to be for content blocks):

Registry: (approx line 18)

https://github.com/OpenInnovationNetwork/Projects/blob/gh-pages/js/projects_retrieval.js

Display:

http://openinnovationnetwork.github.io/Projects/

Distributed Contract Clause Bank

Publicly verifiable provenance of each part of documents/contracts.

- Know the source, track usage, model performance/dispute
- Therefore, choice of clauses and combinations of clauses can be optimized for various objectives (price, speed of deal, low risk, etc)

Example:

* https://github.com/UMKC-Law/DataSharingAgreement/wiki/August-28,-2015

* https://github.com/UMKC-Law/DataSharingAgreement/tree/master/ClauseBank

Clauses and Templates in Context of Processes

The “Smartness” is in combining the legal clauses/templates (contracts, loans, licenses, other legal instruments) into a holistic fabric of the business processes they are a part of. Including the:

- Workflows
- Approval Chains
- Production Lines

Artifacts

Presentation @May of Demo and Concept and Vision of Potential Via Blockchain

Feedback Session at MIT for Validating/Modifying the Concept

Special Demo/Discussion Session at MIT for Lead up to the May MIT/law Event.

Models, Flows and Other Diagrams of This Approach:

- Participants/Users
- Organizations
- [Also, perhaps: Bigger Systems of Use (See info flow across industry for optimizing transaction flow, “idea flow”, stable markets, etc)]

Document Model/Data Model/Schema of Some Sort.

Working Implementation sufficient for a Proof of Concept.

Useful Prior Work:

Dynamic Trust Framework (package mgmt & card-based approach)

- https://github.com/mitreid-connect/trust-framework/tree/master/dtf-webapp/screenshots

Legal Components (encapsulation of clauses and other stuff in reusable chunks)

- http://legalmarkup.github.io/LegalMaterialDesign/
- http://v4-alpha.getbootstrap.com/components/card/

OpenInnovationNetwork distributed, collaborative VCS content chunks

- http://openinnovationnetwork.github.io/Projects/
  - https://github.com/OpenInnovationNetwork/Projects

Prior Helpful (hopefully) Concepts

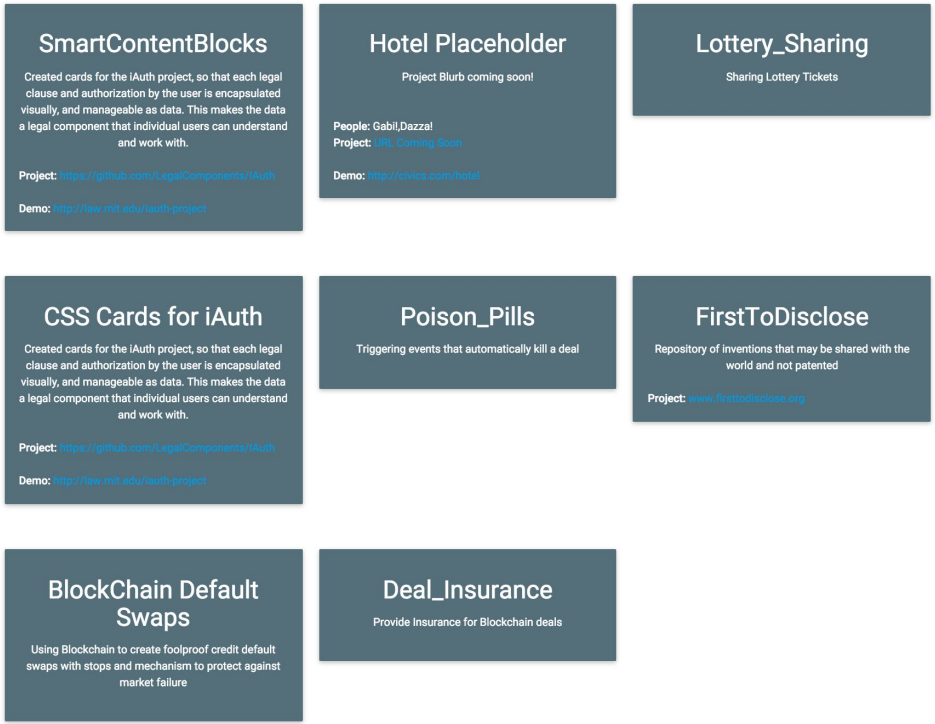
Business, Legal and Technical Clustering of Everything

- https://github.com/mitreid-connect/trust-framework/blob/master/TrustFramework.md:
- http://idfederation.org/wp-content/uploads/2014/05/Final-Trust-Framework-20140429-web.pdf

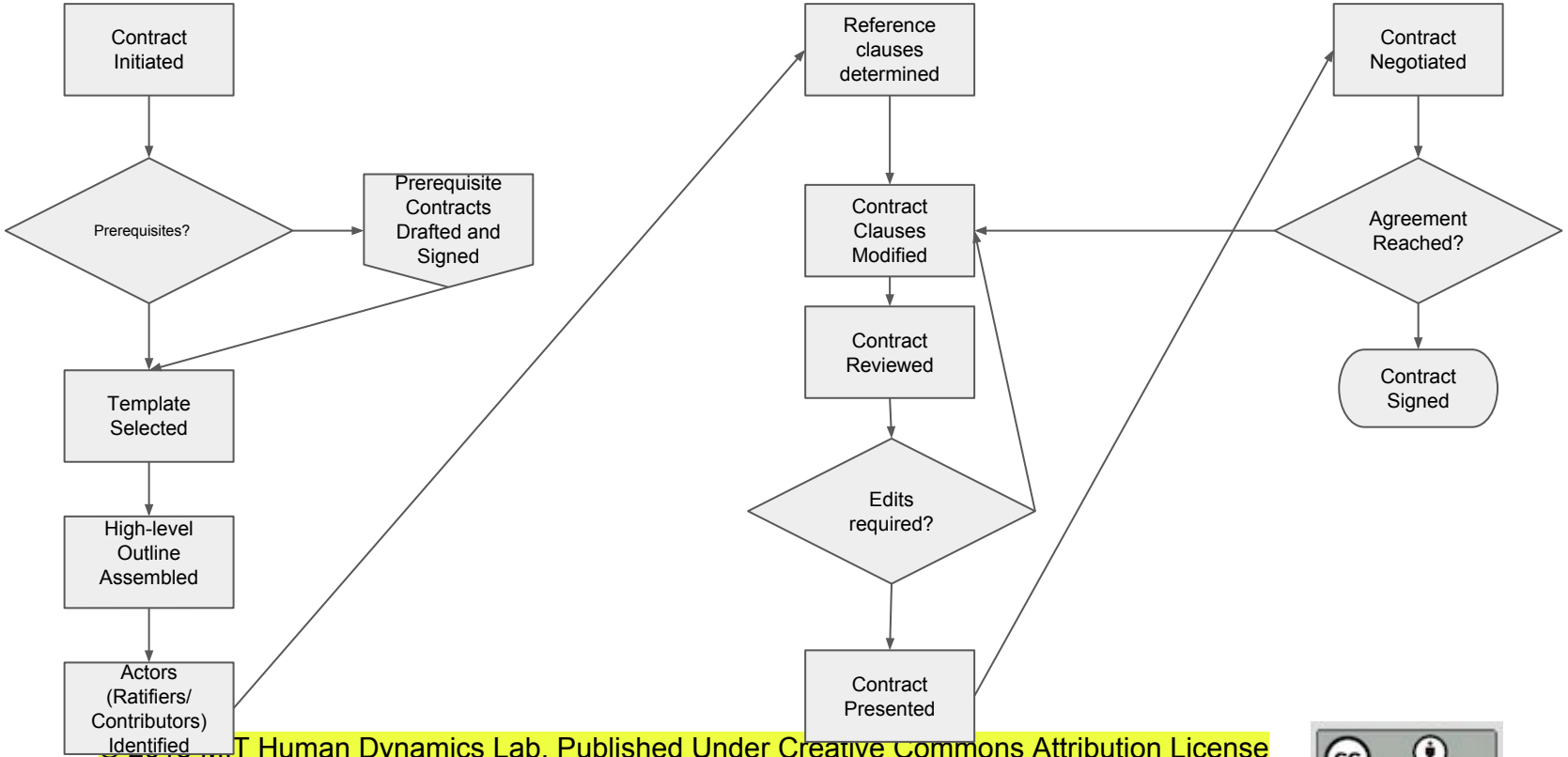
Method to achieve B/L/T is:

- Align Each Part, Harmonize & Integration of B/L/T into one system

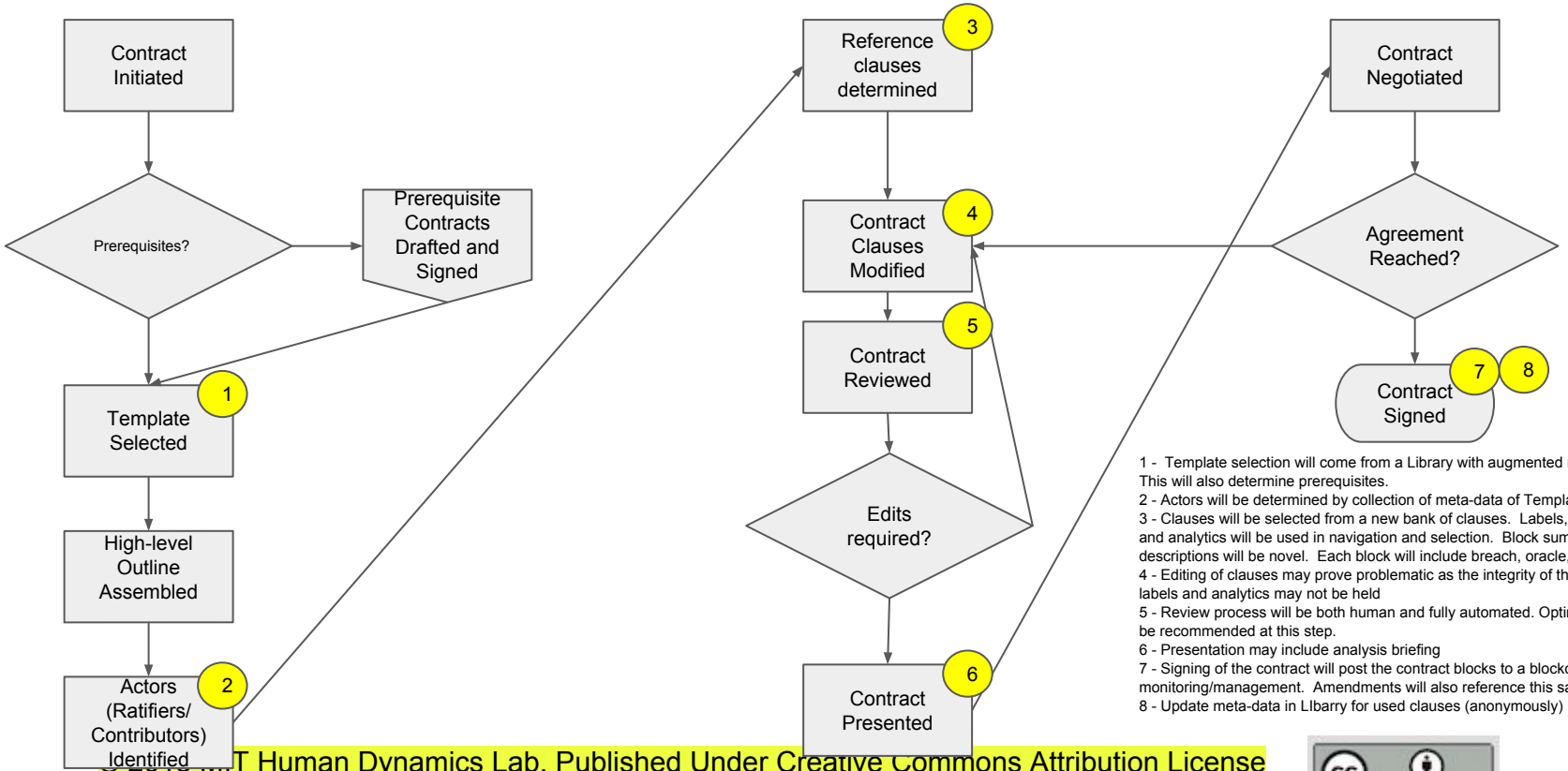
Depiction of Distributed Cards Using Open Web



As-is Contract Creation Process Flow:

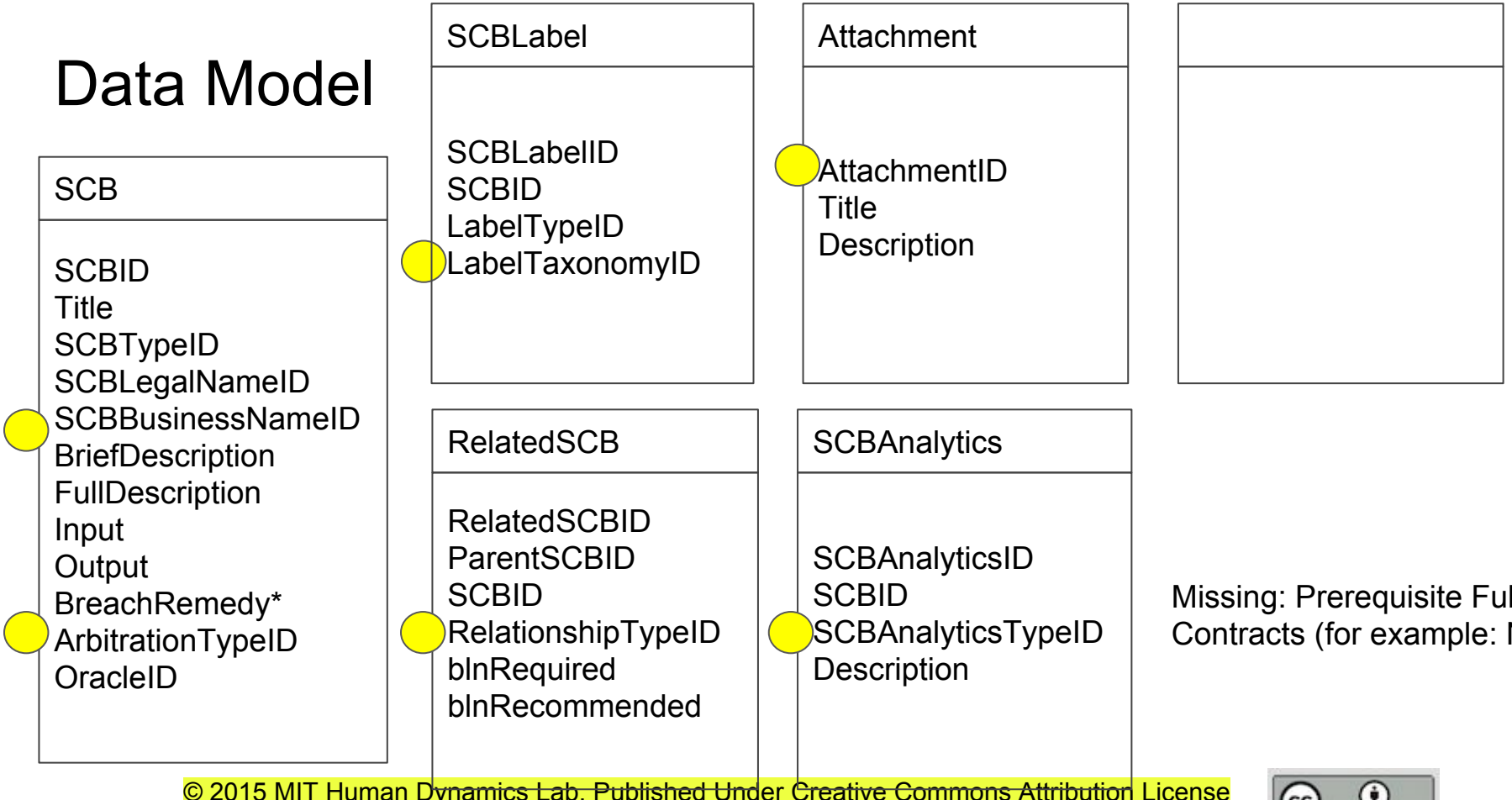


To-be Contract Creation Process Flow:



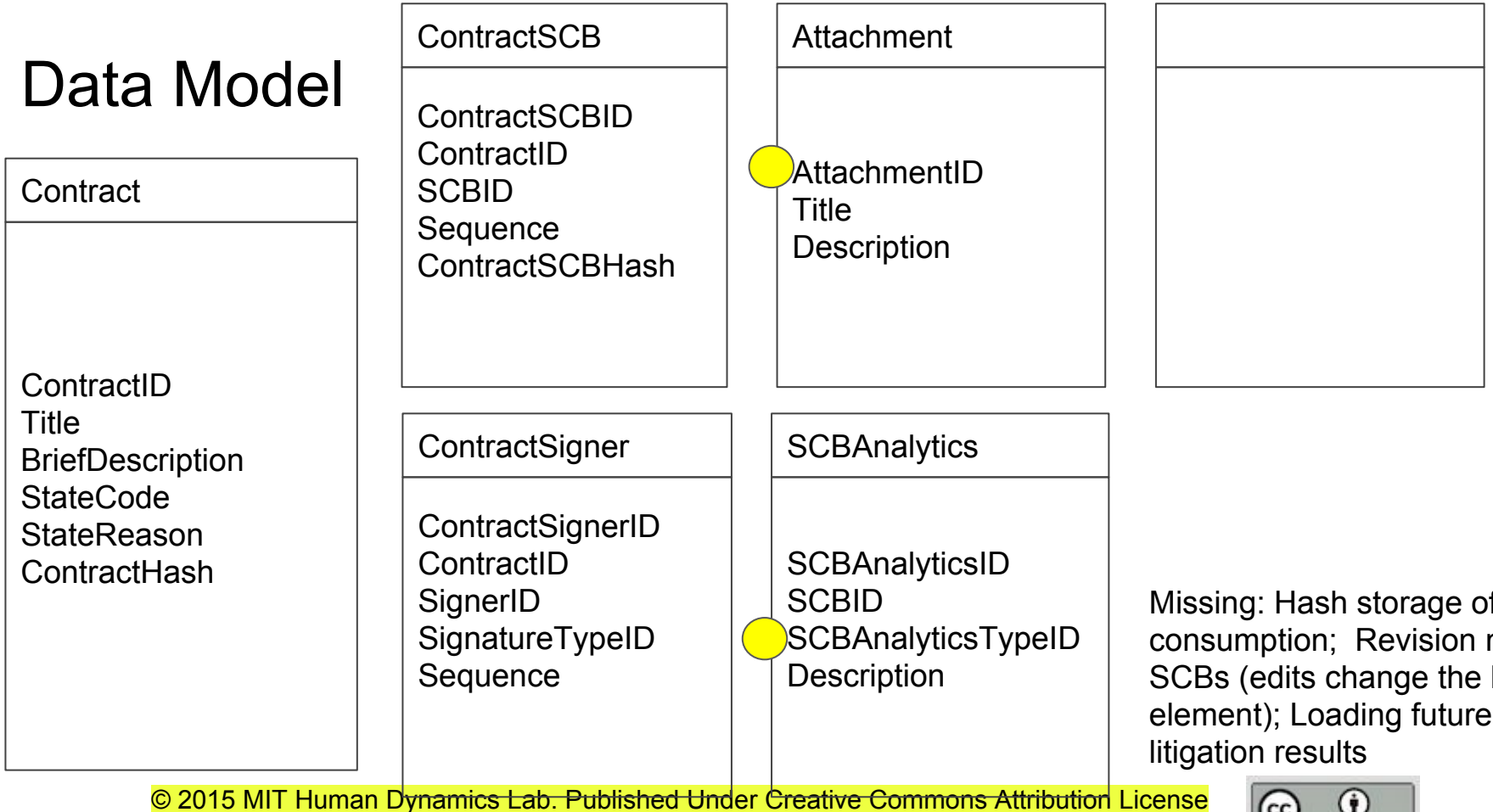
1 - Template selection will come from a Library with augmented meta-data. This will also determine prerequisites.
2 - Actors will be determined by collection of meta-data of Template
3 - Clauses will be selected from a new bank of clauses. Labels, meta-data, and analytics will be used in navigation and selection. Block summary and full descriptions will be novel. Each block will include breach, oracle, and bounds.
4 - Editing of clauses may prove problematic as the integrity of the meta-data, labels and analytics may not be held
5 - Review process will be both human and fully automated. Optimizations will be recommended at this step.
6 - Presentation may include analysis briefing
7 - Signing of the contract will post the contract blocks to a blockchain for monitoring/management. Amendments will also reference this same flow.
8 - Update meta-data in LIbarry for used clauses (anonymously)

Data Model



Missing: Prerequisite Full Contracts (for example: NDA),

Data Model



Missing: Hash storage of consumption; Revision mgmt o SCBs (edits change the library element); Loading future litigation results

SCE Analytics

- SCE Analytics requires accessible SCE data - including past usage, litigation, success, but not attributable back to a single contract (anonymity needed)
- Blockchain sure would be a good avenue for this…
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