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# Note

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This manuscript is much longer than the published chapter and has not yet been proofread by the editors, so it may contain typographical errors and omissions. The title of the chapter was also changed from "Trust and Values" in this draft to "People and Trust" in the published chapter.

Ryozo Yoshino

#### Trust and Values

For Mutual Understanding of Nations based on Longitudinal and Cross-National Surveys

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#### Abstract

This chapter introduces a study of peoples' sense of trust in a paradigm of longitudinal and cross-national comparative survey, called CULMAN (Cultural Manifold Analysis). Firstly, I explan a history of the survey paradigm developed in the Japanese National Character Survey (JNCS) and the related cross-national survey more than the past six decades. Secondly, I summarize fundamental social values of the Japanese and interpersonal trust as identified in the JNCS. Thirdly, a cross-national analysis of interpersonal trust and institutional trust is presented. Fourthly, I explore more universal values that may underlie people's sense of trust beyond differences between the East and the West. Finally, some comments for future research are presented. Key words: Cultural Manifold Analysis (CULMAN), Science of Data, Sense of Trust, Japanese National Character Survey, Asia-Pacific Values Survey

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This chapter is a version of Yoshino (2015a) adapted for this book, with some updated survey data. See Yoshino (2015a),

Yoshino, Shibai, Nikaido & Fujita (2015) and their references for detailed data and our research paradigm with the following

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websites. http://www.ism.ac.jp/ism\_info\_e/kokuminsei\_e.html (Surveys of the ISM)

http://www.ism.ac.jp/~yoshino/index\_e.html (Cross-national Surveys of the ISM)

http://www.ism.ac.jp/editsec/kenripo/contents\_e.html (The ISM Survey Research Report)

#### 1. Introduction: Longitudinal and Cross-National Surveys of National Character by ISM

This chapter introduces a study on longitudinal and cross-national comparative surveys by the Institute of Statistical Mathematics (ISM) over the past 65 years (see Table 1). The survey research covers many theoretical and methodological issues. Here I focus on people's trust systems to explore people's sense of trust. Eventually this leads us to more universal social values, such as the importance of family, beyond differences across countries and time. Furthermore, it touches fundamental differences on the attitudes towards nature or religion between the East and the West. The background and the significance of this study are as follows.

### \*\*\*\* Table 1 around here \*\*\*\*

The ISM has been conducting a longitudinal nationwide social survey called the Japanese National Character Survey (JNCS) every five years since 1953 (Mizuno et al., 1992), one year after when the post-war occupation by the US government was over. By the term "national character," we refer to characteristics reflected in people's response patterns in questionnaire surveys (cf. Inkeles, 1997). The survey is a type of general social survey, so the questionnaire covers various aspects of people's opinions about their culture, daily life, economy, education, family, gender, interpersonal relationships, nature, politics, religion, security, workplace, etc. This research was closely related to the establishment of a scientific system of public opinion polling based on statistical sampling theory for the development of post-World War II democracy in Japan, when Japan was expected to change from a military regime to a democratic country (Yoshino, 2015a, 2015b; Yoshino, Hayashi & Yamaoka, 2010). Stimulated by this survey, the now well-known surveys such as ALLBUS in Germany, CREDOC in

France, the European Values Survey and the Eurobarometer in the EU, and the General Social Survey (GSS) in the USA have been initiated.

Since 1971, the JNCS has been expanded to cross-national surveys for a more advanced understanding of the Japanese national character in the context of comparative study. Selecting items from nationwide surveys in several countries, we designed our questionnaires to compare peoples' social values, ways of thinking, feelings, etc. Our final goal is to develop a statistical study of civilizations through social survey data that will give us fundamental information for the peaceful development of the world, under the paradigm of "Science of Data" (Hayashi, 1976, 2001b). Here the Science of Data means a data-based exploratory and wholistic approach by which we overview a survey process starting from a survey design, preliminary survey, data collection based on statistical sampling survey, data analysis, to final report for policy-making. And, if necessary, we repeat the process and extend it to longitudinal survey or cross-national survey. Collecting data, we try to present multifaced survey data in order to facilitate the understanding of the reality. This is fairly different from hypothesis-testing approach to focus on a particular issue. And it is closely related Tukey (1977)'s "Exploratory Data Analysis" or Benzecri (1992)'s "Correspondence Data Analysis", although these three were independently developed.

Cross-national survey must overcome multi-faceted methodological problems involving, e.g., different languages, different statistical sampling methods, and different peoples' general response tendencies. There is no a priori knowledge regarding how these varying conditions influence peoples' responses even in cases where there is no substantive difference between the peoples. Thus, an important task for our study is to investigate those conditions

under which meaningful *cross-national comparability* of social survey data is guaranteed.

Many findings have been reported in our past publications (C. Hayashi, 1993, 2001; C. Hayashi, et al., 1998; C. Hayashi & Yoshino, 2002; F. Hayashi & Yamaoka, 2002; Kuroda, 2002; Yamaoka & Yoshino, 2015; Yoshino, 1994, 2000, 2001, 2005a, 2005b, 2008, 2009, 2012, 2013, 2014b, 2015a, 2015b; Yoshino, F. Hayashi & Yamaoka, 2010; Yoshino et al., 2015).

In our search for conditions that could assure meaningful cross-national comparability of social survey data, we decided at the onset that a comparison of two nations (or groups) with some similarities (e.g., the Japanese in Japan and Hawaii residents with Japanese ancestry) would be more meaningful than attempting to compare two totally different nations (or groups). Some nations (or groups) share certain common features such as race or language. Therefore, they provide meaningful links for comparison. Extending these links may eventually create a chain for global cross-national comparison. By developing the idea of spatial comparison in relation to temporal and thematic comparisons, we eventually have formulated our methodology called Cultural Link Analysis (CLA) which incorporates: 1) spatial linkages of cross-national comparison; 2) temporal linkages inherent in longitudinal analysis; and 3) item-structure linkages inherent in the commonalities and differences in item response patterns within and across different cultures (eg. on modernization, religious attitudes, work values, etc.) (See Figures 1(a)(b)(c)). With this linkage, we correspond a set of question items to a link (local link, a temporal link, or an item-structure link).

Furthermore, this has been developed as a paradigm of Cultural Manifold Analysis (CULMAN), which introduces hierarchical structures into the three types of linkages within the CLA framework (Yoshino et al., 2015). For cross-national comparison, a global map consisting of

a set of local charts (corresponding to links of CLA) may be constructed. Each local chart covers a particular area or region and some of these may partially overlap. The whole set of charts covers the globe. The set of charts may compose a sort of hierarchical structure, where each level of charts may correspond to a certain expanse of coverage (e.g., Japan, China, Asia, Eurasia, or the world), and the larger chart corresponds to the higher level. Furthermore, the larger chart may be associated with the less restricted cross-national scalability. In this approach, the concept of a spatial chart can be extended to both the temporal and item-structure links (See Figures 2(a)(b)(c)). [Footnote 1]

- \*\*\* Figures 1(a)(b)(c) CLA CULMAN \*\*\*
- \*\*\* Figures 2(a)(b)(c) CULMAN \*\*\*

As for the study of trust, although there are various definitions of "trust," they may be roughly classified as "trust in transactions" or "trust in normative philosophy" (Hosmer, 1995). These may be closely related to Uslaner's (2011) distinction between "strategic trust" and "moralistic trust." Zucker (1986) points out three methods for the production of trust: 1) process-based trust tied to past exchanges; 2) characteristic-based trust tied to personal characteristics, such as family background and ethnicity; and 3) institution-based trust tied to formal societal structures. Shapiro (1987) criticizes the third category because he believes that trust cannot be institutionalized. Further, Zucker (1986) claims that trust is not directly measurable.

Although the Zucker's three categories of trust are mutually interrelated, my focus in this study is mainly on the second, i.e., trust based on personal characteristics. Besides, I pay much attention to the ways people's trust appears in social survey data under the influences of culture and general social values as well as general response tendencies due to gender or ethnic

differences. (See Sec.2 of Yoshino [2015] for more explanation on background of our research).

The composition of the remainder of this chapter is as follows. Section 2 gives a summary on fundamental social values of the Japanese and their interpersonal trust as identified in the JNCS. Section 3 shows a cross-national analysis of interpersonal trust and institutional trust. In Sec.4, I show some data on social values, with the aim of exploring more universal values that may underlie people's sense of trust beyond the differences between the East and the West. Finally, in Section 5, I present some comments for future research.

## 2. Social Values and Interpersonal Trust

Some researchers say that "trust" is not directly measurable. Fukuyama (1995), for example, suggests to use a measure of distrust such as rates of divorce or murderer which are directly measurable. There may be no universal scale on sense of trust beyond differences in cultures and time. Or even if there is such a scale, it may not be linear with respect to various factors (e.g., the non-linear effect of income, social class or subjective health on sense of trust [Yoshino, 2002; Yoshino & Tsunoda, 2005]). I believe, however, that people's responses in questionnaire surveys can reveal certain aspects of their sense of trust, if we can adequately analyze the followings: 1) the time series patterns or cross-national patterns of responses, 2) possibility of non-linear correlations between "trust" and other social variables (e.g., class, education, income, subjective health, etc.), and 3) general response tendencies associated with genders, nations and personality types.

I explain certain fundamental dimensions of Japanese social values and some analyses of interpersonal trust among the Japanese as follows.

# 2.1 Fundamental Dimensions of Japanese Social Values

Hayashi (1993) and C. Hayashi & F. Hayashi (1995) write that three dimensions underlie the Japanese national character: 1) "Giri-Ninjyo" interpersonal relationship, 2) contrast between the modern versus tradition in their way of thinking, and 3) religious attitudes (or heart/mind). Here "Giri" represents the obligation to uphold social duties and "Ninjyo" represents the more visceral warm-heartedness. The Japanese shows a particular attitude distressed in balancing "Giri" and "Ninjyo" on the Gri-Ninjyo continuum in their interpersonal relationships.

Overall, basic Japanese interpersonal attitudes have been stable, at least over the last six decades, and probably much longer. Most likely, the basic interpersonal attitudes concerning human bonds, sense of happiness, life satisfaction, optimism, etc., tend to be stable in any country over time (Yoshino & Osaki, 2013). On the other hand, certain aspects are sensitive to changes in economic or political conditions and more or less vary in the short term in most countries. In the study of JNCS data of 1953-2008, Sakamoto (2010) points out remarkable changes of the response patterns in the periods of 1973-78, 1988-93, and 1998-2003. In all those periods, we have seen sudden changes of economic conditions due to, respectively, the oil shock, the collapse of bubbling economy, and the Asia Financial Crisis.

As for the second dimension, the Japanese had long been facing a sort of emotional and institutional conflicts between the modernization (effectively Westernization or Americanization) and the maintenance of Japanese tradition since the Meiji Restoration of 1868. In those days, the Japanese faced a situation necessarily to master Western science and technology and to adapt it into a Japanese style for national survival (security and prosperity). This situation was called as "Wakon-Yousai" (i.e., Use Western technology with Japanese sprit). This enduring

effort had underlined the dimension of the traditional versus modern orientation in the Japanese way of thinking, at least, until the early 1970s or so. The then younger generation born more than 10 years after the end of World War II started to show some significant change on the dimension of modern vs tradition. Their response patterns looked conservative on nature, science and technology, so some people called it "the return to tradition." The conservative attitudes looked a reaction to rapid industrial development and environmental changes in the 1970s or so.

Since signs of generational changes appeared around 1978, the Japanese ways of thinking became more complicated than ever. Since the early 1990s, Japan has been in a period of transition from the established social system to a system of a highly advanced information age. Parallel to the world order change after the end of cold war, this situation brought disruption not only to the fields of science and technology but also to the fields of economics and politics under the name of "globalization." In this period of confusion, the majority of Japanese people came to distrust traditional systems such as banking and bureaucracy as well as the legislature, police, etc. (Yoshino, 2002).

We saw a confusion also in the changes of governing parties since the 1990s. The Liberal Democratic Party (LDP) governed Japan for some four decades (1955–1993) by itself, which might symbolize the Japanese political attitude that dislikes rapid changes. However, the LDP had to rule in a coalition with other parties from 1993 until 2009. More broadly, under globalization Japan came under pressure to restructure its social systems, including business, education, and law in the last two decades or so. This necessitated change in even fundamental human relationships, not only in business but also in daily life, eventually sapping the source of

national strength. Confusion appeared with the switching of the governing party from the LDP to the Democratic Party in 2009, and then back to the LDP in 2012. The current Prime Minister, Shinzo Abe, forced to resign in 2007 but revived politically in December 2012, has been struggling to revive Japanese national strength. But many people consider the past three decades "lost three decades" as failures of economic and political reformations. Certainly, we need to change some economic and political institutions in this rapidly changing world. But the fundamental interpersonal relationships must be stable to maintain the social order.

As for religion, about one third of the Japanese have religious faith but most of the Japanese think that religious heart/mind is important (C. Hayashi & F. Hayashi,1995; Yoshino [in Mizuno, et al., 1992, Sect.8]). In the world-wise secularization after the WWII up to the end of cold war, the Japanese is not an exception on this trend, but their religious heart/mind seems not much changed. For more advanced arguments, we may need to face some significant differences of religion between the East and the West (See Hayashi & Hayashi, 1995).

## 2. 2 Interpersonal Trust of the Japanese

The past decades have developed psychological studies of measures of interpersonal trust. Among others, a set of three items from the GSS has been used to measure people's sense of trust (see Uslaner, 2011, 2018; Yoshino & Osaki, 2013, for a history). Although the GSS started as a sort of American version of the JNCS, we have adopted the three items from the GSS for our survey since 1978. They are stated as follows (for the Japanese questionnaire, see http://www.ism.ac.jp/kokuminsei/index.html. See also Footnote 2.)

Q36. Would you say that, most of the time, people try to be helpful, or that they are mostly just looking out for

themselves? 1. Try to be helpful, 2. Look out for themselves

Q37. Do you think that most people would try to take advantage of you if they got the chance, or would they try

to be fair?

1. Take advantage, 2. Try to be fair,

Q38. Generally speaking, would you say that most people can be trusted or that you can't be too careful in dealing with people?

1. Can be trusted, 2. Can't be too careful

The source of these items was obtained by Rosenberg (1956) selecting five items among hundreds of items when he constructed a Guttmann scale called "Faith-in-People Scale" with a regeneration rate of 92% in a student survey. The items were on trustworthiness, honesty, goodness, genericity, and brotherliness. These items were used for research by Almond & Verba (1963) and others, and then the ISR survey (the Survey Research Center, the University of Michigan) and the GSS (NORC, the University of Chicago). In the process, those items have been gradually modified and the above-mentioned three items with binary response scales are survived (Robinson, Shaver & Wrightsman, 1991; Uslaner, 2018).

Each of the three items is supposed to capture somewhat different aspects of trust. That is, Q36 is related to trust in neighbors (or the norm of reciprocity), Q38 is related to general interpersonal trust, and Q37 is concerned with something in between the other two items. Our data repeatedly demonstrates that Q37 and Q38 are more correlated for the Japanese, whereas Q36 and Q37 are more correlated for Americans. Some countries such as India may consistently show unique patterns of correlations, whereas other countries such as South Korea may show less-stable patterns over years. Yoshino (2015a, Tables 1a, 1b, 1c & 1d) gives more details of cross-national differences on the three pairs of correlations between the three items.

Concerning Q38, some people may suspect that the second response option, "can't be too careful," is not likely to mean distrust but to refer to another positive social value related to self-discipline. This may explain the higher rates of selection for this answer than the first option "can be trusted" in many countries (Yoshino, 2002, Table 2; Yoshino, Shibai, & Nikaido, 2015, pp.134-135). NORC-ROPER (1986) has reported comparative survey data with respect to the effect of the second option. The survey compared two cases: in Case 1, the same wording as Q38 was used, and in Case 2, the phrase "can't be trusted" was used. The second option was less frequently chosen in Case 2 than in Case 1 (i.e., more people answered "can be trusted"). The same pattern of response difference has been found in Japanese surveys (Nakamura et al. [2017] with Osaka Shogyo University & Tokyo University [1999]). Thus, the wording of Q38 may be considered a sort of advanced technique to elicit people's true opinion ("honne" in Japanese), reducing the degree of social desirability in responses ("tatemae" in Japanese). (cf. Uslaner [2011] argues to justify the single item Q.38 as a standard scale of trust.)

\*\*\* Fig 3a Fig 3b Time series of GSS 3 items on trust in Japan & USA \*\*\*

The response distribution for the Japanese over the past decades (1978-2013) is shown in Fig.1a. As a measure on a sort of "total interpersonal trust," I often use the percentage of those who choose positive categories to all of Q36, Q37 and Q38. (Because Q36 was missing in some of our past surveys, I sometimes use also the percentage of those who gave positive answers to both Q36 and Q38. The rankings on the two items and on the three items are mostly consistent over the countries/areas where the three items were used. See Fig.2.)

\*\*\*\* Fig. 4 Cross-national Trust \*\*\*\*\*\*\*\*

On the measure of "total interpersonal trust," both the Japanese and Americans have been

fairly stable but the Japanese may be more stable than Americans, at least during 1983–2008. We need to pay attention to the changes in 1978 and in 2013. The Japanese experienced a nationwide panic trying to hoard necessities for their daily lives after the oil crisis and the Nixon shock (i.e., the unilateral cancellation of the direct international convertibility of the US dollar to gold) around 1973. Necessarily, this would have downgraded mutual trust. On the other hand, in the disaster of the Great East Japan Earthquake in 2011, people run to the devastated area from all over Japan to help the suffered people. Still under the lasting economic depression, many people considered how they could contribute to recovery of the area. Comparing to those suffered in the great disaster of earthquake and the succeeding nuclear plant accidents, all the Japanese must have felt that they must be satisfied with their lives and have to appreciate mutual assistances. Naturally, this would have raised mutual trust. (Footnote 3).

If Q36, Q37 and Q38 are *separately* studied, the Japanese data also show more changes over the years. The changes may confirm that the economic and political structural reformation damaged the Japanese sense of trust, roughly, during 1993–2008.

Yoshino (2009) noted the remarkably low degree of trust among those aged 60–64 years old in the 1998 survey. This generation forms a particular cohort whose opinions and values are fairly different from those of the other generations in many aspects, because they were children during WWII and experienced a drastic social change from a military regime to a postwar democracy (Mizuno et al., 1992). Surviving the hard time of famine during and immediately after the war, they reconstructed the ruins of Japan to build a highly advanced industrial country. Under the economic depression of the 1990s, many people of this generation were

forced to take an early retirement as companies lost strength to support the lifelong employment system. They did not receive as much pension money as they had expected, and many had a hard time finding new jobs. The aforementioned data may reflect their distrust toward the social systems that did not compensate them sufficiently for their lifelong hard work.

Since the postwar time of WWII, the life-long employment system of Japan provided for better job security — workers' salaries may become lower, but they can't be so easily fired. This may explain the higher levels of trust (i.e., the relative stability of response patterns on Q36, 37 & 38) found in the Japanese samples than among the American ones, at least during 1983-2008. But, in the early 1990s, the reformation under "globalization" started to force the Japanese to change economic, political and social systems, looking for efficiency or internationalization disregarding of the Japanese structures rooted in historical background or culture. The change of the social systems attacked even interpersonal systems of family, school and work place, disturbing people's heart and mind. The "lost two decades" since the collapse of bubbling economy around 1991, after all, resulted in confusions and failures not only in the Japanese systems but also in foreign banks and commercial companies which attempted to take advantage of the opportunities in Japan.

Meanwhile, the government has lost people's trust in the national pension system. Senior people rely on younger people for future financial support, but the population of younger generations has been decreasing, and the younger are less motivated to pay pension costs, in consideration of the balance. These situations, originally due to distrust on governmental institution, have necessarily led to a gap of consciousness on social institutions between the young and the senior people.

Incidentally, the new graduates during, roughly, 1993-2004 are called "Syusyoku Hyoga-ki Sedai" (Ice Age Generation of Job Market) or "lost generation" because they faced remarkable difficulties to get regular job positions under the rapid recession. They are now in their 30s or 40s, but still face difficulties of getting positions of regular employees, in spite of recent economic recovery. Because Japanese job market is mainly for new graduates, those of Ice Age Generation meet much more disadvantages than younger graduates. At last the government started amending the situation, demanding the Japanese business world to employ them as regular employees.

Looking back over the last 30 years, during the prosperity of the 1980s, there was a shift of young men's social values towards individualism and then personal preference (give priority on personal matters). But the structural reforms of the 1990s led to the economic recession and the departure from lifetime employment. As a reaction, human relationships in the work place seem reconsidered (regression to tradition), among others, in young people.

Yoshino (2002) discussed several aspects of trust, such as trust in politics, science, and technology, as well as the work ethic of the Japanese. He concluded that some aspects of trust may be variable according to economic and political conditions, whereas some other may be more stable. Although the world used to have a stereotype of the Japanese workers called the "economic animal" in the 1980s, their attitudes and ethic toward work seem to be influenced by economic and political conditions. (See Inagaki & Maeda [2015] for the study of trust using latent structure modelling on the JNCS.)

Lastly, I note on the general response tendencies (Yoshino, Hayashi & Yamaoka, 2010).

Yoshino and Osaki (2013) and Yoshino (2014a) reviewed our past surveys on trust and subjective

well-beingness, and concluded that the long-term tendency is relatively stable over time regardless of objective economic or political conditions (cf. Hofstead, Hofstead & Minkov, 2010) although a serious incident or disaster perturbs the stability. In contrast, it significantly changes in the short term, such as in a day (Kahneman & Krueger, 2006). Thus, we need to be careful regarding the distinction between the long-term tendency and the short-term tendency of people's sense of trust in cross-national comparison.

As for the general response tendency of each nation, for example, the Japanese tend to avoid polar answers and prefer intermediate response categories (or "Don't Know"), the French tend to choose critical categories, and the Indians tend to choose optimistic categories. Furthermore, as to gender differences, women show stronger self-disclosure than men (Yoshino, 2009, Sec.2; Yoshino, Hayashi, & Yamaoka, 2010, pp.109-111). This may lead a superficial contradiction, e.g., the women show higher sense of satisfaction when asked about their satisfaction whereas they show higher sense of dissatisfaction when asked about their dissatisfaction.

## 3. Cross-national Surveys on Trust

# 3.1 Sense of Interpersonal Trust

Our cross-national surveys also included the three items on interpersonal trust from the GSS. Table 2 is the data from the Asia-Pacific Values Survey (APVS) (2010–2014). (Yoshino [2019, Tables 2a, 2b, 2c & 2d] show the response distributions for most of the countries/areas that we have surveyed over the past four decades.) See Fig. 3a & 3b also.

## \*\*\* Table 2 (GSS 3 Simple Tabulation APVS) \*\*\*

Miyake (Hayashi et al., 1998, Ch. 7) presented an analysis on our Seven Country Survey:

Japan, the USA, the UK, West Germany, and France in 1987-1988 and Italy and the Netherlands in 1992–1993. He concluded that the trust scale had correlations with gender and religion but stronger correlations with family income, educational level, and social class. But these correlations were not so strong. On this scale, West Germany, the UK, and the USA scored higher than Japan and the Netherlands, but the difference was small. The French and Italians clearly scored lower than in other nations. In addition, those who had religious faith gave more positive responses to item Q36, irrespective of their religious affiliation. For Q37, women gave more optimistic answers ("they would try to be fair") than men. As for item Q38, there was a clear difference between social classes in all seven countries. That is, the higher the social class, the more trustful the respondents were. The difference between classes was remarkably large in France and the USA. Observing that the higher level of education was associated with the greater trust, Miyake suspected that the association was caused by the correlation between education and social class. (Although there was a relatively strong correlation between education and social class, and between education and income in the USA, this was not necessarily the case for other countries.) Using the same data, Yoshino (2002) showed correlations between trust and social class or income in the USA and the UK but nonlinear correlations in the other five countries, including Japan and West Germany. Incidentally Yoshino & Tsunoda [2005] suggested non-linear relationship between subjective health and sense of trust.

Fig. 4 shows the ranking of the percentages in each country of those who gave positive answers to both Q36 and Q38. The measure seems fairly stable within the countries/ areas when

repeatedly surveyed over years. Interestingly, the Japanese immigrants in the USA and Brazil are ranked, respectively, as the highest and the lowest. That is, JAWCS (Japanese Americans on the West Coast) is higher than the general Americans whereas JB (Japanese Brazilian) is lower than the Latin countries (France and Italy). The percentages of positive response in the USA and the UK were high, whereas those in Italy and France were low. This may be consistent with Fukuyama's (1995) theory contrasting Japan, the USA, and Germany as highly trustful countries with China and Italy as less trustful countries. His arguments are based on the assumption that the former countries have well-developed intermediate civic organizations between the government and families whereas the latter have established atmosphere of strict political centralization in the past long histories.

A close look at this figure, however, shows a more complicated reality because the percentages of positive responses of Mainland China (Beijing and Shanghai) were higher than might have been expected by the Fukuyama's argument. There may be several possible explanations for this. First, the data really do indicate that the Chinese have a higher sense of interpersonal trust. (Probably they may be focusing on in-group relationships when responding to those items). Second, the Chinese respondents might have tried to show a higher sense of interpersonal trust because they were sensitive to their international reputation, such as that insisted by Fukuyama. Third, the questionnaire items were constructed as a trust scale for Americans, so they may not be suitable for the measurement of trust in other nations. Fourth, we need to be careful about the political and sociological implications of the trust scale. For example, Dogan (2000, p.258) states, "Erosion of confidence is first of all a sign of political maturity. It is not so much that democracy has deteriorated, but rather the critical spirit of

most citizens has improved." This suggests that we need to distinguish between the face value of a scale and its implications. In this context, trust and distrust may not be opposites on a uni-dimensional scale but instead may be closely related in a sort of multidimensional mind structure. Furthermore, people may give the same response for different reasons or different responses for the same reason. Therefore, for a more meaningful comparison of countries, it is necessary to consider peoples' responses with objective measures on, e. g., economics and politics, as well as general response tendencies of those peoples. As such, I may in this study give some interpretations of response patterns on certain items, but they should necessarily be considered tentative.

# 3. 2. Trust of Social Institutions and Systems

The questionnaires of the APVS included the same items on institutional trust used in the World Values Survey, with an additional item on trust in science and technology. The items are stated as follows.

Q.52. How much confidence do you have in the following? Are you very confident, somewhat confident, not confident, or not confident at all?

	Very Confident	Somewhat Confident	Not Confident	Not Confident at All
a. Religious organizations	1	2	3	4
b. The law and the legal system	1	2	3	4
c. The press and television	1	2	3	4
d. The police	1	2	3	4

e. National federal bureaucracy	1	2	3	4
f. National Assembly (Federal Parliament)	1	2	3	4
g. NPO/NGO (non-profit and non- governmental organization)	1	2	3	4
h. Social welfare facilities	1	2	3	4
i. The United Nations	1	2	3	4
j. Science and technology	1	2	3	4

\*\*\* Table 3 (WVS TRUST of organizations) \*\*\*

Table 3 shows the response distribution of the APVS. (Yoshino [2015a, Table 3a, 3b & 3c] show all data from most of countries that we surveyed, which would be helpful to read the following explanation with them.)

To reduce the effects of general response tendencies particular to individuals or countries, Yoshino (2005b) transformed the response data from the East Asia Values Survey (EAVS)(2002-2005) into standardized scores country by country. Here "general response tendencies" mean, e.g., the Japanese tend to avoid polar responses than the Americans (a sort of variances of the range of responses). But let us use an easier way that Yoshino (2009) used for the Pacific-Rim Values Survey (PRVS)(2004-2009). First, the original response categories are re-categorized to sum up the percentage of responses to positive categories ("1" and "2"). Second, the percentages of positive responses are compared item by item within each country. This yields a rank order of items in each country. Third, the rank orders of all countries involved are compared. This procedure results in the loss of some information from the original data, but it may provide more stable cross-national comparability (unless the rank orders are unstable).

Yoshino (2015a, Table 3a, b, & c) confirms the generally consistent patterns in the countries

or areas participating in all three surveys of APVS, PRVS and EAVS, For example, the item-byitem differences of percentages between the Japan surveys in 2002 (EAVS), 2004 (PRVS), and
2010 (APVS) were almost within the margin of the sampling error. The maximum difference
was about 10%, for example, on NPO/NGO (Nonprofit Organization/Nongovernmental
Organization). (The percentage on NPO/NGO changed from 55% in 2002 to 45% in 2004 and
then up to 49% in 2010. NPO/NGO activities had been increasing and some disguised
NPO/NGOs had managed illegal businesses in the early 2000s. This was one of the reasons that
the Japanese laws on registered organizations were substantially revised in 2008.)

In Table 3, except for India, Singapore, Vietnam, the USA and Hong Kong, in all the studied countries or areas, there was a low degree of confidence in religious organizations. Even in these five countries or area, the relative degrees of confidence were not very high compared with all the other items for each country, except for India. Japan and Mainland China indicated remarkably negative attitudes toward religious organizations. The percentage of positive responses among the Japanese was lower than among the Chinese. However, of the 10 items on Q50, the percentage of positive responses was the lowest for religious organization among Chinese. As already mentioned, most of the Japanese respect religions or the "religious heart/mind" even when they do not have religious faith (Hayashi & Nikaido, 2009). However, they may keep cautious about "religious organizations" because some religious groups, such as the "Aum Shinrikyo" (a religious cult) caused disasters in the 1990s. In China, the government is very sensitive toward religious groups because, in the long history of China, religious groups frequently overthrew governments. In some countries, some religious groups are closely linked to terrorism.

The percentages of responses that show confidence in authority such as the "police," "government," and "Congress" may represent various patterns of attitudes; these are likely concerned with democracy. Because free criticism is allowed in democracy, a negative attitude does not necessarily mean the negation of such authority, and it may reflect a mature democracy in some countries (Dogan, 2000, p.258). Thus, the percentage of positive (or negative) responses may not be linearly proportional to the degree of political maturity. Table 3 shows for example, the USA's lower degrees of confidence in the press and TV and in Congress. This may be a critical attitude of matured democracy, or it may be a reflection of current confusions of democracy, or both.

As for science and technology, all the countries or areas showed a high degree of confidence. Hayashi (1993) and Zheng and Yoshino (2003) presented cross-national analyses of data on science and technology from our seven-country survey. Hayashi (1993) concluded that the Japanese generally have positive attitudes toward science. They were, however, negative regarding scientific approaches toward the understanding of the human heart and mind ("kokoro" in Japanese), solving social and economic problems, and the possibility of living in space stations in the near future (at the time of the survey in 1988). The response pattern of West Germans in 1987 was similar to that of Japanese in the sense that they were also more negative about science and technology than those in other Western countries. However, they were not so negative toward the applications of science and technology to social problems as well as psychological problems of individuals as the Japanese were. This might be related to that the theories of Hegel and Marx and the psychological theories of Freud originated in the German culture area.

As for data from the APVS, all of the countries or areas were highly positive toward science and technology, with rates of positivity for that item being the highest among all items. In particular, the rates for Mainland China were remarkably close to 100% in both the PRVS and the EAVS, although the rates were slightly down in the APVS. There may be several possible explanations for this. On the one hand, the high rates may represent the fact that, since the late 1970s. China has been emphasizing the scientific reformation of government agencies, military systems, and social systems as a priority in their social planning. On the other hand, until recently, they had placed priority on economic development and they had not paid much attention to the negative impact of science and technology that advanced industrial countries have experienced in the past. After the Beijing Olympics in 2008 or even slightly earlier, the Chinese government started paying attention to the negative side of rapid economic and industrial development and began planning to improve environmental conditions, including serious air, soil and water pollution. Incidentally, they started also paying attention to political issues, such as the social inequality between urban and rural areas. They are struggling to deal with these domestic problems, but complete solutions seem still far away to many observers' eyes (Reuters, 2013, 2015), despite their rising power in international politics. Furthermore, under the recent slowdown of economic development, environmental improvement may not be on the government top priority. And serious pollutions in the urban areas sometimes go over to the neighboring areas and countries.

As a final comment in this section, it should be noted that Sasaki and Suzuki (2000, Ch.11) concluded that "a single scale is not adequate to measure people's sense of trust in science and technology because people's attitudes differ from one issue to another within the fields of science

and technology." This is also the case with our study on people's sense of trust. Note that we have Japanese Nobel Prize Laureates in the 1990s-2010s more than the past. The JNCS (Nakamura, et. al, 2017, pp.15), however, shows a clear decrease of self-confidence in science and technology during "the lost decade (1993-2003 or so)." Thus some aspects of confidence are more variable due to economic or political conditions whereas generalized interpersonal trust is more stable.

Incidentally, Yoshino (2015a, Sec. 4.3) gives a summary on regional and generational differences among Japanese immigrants in Hawaii (Yoshino, 2001b), Brazil (Yamamoto et al., 1993) and the U.S. West Coast (Yoshino, 2000, 2001). It touches also ethnic differences (Chinese, Malays, and Indians) in Singapore, and between indigenous Taiwanese and Chinese mainlanders in Taiwan. Domestic ethnic differences on trust are often linked with domestic and international political issues. Mutual trust is a key for peace.

### 4. Basic Social Values on Human Bonds

People's sense of trust does not come in a vacuum. To overcome the limitations of studies mostly based on response distributions of the items of the GSS or WVS, it may be important to explore more basic social values that may underlie people's sense of trust. Although it is not easy to identify basic social values in various countries, here I tentatively show some data from the APVS on Confucian teachings, various important areas of daily life, and choices of Asian versus Western values as follows.

Very strictly, one need to distinguish between Confucian teachings and Confucianism. The former was preached by Confucius around the sixth Century B.C. for people's daily life, whereas

the latter has been organized by scholars much later after his death for maintenance of order of centralization of governmental politics (Seki, 2019). Although Confucius teachings or Confucianism is fairly different from Christianism or Islam, it effectively worked as a sort of religion to maintain people's daily lives and social order, at least for some places and some time. Therefore, it would be worthwhile to investigate it for our study of trust. Here, not necessarily sticking to the above-mentioned historical distinction, I deal with some items for people's daily life regarded as basic Confucius teachings. The items are originally from a comparative survey of Tokyo, Seoul and Beijing as an international collaboration of Mainichi Newspaper July 1997.

### \*\*\* Table 4 Confucianism \*\*\*

First, Tables 4 shows the response distributions with regard to the following Q9 of the APVS (Yoshino [2015 a, Table 4 a, b &c] shows all data from the EAVS, the PRVS & the APVS).

- Q9. How do you feel about each of the following traditional values? The response categories are "strongly agree," "agree to some extent," "disagree to some extent," and "disagree strongly."
- a. We should respect our ancestors.
- b. The eldest son should look after his aging parents.
- c. A wife should obey (follow) her husband.
- d. One should not marry someone his/her parents object to.
- e. We should obey (follow) older people.
- f. It is important to have a son to keep the family line going.
- g. Men should work outside the home and women should tend to housekeeping.

The overall patterns of response distributions have been consistent for the countries or areas repeatedly surveyed in the series of surveys: EAVS (Yoshino, 2005b), the PRVS (Yoshino, 2009), and the APVS (Yoshino, Shibai & Nikaido, 2015). For some items, the percentages of

positive choices of the USA are larger than those of the Asian countries. Of course, it couldn't be the case that Americans are more influenced by Confucianism than Asians. Thus, the kinds of ideas espoused by Confucius teachings are not necessarily particular to Asian people. On the other hand, the Asian countries seem to have already departed more or less from the literal Confucius teachings.

More detailed analyses, however, show some differences between China, Korea, and Japan, as well as gender and age differences (cf. Zheng, 2005). Historically, Confucius teachings originated around the sixth century B.C., whereas Confucianism was organized around the second century B.C., and it was revised as "Zhu Zixue" (Lion Science) in China around the latter of the 14th century. Interestingly, it has had a greater influence in Korea than in China since the end of 14th century A.D. Nowadays a majority of the South Korean are Christians, but they still behave according to Confucian teachings in their daily lives, for example, on ancestral worship, and strict ordering on class, gender and seniority.

Confucianism had certain influence on Japan also, however, it was limited influence. The Japanese governmental and civic scholars critically studied it and eventually adapted it into a Japanese style in the Edo era ("samurai era" of the 17th to the 19th centuries). After all, the Japanese accepted the Confucius teachings such as diligence, kindness, and promise in both dominance class and ordinary people because these were consistent with traditional Japanese principles. The Japanese also respect ancestral worship and the order on seniority. But they are never so severe as the Koreans are, among others, on discriminations on class, gender or seniority. These historical differences lead to national differences in the response distributions for those question items.

Under Confucius teachings, the Chinese maintain family bond, and develop social bonds based on "Zōngzú" (clan) and "Bāng" (solidly bonding group). This is closely related to some issues on ingroup trust and out group trust. Excessive emphasis of ingroup bonding frequently lead to unjust exclusion of outgroups. It may link to some troublesome not only in a business with other countries but also international politics. In this time of globalization, the Chinese government and companies are struggling to get along with global rules in business and politics.

Additionally, the style of adoption of children is different among Japan, China, and Korea. The Japanese adopts a child even if there is no blood relationship between the child and the adopting parents, but the Chinese or Koreans adopts a child from among their relatives (clan). This difference is due to their differences on degrees of sticking to real blood relationship, and it would be closely linked to differences of ways to develop social trust as a sort of extension of family bond.

It is important to note that, under the present conditions, people cannot necessarily follow all Confucian teachings literally. For example, the decreasing children in almost all countries in East Asia is a serious problem for the maintenance of national productivity and social systems concerning health care and financial support for older people. Thus, it is becoming difficult for elderly parents to be completely taken care of by their children, not to mention by "the eldest son" alone (Q9c). This means that the Confucius teaching used to work for a social system on social security and health care in a family, but it is no longer valid and it is urgent to develop a public system to complement it in China. Although Japan has already established such a public system many decades before, the related serious financial issues are inevitable. These situations could influence on people's trust between family members and towards government.

Next, the Seven-Country Survey, the EAVS, the PRVS, and the APVS included the following item, which asks respondents to choose two response categories from the four presented.

Two categories are usually considered Asian principles (originally from Confucius teachings) and the other two are considered Western principles (closely related to "United States Declaration of Independence", or "Déclaration des droits de l'homme et du citoyen").

Q34 [SHOW CARD] If you were asked to choose the two most important items listed on the card, which two would you choose? (Select two.)

- a. Filial piety/love and respect for parents
- b. Repaying people who have helped you in the past
- c. Respect for the rights of the individual
- d. Respect for the freedom of the individual

Six possible pairs can be selected from the four items. Table 5 shows the percentages of the selection of each possible pair in the surveys from the APVS and the Seven country survey (Yoshino [2015a, Table 5a, 5b, 5c & 5d] for more data. And see Footnote 4 also). Some countries, such as Japan and the USA, were studied in all three surveys. The response patterns of Japan are fairly consistent, whereas those of the USA differ slightly. The 1988 Japan survey and the 2004 Japan survey used the same sampling methods and fieldwork contractor. The fieldwork company of the 1988 USA survey was Gallup and that of the 2006 USA survey and the 2010 USA survey was Kane, Parsons & Associates. Gallup used random-walk sampling, and Kane, Parsons & Associates used quota sampling with respect to age, gender, and race in 2006 and random route sampling with a quota table of age, gender, and ethnicity in 2010. This difference might have yielded some differences of response data, among others, because quota sampling may be relatively less reliable (statistically unstable).

# \*\*\* Table 5 Two important Principles \*\*\*

For the purpose of extending cross-national comparability, tentatively, let us assume that the response patterns are relatively stable over years. This is an idea of CULMAN to connect "local charts" [sets of countries] to make a larger chart by regarding a certain country as the "connector" (in this case, Japan1988 & 2004). One could find examples to extend cross-national comparability on general response tendency, religion, or international relationships in Yoshino (2015b) or Yoshino, et al. (2015, Sec.3).

In all countries or areas in Asia, the first pair choice was "a. Filial piety/love and respect for parents" and "b. Repaying people who have helped you in the past." Interestingly, even in Western countries, the pair "c. the rights of individuals" and "d. the right of freedom" was not a majority choice. Only in France and West Germany (in 1987 before the reunification), the rate of choice of that pair was higher than in the other countries, but at most, it was 30% or so.

For almost all countries, "a. Filial piety/love and respect for parents" was the single first choice, if the rate of the selection for each of the possible four choices was tallied individually (Footnote 5). This is consistent with Yoshino (2015a, Table 5a-d) on the importance of family. That is, the modal degrees of importance of immediate family, and of relatives, were respectively the highest and the second highest on the seven-point scale in all countries or areas. Although the style of family may be various depending on places or times, the importance of family seems universal. (It may not be a surprise that both Confucius teachings and the Ten Commandments of Moses include "respect for parents.") The Japanese generally tend to show a preference for middle answer categories, but they show the highest degree as to importance of family. A family is a basis of extending interpersonal trust. Each country/area at each time, however, may form a

particular style of family. As previously mentioned, this also would be closely related to differences in extending trust towards others beyond one's family. Incidentally, Todd (1983) claims that the political regime is a reflection of family structure in each country.

No one would deny the importance of human rights in modern societies, but human rights, such as the rights of individuals or the freedom of the individuals, appeared only recently. Throughout human history, however, family, relatives and friends have formed the basis for survival. Therefore, these are universally valued in both the East and the West. The rights of individuals and the freedom of the individuals originated in the modern West, so they may be viewed differently within the current political system of each country. Thus, each country has its own way of developing democracy based on trust of each other members as well as economic prosperity. No country should impose its particular version on other countries but respect the others' styles or ways, if one would like to develop a steady international trust.

### 4. For Future Research

This chapter has shown a longitudinal and cross-national study of peoples' sense of trust. It also touched some universal social values such as the importance of family. As I repeatedly emphasized, however, we need to be cautious in interpreting the results because survey data on trust are often a compound of many variables, including general response tendencies and respondent biases on participation of survey (Footnote 3). Issues on cross-national comparability might never be completely solved because of significant differences of infrastructures on survey conditions unique to each country. But I believe that elucidations of those differences themselves reveal each country's situation on economy, politics, and social

conditions, beyond superficial comparison of survey data. I will provide several comments for our future research as follows.

First, for mutual understanding between East and West, we need to pay much attention to methodological issues in measuring social values (Yoshino & Osaki, 2013). Scaling of trust may caution us on the applicability of a certain "single" scale invented in Western cultures for Eastern cultures, or vice versa (Yoshino, 2005b, 2006). Gallup (1977, p. 461) reported that, in their global survey, they could not find a very poor but still happy people. Later studies, however, have found examples not consistent with the pattern of Gallup report. For example, Brazilians were very optimistic even when Brazil was the worst debtor nation in the 1980s (Inkeles, 1997). Inglehart reported a correlation of 0. 57 between economic development and life satisfaction for some 20 countries in the 1980s (Inkeles, 1997, pp.366–371). However, life satisfaction of Japan in the 1980s was lower than it was in 2003 or in 2018, although Japan was prosperous in the 1980s but struggled with a recession in the 2000s-2010s. Thus, we need to be careful regarding peoples' general response tendencies in the measurement of social values (Yoshino, 2014a).

Second, people's negative responses may not necessarily mean a lack of a sense of trust. As Dogan (2000, p.258) suggested, some people express distrust or complaint toward the government or political leaders, not because they lack trust, but because they know that it is a way to improve their own country and eventually our world in a democratic way.

Third, a comment is needed regarding the development of the CULMAN framework. The last century was the time of the expansion of Western civilization, and this century is said to be the time of Asian revival. Differences between cultures or civilizations occasionally prevent us

from deeply understanding each other. In this time of globalization, world leaders should be knowledgeable about world geography and history, and sensitive to peoples' social values if they wish to take seriously their responsibility to develop and maintain world peace. In studying world history, we should remember that there are various ways of successful social development.

Some institutional systems or customs are changing, converging toward more universal ones under the influence of transnational exchange or trade. Other systems are, however, becoming more sensitive to cultural differences as a reaction to globalization. The last three decades has shown that, at least for the foreseeable future, globalization will not lead us to a single unified global culture or a "superculture" on the earth (cf. Yoshino, 1992). This is consistent with a theory of Cultural Evolution that more variations enhance chance of survival. (cf. Inglehart [2018, p.42] presents a theory of cultural evolution that the value systems of different cultures may not be converging but changing in the same direction on "self-expressive values.") I think CULMAN can be utilized to develop a framework of policymaking for the gradual development of, so to speak, a global cultural manifold (GCM) (Fujita, 2016; Fujita & Yoshino, 2009; Yoshino, 2008, 2015a, 2015b; Yoshino et al, 2015, Sec.3) (See Fig. 3).

# \*\*\* Fig. 5. Manifold of Communities \*\*\*

The GCM is a set of hierarchical overlapping local charts, and each chart covers a certain area (region, country, national groups, civilization, etc.). In each chart, we may assume that people share a certain culture or social values; the larger chart corresponds to the less restrictive but more universal culture or social values. Together, the charts may comprise a sort of hierarchy. According to the size of the chart (area, region, or social group), people may be able to assess the degree to which decision-making or the extent of regulations concerning various

types of exchanges (e.g., international trade within the members of the region) ought to be rigidly enforced. GCM charts are dynamic, so each chart may be enlarged, be shrunk, be split into two, or disappear over time. Some overlapping charts may be assimilated to make a larger chart. And a new chart may appear. For peaceful and steady integration and expansion of charts, a set of soft local rules to connect neighboring charts successively would be more effective, rather than a single strict global regulation. The set of local rules may make a hierarchical structure with respect to its coverage and strictness.

The history of the EU may exemplify the concept of GCM. Currently, the East Asia and the Asia-Pacific area are presenting other examples. More than two decades ago, many people doubted such a unification in the East Asia as in the EU because the East Asia is too complicated on races, languages, religions, and political systems even in a country. Now, one could see a slow but a steady unification such as ASEAN, contrasted with the current confusion in the EU. There must be various ways to achieve successful developments.

On March 11, 2011, the Great East Japan earthquake caused a huge tsunami and resulted in the Fukushima nuclear power plant disaster. The world media, however, reported the calm attitudes of the Japanese even in the tragedy. The devastated yet surviving Japanese kept an orderly line in front of grocery stores waiting to buy food. Many Japanese had a chance to reconsider the value of their own lives and works and to think of various ways of contributing to the people and area damaged by the quake. Many news stories and surveys reported on the human bond and the importance of family, relatives, and friends, not only on a domestic but also a worldwide scale. We have confirmed that the differences in ideology or religions are minor compared to the universal importance of family, relatives, and friends, i.e., human bonds and

trust between peoples.

It is my sincere hope that mutual understanding among the various cultures and civilizations will prevent serious conflicts between nations and cultures and will lead us to a peaceful and prosperous world in the  $21^{\rm st}$  century.

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### **FOOTNOTES**

p.6 Footnote 1. This approach may be contrasted to Inglehart's World Values Survey that covers culturally diverse countries worldwide, using a single set of question items. There are some significant differences between his model and CULMAN. For example, 1) Inglehart's cultural map classifies the world by a set of clearly classified cultural zones with definite boundaries, but a cultural manifold may consist of overlapping charts with a hierarchical structure and each chart may expand or shrink or merged with the others over time.

p.10 Footnote 2. Throughout this paper, codes such as Q36 correspond to the common item code of the APVS questionnaire. For the exact wording of items and the precise data, see

http://www.ism.ac.jp/editsec/kenripo/contents\_e.html or http://www.ism.ac.jp/ism\_info\_e/kokuminsei\_e. html.

As for Q38, there are slight differences in wording between our cross-national Japan survey and the Japanese National Character Survey. In the process of translation and back-translation check to make a Japanese version of the cross-national survey questionnaire, we ended up with these two versions. This difference may produce some percentage differences in the response distributions, but the overall pattern is stable.

p.13 Footnote 3. For the study of longitudinal survey data, as well as cross-national surveys, we need to be careful of changes of valid questionnaire returns over decades. Generally, respondents who participated in a survey might be biased to be more trustful than refusers. Thus, we tend to get more trustful respondents in surveys of the lower response rates. For the change of response rates of the JNCS over six decades, see:

https://www.ism.ac.jp/kokuminsei/en/page9/page13/index.html Also see Yoshino (2015b) for possible misunderstanding of longitudinal data on Japanese high school students' happiness.

p.28 Footnote 4. One needs to be careful of the wording of category "a. filial piety". The category is originally from Confucius teachings, and the English translation may not completely express its meaning and nuance, because the original word implies not only love and respect for one's parents but a sort of behavioral obligation.

p.29 Footnote 5. Exceptions are the surveys of W.Germany 1987, Hawaii non-Japanese 1988 and 1999, where "c. the right of individuals" and "a. filial piety" showed the highest and the second highest rates, respectively, although the differences of percentages are not large.

Table 1: List of Main Surveys on National Character Conducted by ISM

1953-present 1971 1978 1983 1988	Japanese National Character Survey (every 5 years) (The most recent survey has been conducted in 2018.) Japanese Americans in Hawaii Honolulu residents and mainland Americans Honolulu residents Honolulu residents
<b>1987–1993</b> UK, FRG	Seven Country Survey (West Germany) & France (1987), USA & Japan (1988), Italy (1992) and The Netherlands (1993)
1991 1998 1999	Overseas Japanese Surveys Japanese Brazilians in Brazil Americans of Japanese ancestry on the US West Coast (Seattle and Sant Clara). Honolulu Residents in Hawaii
2004–2009 Japan, Cl Australia 2010–2014 Japan &	East Asia Values Survey (EAVS) hina (Beijing and Shanghai) & Hong Kong (2002), Taiwan & South Korea (2003), and Singapore (2004) Pacific Rim Values Survey (PRVS) hina (Beijing and Shanghai) & Hong Kong (2005), Taiwan & South Korea & USA (2006), Singapore & (2007), and India (2008) Asia-Pacific Values Survey (APVS) USA (2010), China (Beijing, Shanghai], Hong Kong & Taiwan (2011), South Korea, Singapore & Australia and India & Vietnam (2013)

( See <a href="http://www.ism.ac.jp/ism">http://www.ism.ac.jp/ism</a> info e/kokuminsei e.html for the ISM Surveys.)

Table 2. Percentages of Positive Responses to Three GSS Items on Trust in the Asia-Pacific Values Survey (APVS)

Q36 "People are always trying to be helpful to others."

 $\begin{array}{ccc} \text{Q37} & & \text{"People are trying to be fair. "} \\ \text{Q38} & & \text{"People can be trusted"} \end{array}$ 

Year	2011	2011	2011	2011	2012	2012	2013	2012	2010	2010	2013
	Beijing	Shanghai	Hong Kong	Taiwan	South Korea	Singapore	India	Australia	USA.	Japan	Vietnam
Q36	72	66	43	46	52	50	55	59	51	41	70
Q37	57	58	40	53	53	49	34	63	53	57	21
Q38	42	36	21	21	32	34	45	45	31	44	23

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Table 3. Insitutional Trus	st of W	VS Item	ıs											
The figures show percentage	s of sur	n of pos	itive o	categor	ies "1	.very	much c	confide	nt" an	d ″ 2″	confide	nt sor	ne wha	ıt".
	APVS													
#REF!	2011	2011	2011	2011	2010	2012	2012	2012	2013	2010	2010			
Item	Beijing	Shang- hai	Hong Kong	Taiwan	USA	South Korea	Singa- pore	Austr- alia	India	Japan	Viet- nam			
Q52a Religious organization	27	36	58	75	58	41	82	44	87	13	79			
252b The law and the legal system	85	82	86	53	56	51	83	78	78	72	94			
252c The press and television	68	64	56	44	21	63	78	33	70	70	80			
252d The police	75	72	69	59	65	46	92	89	59	70	85			
252e National government bureaucra	83	77	50	46	26	34	89	47	49	38	93			
252f Congress / diet	83	75	53	38	22	17	88	46	55	25	95			
NPO / NGO	41	45	64	56	51	42	80	74	61	49	86			
252h Social welfare facilities	78	70	81	69	48	59	83	79	75	71	88			
252i The United Nations	59	54	70	61	40	68	82	63	60	59	90			
352i Science and technology	95	89	85	86	76	75	91	92	90	83	95	1		

Table 4. Confucian Teachings of the Asia-Pacific Values Survey (2010-14)

The figures show percentages of sum of positive categories "1.strongly agree" & "2.agree to some extent".

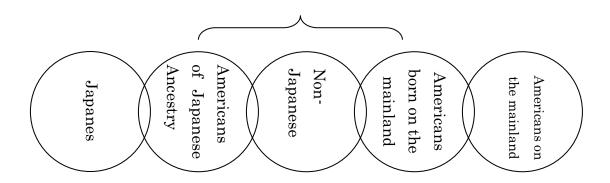
	2011	2011	2011	2011	2012	2012	2010	2012	2012	2013	2013
Item	Beijing	Shanghai	Hong Kong	Taiwan	South Korea	Singapor e	Japan	Australia	USA	India	Vietnam
Q9a We should respect our ancestors	99	97	95	99	82	96	92	95	97	95	100
Q9b The eldest son should look after his aging parents	77	74	79	68	27	55	37	39	54	86	77
Q9c A wife should obey(follow) her husband	33	27	44	43	49	66	34	26	41	86	77
Q9d Not to marry someone whom your parents object to	11	16	10	14	49	40	27	19	34	86	43
Q9e We should obey (follow) older people	61	58	61	61	60	82	56	54	62	96	94
Q9f It is important to have a son to keep the family line going	31	27	31	38	36	47	33	29	51	74	73
Q9g Men should work outside and woman should tend to housekeen	30	28	30	31	32	29	24	13	22	66	44

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Table 5	The rate	s of Two	Choices	from the	Four Choi	ces (Q34).:						
	A (filial	piety), E	3(pay ba	ck to a be	nefactor),	C(the right	of individu	ıals), & D	(the rig	ght of free	edom)	
APVS												
survey year	2010	2010	2011	2011	2011	2011	2012	2012	2013	2012	2013	
	USA	Japan	Beijing	Shanghai	Hong Kong	Taiwan	South Korea	Singapore	India	Australia	Vietnam	
A&B	21	55	67	57	44	54	43	48	39	18	37	
A&C	22	10	15	18	15	17	14	27	29	26	27	
A&D	14	13	12	12	22	13	17	10	22	12	27	
B&C	15	6	2	3	5	6	7	6	4	11	4	
B&D	6	11	2	3	6	5	8	3	4	5	2	
C&D	19	5	2	3	7	5	10	7	2	27	4	
Seven Cou	Survey											
survey year	1988	1988	1992	1987	1987	1993	1987					
	USA	Japan	Italy	France	W.Germany	The Netherlands	UK					
A&B	20	47	24	20	9	12	32					
A&C	40	14	30	14	28	30	20					
A&D	13	20	26	20	19	26	13					
B&C	6	5	4	8	4	3	11					
B&D	3	7	3	11	3	1	8					
C&D	20	8	14	27	37	28	16					

## One-dimensional linkage of comparison

### Hawaii Residents



Extension of comparisons of local pairs will lead to a global comparison. Each neighboring(overlapping) pair of charts may correspond to a certain questionnaire (a set of question items).

Figure 1a: An example of spatial linkage

Figure 1b: An example of temporal linkage

Each temporal chart covers a particular time, and all of the charts collectively constitute longitudinal linkage of a time series comparison. Each chart may correspond to a certain questionnaire (a set of question items to study).

Longitudinal Survey: Japanese National Character Survey(JNCS)

( "Nihon-jin no Kokkumin-sei Chosa")

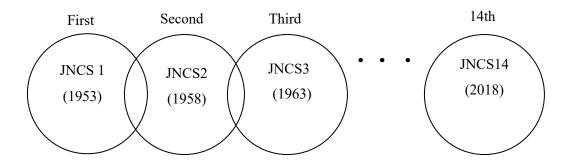
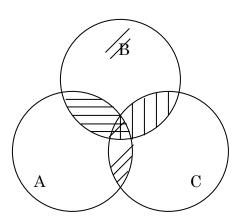


Figure 1c: An example of an item-structure linkage

Relationships of similarity (commonalities) and dissimilarity are multidimensional. The diagram may show a common feature which Countries A and B share (eg. on religious attitudes, modernization, religious attitudes, work values, etc.) and non-common features between them. Each chart of countries or regions may correspond to a certain questionnaire (a set of question items or a set of topics under study.



### Figure 2: Illustration of a hierarchy of charts (links) of a cultural manifold

Some charts may overlap within a hierarchy, and the structure may show dynamic changes over many decades: a certain chart may expand, shrink, disappear, or merge with another chart to make a larger chart. Here a spatial chart may be a geographic unit, a political unit, or a unit of economic cooperation.

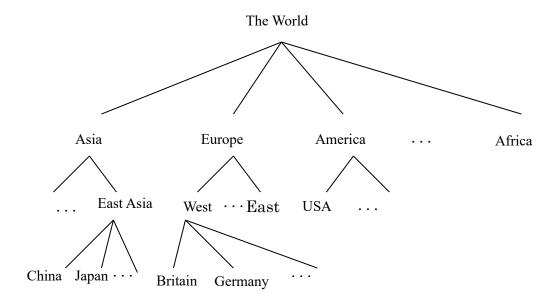


Figure 2 (a): A hierarchy of spatial charts

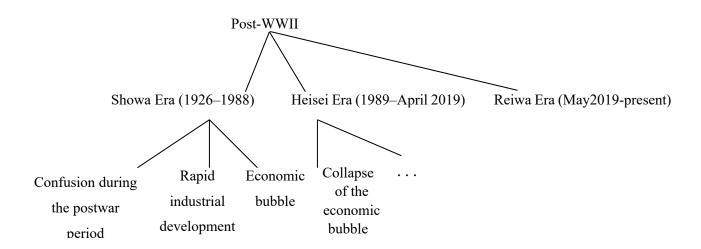


Figure 2 (b): A hierarchy of temporal charts

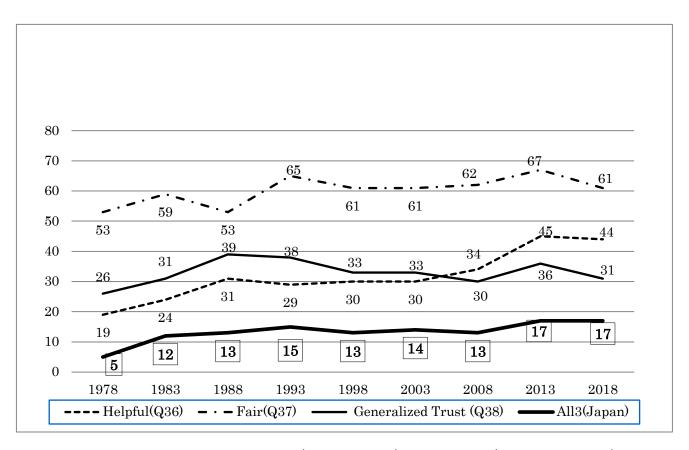
# Culture Medicine Economy Religions Religions International Politics

**General Daily Life** 

Figure 2 (c): A hierarchy of charts of item (topic) to study

Figure 3a. Percentages of Positive Responses of GSS Trust Items (Q36, Q37 & Q38) & Percentage of Positive Response to ALL the 3 Items in Japan.

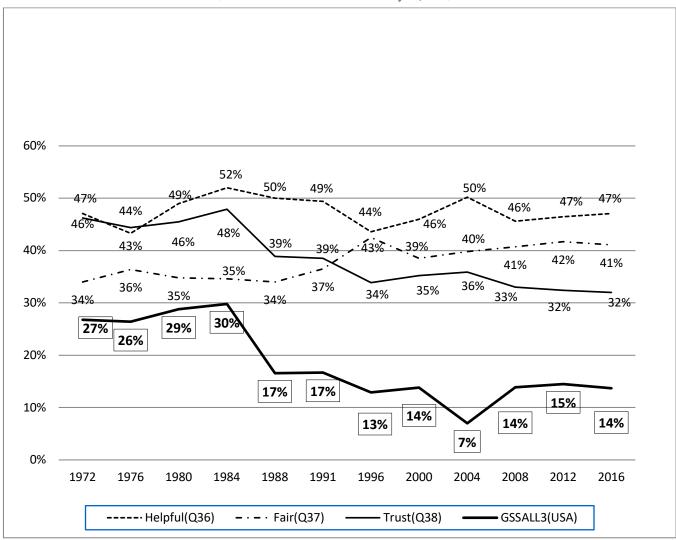
The data are from the Japanese National Character Survey, except the 1988 data from the Seven Country Survey.

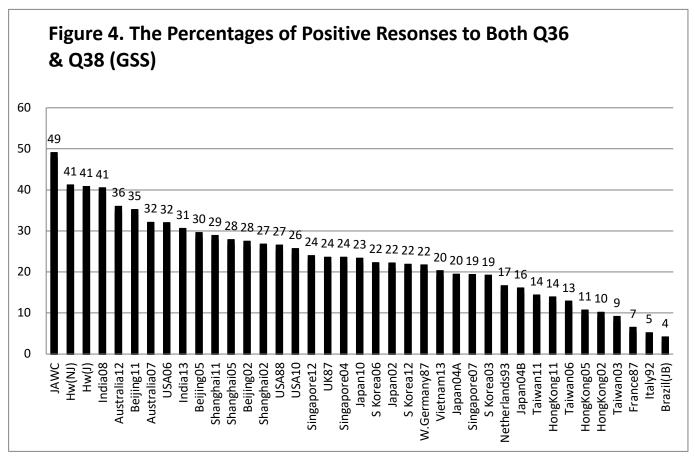


Note: Some papers, such as Yoshino (2009, Fig. 1) & Yoshino (2014b, Fig. 7-3), included an error in the 1978 data, but it has been corrected here.

Figure 3b. Percentages of Positive Responses of GSS Trust Items (Q36, Q37 & Q38) and Percentage of Positive Response to All the 3 Items in USA.

The data are from the SPSS format of GSS (downloaded from the website on May 23, 2019).





### Abbreviation

JAWCS: Japanese Americans on the West Coast (USA)

HW(J) or (J): Hawaii Residents (Japanese) or (Non-Japanese)

Brazil(JB): Japanese Brazilian in Brazil

Numbers (e.g., 88 or 03) show the survey years (e.g., 1988 or 2003).

Note: Fig. 2 of Yoshino (2015) included an error of Australia 2012, but corrected in the figure above.

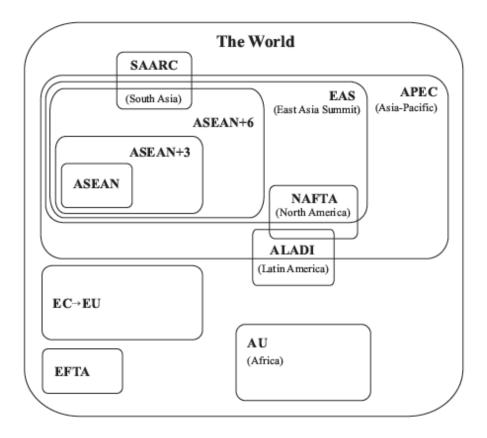


Figure 5. A Manifold of Communities in the World In order to have a steady, peaceful and prosperous development, we may need a set of "soft" regulations to connect pairs of communities rather than a single restrictive global standard.