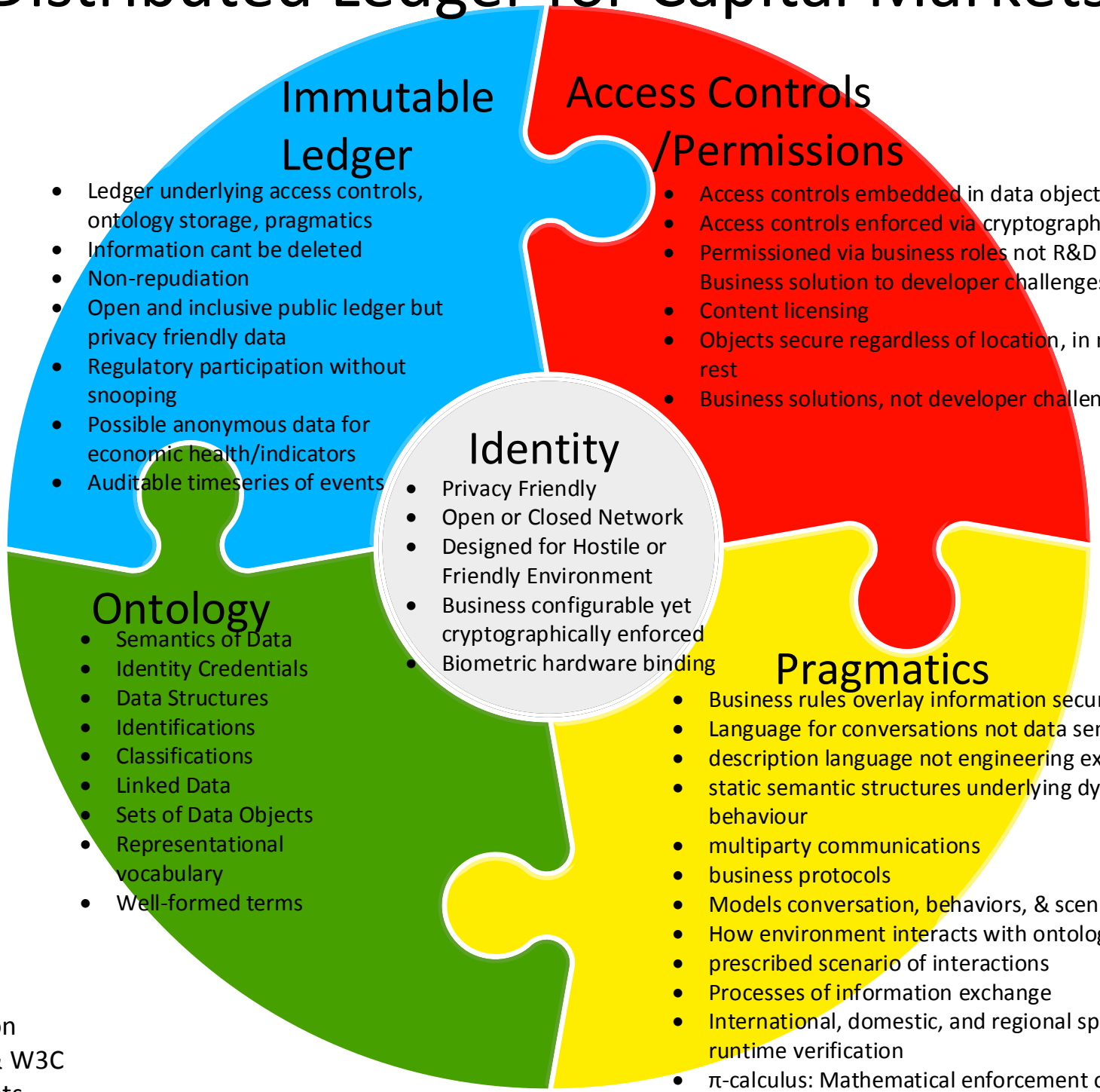
Distributed Ledger for Capital Markets



Immutable Ledger

- Ledger underlying access controls, ontology storage, pragmatics
- Information cant be deleted
- Non-repudiation
- Open and inclusive public ledger but privacy friendly data
- Regulatory participation without snooping
- Possible anonymous data for economic health/indicators
- Auditable timeseries of events

Access Controls /Permissions

- Access controls embedded in data objects
- Access controls enforced via cryptography
- Permissioned via business roles not R&D programmers. Business solution to developer challenges.
- Content licensing
- Objects secure regardless of location, in motion, or at rest
- Business solutions, not developer challenges

Identity

- Privacy Friendly
- Open or Closed Network
- Designed for Hostile or Friendly Environment
- Business configurable yet cryptographically enforced
- Biometric hardware binding

Ontology

- Semantics of Data
- Identity Credentials
- Data Structures
- Identifications
- Classifications
- Linked Data
- Sets of Data Objects
- Representational vocabulary
- Well-formed terms

Pragmatics

- Business rules overlay information security engine
- Language for conversations not data semantics
- description language not engineering execution language
- static semantic structures underlying dynamic pragmatic behaviour
- multiparty communications
- business protocols
- Models conversation, behaviors, & scenarios
- How environment interacts with ontology
- prescribed scenario of interactions
- Processes of information exchange
- International, domestic, and regional specification to local runtime verification
- π-calculus: Mathematical enforcement of design-by-contract framework for business behaviors

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