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The Dynamics and Determinants of De Jure Standards: Evidence from the electronic and electrical engineering industries (Revised)

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The Dynamics and Determinants of De jure Standards: Evidence from the electronic and electrical engineering industries

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Abstract

This study evaluates the time intervals over which standards should be reviewed as a function of the standards' dynamics. Determining the optimum interval over which to review standards facilitates the creation of new product markets. Data for this study (about 15,000 active or withdrawn de jure standards) were collected and analyzed, which resulted in several findings. First, the effective time interval over which standards should be reviewed differ as a function of the technological field in which the standard is used. Second, a standard's type (particularly design and symbol standards) also significantly affects the effective time interval for a standard's review. Third, the types of review (e.g., amendment) are significantly associated with the standards' effective terms. These findings allow for the validation of a mathematical model that explains the dynamics of the standard's value. This model allows for an analysis of the relationship between a standard's value and the type of review to which it should be subjected. The model features a critical value that uniformly explains de facto standards and de jure standards in terms of the standards' dynamics.

Keywords: De jure standard, Effective term, Type of standard, Type of review, Dynamics *JEL*: O30, O31, O34, L15.

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1. Introduction

In this study, I explore the dynamics of standards by investigating their effective terms. More specifically, I evaluate Japanese de jure standards. By investigating these standards, I seek to identify the factors that influence their effective terms, thereby facilitating the optimization the manner in which they are managed. Although there are a number of ways to investigate de jure standards, I am most interested in exploring how three factors influence a standard's effective term: (1) the technological category in which the standard is applied, (2) the type of the standard, and (3) the type of review. As such, in this study, I discuss the model and how it illustrates the relationship between a standards' value and these three factors. In the model, I introduce the notion of η (a threshold figure) and $\eta V(0)$ (a critical value), both of which are related to the value of standards. These values help to uniformly explain de facto standards and de jure standards in terms of the standards' dynamics.

Standards can be generally classified into one of two categories—de facto standards and de jure standards. Whereas de facto standards are formulated through market mechanisms and competition, de jure standards (e.g., Japanese Industrial Standards [JIS]) are typically determined through the activities of public standards development organizations [1]. Briefly speaking, the de facto standard is determined in the market as a result of enterprise competition. As a result, there are no adequate records related to de facto standards' effective start and end dates. In contrast, the JIS maintains chronological records associated with de jure standards [2]. The existence of these records facilitates the analysis of the dynamics of de jure standards using the JIS data. For the purposes of this study, I define a standard's "effective term" as the difference between 2014 (or the year of withdrawal if a standard has been withdrawn) and the year it was established. This calculation results in a metric I use as the dependent variable in the econometric analysis.

De jure standards are reviewed after a certain period of use [2]. Standards couched in the JIS, for example, are reviewed every five years. Reviews are executed per a rules-based process initiated by a user's request and can take several forms, including withdrawal, replacement, amendment, and confirmation¹. A "withdrawal" refers to a review that results in the termination of an active standard; a "replacement" concerns a review in which a standard changes its name or contents, or splits into other standards; an "amendment" relates to the modification of an existing standard; and a "confirmation" leaves a standard in its current form with no change. As I am interested in evaluating changes to standards, I use three variables related to the type of review in the econometric analysis: whether a standard is withdrawn (WITH), amended (AMEND), or replaced/split (REP) or not.

"Type of standard" refers to the subject matter about which a standard is oriented. Generally, standards dictate rules related to a product's characteristics (i.e., production standards) or the use of certain measurement metrics (i.e., measurement standards). Other standards, however, dictate rules associated with industrial design (e.g., products and graphic symbols) [3]. For the purposes of the analysis, I have classified these standards as "design and symbol" standards. As such, I have categorized JIS standards into one of three categories based on their different types: production standards, measurement standards, and design and symbol standards.

In addition to the aforementioned factors, this study also evaluates standards based on whether they are international in scope (i.e., "international reference"), or serve a legislative purpose (i.e., "legislative usage").

To evaluate the factors outlined above using a functional model, I assume the functional relationship between these variables to be represented as:

Effective term of standard = f (technological category, type of standards, type of review, international reference, legislative usage), f'(\cdot) > 0 (1)

¹ This statement discusses the system of de jure standards. There is no systematic review period for de facto standards. The timing of technological update, which I consider a review, is generally decided in market competition.

Using this functional model, I empirically estimate the magnitude of the factors that influence the effective term of standards governed by the JIS. I estimate this model via an OLS method with a sample of 15,127 observations of current and past standards. This analysis produced several novel findings. First, the marginal effects of the aforementioned factors on a standard's effective term differ among industrial categories. This finding suggests that optimizing the review interval of de jure standards requires an evaluation of the technological category in which a standard is typically applied. Second, the results indicate that a standard's type affects its effective term. More specifically, the effective terms of "design and symbol" standards significantly differ from the effective terms of standards of other types.

2. Literature Review and Hypothesis Formation

2.1 De jure Standards in Japan

For the purposes of this study, I collected standard's data (as of 2014) from the JIS's e-JISC database². The JIS summarizes the de jure standards utilized by firms in Japan. De jure standards differ from de facto standards in that de jure standards are developed in public and are handled by a public agency [4]. Owing to the transparency associated with de jure standards, each standard has a clear starting date. This allows for a calculation of each standard's term of effectiveness.

2.2 Availability of Data on Standards

Data regarding the effective terms of standards are generally not well prepared. One reason for the poor preparation of data on standards is the OECD's lack of a viable statistical framework for collecting data on standards ([5][6]). This is a significant shortcoming, given the degree to which data are collected from a variety of resources to evaluate different societal dynamics [7]. Because of the lack of a statistical framework for evaluating these data, there have been few empirical studies on the dynamics of standards. Of a few studies that do exist, they use bibliographic data from JTC1³[8] and PERINORM⁴[9] to facilitate their analyses.

2.3 Standard and Innovation

Standardization is a natural result of the diffusion, selection, and adoption of technological changes [10]. Given that standardization is not a static process, the effect of a standard on product innovation is dynamic and differs at each stage of a product's life cycle. In this way, standards can be categorized as one of three types: anticipatory standards, enabling standards, and responsive standards [11]. Some researchers contend that these three types of standards occur sequentially (and facilitate product innovation) over the course of a product's life cycle ([9][12][13]).

2.4 Type of Standard

The ways in which types of standards affect innovation is a growing area of research. As this body of research has grown, researchers have concluded that standards serve three functions: information, compatibility, and variety reduction [14]. The information function reduces transaction costs; the compatibility function creates network externalities; and variety reduction builds a critical mass of products [14]. Past scholarship on standards has largely focused on standards for production ([15][16][17]), or standards for measurement and testing [18]. Standards for designs and symbols, however, have not been thoroughly explored ([19][20][21]). This empirical oversight is notable, given that research in some technological fields (e.g., nanotechnology and information technology) has shown that the market success of products in these fields is largely contingent on the development of standards related to designs, symbols, terminology, measurement, and testing methods ([22][23]).

² e-JISC is an electric database maintained by the Japanese government to organize data related to past and current Japanese Industrial Standards.

³ JTC1 is the joint technical committee associated with ISO and IEC.

⁴ PERINORM is the EU's bibliographical database of de jure standards. This database is maintained by SDOs in the EU.

2.5 Dynamics of Standards

Research on the dynamics of standards is relatively new [24]. Empirical and theoretical work on standards has typically focused on costs (e.g., transaction costs and production cost savings), competition (i.e., how to use standards to organize markets), communication and coordination (e.g., agreeing upon technical specifications) [25], or the effect of participating in activities related to standards' development ([20][26][27][28][29]). Researchers that have adopted a macroeconomic perspective have evaluated the role of standards in international trade flows ([18][21]).

Some previous research has quantitatively evaluated the dynamics of international de jure standards. However, this research has used only semi-parametric methods (e.g., Cox survival analysis [9]) and descriptive analysis [8]; thereby, limiting the amount of research on the marginal effects of different factors on a standard's effective term of use. Some researchers have also employed qualitative methods to investigate the dynamic nature of standards. For instance, David [15] and Yamada and Kurokawa [17] surveyed de facto standards using qualitative methods of observation. David [15] evaluated the orientation of letters on keyboards, finding that the QWERTY key arrangement (despite being ergonomically inefficient) has persisted for about 100 years. One reason for the persistence of this standard derives from the "locking-in" of human skill sets.

Yamada and Kurokawa [17] researched the dynamics of 13 de facto standards in the information technology and audiovisual industries in Japan. Specifically, they evaluated standards associated with different storage devices and players, including CDs, DVDs, and VCRs. The longest-lived among these standards was associated with the floppy disk (24 years) and the shortest was associated with the Betamax VCR (3 years). The authors indicated that longer effective terms of de facto standards based on the time when they were established and the time they were withdrawn, there was no verifiable, quantified evidence related to these key dates. Moreover, notably in Japan's audiovisual information industry, de facto standards could be established when market share reached 2% to 3% (e.g., VCR, video discs, and game hardware). This study found that de facto standards are more likely to be established when companies rapidly increase their market share [17]. Table 1 summarizes previous work in this domain.

[Table 1]

2.6 Hypothesis Formation

The literature summarized above suggests a series of interrelated relationships. Figure 1 summarizes these various relationships, and highlights hypotheses that can be tested to evaluate them.

[Figure 1]

2.6.1 The Effect of Technological Category on a Standard's Effective Term

The technological category in which a standard is applied affects that standard's effective term. This is manifest among EU de jure standards, where differences in technological categories have different effects on standards' effective terms [9]. Therefore, I predict:

H1: The technological category in which a standard is developed significantly affects its effective term.

2.6.2 The Effect of a Standard's Type on a Standard's Effective Term

Measurement standards are generally considered more stable than non-measurement standards. This stability is because measurement standards sometimes produce data for legislative purposes. As legislation requires continuity, the standards used in developing legislation must be similarly durable. Despite the intuitiveness of this assertion, empirical research is rarely consistent. In contrast, the emergence of new technologies requires the development of new measurement standards. As such,

radical innovation can yield a wealth of new measurement standards. For example, in the case of R&D on nanotechnology (a field in which radical innovation is in continuous progress) new measurement standards are necessary [22]. Given the need to continuously develop new standards in these sectors, standards can be short-lived. Even measurement standards, which are typically stable and have long effective terms, are likely to be replaced in the same way as non-measurement standards.

In addition to measurement standards, this study focuses on standards related to designs and symbols. These standards define the fundamental shapes and images associated with goods and services. As such, these standards tend to have longer effective terms. It therefore follows that:

H2: A standard's type significantly affects its effective term.

2.6.3 The Effect of a Type of Review on a Standard's Effective Term

Finally, I examine the relationship between the reviews to which a standard is subjected and the standard's effective term. A review of the extant literature shows that the technological contents of a standard can be updated by amendment [24]. This suggests that the review of a standard can significantly affect its effective term. To test this possibility, I propose the following hypothesis:

H3: The type of review to which a standard is subjected significantly affects its effective term.

3. Method

3.1 Analytical Framework

For de facto standards, effective terms are positively related to corporate profitability [17]. The more properly a standard is reviewed, the more effectively it is likely to be updated technologically. In sum, identifying the optimum standard's review period increases the technological information in the standard; thereby, making it more versatile.

3.2 Estimation Equation

I used an ordinary least squares method with robust standard errors to estimate the model defined in this section. I used the analytical package STATA to estimate the model. This model is expressed as a linear combination of independent variables. Specifically, the estimation model is expressed as:

$$Effective \ term = \beta X + u \tag{2}$$

, where β is the coefficient matrix and X is the variable matrix. *u* is an error term. Table 2 summarizes the variables to populate the model.

[Table 2]

3.3 Variables and Data Preparation

I used the data from the e-JISC, which houses bibliographic data related to standards used in Japan. In total, I collected data on 15,127 active and withdrawn standards.

3.3.1 Technological Category

To construct a variable to represent the technological category in which a standard is situated, I created dummy variables for each of the 19 technological areas⁵ identified by the JIS. Each of these technology areas are identified by an alphabetic code (see Appendix A).

3.3.2 Type of Standard

I first categorized standards as being related to either designs and symbols or measurement by

⁵ Within the JIS database, technological category is not equivalent to the ISO/IEC's International Classification for Standards (ICS) [3].

evaluating the standards' titles. Titles that include Japanese words related to measurement (e.g., *kensa* [measurement], *shiken* [examination]) were assumed to identify measurement standards. Titles that included Japanese words related to design and symbol (e.g., *kigou* [design or symbol]) were assumed to identify standards related to designs and symbols (see Appendix B). All other standards (i.e., those that did not contain measurement- or design-/symbol-related terms) were categorized as production standards. Similar to technological category, I created dummy variables for each of these standard's types.

3.3.3 Type of Review

I classified the types of reviews to which standards were subjected into one of three categories. These relate to whether a standard was withdrawn (WITH), amended (AMEND), or replaced/split (REP), respectively. Withdrawal indicates that the standard was abolished and no subsequent standard was created. Amendment indicates that a standard has undergone some change that has led it to its current state. Replacement indicates that a standard has been supplanted by a successor, or that another standard has emerged as an offshoot.

4. Results and Discussion

4.1 Descriptive Statistics

Table 3 outlines the descriptive statistics associated with all variables. The dummy variable associated with the type of standards is broken into three types: production standards (p_type), measurement standards (m_type), and design and symbol standards (d_type). Appendix C shows the correlations between the variables.

[Table 3]

4.2 Estimation Results and Discussion

4.2.1 Estimation Results

Table 4 shows the results of the model estimation. To perform the estimation, I set cat1 (civil engineering and architecture) and p_type (production standards) as baselines, since the number of those standards is large. All models include references to international standards and legislative usage as control variables. For all models, the variance inflation factor (VIF) is below 2.00, suggesting that the data are not subjected to perfect multicollinearity. In Model 1, I estimated only the effect of technological category on a standard's effective term. Results of the Model 1 estimation indicate that whereas some technological categories are negatively related to a standard's effective term (e.g., cat3 [electronic and electrical engineering], cat13 [management system], cat16 [medical equipment and safety appliances], and cat18 [information processing]), others are positively related to a standard's effective term (e.g., cat2 [mechanical engineering], cat4 [automotive engineering], and cat5 [railway engineering]). Model 2 includes types of standard and technological category as predictor variables. The results of this estimation show that measurement standards and design and symbol standards have longer effective terms. In Models 3, 4, and 5, I included the AMEND, REP, and WITH variables, respectively, related to the review of standards. These additions showed that the different types of review are all significantly associated with a standard's effective term.

[Table 4]

4.2.2 Hypothesis Validation

Figure 2 provides a visual depiction of the results of the hypothesis tests. The results of the analyses related to Hypothesis 1 do not allow it to be rejected. In the estimation models, the technological category dummies were found to be significantly related to the effective terms of standards applied in those categories. This was particularly true in the mining (cat11) and pulp and paper (cat12) categories. Still, the magnitude of the relationship was weaker in the electronic and electrical engineering (cat3) and management system (cat13) categories. This suggests that the review interval for standards in the

mining and pulp and paper industries can be extended to reduce administrative costs; standards in the electronic and electrical engineering and management system sectors can be shortened.

[Figure 2]

I also found cat3 (i.e., standards in the electronic and electrical engineering sector) to be negatively related to the effective term of a standard in Models 1-4. This result was consistent, though marginally significant, in Model 5. This result is consistent with the intuitive understanding that product lifecycles in this sector are shorter than product lifecycles in the baseline sector. This is likely due to the fact that the development of new standards occurs frequently in this sector, where innovation is paramount([11][12][13]). Interestingly, the relationship between standards in the information processing sector (cat18) is significant in Models 1-3, but not Models 4 and 5. Previous research in this domain has produced similar results [9]. The non-significant results in Models 4 and 5 may indicate that information technology has become a General Purpose Technology (GPT) [30], making it unsuitable for categorization in a specific technology category.

Results also provided at least partial support for Hypothesis 2. The coefficient associated with standard's types was significant in Models 2-5. This result is consistent with past work, which has shown, for example, that design and symbol standards are important in the nanotechnology sector in Germany [22]. The results of my analysis indicate that production standards, designs and symbols standards, and measurement standards are in decreasing order in terms of their effective terms. Results indicate that the design and symbol standards have shorter effective terms than production standards. This is not consistent with general understanding related to the effective terms of standards' types. This difference is likely attributable to the fact that the current analysis focuses on de jure standards rather than de facto standards. In contrast to de facto standards, de jure standards often define production goods as intermediate goods. There is little need to change the technical requirements for production goods (e.g., chemical materials). As such, the characteristics of production goods intrinsically delay the time at which the standards become obsolete.

Finally, the results associated with Hypothesis 3 do not allow it to be rejected. The manner in which a standard is reviewed is significantly and positively related to its effective term. More specifically, the results of the estimation indicate that the amendment of a standard has a more substantial influence on the standard's effective term than its replacement. The coefficient associated with amendment is the largest of the three types of reviews (about 22) in Models 3-5. The coefficient associated with replacement is significant in Models 4 and 5. However, the coefficient associated with withdrawal is significant and negative in Model 5. This result implies that technological amendment of standards allows for the accumulation of technologies to a greater degree than replacement. This is likely the case because obsolete technology can typically be replaced.

4.2.3 Model

I propose Equation (3) to estimate the relationship between the value of standards and time⁶. Here, value of standards can be expressed as:

$$V_{cat, k}(t) = V_{cat, k}(0) \frac{e^{\alpha(t+\beta)}}{(1+e^{\alpha(t+\beta)})}$$
(3)

, where *V* refers to the economic value of the standard as public goods when t time has elapsed since the previous review. *V* also represents the benefit provided by a reviewed standard. *cat* represents the technological category in which a standard is applied. k indicates the number of times a standard has been reviewed. t indicates the number of years that have elapsed since the standard was last reviewed, and α and β are constants.

 $^{^{6}}$ I deduce this model from a theoretical perspective; hence, this study does not include a discussion of the empirical method to measure the value *V*.

I further define t_r as the review interval. Figure 3 shows the relationship between elapsed time t and V (in Case 1, $\alpha = -1.5$, $\beta = -10$; in Case 2, $\alpha = -1.5$, $\beta = -6$). The relationship of t_r to V is indicated in Figure 3. The value of a standard in t_r is denoted as $V(t_r)$. In Equation (3), the constant α defines the declining speed dV/dt and constant β defines the plateau state where V is stable. When β is large, a standard maintains the value V(0) for a relatively longer period of time than when β is small. [Figure 3]

In Case 1, where the review interval t_r is set at five years, $V_{I,k}(t_r)$ is equal to $V_{I,k}(0)$. In this case, it is better to extend the review period to reduce administrative costs associated with maintaining the standard. In Case 2, however, $V_{2,k}(t_r)$ is less than $V_{2,k}(0)$ when time elapses to the review interval t_r . Therefore, in Case 2, it would be useful to shorten the review interval. Standards related to electronic and electrical engineering (cat3), as well as management system (cat13) are Case 2 standards. Other categories (e.g., mining(cat11), and pulp and paper(cat12)) are Case 1 standards.

If the cost to amend or replace a standard is larger than the benefits obtained by reviewing a standard, the standard will be withdrawn [24]. The value provided by reviewing a standard can be expressed as:

, which can be simplified as:

$$= V_{cat,(k+1)}(0) - C_k$$
 (5)

The condition of review choice is expressed from Equation (6) as:

Benefit of review =
$$V_{cat,(k+1)}(0) - C_k > 0$$
 (6)

Equation (6) specifies a condition in which a standard is not withdrawn. Some standards have been neither amended nor replaced. These still-active standards have large values for β , and contain knowledge that is resistant to obsolescence.

I introduce the notion of the critical review interval t_c , in which the lock-in effect of a standard appears and the value of a standard in t_c is denoted as $V(t_c)$. t_c differs across technological categories and t_r and t_c satisfies the relationship in Equations (7) when a standard can retain the lock-in effect:

$$V(t_r) > V(t_c) = \eta V(0) \tag{7}$$

, where η is the threshold figure and $\eta V(0)$ is the critical value at which a lock-in effect emerges.

Generally, η is high for de facto standards because product or service developers maintain market competitiveness by developing and applying new standards. As such, the review interval is shorter for these firms⁷. In contrast, the η associated with de jure standards need not be high. By introducing those values, it is possible to uniformly explain the de jure standards and the de facto standards in terms of their dynamics.

⁷ For discussion, I consider the interval in technological update of de facto standards as a review interval. The timing of technological update of de facto standards is generally decided in market competition.

4.3 Policy Implications

ISO protocols dictate that the maximum time interval that should elapse between standards' reviews is five years [2]. This study suggests the need for a more flexible system by which de jure standards are reviewed. The results of this research are applicable not only to standards housed under JIS, but also de jure standards developed by international standard development organizations. The findings produced here also help to facilitate the process by which de jure standards are reviewed. Given that de jure standards have become essential in the fields of advanced science and technology, it is critical that the review structure is revisited and adjusted.

The analyses presented in this study indicate that the technological categories specified by JIS are not consistent with ICS. To make the management procedures associated with de jure standards more consistent, regional standard development organizations (e.g., JISC) should strive to define their categories in a manner similar to other methodologies (e.g., ICS). Another approach to standardize the system by which international and regional standards are defined is the use of a concordance table⁸, which facilitates the exchange of international data to improve management systems.

4.4 Limitation

It is important to note that I used bibliographic data (i.e., titles of standards) of standards to classify them in terms of standards' types. Future research should seek to use more detailed qualitative data to facilitate the classification of standards. Further, I proposed a numerical model of the relationship between the value of standards and time, as in Equation (3). Nevertheless, presently, the model is for theoretical discussion; hence, an empirical methodology for measuring variables such as V is essential for further discussion.

5. Conclusion

Several interesting observations emerged from the analyses presented here. First, I found that the technological category to which a standard applied was significantly related to the standards' effective terms. Second, a standard's type was also found to be significantly related to its effective term. More specifically, the results indicate that design and symbol standards were significantly different from other standard's types with respect to their effective terms. Third, the type of review was significantly associated with a standard's effective term, likely as a function of technological accumulation. Finally, the proposed model illustrates the relationship between a standards' value and the type of review. η and $\eta V(0)$ help explain the de facto standards and the de jure standards in terms of the standards' dynamics.

Appendices:

Appendix A: Technical classifications of JIS [4]

- 1. Category A: Civil Engineering and Architecture
- 2. Category B: Mechanical Engineering
- 3. Category C: Electronic and Electrical Engineering
- 4. Category D: Automotive Engineering
- 5. Category E: Railway Engineering
- 6. Category F: Shipbuilding
- 7. Category G: Ferrous Materials and Metallurgy
- 8. Category H: Nonferrous Materials and Metallurgy
- 9. Category K: Chemical Engineering
- 10. Category L: Textile Engineering
- 11. Category M: Mining

⁸ A concordance scheme is used to connect the data sets belonging to the different classification system.

- 12. Category P: Pulp and Paper
- 13. Category Q: Management System
- 14. Category R: Ceramics
- 15. Category S: Domestic Wares
- 16. Category T: Medical Equipment and Safety Appliances
- 17. Category W: Aircraft and Aviation
- 18. Category X: Information Processing
- 19. Category Z: Miscellaneous

Appendix B: List of design and symbol standards

[Table B.1]

Appendix C: Pearson correlation coefficients

[Table C.1]

Note: The list of design and symbol standards can be downloaded from the RIETI web site: http://www.rieti.go.jp/jp/publications/summary/14080016.html

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Table 1. Summary of previous research and the current study.

				Scope			
		Methodology	De facto or De jure standards	Standard Type Evaluated?	Technological category	Region	Data source
	David (1985)[16].	Qualitative case study	De facto standards (Active standards)	No	Keyboard arrangements	All countries	Historical observation
Previous research	Yamada and Kurokawa (2005) [17].	Qualitative case study	De facto standards (Withdrawn standards)	No	Storage devices and players (e.g., floppy disks, VCRs)	Japan	Newspapers and other financial reports
	Egyedi and Heijen (2008)[8].	Quantitative non- parametric analysis (descriptive statics)	De jure standards	No	Information and telecommunication technology	All countries	JTC1 data base
	Blind (2008)[9].	Quantitative semi- parametric analysis (Cox survival analysis)	De jure standards	Yes	Information technology, and telecommunication products	EU	PERINORM
The current study		Quantitative parametric analysis (robust OLS)	De jure standards (Active and withdrawn standards)	Yes	All JIS technology categories	Japan	e-JISC data base

Tables and Figures:

Variable	Notation in analytical results	Explanation	Related hypothesis	Notes
EFFECTIVE TERM	term	<i>Effective term of standard:</i> The number of years between the year of a standard's establishment and its withdrawal (inclusive). If the standard had not yet been withdrawn, the number of years between its establishment and 2014.	All	Dependent variable
CAT	catl, cat2,, catl8, catl9	<i>Technological category</i> : Dummy variables created to represent the technological sector in which the standard is applied.	HI	Independent variable
TOS	p_type, m_type, d_type	<i>Type of standard</i> : Dummy variables created to indicate the kind of standard (i.e., production standard, measurement standard, or design and symbol standard).	H2	Independent variable
WITH	withdrawal	Withdrawal: Dummy variable for one kind of review. "withdrawal" indicates that a standard had been previously withdrawn.	H3	Independent variable
REP	replacement	Replacement: Dummy variable for one kind of review. "replacement" indicates a standard has been supplanted or split into other standards.	H3	Independent variable
AMEND	amendment	Amendment: Dummy variable for one kind of review. "amendment" indicates a standard has been changed, but not fundamentally altered.	H3	Independent variable
INTER	international	International reference: Dummy variable to indicate whether a standard references another international standard.	All	Independent variable (Control variable)
LEG	legislative	Legislative usage: Dummy variable to indicate whether a standard was referenced for legislative usage.	All	Independent variable (Control variable)

Table 2. Explanation of variables.

	Variable	Observation	Mean	Std.Dev.	Min.	Max.
1	term	15127	28.079	18.479	0	65
2	cat1	15127	0.058	0.233	0	1
3	cat2	15127	0.149	0.356	0	1
4	cat3	15127	0.148	0.355	0	1
5	cat4	15127	0.032	0.176	0	1
6	cat5	15127	0.019	0.135	0	1
7	cat6	15127	0.046	0.209	0	1
8	cat7	15127	0.035	0.185	0	1
9	cat8	15127	0.036	0.188	0	1
10	cat9	15127	0.179	0.384	0	1
11	cat10	15127	0.025	0.156	0	1
12	cat11	15127	0.017	0.130	0	1
13	cat12	15127	0.009	0.095	0	1
14	cat13	15127	0.007	0.081	0	1
15	cat14	15127	0.031	0.172	0	1
16	cat15	15127	0.024	0.153	0	1
17	cat16	15127	0.046	0.209	0	1
18	cat17	15127	0.011	0.102	0	1
19	cat18	15127	0.051	0.221	0	1
20	cat19	15127	0.077	0.267	0	1
21	withdrawal	15127	0.295	0.456	0	1
22	replacement	15127	0.020	0.140	0	1
23	amendment	15127	0.618	0.486	0	1
24	p_type	15127	0.656	0.475	0	1
25	m_type	15127	0.042	0.200	0	1
26	d_type	15127	0.302	0.459	0	1
27	international	15127	0.439	0.496	0	1
28	legislative	15127	0.121	0.327	0	1

Table 3. Descriptive statistics.

		Mode	11			Mode	12		Model	3		Model	4		Mode	15	
	Coefficient	Robust standard error	t-statistic	p-value	Coefficient	Robust standard error	t-statistic	p-value									
.Technologica category																	
catl	baseline				baseline			baseline			baseline			baseline			
cat2	3.484	0.682	5.10^{**}	*	1.673	0.691	2.42 *	3.986	0.577	6.91 ***	4.428	0.577	7.68 ***	4.250	0.574	7.40 **	*
cat3	-2.583	0.678	-3.81 **	*	-4.470	0.683	-6.54 ***	-1.666	0.583	-2.86 **	-1.154	0.583	-1.98*	-1.090	0.581	-1.87+	
cat4	8.929	0.966	9.25 **	*	8.070	0.973	8.29 ***	7.544	0.762	***06'6	7.959	0.762	10.44 * * *	7.580	0.749	10.13 *:	*
cat5	5.287	1.044	5.06**	* *	3.549	1.057	3.36**	2.368	0.865	2.74 **	2.906	0.861	3.38 **	3.050	0.847	3.60*	*
cat6	9.716	0.831	11.69**	* *	6.408	0.845	7.59 ***	6.968	0.686	10.16***	7.521	0.686	10.96^{***}	7.513	0.675	11.13 *:	*
cat7	6.686	1.143	5.85 **	*	6.380	1.112	5.74 ***	7.185	0.834	8.62 ***	7.757	0.834	9.29 ***	7.535	0.841	8.96*	*
cat8	6.279	0.917	6.85 **	*	7.459	0.910	8.20 ***	5.551	0.757	7.33 ***	5.899	0.752	7.84 ***	5.659	0.747	7.58*	*
cat9	6.739	0.676	9.97 **	* *	6.520	0.671	9.72 ***	7.526	0.574	13.11 ***	8.032	0.575	13.97 ***	8.226	0.572	14.37 **	* *
cat10	8.920	166.0	9.00**	* *	8.477	0.982	8.63 ***	6.036	0.793	7.61 ***	6.509	0.790	8.24 ***	6.720	0.784	8.58 *:	*
cat11	15.927	1.215	13.11 **	* *	17.285	1.286	13.44 ***	13.197	1.018	12.97 ***	13.741	1.022	13.45 ***	13.848	166.0	13.98 *:	*
cat12	11.736	1.640	7.16**	*	13.813	1.680	8.22 ***	10.019	1.169	8.57 ***	10.005	1.187	8.43 ***	10.606	1.161	9.14 *:	*
cat13	-12.186	0.850	-14.33 **	*	-16.741	0.854	-19.59 ***	-8.394	1.071	-7.84 ***	-7.798	1.067	-7.31 ***	-8.153	1.118	-7.30 **	*
cat14	3.003	1.105	2.72 **	*	4.830	1.043	4.63 ***	5.570	0.816	6.83 ***	6.066	0.815	7.44 ***	5.623	0.813	6.92 **	*
cat15	-0.038	0.986	-0.04		-2.392	0.970	-2.47 **	-1.498	0.844	-1.78+	-1.138	0.835	-1.36	-0.989	0.812	-1.22	
cat16	-3.274	0.896	-3.66 **	* *	-5.721	0.891	-6.42 ***	-0.549	0.741	-0.74	-0.061	0.739	-0.08	-0.064	0.745	-0.09	
cat17	1.372	1.276	1.08		-0.635	1.291	-0.49	5.414	1.052	5.15 ***	5.942	1.058	5.62 ***	6.013	0.993	6.06 *:	*
cat18	-6.179	0.697	-8.87 **	**	-10.397	0.718	-14.49 ***	-1.591	0.658	-2.42 *	-1.022	0.658	-1.55	-0.867	0.663	-1.31	
cat19	3.262	0.755	4.32 **	* *	2.800	0.774	3.62 ***	4.742	0.635	7.46***	5.227	0.636	8.22 ***	5.106	0.633	8.07 *:	* *
cons	29.299	0.580	50.48 **	*	32.772	0.596	54.95 ***	14.015	0.540	25.97 ***	13.522	0.539	25.07 ***	15.253	0.554	27.52 *:	*
Type of andard																	
p_type					baseline			baseline			baseline			baseline			
m_type					-8.650	0.324	-26.67 ***	-3.570	0.255	-14.00 ***	-3.564	0.255	-13.99 ***	-4.121	0.259	-15.90 *:	*
d_type					-4.565	0.670	-6.81 ***	-1.741	0.552	-3.16**	-1.659	0.552	-3.00 **	-1.697	0.552	-3.07 *:	*
.Type of sview																	
withdrawal														-3.425	0.247	-13.84 *	*
replacement											7.444	0.828	8.99 ***	6.397	0.842	7.60**	*
amendment								22.524	0.227	99.37 ***	22.376	0.227	98.55 ***	22.451	0.229	97.89 **	k %
.Control ariables																	
international	yes				yes			yes			yes			yes			
legislative	yes				yes			yes			yes			yes			
R square	0.173				0.212			0.509			0.512			0.517			
F-value	269				302			1059			1020			1014			
Observation	15127				15127			15127			15127			15127			
VIF	1.72				1.68			1.67			1.65			1.64			
	*** p<0.001,*	* p<0.01,* p	<0.05, + p<0.	11													

Table 4. Estimation results.



Figure 1. Hypothesis structure.



Figure 2. Hypothesis test results.



Figure 3. Value of standard over time.

Table B.1 List of design and symbol standards (JIS number)

| | Z8617-1
78617-1 | Z8617-12
Z8617-13 | Z8617-14 | CI-/ 1007
Z8617-2

 | Z8617-3 | Z8617-5 | Z8617-6 | 7-71385
7-713-87 | Z8617-9

 | Z8781-5 | Z8840 | Z8842
Z9021

 | Z9022 | Z9023 | Z9095 | 79/06Z | Z9100 | Z9101

 | Z9104 | 2016Z | 20102 | Z9115 | Z9201
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7	Z0105 Z0150

 | Z1531-2 | Z1614 | Z1628 | Z3021
73031 | Z3200

 | Z3282 | Z3391 | Z4004
Z4905

 | Z4911 | Z4912 | Z4950 | 1-1018Z | Z8101-2 | Z8101-3

 | Z8201 | 7078Z | Z8205 | Z8206 | Z8207
 | Z8208 | Z8210
Z8210 | Z8221-1 | Z8221-2
78771-3
 | Z8222-1
 | Z8222-2 | Z8222-3 | 20202 | Z8313-1 | Z8313-5
 | Z8316 | Z8317 | Z8317-1 | Z8318 | Z8503-4 | Z8617-10
Z8617-10
 | |
| v | X0121
X0122 | X0124
X0124 | X0127 | X0209

 | X4107
X4108 | X4108
X4163 | X5111 | X5112
X6197 | X6194

 | X6302-9 | X6310 | X6320-2
X6321-2

 | 77197 | X9008 | 1016X | | |

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| M | W0104 | W0112 | W0113 | W0115

 | W0116 | W0118 | W0119 | W1300
W1831 | W3902

 | W7109 | W7112 | W7117
W8301

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| 1 | T0103
T0307 | T0922 | T1006
T5502 | CUCC1
T5505-1

 | T5507
T5001 | T5904 | T5905 | T9251 |

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S0023-2 | S0026 | S0052 | S0102

 | S0103 | SI011 | S1012 | S1015
S1071 | S1101

 | S4602 | S5051 | S7101

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P2101 | R2102 | R2103
P2104 | R6004

 | R6211 | R6211-10 | R6211-11 | R6211-12
R6211-13 | R6211-14

 | R6211-15 | R6211-16 | R6211-2
R6211-3

 | R6211-4 | R6211-5 | R6211-6 | R6211-7
R6211-8 | R6211-9 | R7201

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L0217

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| ¥ | K5718-1 | K6718-2 | K6734
V 6735 | CC/0N
K6811

 | K6884 | K6899-1 | K6899-2 | K6899-3
K6899-4 | K6932

 | K7511 | K7512 | K7513
K7520

 | K7521 | K7522 | K7523
V7523 | 1761 V | K7536 | K7537

 | K7538 | K7541 | K7542 | K7550 | K7551
 | K7552 | K7554 | K7555 | K7556
K7563
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 | K7565 | | | |
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 | D3603 E3302 F2210 | D3603-2 E3308 F7801 | D3603-3 E4010 F8011 | D3603-4 E4017 F8012
D3604 E4051 F8013 | D3631 E4502-2

 | D3632 E5401-2 | D3642 E5402-2 | D3651 E6001
D3701 E7202

 | D3903 | D4002 | D4010 | D4220 | D4701 | D5011

 | D5201 | D5202
D5203 | D5205 | D5206 | D6022
 | D6024 | D6102 | D6103 | D6105
D6106
 | D6107
 | D6407 | D6601 | D6002 | D6704 | D6705
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| E D | C0301 D0032 E1305 F0050
C0303 D0035 E1306 F0051 | C0401 D0102 E1307 F0052 | C0456 D2501 E3011 F0053 | C0617-1 D2620 E3301 F0411

 | C0617-10 D3603 E3302 F2210 | C001/-11 D3003-1 E3300 F7801
C0617-12 D3603-2 E3308 F7801 | C0617-13 D3603-3 E4010 F8011 | C0617-2 D3603-4 E4017 F8012
C0617-3 D3604 E4051 F8013 | C0617-4 D3631 E4502-2

 | C0617-5 D3632 E5401-2 | C0617-6 D3642 E5402-2 | C0617-7 D3651 E6001
C0617-8 D3701 E7202

 | C0617-9 D3903 | C1103 D4002 | C2513 D4010 | C2517 D420 | C2518 D4701 | C2560-3-1 D5011

 | C2802 D5201 | C5062 D5202
C5064 D5203 | C5212 D5205 | C5213 D5206 | C5222 D6022
 | C5223 D6024 | C5721 D6102 | C5722 D6103 | C5723 D6105
 | C5725 D6107
 | C6010 D6407 | C6822 D6601 | C7000 D6002 | C7040 D6704 | C7103 D6705
 | C7104 D6709 | C7506-1 | C8101 | C8702-2 | C9309 | C9310
 | |
| C D | B8385 C0301 D0032 E1305 F0050
B8387 C0303 D0035 F1306 F0051 | B8394-1 C0401 D0102 E1307 F0052 | B8394-2 C0456 D2501 E3011 F0053
B9305 C0400 D3500 1 E3012 E0000 | B8396 C0617-1 D2620 E3301 F0411

 | B8398 C0617-10 D3603 E3302 F2210 | B8403-2 C0617-11 D3603-1 E3308 F7801 | B8404-1 C0617-13 D3603-3 E4010 F8011 | B8404-2 C0617-2 D3603-4 E4017 F8012
B8404-3 C0617-3 D3604 E4051 F8013 | B8404-4 C0617-4 D3631 E4502-2

 | B8404-5 C0617-5 D3632 E5401-2 | B8434 C0617-6 D3642 E5402-2 | B8437 C0617-7 D3651 E6001
B8601 C0617-8 D3701 E7202

 | B8663 C0617-9 D3903 | B8665 C1103 D4002 | B8667 C2513 D4010 | B8669 C2517 D4220
B8669 C7517 D4304 | B8824 C2518 D4701 | B8824-2 C2560-3-1 D5011

 | B8824-3 C2802 D5201 | B8839 C5062 D5202
B8074 C5064 D5203 | B8930 C5212 D5205 | B8931 C5213 D5206 | B9010 C5222 D6022
 | B9070 C5223 D6024 | B9100 C52/0 D6101
B9126 C5721 D6102 | B9126-1 C5722 D6103 | B9126-2 C5723 D6105
B9126-3 C5724 D6106
 | B9126-5 C5725 D6107
 | B9206 C6010 D6407 | B9209 C6822 D6601 | B9224 C/U00 D6602
D0508 C7000 D5702 | B9511 C7040 D6704 | B9516 C7103 D6705
 | B9521 C7104 D6709 | B9522 C7506-1 | B9607 C8101 | B9614 C8702-2 | B9615 C9309 | B9912 C9310
B9912
 | R0013 |
| C D F | B6340 B8385 C0301 D0032 E1305 F0050
B6420 B8387 C0303 D0035 E1306 E0051 | B6450 B8394-1 C0401 D0102 E1307 F0052 | B6451 B8394-2 C0456 D2501 E3011 F0053
D2462 D8336 C0400 D2601 E3012 F0053 | B6571 B8396 C0617-1 D2620 E3301 F0411

 | B6701 B8398 C0617-10 D3603 E3302 F2210 | B0/02 B8403-1 C001/-11 D3003-1 E3307 F7000
B7022 B8403-2 C0617-12 D3603-2 E3308 F7801 | B7111 B8404-1 C0617-13 D3603-3 E4010 F8011 | B7115 B8404-2 C0617-2 D3603-4 E4017 F8012
R7128 B8404-3 C0617-3 D3604 E4051 F8013 | B7129 B8404-4 C0617-4 D3631 E4502-2

 | B7132-1 B8404-5 C0617-5 D3632 E5401-2 | B7132-2 B8434 C0617-6 D3642 E5402-2 | B7158-1 B8437 C0617-7 D3651 E6001
B7169 B8601 C0617-8 D3701 E7202

 | B7170 B8663 C0617-9 D3903 | B7176 B8665 C1103 D4002 | B7219 B8667 C2513 D4010 | B/220 B0000 C213 D4220
R7771 B8660 C7517 D4304 | B7222 B8824 C2518 D4701 | B7230 B8824-2 C2560-3-1 D5011

 | B7281 B8824-3 C2802 D5201 | B/421 B8839 C5062 D5202
B7013 B8024 C5064 D5203 | B7914-1 B8930 C5212 D5205 | B7914-2 B8931 C5213 D5206 | B8347 B9010 C5222 D6022
 | B8357 B9070 C5223 D6024 | B8366-1 B9126 C5721 D6102
B8366-1 B9126 C5721 D6102 | B8366-2 B9126-1 C5722 D6103 | B8366-3 B9126-2 C5723 D6105
B8366-4 B0126-3 C5724 D6106
 | B3366-5 B9126-5 C5725 D6107
 | B8366-6 B9206 C6010 D6407 | B8366-7 B9209 C6822 D6601 | B8367-1 B9224 C/005 D6002
D9227 2 D0500 C7700 D6702 | B8367-3 B9511 C7040 D6704 D6704 | B8367-4 B9516 C7103 D6705
 | B8367-5 B9521 C7104 D6709 | B8367-6 B9522 C7506-1 | B8368-1 B9607 C8101 | B8368-2 B9614 C8702-2 | B8368-3 B9615 C9309 | B8369 B9911 C9310
B8369 B9912
 | B0012 |
| B | B4002 B6340 B8385 C0301 D0032 E1305 F0050
B4003 B6470 B8387 C0303 D0035 E1306 E0051 | B4005 B6450 B8394-1 C0401 D0102 E1307 F0052 | B4053 B6451 B8394-2 C0456 D2501 E3011 F0053
D4119 D2450 D206 C0400 D7500 1 E2010 E0000 | B4110 B6571 B8396 C0617-1 D2620 E3301 F0411
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 0.01 0.</th><th>Gi01 Nu Sam Lon Nu Nu11 Zuck <thzuck< th=""> <thzuck< th=""> <thzuck< th="" th<=""><th>I Gi0 Nun Nun</th></thzuck<></thzuck<></thzuck<></th></th></td<></th></t<></th></td<></th></th> | G319 H001 K384 L001 M01 P.1 C L0 C L0 C L0 C L0 L0 C L0 L0 M04 K6718-1 L0110 M3902 P0201 Q17030 R.1012 S0023-2 T0103 W0111 X0122 Z0160 Z8617-1 G3192 H0404 K6718-1 L0110 M3907 P0201 Q17030 R.2101 S0023-2 T0307 W0111 X0122 Z0150 Z8617-1 G3193 H8250 K6718-1 L0110 M3907 P0202 R2103 S0025-2 T0307 W0111 X0122 Z0150 Z8617-1 G3194 K6734 L0121 M3914 R2103 S0052 T1006 W0113 X0127 Z0151 Z0152 Z8617-1 G316 K6735 L0201 M3917 R2103 S0052 T1006 W0113 X0121 Z0152 Z6151 Z6161 Z6161 Z6161 Z6161 Z6161 < | G3191 H0001 K38M L001 M010 P13 Q1406 K1502 S0021 T0103 W014 X012 Z0105 Z8617-1 G3192 H0404 K6718-1 L0110 M3902 P0201 Q17030 R2101 S0023-2 T0307 W0111 X0122 Z0150 Z8617-1 G3193 H8250 K6718-2 L0110 M3902 P0201 Q1730 R2101 S0023-2 T0307 W0111 X0122 Z0150 Z8617-1 G3194 K6734 L0121 M3907 P0202 R2103 S0025 T1003 W0111 X0127 Z0152 Z8617-1 G3194 K6734 L0121 M3914 R2103 S0021 T75503 W012 X0127 Z0152 Z8617-1 G3316 K6834 L5121 M3915 R4004 S0101 T5505-1 W0115 X0209 Z0301 Z8617-1 K6884 L5121 M3918 R6604 S0102 T5505-1 W0115 | G3101 H0001 K3804 L001 M01 P138 Q1406 R1302 S0021 T0103 W014 X012 Z0105 Z6617-1 G3192 H0404 K6718-1 L0110 M3902 P0201 Q17030 R2101 S0023-2 T0307 W0111 X0122 Z0150 Z6617-1 G3192 H6404 K6718-1 L0110 M3902 P0201 Q17030 R2101 S0025-2 T0307 W0111 X0122 Z0150 Z6617-1 G3194 K6718-2 L0121 M3917 P0202 R2102 S0025 T0920 W0111 X0127 Z0151 Z6617-1 G3194 K6718-2 L0121 M3914 P0202 R2103 S0027 T0920 W0114 X0121 Z0161 Z6617-1 G3164 K6711 L0217 M3915 R604 S0102 T5503 Z0121 Z0161 Z6617-2 Z0151 Z6617-2 Z0151 Z6617-2 Z0152 Z6617-1 Z0162 | G33U H0001 K3844 L0001 P010 P010 K187 S001 T0103 W014 X012 Z0105 Z6617-1 G3192 H0404 K6718-1 L0110 M3902 P0201 Q17030 R2101 S0023-2 T0103 W0141 X0121 Z0105 Z6617-1 G3192 H0404 K6718-1 L0110 M3902 P0201 Q17030 R2101 S0023-2 T0307 W0111 X0122 Z0150 Z6617-1 G3194 K6734 L0121 M3901 P0202 R2103 S0025 T0307 W0111 X0127 Z0151 Z6617-1 G3194 K6734 L021 M3915 R2104 S0102 T5503 W0114 X0121 Z0161 Z6617-1 Z6617-3 Z6617-1 Z6617-1 Z6617-1 Z6617-1 Z6617-1 Z6617-3 Z6617-3 Z6617-3 | CG3191 H0001 K3804 L001 M01 P138 Q1406 R1302 S0021 T0103 W0114 X0124 Z0105 Z6617-1 CG3192 H0404 K6718-1 L0110 M3902 P0201 Q17030 R2102 S0023-2 T0307 W0111 X0122 Z0150 Z6617-1 CG3192 H64044 K6718-1 L0110 M3902 P0201 Q17030 R2102 S0025 T0037 W0111 X0122 Z0150 Z6617-1 CG3194 K6718-2 L0120 M3907 P0202 R2102 S0025 T1003 W0114 X0121 Z0151 Z6617-1 CG3164 K6718-1 L0121 M3915 R2104 S0101 T5503 W0114 X0121 Z0151 Z6617-3 CG3164 K6834 L5121 M3915 R6044 S0101 T5503 Z6617-3 Z0161 Z6617-3 Z0161 Z6617-3 Z0161 Z6617-3 Z0161 Z0161 Z6617-3 Z0161 </th <th>G3J01 H001 K38A L00 M01 P.1 A <tha< th=""> A A</tha<></th> <th>G3101 H0001 K3804 L001 M01 P.13 Q1006 R1302 S0021 T0103 W0114 X0121 Z0105 Z6617-1 G3192 H0001 K5718-1 L0110 M3902 P0201 Q17030 R2102 S0023 T0103 W0111 X0122 Z0150 Z6617-1 G3192 H60404 K6718-1 L0110 M3902 P0201 Q17030 R2102 S0025 T0307 W0111 X0121 Z0151 Z6617-1 G3194 K6733 L0021 M3915 R2102 S1003 T5505 W1114 X0121 Z0151 Z6617-1 G3194 K6733 L0201 M3915 R2104 S1013 T5503 W0114 X0131 Z0161 Z6617-1 Z6617-3 Z6617-3</th> <th>G3J91 H001 K384 L001 M01 F38 Q406 R150 S001 T0103 W014 X012 Z0105 Z6617-1 G3J92 H004 K6718-1 L0110 M3902 P0201 Q17050 R2101 S003-2 T0103 W0111 X0122 Z0150 Z6617-1 G3J94 K6734 L0121 M3901 P0202 R2102 S003-2 T0307 W0111 X0122 Z0150 Z6617-1 G3J94 K6734 L0121 M3901 P0202 R2104 S0101 T5503 S002-7 Z0166 W0113 X0127 Z0151 Z6617-1 G3J16 K6734 L0211 M3915 R2104 S0101 T5503 W0114 X0131 Z0161 Z6617-1 Z6617-3 <td< th=""><th>G3JU H001 K38A L001 M01 F318 C1013 M014 K6713 C1013 M014 X012 Z0105 Z6671-1 G3J92 H004 K6718-1 L0110 M3902 P0201 Q17050 R2102 80025 T013 W0111 X0122 Z0150 Z6671-1
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Appendices:

Note: n=635 (As of 2014)

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ternational 1																											1.000	0.071
mendment ir																										1.000	-0.266	0.098
placement a																									1.000	0.071	-0.002	0.002
ithdrawal re																								1.000	-0.093	0.107	-0.349	-0.233
d_type w																							1.000	-0.008	-0.014	-0.046	0.080	-0.048
m_type																						1.000	-0.138	-0.179	0.004	-0.181	0.097	-0.091
p_type																					1.000	-0.909	-0.288	0.177	0.002	0.194	-0.127	0.108
cat19																				1.000	-0.059	0.044	0.038	-0.019	-0.010	-0.020	-0.004	-0.032
cat18																			1.000	-0.067	0.140	-0.137	-0.019	0.012	-0.029	-0.160	0.164	-0.077
cat17																		1.000	-0.024	-0.030	0.013	-0.028	0.033	0.021	-0.010	-0.038	-0.012	-0.034
cat16																	1.000	-0.023	-0.051	-0.063	0.090	-0.081	-0.029	-0.037	-0.009	-0.036	0.024	0.189
cat15																1.000	-0.034	-0.016	-0.037	-0.045	0.065	-0.068	0.002	0.061	0.014	0.047	-0.109	-0.002
cat14															1.000	-0.028	-0.039	-0.018	-0.041	-0.051	-0.121	0.122	0.009	-0.039	-0.009	0.000	-0.072	-0.032
cat13														1.000	-0.015	-0.013	-0.018	-0.008	-0.019	-0.024	0.056	-0.054	-0.009	-0.028	-0.012	-0.053	0.070	-0.013
cat12													1.000	-0.008	-0.017	-0.015	-0.021	-0.010	-0.022	-0.028	-0.080	0.087	-0.010	0.023	0.046	0.024	0.015	-0.036
cat11												1.000	-0.013	-0.011	-0.024	-0.021	-0.029	-0.014	-0.031	-0.038	-0.077	0.084	-0.010	0.018	-0.008	0.056	-0.035	-0.038
cat10											1.000	-0.021	-0.015	-0.013	-0.029	-0.025	-0.035	-0.017	-0.037	-0.046	-0.026	0.033	-0.015	0.038	0.001	0.054	-0.024	-0.052
cat9										1.000	-0.075	-0.062	-0.045	-0.038	-0.083	-0.073	-0.103	-0.048	-0.109	-0.135	-0.079	0.110	-0.065	0.058	-0.022	0.026	-0.062	0.031
cat8									1.000	-0.091	-0.031	-0.026	-0.019	-0.016	-0.035	-0.031	-0.043	-0.020	-0.045	-0.056	-0.099	0.118	-0.036	-0.018	0.022	0.047	-0.059	-0.055
cat7								1.000	-0.037	-0.089	-0.031	-0.025	-0.018	-0.016	-0.034	-0.030	-0.042	-0.020	-0.045	-0.055	-0.025	0.040	-0.031	-0.056	-0.020	0.017	0.012	0.098
cat6							1.000	-0.042	-0.043	-0.102	-0.035	-0.029	-0.021	-0.018	-0.039	-0.034	-0.048	-0.023	-0.051	-0.063	0.137	-0.130	-0.027	0.063	-0.018	0.071	-0.108	-0.020
cat5						1.000	-0.030	-0.026	-0.027	-0.064	-0.022	-0.018	-0.013	-0.011	-0.025	-0.022	-0.030	-0.014	-0.032	-0.040	0.027	-0.033	0.013	0.054	-00.09	0.054	-0.078	-0.039
cat4					1.000	-0.025	-0.040	-0.035	-0.035	-0.085	-0.029	-0.024	-0.017	-0.015	-0.032	-0.029	-0.040	-0.019	-0.042	-0.053	-0.025	0.007	0.045	-0.029	0.009	0.031	-0.011	-0.050
cat3				1.000	-0.076	-0.057	-0.091	-0.080	-0.081	-0.195	-0.067	-0.055	-0.040	-0.034	-0.074	-0.065	-0.091	-0.043	-0.097	-0.120	0.059	-0.043	-0.042	-0.042	-0.020	-0.057	0.173	0.066
cat2			1.000	-0.175	-0.076	-0.058	-0.092	-0.080	-0.082	-0.196	-0.067	-0.055	-0.040	-0.034	-0.075	-0.066	-0.092	-0.043	-0.098	-0.121	0.022	-0.085	0.144	-0.038	0.005	-0.029	0.060	-0.058
cat1		1.000	-0.104	-0.103	-0.045	-0.034	-0.054	-0.047	-0.048	-0.116	-0.040	-0.033	-0.024	-0.020	-0.044	-0.039	-0.054	-0.026	-0.058	-0.071	-0.045	0.052	-0.014	0.007	0.108	0.052	-0.103	0.039
term	1.000	-0.012	-0.008	-0.172	0.060	0.037	0.108	0.037	0.049	0.111	0.056	0.101	0.040	-0.087	0.018	0.003	-0.078	-0.007	-0.162	0.004	0.170	-0.159	-0.038	0.072	0.095	0.661	-0.325	-0.019
	term	cat1	cat2	cat3	cat4	cat5	cat6	cat7	cat8	cat9	cat10	cat11	cat12	cat13	cat14	cat15	cat16	cat17	cat18	cat19	p_type	m_type	d_type	withdrawal	eplacement	umendment	nternational	legislative
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