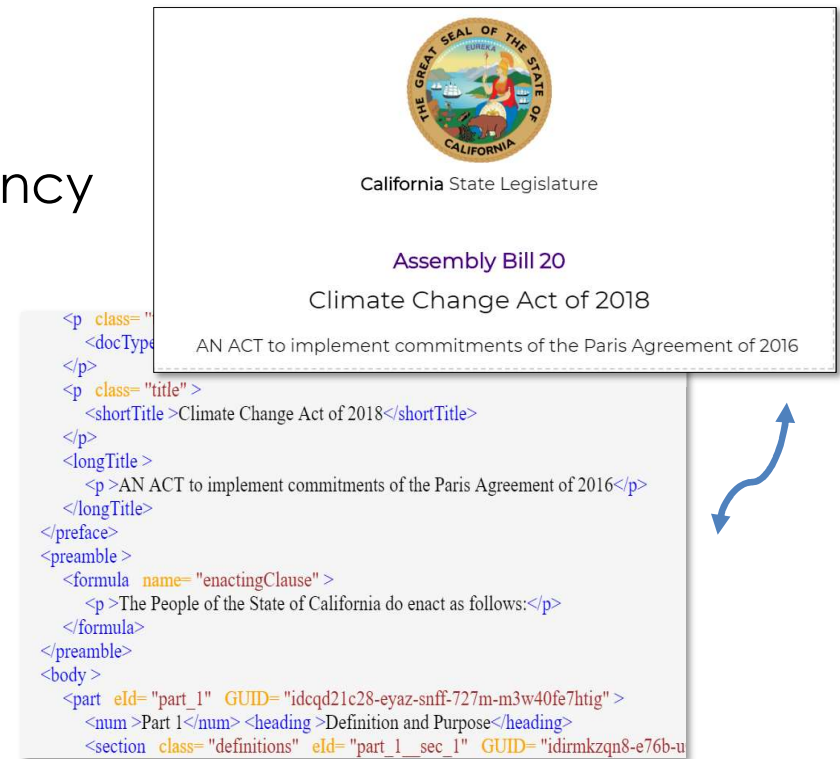




Data-first
Legislative Drafting

Laws as data first: What becomes possible

- Greater drafting/amending efficiency
- Greater transparency
- Connected information
- Standards-based technology
- Greater citizen engagement



The diagram illustrates the concept of 'Laws as data first' by showing a visual representation of a law and its corresponding XML markup. A blue double-headed arrow connects the two, indicating their relationship.

Visual Representation (Right):

- Seal of the State of California
- California State Legislature
- Assembly Bill 20
- Climate Change Act of 2018
- AN ACT to implement commitments of the Paris Agreement of 2016

XML Representation (Left):

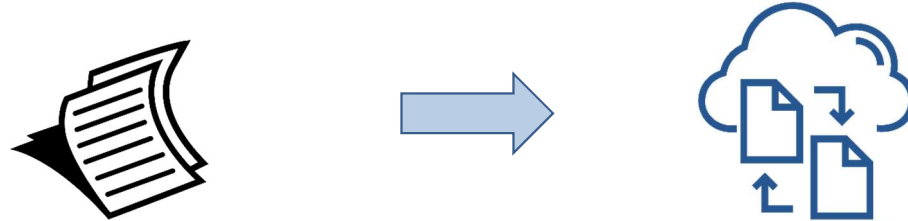
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  <docType>
</p>
<p class="title">
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</p>
<longTitle>
  <p>AN ACT to implement commitments of the Paris Agreement of 2016</p>
</longTitle>
</preface>
<preamble>
  <formula name="enactingClause">
    <p>The People of the State of California do enact as follows:</p>
  </formula>
</preamble>
<body>
  <part eid="part_1" GUID="idcqd21c28-eyaz-snff-727m-m3w40fe7htig">
    <num>Part 1</num> <heading>Definition and Purpose</heading>
    <section class="definitions" eid="part_1_sec_1" GUID="idirmkzqn8-e76b-u
```

Our mission

To drive modernization, efficiency, and transparency in how governments make laws, regulations, and essential documents.

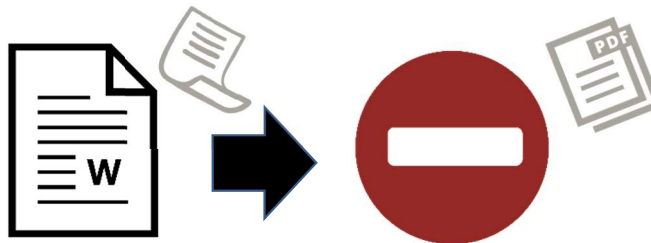
What we do

Our software platform transforms legacy print-driven processes into connected information systems – browser-based, vastly more efficient for users, and enormously more transparent and accessible for everyone else.



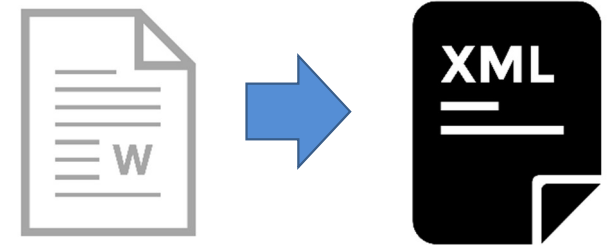
Many challenges face drafters and ITC staff...

- ✓ Growing workloads – more complex documents to draft – less time
- ✓ More frequent departures from “regular order” – more “crisis to crisis” legislating
 - ✓ Legacy technology reaching its end of life
- ✓ Mismatched tools can’t keep up: WordPerfect & Word aren’t enough
- ✓ High costs to maintain old systems and thousands of custom macros
 - ✓ Drained resources
- ✓ Digital-first world makes your paper/print-driven processes outdated and unsustainable



To data-first – and XML. So what’s “XML”?

- The rulemaking world is moving away from word processing – and to “data-first” authoring – with XML.
- “Extensible Markup Language”: it’s a **standard, non-proprietary** computer language for encoding documents
- It’s a way to treat information as “marked up” data – which can be stored, retrieved, and **machine read** in fine, granular detail.
- The information is stored separately from formatting or styling. **Styling is applied later**, depending on how the information will be represented – as a web page, a PDF or something else.
- This allows the information to be updated, amended, linked, searched and analyzed with **high efficiency and accuracy**.
- That’s because it’s **data first**.



Laws as structured data

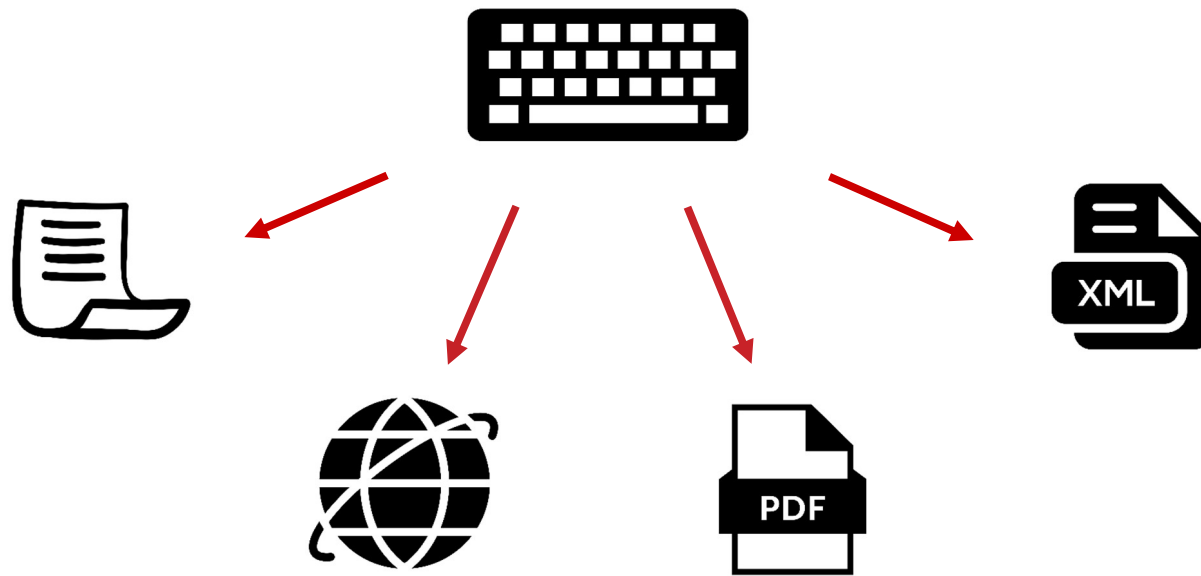
- Rulemaking documents – policies, laws, regulations, orders and more – have **well-defined structure**. That's ideal content for XML.
- Titles, chapters, sections. Enacting clauses. Parts. Paragraphs. **A hierarchy**. With citations, references to other elements within other documents.
- Think of them as chunks of data – which can be “marked up” – tagged – in XML.
- Those chunks can be easily linked, related, given context and semantic connection.
- With those chunks in a standard structure, **modern, data-driven tools** can be applied to the tasks of authoring, analyzing and publishing these essential documents.

```

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    <p >AN ACT to implement commitments of the Paris Agreement of 2016</p>
  </longTitle>
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  <formula name= "enactingClause" >
    <p >The People of the State of California do enact as follows:</p>
  </formula>
</preamble>
<body>
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        <mod>

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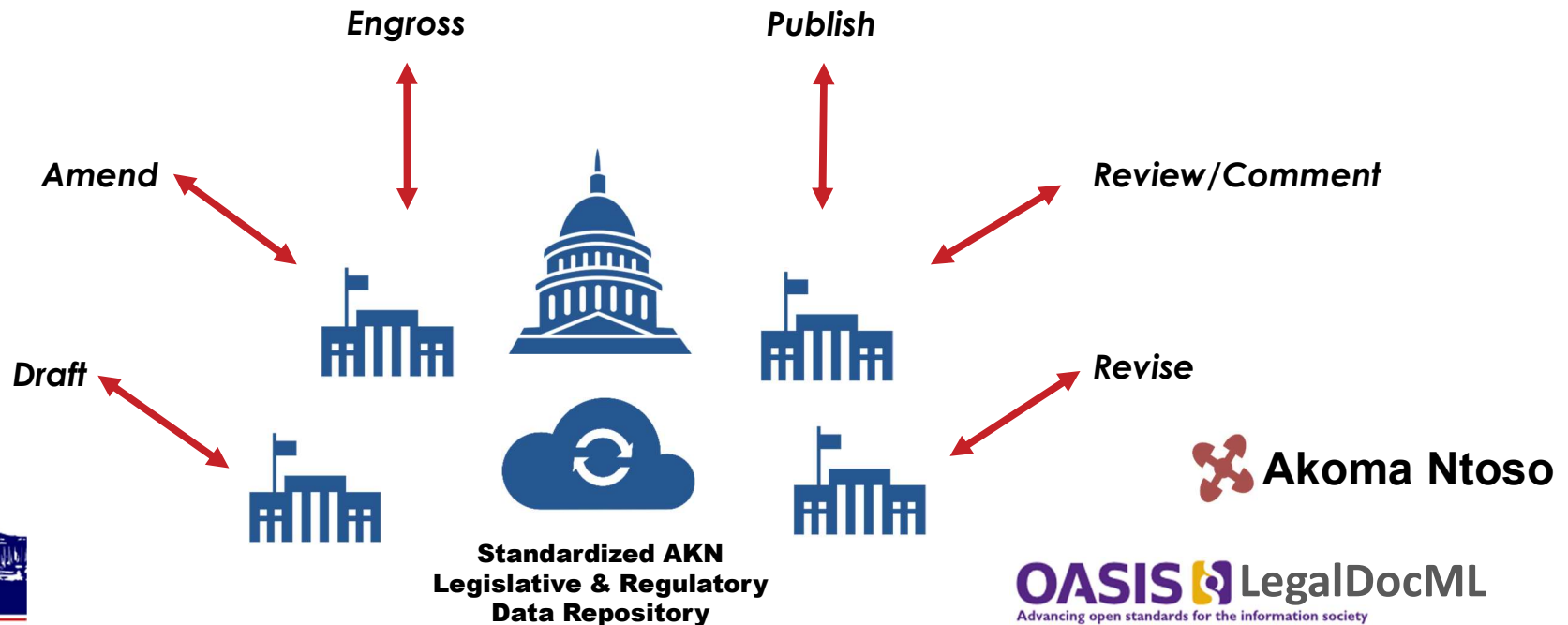
“Data-first” advantage: Type once



With standards-based, data-first authoring, the formatting comes later. That means no rekeying when you export your content to print, the web, PDF or another database. Much more efficient. That also means your data is “future proofed,” not locked in a proprietary format.

This is where governments are headed

The future of document drafting and reviewing is a smarter, more modern and unified approach to rule-making, enabled by data standardization and data interoperability.



Data-first enabled

**Rulemaking information becomes interoperable –
connected – linked automatically.**

A bill

**SEC. 3001. REDUCTION IN CORPORATE
TAX RATE.**

(a) IN GENERAL.—Section 11(b) is amended to
read as follows:

“(b) AMOUNT OF TAX.—

“(1) IN GENERAL.—Except as otherwise
provided in this subsection, the amount of the tax
imposed by subsection (a) shall be 20 percent of
taxable income.

“(2) SPECIAL RULE FOR PERSONAL
SERVICE CORPORATIONS.—

“(A) IN GENERAL.—In the case of a personal
service corporation (as defined in section
448(d)(2)), the amount of the tax imposed by
subsection (a) shall be 25 percent of taxable
income.

A law to be amended

§11. Tax imposed

(a) Corporations in general

A tax is hereby imposed for each taxable year on
the taxable income of every corporation.

(b) Amount of tax

(1) In general

The amount of the tax imposed by subsection (a)
shall be the sum of-

- (A) 15 percent of so much of the taxable income as
does not exceed \$50,000,
- (B) 25 percent of so much of the taxable income as
exceeds \$50,000 but does not exceed \$75,000,
- (C) 34 percent of so much of the taxable income as
exceeds \$75,000 but does not exceed \$10,000,000,
and
- (D) 35 percent of so much of the taxable income as
exceeds \$10,000,000.

A regulation to change

§ 1.11-1 Tax on corporations.

(a) Every corporation, foreign or domestic,
is liable to the tax imposed under section
11 except (1) corporations specifically
excepted under such section from such tax;
(2) corporations expressly exempt from all
taxation under subtitle A of the Code (see
section 501); and (3) corporations subject
to tax under section 511(a). For taxable
years beginning after December 31,
1966, foreign corporations engaged in trade
or business in the United States shall be
taxable under section 11 only on their
taxable income which is effectively
connected with the conduct of a trade or
business in the United States (see section
882(a)(1)). For definition of the terms
“corporations,” “domestic,” and “foreign,”
see section 7701(a)(3), (4), and (5),
respectively.

Data-first enabled Document Comparison

Original bill draft

6

1 threatened and endangered salmonids in the Colum-

2 bia River and its tributaries.

3 **SEC. 3. SENSE OF CONGRESS.**

4 It is the sense of the Congress that—

5 (1) preventing predation by sea lions, recovery

6 of listed salmonid stocks, and preventing future list-

7 ings of fish stocks in the Columbia River under the

8 Endangered Species Act of 1973 (16 U.S.C. 1531 et

9 seq.) is a vital priority; and

10 (2) the Federal Government should continue to

11 fund lethal and nonlethal removal measures for pre-

12 venting such predation.

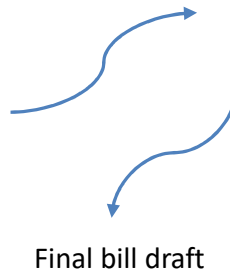
13 **SEC. 4. TAKING OF SEA LIONS ON THE COLUMBIA RIVER**

14 **AND ITS TRIBUTARIES TO PROTECT ENDAN-**

15 **GERED AND THREATENED SPECIES OF SALM-**

16 **ON AND OTHER NONLISTED FISH SPECIES.**

17 Section 120(f) of the Marine Mammal Protection Act



“Comparative Print”

Section 1. Short title

This Act may be cited as the “Endangered Salmon and Fisheries Predation Prevention Act”.

[NOTE-- DELETED : Sec. 2. Findings]

Sec. 32. Sense of Congress

It is the sense of the Congress that—

(1) preventing on of predation by sea lion pinnipeds, recovery of listed salmonid stocks listed under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.), and preventing on of the future listings of fish stocks in the Columbia River under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) is such Act are a vital priority; and

(2) the Federal Government should continue to fund lethal and nonlethal removal of pinnipeds as well as deterrence measures for preventing such predation.

1 SECTION 1. SHORT TITLE.

2 This Act may be cited as the “Endangered Salmon

3 and Fisheries Predation Prevention Act”.

4 SEC. 2. SENSE OF CONGRESS.

5 It is the sense of the Congress that—

6 (1) prevention of predation by pinnipeds, recov-

7 ery of salmonid stocks listed under the Endangered

8 Species Act of 1973 (16 U.S.C. 1531 et seq.), and

9 prevention of the future listings of fish stocks in the

10 Columbia River under such Act are a vital priority;

Columbia River and its tributaries to protect endangered and threatened

cies

Protection Act of 1972 (16 U.S.C. 1389(f)) is amended to read as

VAL AUTHORITY ON THE WATERS OF THE COLUMBIA RIVER ORAND ITS

withstanding any other provision of this Act, the Secretary may

to authorize the intentional lethal taking on the waters of the

of individually identifiable sea lion pinnipeds that are part of a

prized under this Act as depleted or strategic for the purpose of

ad, or eulachon that are listed as endangered species or threatened

cies Act of 1973 (16 U.S.C. 1531 et seq.); and other

rgeon that are non listed fish-species as endangered or threatened

n.

ible entity may apply to the Secretary for a permit under this

“LegisCompare”: U.S. Congress now uses XML technology to compare drafts of legislation

Amendment Impact Program

Prepare Inputs

View Results

Start Over

Data-first enabled Amendment Impact Program

Amendment Impact Program (AIP),

developed for U.S.
House Office of
Legislative Counsel,
provides visualization
of amendments to
legislation as
engrossed in the bill.
AIP displays an
unlimited number of
amendments,
toggles from
engrossed
amendment to bill,
either direction.

Amendments

Add Amendment(s) PDF or XML to Apply

Base Document

Select Base PDF Select Base PDF to Apply Amendment(s) Against

Data-first enabled Automation of amendment engrossment

Now in development
at the U.S. House, an
NLP application
identifies and
interprets amendment
language, displays the
redlined text
insertion/deletion, and
shows precisely how
the amended law will
read.

Processed Amendments: 2

Upload 1 2

Sections Affected Amendments Import 115hr1109enr v0.6.0

[1.]

Section 1. Clarification of facility merger authorization
Section 203(a)(1) of the Federal Power Act (16 U.S.C. 824b(a)(1)) is amended by striking subparagraph (B) and inserting the following:

“(B) merge or consolidate, directly or indirectly, its facilities subject to the jurisdiction of the Commission, or any part thereof, with the facilities of any other person, or any part thereof, that are subject to the jurisdiction of the Commission and have a value in excess of \$10,000,000, by any means whatsoever;”.

[2.]

Sec. 2. Notification for certain transactions
Section 203(a) of the Federal Power Act (16 U.S.C. 824b(a)) is amended by adding at the end the following new paragraph:

(1) No public utility shall, without first having secured an order of the Commission authorizing it to do so—

(A) sell, lease, or otherwise dispose of the whole of its facilities subject to the jurisdiction of the Commission, or any part thereof of a value in excess of \$10,000,000;

“(B) merge or consolidate, directly or indirectly, its facilities subject to the jurisdiction of the Commission, or any part thereof, with the facilities of any other person, or any part thereof, that are subject to the jurisdiction of the Commission and have a value in excess of \$10,000,000, by any means whatsoever;”.

~~(B) merge or consolidate, directly or indirectly, such facilities or any part thereof with those of any other person, by any~~

DOCUMENT 1 DOCUMENT 2 DIFF

(1) No public utility shall, without first having secured an order of the Commission authorizing it to do so—

(A) sell, lease, or otherwise dispose of the whole of its facilities subject to the jurisdiction of the Commission, or any part thereof of a value in excess of \$10,000,000;

(B) merge or consolidate, directly or indirectly, such its facilities subject to the jurisdiction of the Commission, or any part thereof, with these facilities of any other person, or any part thereof, that are subject to the jurisdiction of the Commission and have a value in excess of \$10,000,000, by any means whatsoever;

(C) purchase, acquire, or take any security with a value in excess of \$10,000,000 of any other public utility; or

(D) purchase, lease, or otherwise acquire an existing generation facility—

(i) that has a value in excess of \$10,000,000; and

(ii) that is used for interstate wholesale sales and over which the Commission has jurisdiction for ratemaking purposes.

Data-first enabled Point-in-time search

Search with data and status of
a law as parameters.

Information organized to allow
documents to be generated
based on date and status.

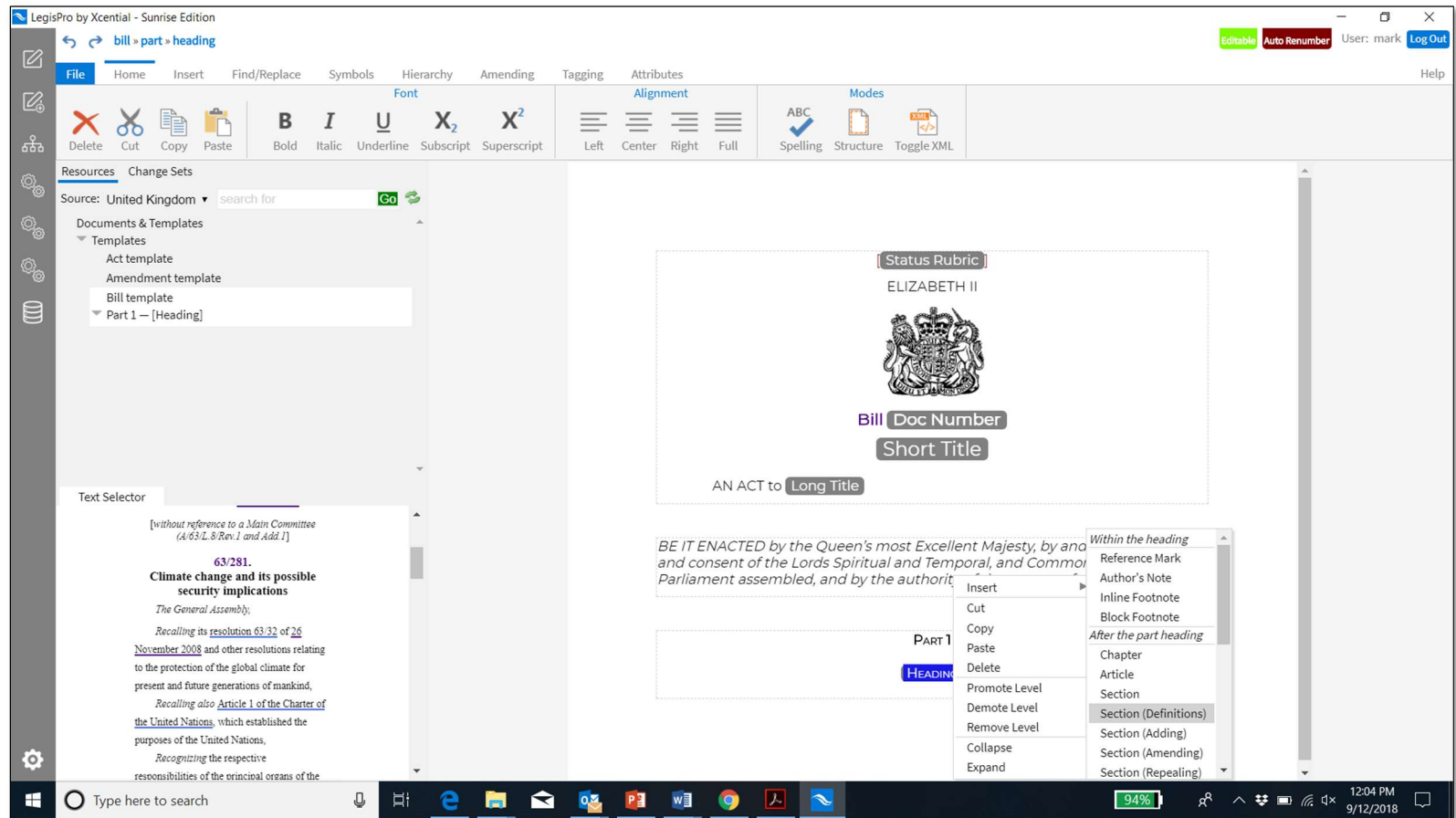
Works with past dates, current
date and future dates of
effectivity.

Hong Kong legislative & regulatory
point-in-time search tool:
elegislation.gov.hk.

The screenshot shows the Hong Kong e-Legislation website. The main header includes the site name '電子版香港法例 Hong Kong e-Legislation' and navigation links like Home, Search, Browse, Gazette, Editorial Records, and Useful Information. A search bar is prominently displayed with options for Quick Search, All, and Enter Chapter No. Below the header, the 'View Legislation' section is active, showing 'Cap. 614 Legislation Publication Ordinance'. A 'Timeline' section is visible, and a 'Point in Time' dropdown menu is open, showing a list of dates including 24/02/2017*, 30/06/2011, 16/01/2012, 09/02/2012, 27/07/2012, and 24/02/2017*. The main content area displays the text of the ordinance, including the title 'An Ordinance to provide for the establishment of an electronic database of legislation and approval of a website on which the information in the database may be published and accessed; to give legal status to copies of the legislation published on an approved website; to provide for powers to make editorial amendments and revisions to Ordinances; to provide for additional editorial powers for preparation of the loose-leaf edition of the Laws of Hong Kong; to provide for related matters; and to make consequential amendments.' and the date '[30 June 2011]'. The page also includes a 'Show highlight for' section with options for Matched Keywords, Cross Reference(s), and Source Note(s).

Data-first enabled Drafting, amending, codification, publishing

Modern, browser-based XML editor applications look and feel like the Word or WordPerfect tools drafters are familiar with – but enable them to do so much more, and with greater efficiency and accuracy.



Data-first enabled Drafting, amending, codification, publishing

Modern, browser-based XML editor applications look and feel like the Word or WordPerfect tools drafters are familiar with – but enable them to do so much more, and with greater efficiency and accuracy.

LegisPro by Xcential - Sunrise Edition

Editable Auto Renumber User: mark Log Out Help

File Home Insert Find/Replace Symbols Hierarchy Amending Tagging Attributes Alignment Modes

Delete Cut Copy Paste Bold Italic Underline Subscript Superscript Left Center Right Full Spelling Structure Toggle XML

Resources Change Sets Verification Tagging

Source: Active Doc search for Go

PARIS AGREEMENT

- Article 1 – [Purpose and Definition]
- Article 2 – [Goals]
- Article 3 – [Communicating Progress]
- Article 4 – [Nationally Determined Contributions]
 - 1 In order to achieve the long-term temperatu...
 - 2 Each Party shall prepare, communicate and m...
 - 3 Each Party's successive nationally determin...
 - 4 Developed country Parties should continue t...
 - 5 Support shall be provided to developing cou...
 - 6 The least developed countries and small isl...
 - 7 Mitigation co-benefits resulting from Parti...
 - 8 In communicating their nationally determine...
 - 9 Each Party shall communicate a nationally d...
 - 10 The Conference of the Parties serving as t...

Text Selector

United Nations

The UN Charter

CHARTER of THE UNITED NATIONS AND STATUTE of THE INTERNATIONAL COURT of JUSTICE

WE THE PEOPLES OF THE UNITED NATIONS DETERMINED to save succeeding generations from the scourge of war, which twice in

Article 1

[Purpose and Definition]

For the purpose of this Agreement, the definitions contained in Article 1 of the Convention shall apply. In addition:

- (a) "Convention" means the United Nations Framework Convention on Climate Change, adopted in New York on 9 May 1992;
- (b) "Conference of the Parties" means the Conference of the Parties to the Convention;
- (c) "Party" means a Party to this Agreement.

Article 2

[Goals]

1 This Agreement, in enhancing the implementation of the Convention, including its objective, aims to strengthen the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty, including by:

- (a) Holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change;
- (b) Increasing the ability to adapt to the adverse impacts of climate change and foster climate resilience and low greenhouse gas emissions development, in a manner that does not threaten food production; and
- (c) Making finance flows consistent with a pathway towards low greenhouse gas emissions and climate-resilient development.

2 This Agreement will be implemented to reflect equity and the principle of common but differentiated responsibilities and respective capabilities, in the light of different national

Type here to search

96% 11:27 AM 11/29/2018

Data-first enabled Drafting, amending, codification, publishing

Modern, browser-based XML editor applications look and feel like the Word or WordPerfect tools drafters are familiar with – but enable them to do so much more, and with greater efficiency and accuracy.

LegisPro by Xcential - Sunrise Edition

act » part » section

Editable Track Changes Line Numbering Auto Assign User: mark Log Out

File Home Insert Find/Replace Symbols Hierarchy Amending Tagging Attributes

Quotes Line Numbering Change Management Generate

Text Structure Mode Pagination Change Set Track Reject Accept Amendments

Resources Change Sets Verification Tagging

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California Global Warming Solutions Act of 2006

- PART 1. — GENERAL PROVISIONS
- PART 2. — MANDATORY GREENHOUSE GAS EMISSIONS REPORTING
- PART 3. — STATEWIDE GREENHOUSE GAS EMISSIONS LIMIT
- PART 4. — GREENHOUSE GAS EMISSIONS REDUCTIONS
- PART 5. — MARKET-BASED COMPLIANCE MECHANISMS
- PART 6. — ENFORCEMENT
- PART 7. — Miscellaneous Provisions

Text Selector

General Assembly Distr.: General 11 June 2009

Sixty-third session Agenda item 107

Resolution adopted by the General Assembly on 3 June 2009

[without reference to a Main Committee (A/63/L.8/Rev.1 and Add.1)]

63/281.

Climate change and its possible security implications

37 (g) After January 1, 2011, the state board may revise regulations adopted pursuant to this section and adopt additional regulations to further the provisions of this division.

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40 38563. Nothing in this division restricts the state board from adopting greenhouse gas emission limits or emission reduction measures prior to January 1, 2011, imposing those limits or measures prior to January 1, 2012, or providing early reduction credit where appropriate.

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44 38564. The state board shall consult with other states, and the federal government, and other nations to identify the most effective strategies and methods to reduce greenhouse gases; ~~manage greenhouse gas control programs; and to facilitate the development of integrated and cost-effective regional, national, and international greenhouse gas reduction programs.~~

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49 38565. The state board shall ensure that the greenhouse gas emission reduction rules, regulations, programs, mechanisms, and incentives under its jurisdiction, where applicable and to the extent feasible, direct public and private investment toward the most disadvantaged ~~communities~~ counties and cities in

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53 California and provide an opportunity for small businesses, schools, affordable housing associations, and other community institutions to participate in and benefit from statewide efforts to reduce greenhouse gas emissions.

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58 38570. (a) The state board may include in the regulations adopted pursuant to Section 38562 the use of market-based compliance mechanisms to comply with the regulations.

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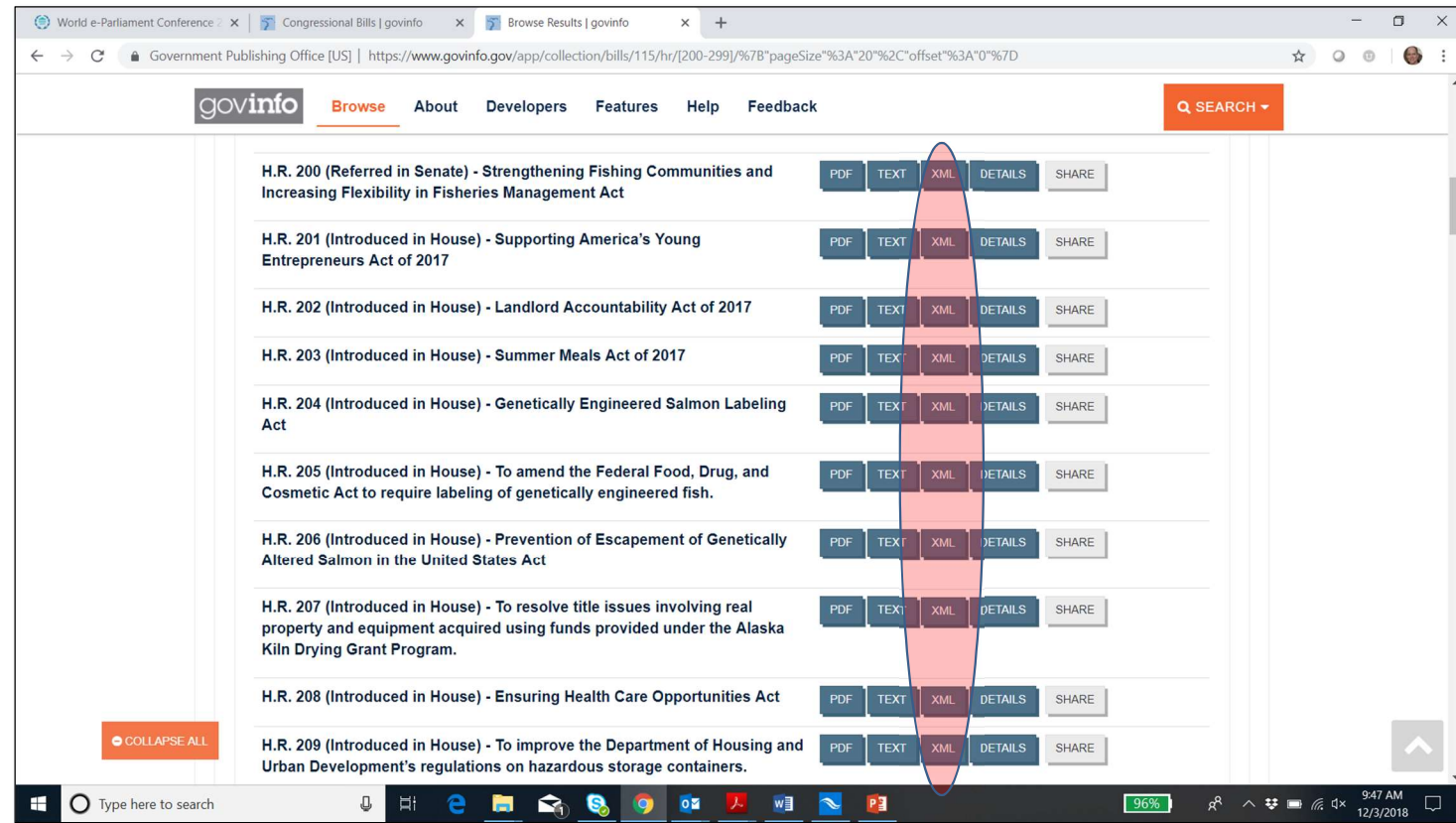
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Here's the XML data that's been created automatically as drafters work. This is the standards-based, structured data that enables greater automation, accuracy and transparency



Data-first enabled Improved access to legislative data

U.S. House and U.S. Government Publishing Office now provide downloads of bills as they're introduced in standard XML format. This "levels the playing field" for public access to legislative information.



The screenshot shows the govinfo website interface. The top navigation bar includes links for Browse, About, Developers, Features, Help, and Feedback. A search bar is located on the right. The main content area displays a list of bills, each with a title and a set of download buttons. A red arrow points to the XML download button for each bill, highlighting the availability of legislative data in XML format.

Bill Number	Title	PDF	TEXT	XML	DETAILS	SHARE
H.R. 200	(Referred in Senate) - Strengthening Fishing Communities and Increasing Flexibility in Fisheries Management Act	PDF	TEXT	XML	DETAILS	SHARE
H.R. 201	(Introduced in House) - Supporting America's Young Entrepreneurs Act of 2017	PDF	TEXT	XML	DETAILS	SHARE
H.R. 202	(Introduced in House) - Landlord Accountability Act of 2017	PDF	TEXT	XML	DETAILS	SHARE
H.R. 203	(Introduced in House) - Summer Meals Act of 2017	PDF	TEXT	XML	DETAILS	SHARE
H.R. 204	(Introduced in House) - Genetically Engineered Salmon Labeling Act	PDF	TEXT	XML	DETAILS	SHARE
H.R. 205	(Introduced in House) - To amend the Federal Food, Drug, and Cosmetic Act to require labeling of genetically engineered fish.	PDF	TEXT	XML	DETAILS	SHARE
H.R. 206	(Introduced in House) - Prevention of Escapement of Genetically Altered Salmon in the United States Act	PDF	TEXT	XML	DETAILS	SHARE
H.R. 207	(Introduced in House) - To resolve title issues involving real property and equipment acquired using funds provided under the Alaska Kiln Drying Grant Program.	PDF	TEXT	XML	DETAILS	SHARE
H.R. 208	(Introduced in House) - Ensuring Health Care Opportunities Act	PDF	TEXT	XML	DETAILS	SHARE
H.R. 209	(Introduced in House) - To improve the Department of Housing and Urban Development's regulations on hazardous storage containers.	PDF	TEXT	XML	DETAILS	SHARE

**Data-first enabled
Increased
accountability,
citizen
engagement,**

Machine-processable
access to federal
legislative data has
sparked an explosion
of services for citizens
and businesses –
some free, others by
subscription –
tracking and deeply
analyzing rulemaking
measures.

govtrack Home Congress Track About Us Log In Search Select Language

We're now in a "lame duck" session, the period between an election and when the elected members of Congress take office, which will occur on January 3, 2019 at noon.

Bills and Resolutions

Coming Up & Trending Find a Bill Get Alerts All Bills

Coming Up

Congress Tracker

The BGOV Congress Tracker is your eyes and ears on the Hill, with a team of floor watchers delivering live coverage of House and Senate floor activity. Congress Tracker monitor every vote tallies, and

Legislative

Find the federal through the e BGOV Legisla the updates a

Bill sum

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Quorum About Stakeholder Engagement

Easy-to-Use Bill Tracking System

Bring Order To Your Bill Tracking

Easily manage your legislative tracking across Congress, all 50 state legislatures, all US territory assemblies, and the EU with modern dashboards customized by issue area, keyword, region and priority so your team can collaborate and stay on top of every bill impacting your organization.

Modernize Your Legislative Tracking

CQ Federal

Congressional Bill Tracker

Powerful, intelligent tools to help policy professionals track and understand bills in Congress

START YOUR TRIAL

H.B. 1307: Appropriate Money For T...
H.B. 79: OMNIBUS WORK...
S.B.410: Updating captive insuranc...
H.B.1063: Dealer services...
H.B.2593: Sales tax exemption for f...
H.B. 1258: Revise Certai...

Thank you

For more information:

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