Regulation as a Platform

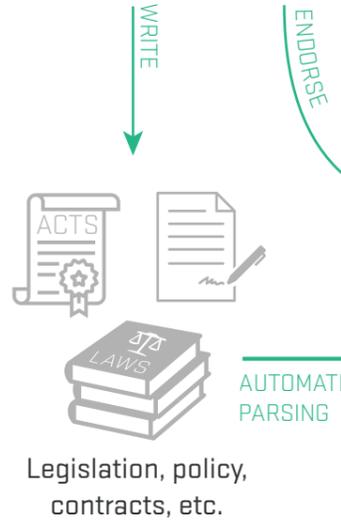http://digital-legislation.net

DATA 61 | CSIRO

Regulators & policy owners

DRAFT
WRITE
ENDORSE

WRITE-IT
If
And
Then
Is
ADD

Write-IT
Writing policy and regulation as logic first.

ACTS

LAWS

AUTOMATIC PARSING

Legislation, policy, contracts, etc.

PARSE-IT
If / Then
If / Then
If / Then
If / Then

Regulation editor
Allows semi-automatic parsing of legal documents into digital logic, which can then be reviewed, edited and endorsed by regulators.

Tutorial, documentation
To ensure compatibility with third party applications, we write and maintain documentation and standards, defining the logic's structure and how to use it.
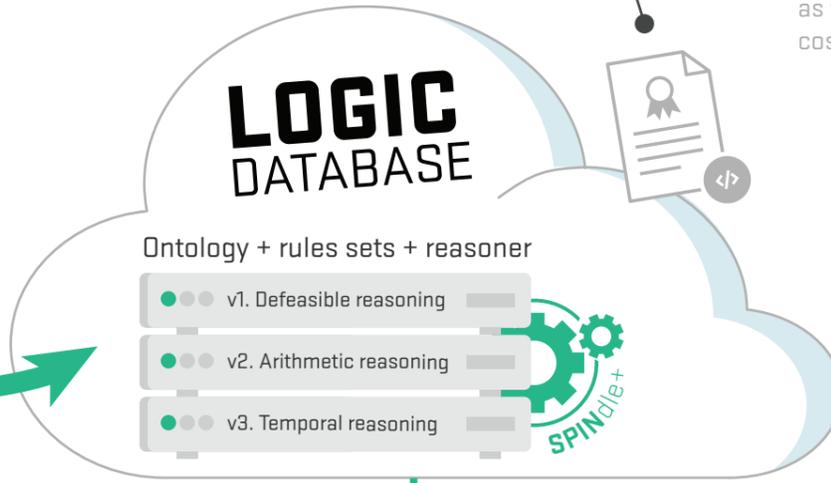
Logic tutorial for ParseIt

Logic analytics

Logic analytics
This analytical tool will help to navigate through the range of regulations, browsing the logic rules to identify potential conflicts and grey areas in the law as well as estimating the cost of regulatory change.
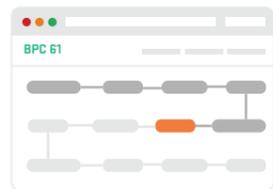
Open data repositories
The legislation-based logic (sets of rules) will be periodically published onto the open-data platform Data.gov.au. An open-source version of the reasoner Spindle is also availaible on github for free, for anyone to use and build on.

ZIP
GitHub
data.gov.au

LOGIC DATABASE

Ontology + rules sets + reasoner

- v1. Defeasible reasoning
- v2. Arithmetic reasoning
- v3. Temporal reasoning

SPINdle +

PULL PUSH

GATEWAY API

PUBLISH TO...
DOWNLOAD

OPEN SOURCE PLATFORM, PUBLICLY FUNDED

ENABLED "RegTech" INDUSTRY

Private SECTOR

Third-party software developers

ENABLE
DEVELOP

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BPC 61

BPC61 - Business Process Compliance
Modern auto-mechanics use digital services to check car engines. Why not use a digital service to check the compliance of business engines? We developed an application that checks business processes against legislative requirements, automatically.

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LIVE CONTRACTS

Live-Contracts
We used the regulation technology and the logic behind our platform to transform standard licensing contracts into logic. This application demonstrates the use of the technology in a wider legal environment.

Australian Government
Australian Taxation Office

PERMIT ME
Yes   No

PermitME - Permits & licences
Starting a new business? We are building an automatic concierge, which asks the right questions, at the right time, once. Using the requirements of legislation, we focus on getting the right information to the right regulator, allowing business entrepreneurs to apply for the required permits and licences, online.

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PaidRight

PaidRight - Payroll checker
PwC and Data61 partnered to build a system checking payroll data (timesheets, payslips, etc.) against enterprise agreements and industry awards, allowing BOOT test and analysis of variances.

?

Future applications to come
Using the open-source logic and provided tools, anyone can build their own application, from government agencies, private sector industry leaders and citizens.

- ☑ Austrac
- ☑ National Construction
- ☐ Grants application?
- ☐ Trade/imports permits?
- ☐ Compliance check?
- ☐ Visa applications?
- ☐ Eligibility?