Accountable Information Usage
in
Fusion Center
Information Sharing Environments

funded by
Department of Homeland Security
Science & Technology Directorate
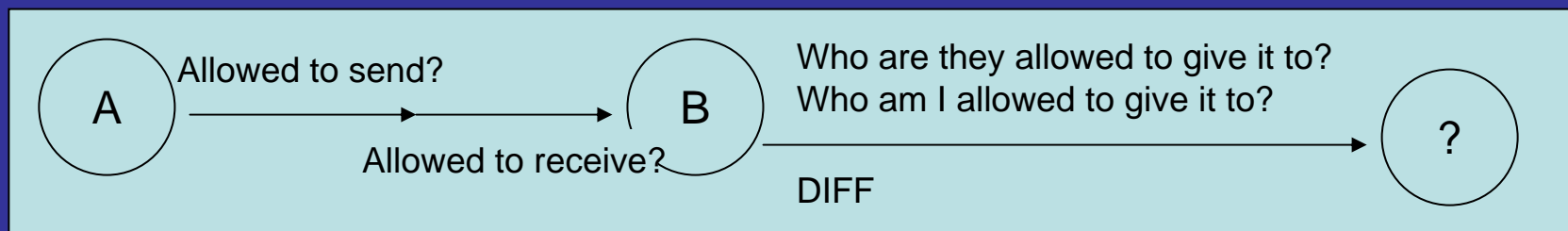
Fusion Center Project

- Fusion Centers:
  - physical/virtual locations
  - for sharing information
  - from different organizations
  - with different policies

Focus: Attempts to send or receive a particular document from a particular person to a particular person or community.
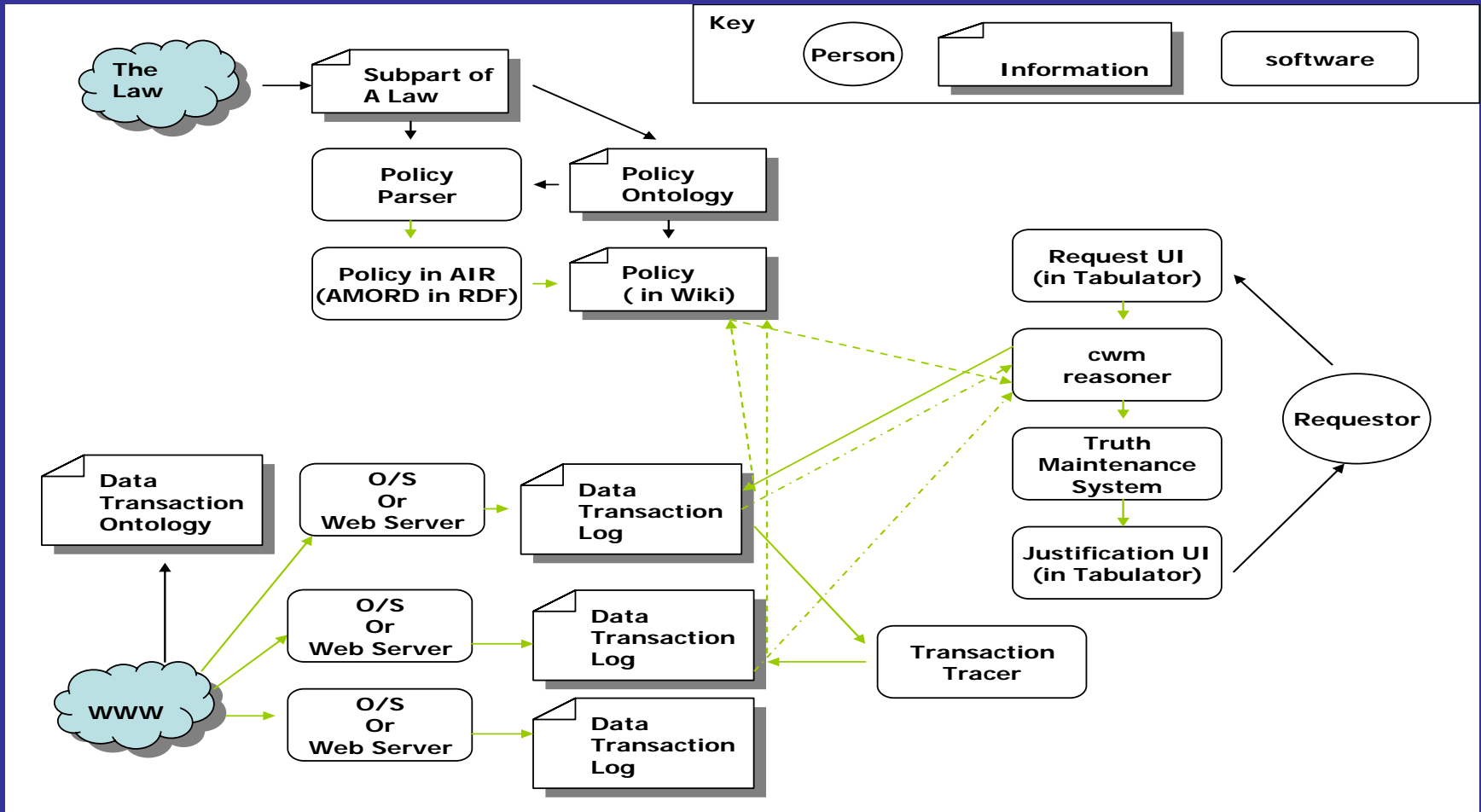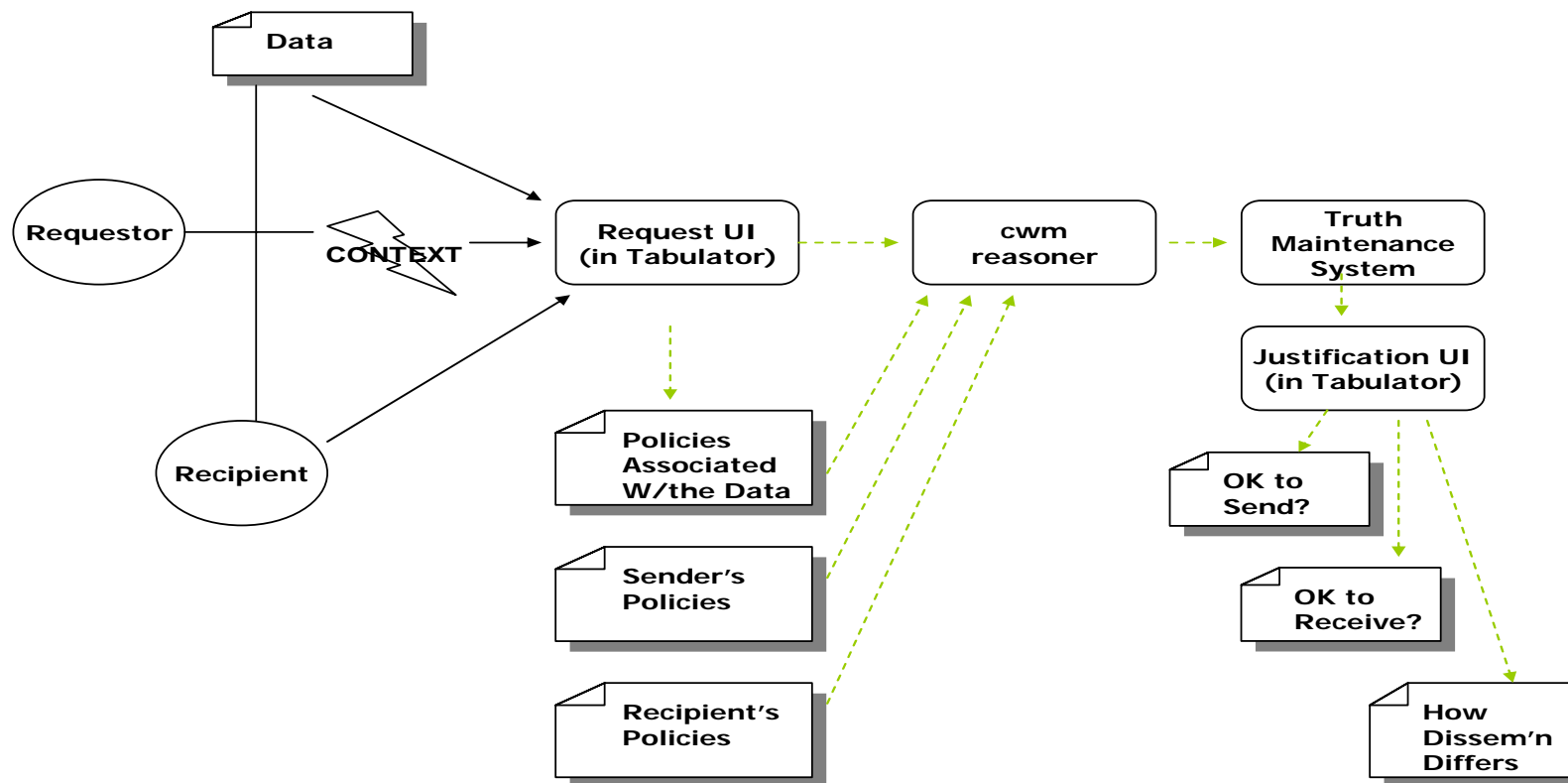
Possible Questions

- ## Am I permitted to *give* this information?
  - What are rules regulate my organization?
  - What rules have traveled with the data?
- ## Is the proposed recipient allowed to *receive* it?
  - What rules regulate them?
- ## Do I *trust* them with the information?
  - What do their rules allow them to do?
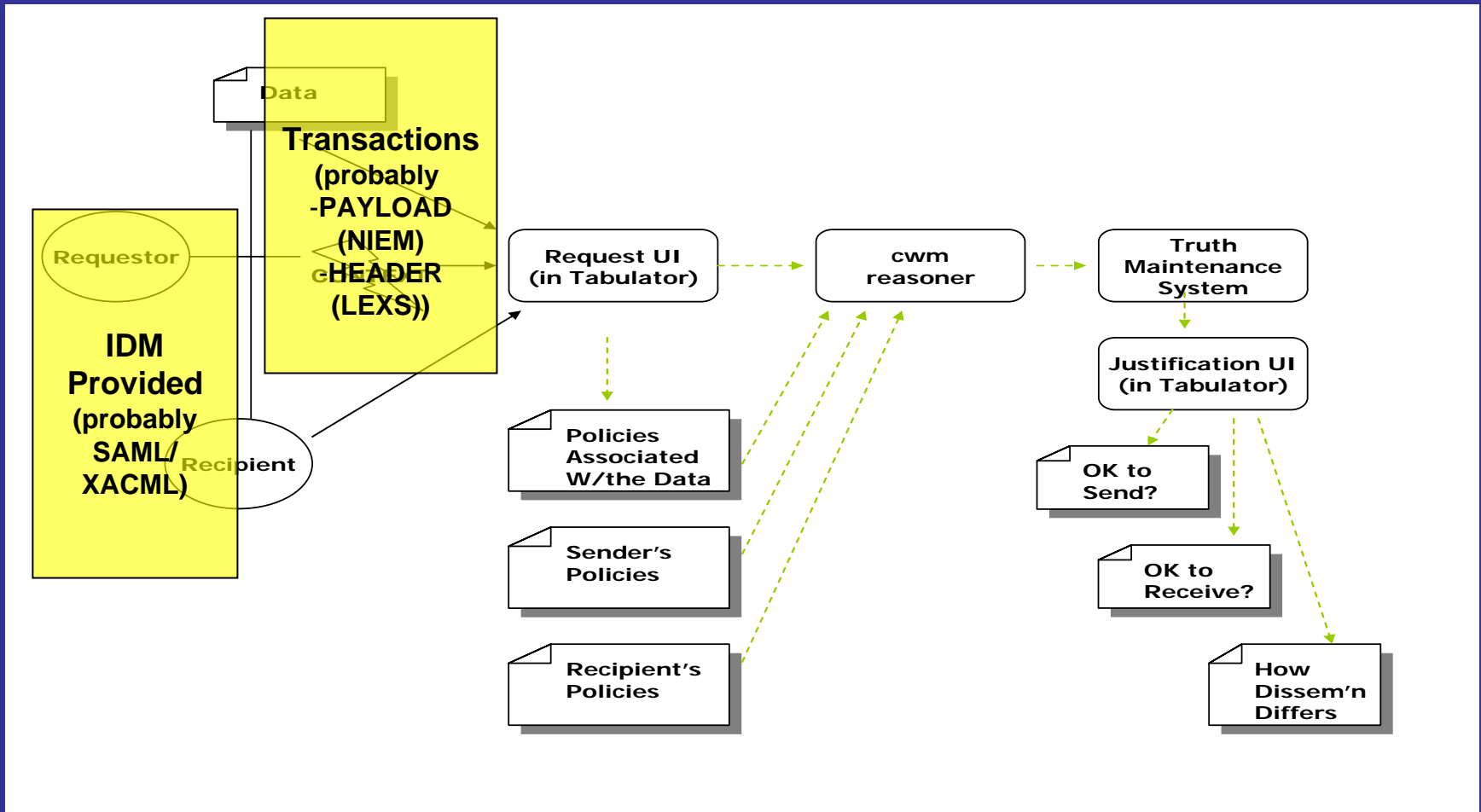 - How does that compare with what my rules would allow?

A →(Allowed to send? / Allowed to receive?)→ B →(Who are they allowed to give it to? / Who am I allowed to give it to? / DIFF)→ ?

Past Project Concept

Possible Concept

Project Assumptions

Projected Timeline

Dec-Jan: Visit Fusion Centers

Learn business process for deciding when, how, and to whom to disseminate reports

Gather and understand the privacy rules

Gather UI requirements

Create scenario (including 6 transactions)

Jan-Apr: Choose no more than 150 discrete sub-policies

Convert policies to intermediate semantic structure

Report on gaps in policies

Produce code in AIR

Report on challenges to code in AIR

Projected Timeline

Jan-Apr: Create schemas for transactions
                Create ontologies for transactions

Feb-July: Incremental UI meetings
                Enhance Justification UI
                Demonstration of reasoning over each transaction

July- Aug: Arrange visits to 10 government professionals
                        2 Law Enforcement
                        4 Analysts
                        4 Policy
                Visit, demonstrate, & elicit feedback
                User evaluation report