## TEAM 4 - KENJI, YUXIN, WEIZHEN

# SDRP DOMAIN NAME DISPUTES

#### **OUTLINE OF PRESENTATION**

- Objectives of Project
- Background Literature
- Methodology & Challenges
- Descriptive Analysis
- Modelling Analysis
- Conclusions



#### **EXAMINATION AND EVALUATION OF THE SDRP FRAMEWORK IN SINGAPORE**

- a) Compare and Contrast trends under the SDRP against other jurisdictions through descriptive statistics;
- b) Examine what are some of the salient factors (expressly stated or not in the SDRP) in affecting decisions under the SDRP (i.e which variable might have a greater weight in contributing to a domain name transfer);
- c) Evaluate some general criticisms against the UDRP framework and their relevance in the SDRP context
  - Identify if there are variables which might have operated on the minds of judges that might not have been expressly stated in the judgment that might have a huge correlation with the judgment: this has to do with the dummy variables

#### **DOMAIN NAME SYSTEM**

- Domain name is the textual address for a location on the Internet and correspond to IP addresses through the DNS (Domain Name system) which the computer recognsies.
- A domain like "nus.edu.sg" has three components.
  - .sg is a Top Level Domain or TLD (in this case it is the ccTLD for Singapore)
  - .edu is a Second Level Domain (reflecting the nature of the organisation)
  - nus is the Third level Domain and this is what the organisation registers with the ".sg" domain name registry

#### DOMAIN NAME SYSTEM GOVERNANCE

- Internet Corporation for Assigned Names and Numbers ("ICANN") was formed as a non-profit, private sector organisation in Oct 1998 take over the day-to-day administration of the DNS from Internet Assigned Numbers Authority (IANA)
  - ICANN also coordinates the operation of the root name server system and responsible for making policies concerning the DNS.
  - But the responsibility of administration of ccTLDs are delegated to individual country managers who assume the role of registry operators and have full control over the operation of DNS service for their responsive ccTLDs.
- In Singapore, this is under the charge of Singapore Network Information Centre Private limited (SGNIC), a subsidiary of Infocomm Media Development Authority (IMDA)

#### **DOMAIN NAME DISPUTES**

- The explosive growth of the Internet and its users (7 million gTLD domain names in 1999 to 154 million gTLD & 123 million ccTLDs) make it extremely difficult to find attractive, short and generic terms to register as domain names.
- Domain names play a critical role in the marketplace, acting as central components of web addresses and email addresses.
- ▶ But domain names are usually issued on a "first come, first served" basis and are "unique" the unique nature means that disputes over who is entitled to a particular domain name may arise where there are two or more parties interested in using the same domain name.
  - ▶ This created a disjunction between domain names and real world identifiers (e.g. trademarks) in which people have rights over.
  - This also created a possibility for opportunists to profit from the business goodwill or reputation in real world identifiers i.e. the problem of cybersquatting or otherwise known as cyberpiracy.
  - ▶ This prompted the need for an administrative procedure and policy to be developed Uniform Domain Name Dispute Resolution Policy (UDRP) as an alternative to court proceedings designed to cater for the cybersquatting scenario and other instances of registration of domain names in bad faith.

#### **DOMAIN NAME DISPUTES**

- ▶ Singapore has not adopted the UDRP.
- Singapore Dispute Resolution Policy (SDRP) is incepted in 2001 for resolving domain disputes in Singapore as adopted by SGNIC for the .sg ccTLD.
  - SGNIC domain name registration agreements in force specifically provide that "any dispute over the registration and use of the domain name, unless resolved by ADR (incl. SDRP), should be adjudicated upon by the Singapore courts.
  - ▶ SDRP
    - ▶ Mediation as part of the dispute resolution mechanism
    - ▶ Three Main Elements that the Complainant must prove:
      - i) the Registrant's domain name is identical or confusing similar to a name, trademark or service mark in which the Complainant has rights;
      - ii) the Registrant has no rights or legitimate interests in respect of the domain name; and
      - iii) the Registrant's domain name has been registered or is being used in bad faith.
    - Remedy limited to requiring the cancellation of the Registrant's domain name or the transfer of the Registrant's domain name registration to the Complainant.

OVERCOMING CHALLENGES

## METHODOLOGY

#### DATA

- SDRP decisions as main source of data
  - Obvious choice since we are analysing these decisions to spot patterns
  - Obtained from SDRP list of cases
    - 42 cases
  - Eliminated settled cases since they provided little room for analysis of how the SDRP panels made their decisions
    - > 33 cases left so we read 11 cases each

#### **VARIABLES**

- ▶ 63 variables How can you possibly have 63 variables??
  - Many dependent variables
    - Variables that elaborated on other variables
    - Variables that were grounds of finding another variable
  - Not all variables were relevant "more is more"?
  - Some overlaps in variables
    - ▶ E.g. "No response from Respondent" vs "Did Respondent respond?"

Dep. Variable:	Conclusion	R-squared:			0.7	97			
Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Conclusion OLS Least Squares Mon, 03 Apr 2017 14:19:22 33 24 8 nonrobust	Adj. R-squared: F-statistic: Prob (F-statistic): Log-Likelihood: AIC: BIC:	0.730 11.79 1.19e-06 9.0164 -0.03272 13.44	Model 1:	using "N	No Resp	onse fro	m Respon	11 ident"
			=======================================	coef	std err	t	P> t	 [95.0% Conf	. Int.]
	Brand e ona_Fide tances_of_registrati ing_customers_for_co th_on_other_grounds	ion_for_valuable_considerat ommercial_gain_through_like		0.0388 0.1619 0.3172 0.0759 -0.1472 0.0761 0.3227 0.1370 0.0035	0.125 0.096 0.087 0.040 0.067 0.065 0.069 0.084 0.080	0.310 1.685 3.648 1.877 -2.191 1.162 4.691 1.631 0.043	0.759 0.105 0.001 0.073 0.038 0.257 0.000 0.116 0.966	-0.220 -0.036 0.138 -0.008 -0.286 -0.059 0.181 -0.036 -0.162	0.297 0.360 0.497 0.159 -0.009 0.211 0.465 0.310 0.169

#### DATA CALIBRATION MATTERS

Dep. Variable:	Conclusion	R-squared:			0.	776			
Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	OLS Least Squares Mon, 03 Apr 2017 14:19:22 33 24 8 nonrobust	Adj. R-squared: F-statistic: Prob (F-statistic): Log-Likelihood: AIC: BIC:	0.702 10.42 3.54e-06 7.4151 3.170 16.64	Mod	el 2: usir	ng "Did_	_Respon	dent_Res <sub>l</sub>	oond"
				coef	std err	t	P> t	[95.0% Conf	. Int.]
	Brand e ona_Fide tances_of_registrati ing_customers_for_co th_on_other_grounds	on_for_valuable_considerat ommercial_gain_through_like		0.1516 -0.0532 0.3072 0.0641 -0.1794 0.0776 0.3240 0.1526 0.0105	0.120 0.089 0.092 0.043 0.067 0.069 0.073 0.088 0.084	1.264 -0.597 3.350 1.488 -2.671 1.129 4.461 1.740 0.124	0.218 0.556 0.003 0.150 0.013 0.270 0.000 0.095 0.902	-0.096 -0.237 0.118 -0.025 -0.318 -0.064 0.174 -0.028 -0.163	0.399 0.131 0.496 0.153 -0.041 0.219 0.474 0.333 0.184

#### **KEY VARIABLES: ELEMENTS OF THE TEST**

- 1. Whether the Registrant's domain name is identical or confusingly similar to a name, trademark or service mark in which the Complainant has rights;
  - (a) Whether it was registered in other jurisdictions;
  - (b) Whether it was registered in Singapore;
  - (c) Number of years for which it has been registered both internationally and locally;
  - (d) Whether the mark was well-known; and
  - (e) The percentage similarity between the disputed domain name and the Complainant's word mark (if in existence).

- 2. Whether the Registrant has rights or legitimate interests in respect of the domain name;
  - (a) Whether the Respondent showed usage / demonstrable preparations to use the domain name or name with bona fide offering of goods or services;
  - (b) Whether the Respondent showed that it was commonly known by the domain name;
  - (c) Whether the Respondent showed that it was making legitimate non-commercial or fair use of the domain name;
  - (d) The purpose for which the domain name was used; and
  - (e) The period for which the Respondent had been using the domain name (in years).

- 3. Whether the Complainant shows that the Registrant's domain name has been registered or is being used in bad faith
  - (a) Whether circumstances indicated that the Registrant had registered or acquired the domain name primarily for valuable consideration in excess of the Registrant's documented out-of-pocket costs directly related to the domain name;
  - (b) Whether the Registrant had registered the domain name in order to prevent the Complainant from reflecting the mark in a corresponding domain name, provided that the Registrant has engaged in a pattern of such conduct;
  - (c) Whether the Registrant had registered the domain name primarily for the purpose of disrupting the business of a competitor; and
  - (d) Whether the Registrant had intentionally attempted to attract, for commercial gain, Internet users to the Registrant's website or other on-line location, by creating a likelihood of confusion with the Complainant's name or mark using the domain name.

#### **DUMMY VARIABLES**

- Why include dummy variables?
  - ▶ Could possibly shed light on thought process of SDRP panels possibility of factors not mentioned in decisions that do affect the conclusion
- ▶ Did the dummy variables actually help? No
  - Often difficult to extract these variables
    - Not available from given facts
    - Legal findings on which we were unqualified to draw our own conclusions
  - Where dummy variables could be extracted, rarely useful
    - So obvious that they could be derived from the key elements from before
    - So obvious that they returned the same results for most, if not all, of the dataset (see screenshot csv)

Attempts_to	Number_of_	Mediation_;	Mediaiton_f
0	0	a	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	1	0	0
1	2	0	0
1	1	0	0
0	0	0	0
0	0	0	0
1	0	0	1
1	0	0	0
0	0	0	0
0	0	0	0
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1	2	0	0
0	0	0	0
	0	0	0
0	0	0	0
1	1	0	0
0	0	0	0
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0	0	0	0
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0	0	0	0
0	0	a	٥

#### **DUMMY VARIABLES**

- Complainant's rights over domain name:
  - Made\_up\_word; English\_word;
  - Length\_of\_word; Domain\_a\_variation\_on\_mark\_or\_brand;
  - Similar\_words; Percentage\_of\_Similarity\_of\_Words; Pronounciation\_Similarity;
  - Abandonment\_by\_Complainant
- Other grounds of bad faith:
  - Respondent\_Attempt\_to\_sell;
  - Prior\_Commercial\_relationship\_between\_parties;
  - Attempts\_to\_settle; Number\_of\_settle\_attempts;
  - Mediation\_prior; Mediaiton\_Prior\_attempts

#### Procedural aspect of decisions of decisions:

- Length\_of\_Cases\_in\_months;
- Country\_of\_Respondent; Country\_of\_Complainant; Industry\_Complainant;
- Industry\_Registrant

#### Others:

- No\_Cited\_SG\_Cases; No\_Cited\_SDRP\_cases; No\_Cited\_UK\_EU\_cases; No\_Cited\_US\_Cases; No\_Cited WIPO\_UDRP\_cases;
- Panelist; Panelist\_Type;
- No\_response\_from\_respondent

#### ATTRIBUTING VALUES TO VARIABLES

- For binary variables:
  - Yes: 1; No: -1; Not mentioned: 0
- For quantitative variables
  - Attention to detail matters e.g. months or years?
- What to do when data is unavailable? Esp. for dummy variables
  - Leaving out data point further reduces already scarce dataset
  - Where everything is 'not mentioned' in the large part of the dataset, little use for particular variable

#### DATA PROCESSING

Categorical variables:

```
dataSet['Usage_of_Domain_name'] = dataSet['Usage_of_Domain_name'].astype('category')
dataSet['Panelist_Type'] = dataSet['Panelist_Type'].astype('category')
dataSet['Country_of_Respondent'] = dataSet['Country_of_Respondent'].astype('category')
dataSet['Country_of_Complainant'] = dataSet['Country_of_Complainant'].astype('category')
dataSet['Industry_Complainant'] = dataSet['Industry_Complainant'].astype('category')
dataSet['Industry_Registrant'] = dataSet['Industry_Registrant'].astype('category')
dataSet['Panelist'] = dataSet['Panelist'].astype('category')
dataSet['Year_of_Judgment'] = dataSet['Year_of_Judgment'].astype('category')
```

- Failure to change data type of categorical variables led to lower Rsquared results
- Why? Equivalent of arbitrarily/poorly assigning values to ordinal variables

#### **WORKING WITH 63 VARIABLES**

- Was there a need for 63 variables?
- Did we use all 63 variables?
- Far messier and more tedious than probably necessary
  - Repeated / very similar variables
  - Inconsistent calibration of data
  - Re-reading of cases to fill up endlessly increasing columns

#### **MODELLING**

- At what point does more become too much?
- Trial and error more variables, more trial, more error
- Because of the number of variables we had, we ended up modelling separately on overall models and sub-models based on each element of the test
  - What is the significance of this?
  - Do we need that many models?
  - Does it aid us in finding legally significant conclusions?

#### **ERRORS**

Dep. Variable: Conclusion 0LS Model: Method: Least Squares Date: Sun, 02 Apr 2017 Time: No. Observations: 32 Df Residuals: 16 15 Df Model: Covariance Type: nonrobust

```
R-squared: 1.000
Adj. R-squared: 1.000
F-statistic: 6.108e+27
Prob (F-statistic): 3.84e-219
Log-Likelihood: 1005.5
AIC: -1979.
BIC: -1956.
```

	coef	std err	t	P> t	[95.0%	Conf. Int.]
Intercept	-0.5000	1.12e-14	-4.48e+13	0.000	-0.50	0 -0.500
Made_up_word	1.61e-15	3.76e-15	0.428	0.674	-6.36e-1	5 9.58e-15
English_word	1.193e-15	4.33e-15	0.276	0.786	-7.98e-1	5 1.04e-14
Length_of_word	-1.513e-15	7.54e-16	-2.005	0.062	-3.11e-1	5 8.64e-17
Domain_a_variation_on_mark_or_brand	0	5.2e-15	0	1.000	-1.1e-1	4 1.1e-14
Existence_of_Trade_Mark	-1.0000	1.01e-14	-9.92e+13	0.000	-1.00	0 -1.000
Trade_Mark_Registered_in_Singapore	-1.096e-15	5.42e-15	-0.202	0.842	-1.26e-1	4 1.04e-14
Trade_Mark_Registered_in_other_Countries	1.429e-15	1.03e-14	0.138	0.892	-2. <b>0</b> 5e-1	4 2.33e-14
Length_of_Trade_Mark_SG	2.377e-16	1.74e-16	1.366	0.191	-1.31e-1	6 6.06e-16
Well_Known_Mark	-2.776e-16	4.15e-15	-0.067	0.947	-9. <b>0</b> 7e-1	5 8.52e-15
Foreign_brand	1.0000	2.29e-14	4.37e+13	0.000	1.00	0 1.000
Well_known_Foreign_Brand	3.469e-16	4.93e-15	0.070	0.945	-1. <b>0</b> 1e-1	4 1.08e-14
Identical_Confusing_Similarity	1.0000	9.02e-15	1.11e+14	0.000	1.00	0 1.000
Identical_Words	4.441e-16	1.34e-14	0.033	0.974	-2.8e-1	4 2.89e-14
Similar_words	1.0000	1.68e-14	5.97e+13	0.000	1.00	0 1.000
Percentage_of_Similarity_of_Words	1.292e-16	1.71e-16	0.754	0.462	-2.34e-1	6 4.93e-16
Pronounciation_Similarity	-0.5000	1.12e-14	-4.48e+13	0.000	-0.50	

Omnibus: 11.496 Durbin-Watson: 1.863 Prob(Omnibus): 0.003 Jarque-Bera (JB): 11.147 Skew: 1.104 Prob(JB): 0.00380 Kurtosis: 4.866 Cond. No. 1.83e + 17

#### Warnings:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The smallest eigenvalue is 8.84e-30. This might indicate that there are strong multicollinearity problems or that the design matrix is singular.

Linear regression
 with 33 data points,
 16 variables – R = 1?

#### **CHALLENGES**

- Small dataset
  - Only 33 SDRP cases to work with
    - Dataset only available from 2002
  - Foreign jurisdictions How helpful?
    - WIPO
    - UK Nominet rejected FOI request :(
    - Salient cases in guidebook? How helpful is this?

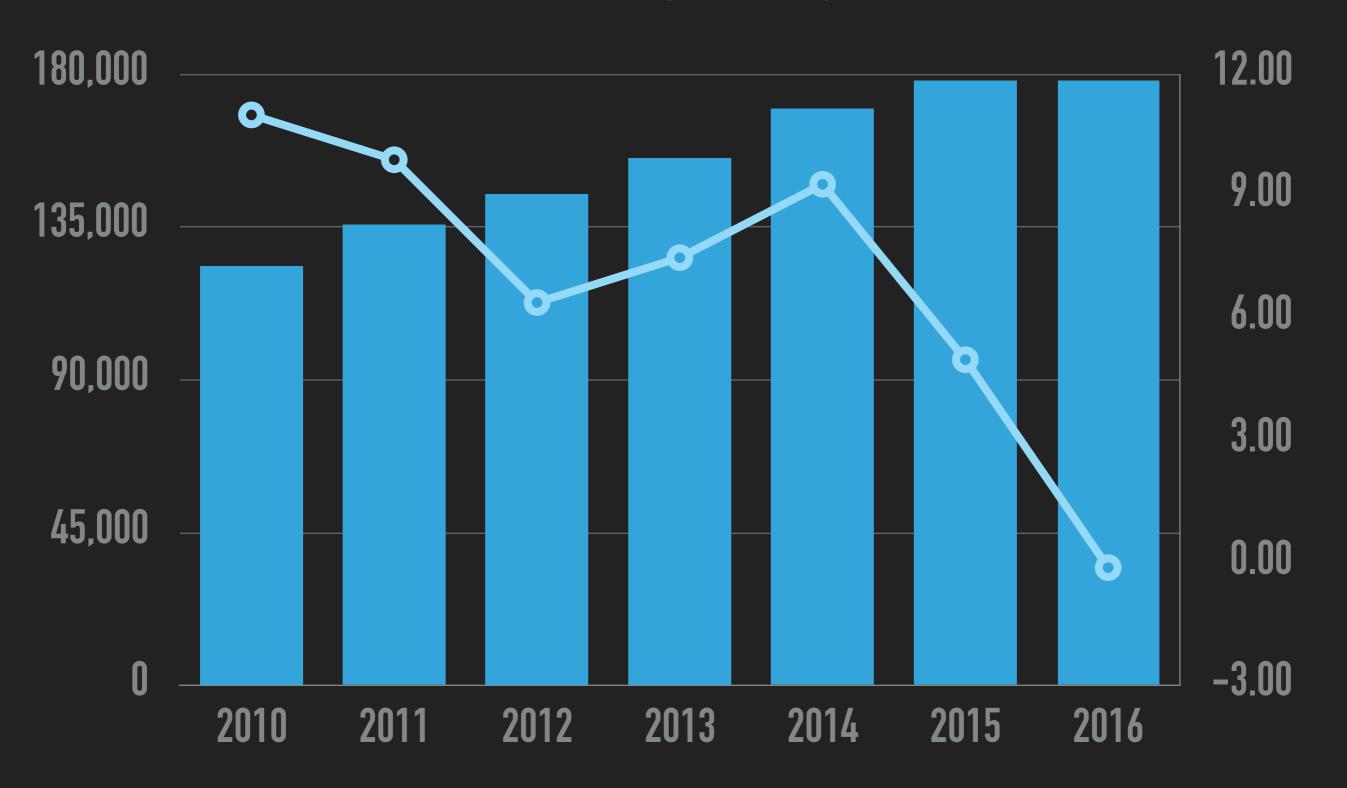


## DESCRIPTIVE STATISTICS

"STATISTICS IS THE GRAMMAR OF SCIENCE"
- KARL PEARSON

#### Number of Domain Registrations

Growth Rate (year on year)



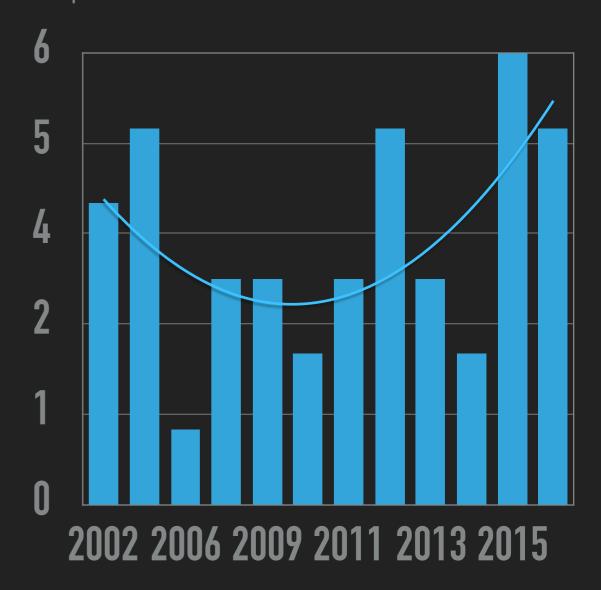
#### **DESCRIPTIVE ANALYSIS**

- 1. Number of Cases over the years
- 2. CyberSquatting Ratio
- 3. Proportion of Cases decided in favour of Complainant
- 4. Default Rate
- 5. Number of Precedents Cited

#### 1) NUMBER OF CASES OVER THE YEARS

- The histogram here tracks the number of cases (by decisions) against the year of judgment.
  - Note: This data includes the cases which are settled for calculation of Cybersquatting ratio later
- Evaluation:
  - The numbers of cases over the years since the adoption of SDRP in Singapore has been fairly constant although there has been a pickup in the last 2 years.
  - ▶ A few hypothesis may be made here:
    - a) The lack of cybersquatting in Singapore (which is more appropriately analysed using the cybersquatting ratio)
    - b) The reluctance to pursue a case under SDRP because of i) costs (i.e. cheaper to just buy the domain from the person), ii) lack of publicity, iii) availability of alternative TLDs to achieve the same purpose.

Number of SDRP Complaints



Year

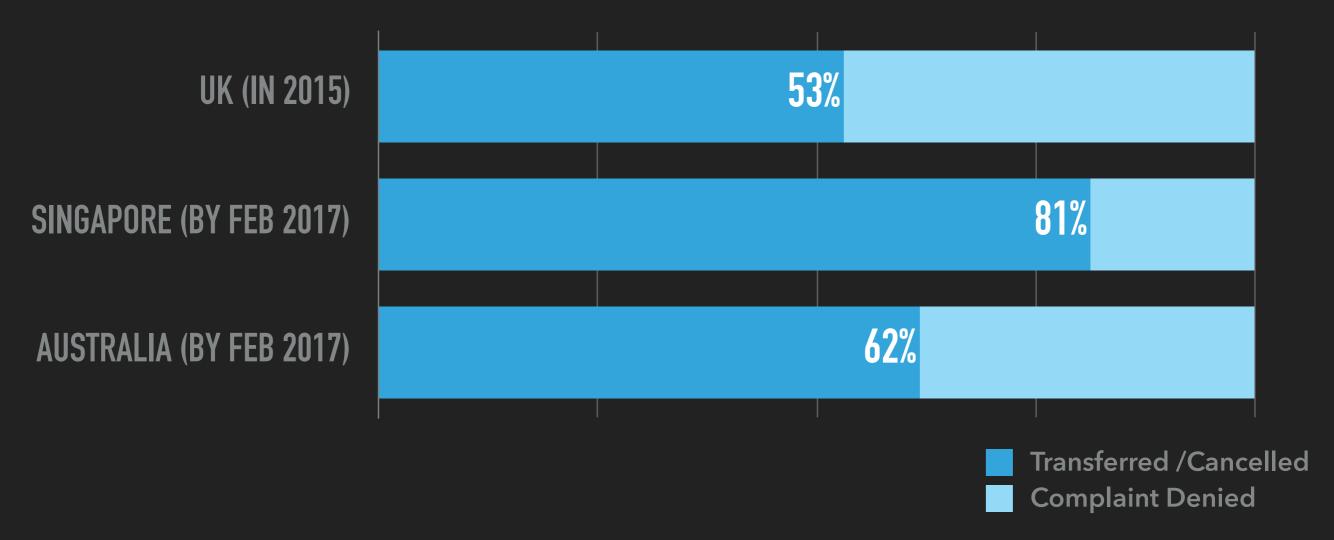
#### 2) CYBERSQUATTING RATIO

 Cybersquatting ratio is defined as total number of disputed domain names with the respective registration yields

	Country	Australia (by Feb 2017)	Canada (by Dec 2014)	Singapore (by Feb 2017)	UK (by Dec 2015)
	Complaints (By Jan 2017)	539	274	42	11,124
_	Total Number of Registrations	6,167,996	2,134,590	175,869	10,140,436
	CyberSquatting Ratio	0.00874%	0.01284%	0.02389%	0.10970%

- Evaluation: WIPO in its report uses CyberSquatting Ratio to examine the level of abusive registrations.
  - In the present case, it would appear that Singapore has the highest CyberSquatting Ratio amongst the three jurisdictions/systems.
    - (Although it ought to be noted that the data from the other two jurisdictions are not up-to-date and recent statistics may indicate otherwise)

#### 3) PROPORTION OF CASES DECIDED IN FAVOUR OF COMPLAINANT

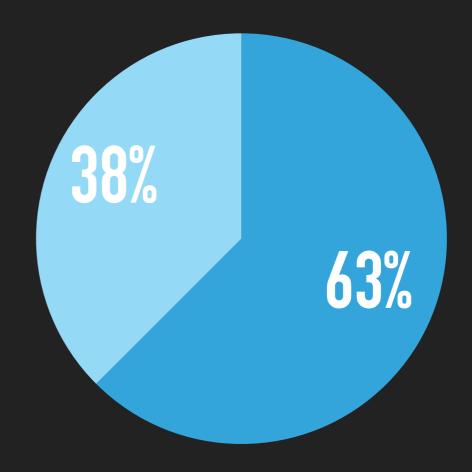


- Evaluation: According to WIPO (based on their report), the higher success rate of the Complainants may indicate a higher level of abusive registrations.
  - In line with the CyberSquatting Ratio statistic earlier, the high rate of successful cases in Singapore will seem to similarly indicate a higher incidence of abusive registration in Singapore.

### 4) DEFAULT RATE

#### Evaluation:

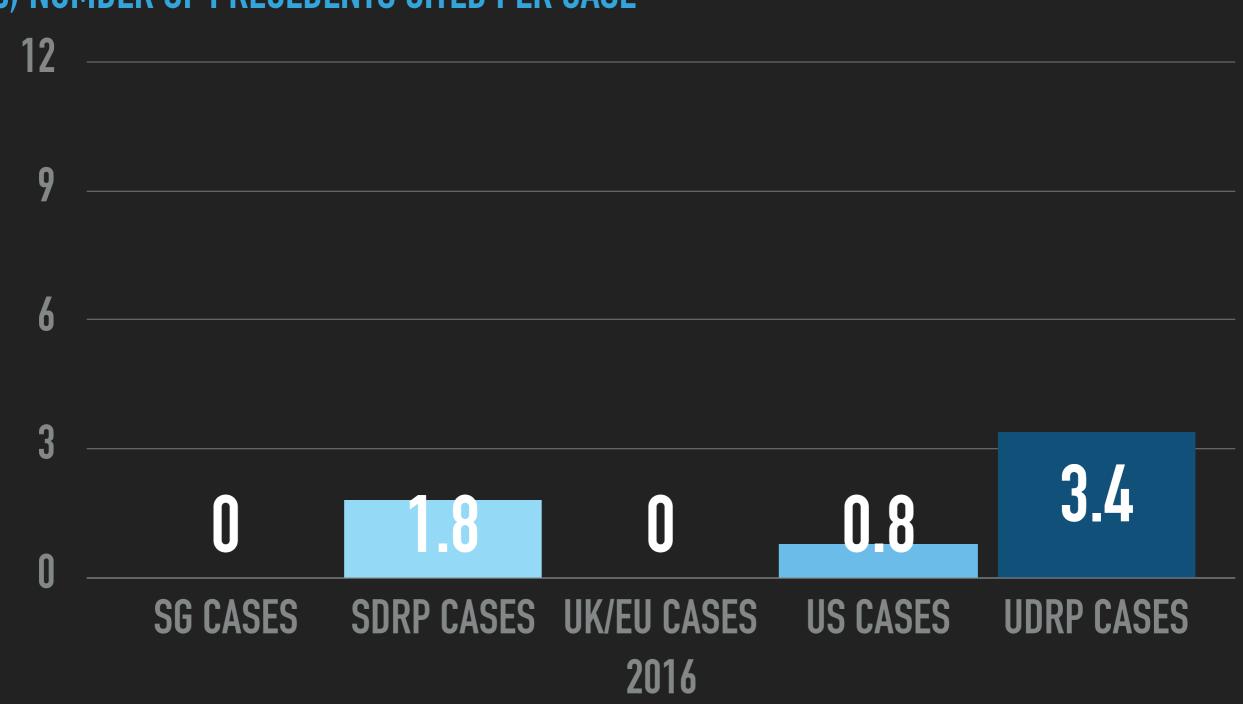
- When a Respondent does not provide a response, it usually infers that the Respondent did not see any point in defending the domain name.
  - The alternative possibility that the respondent did not receive notice is highly unlikely.
- Therefore, the high default rate seems to similarly indicate the high incidence of cybersquatting in Singapore as well.
- ▶ Side Note: The high rate of default is consistent across other jurisdictions with a similar *ex post* system (i.e. UK with about 70% default rate) as compared to jurisdictions with an *ex ante* system (i.e. Australia with about 24.6%)
  - Ex Ante: Restrictive Registration System
  - Ex Post: Unrestrictive Registration System



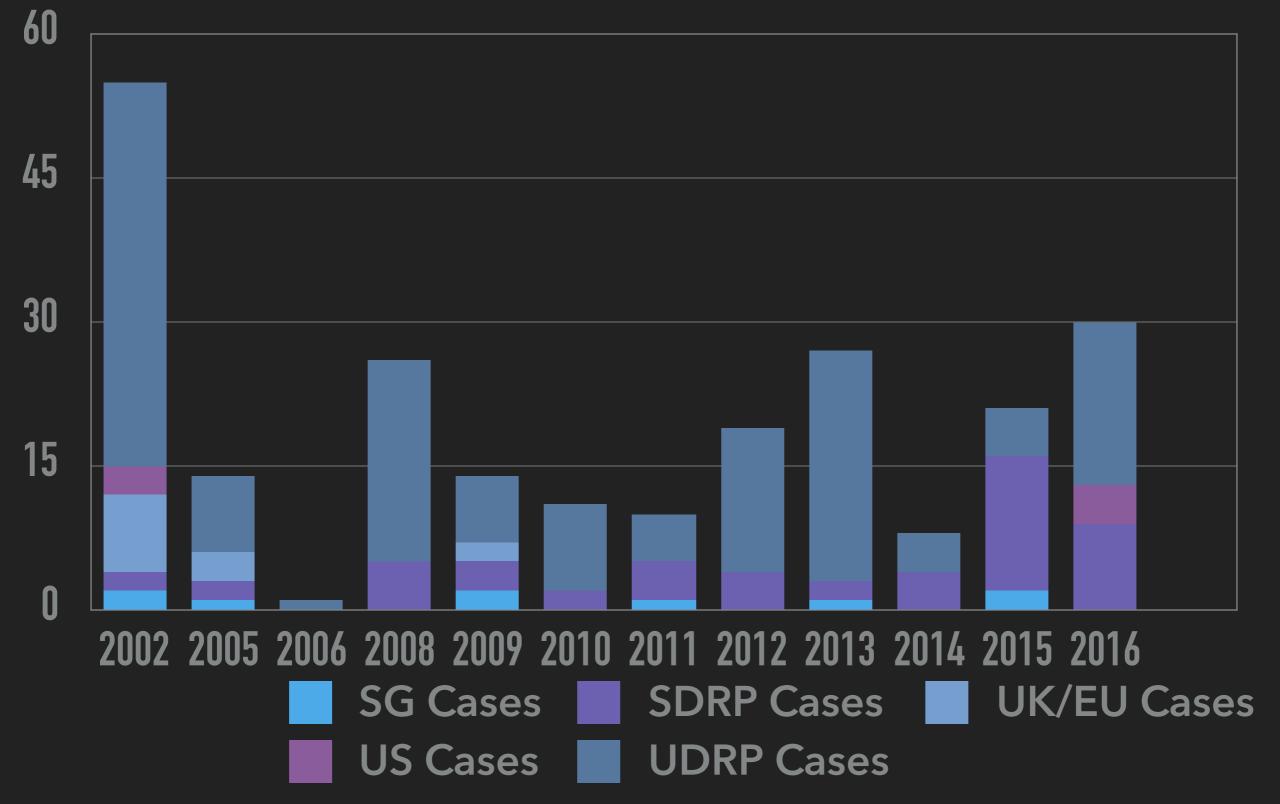
No Response From Respondent

Respondent Responded

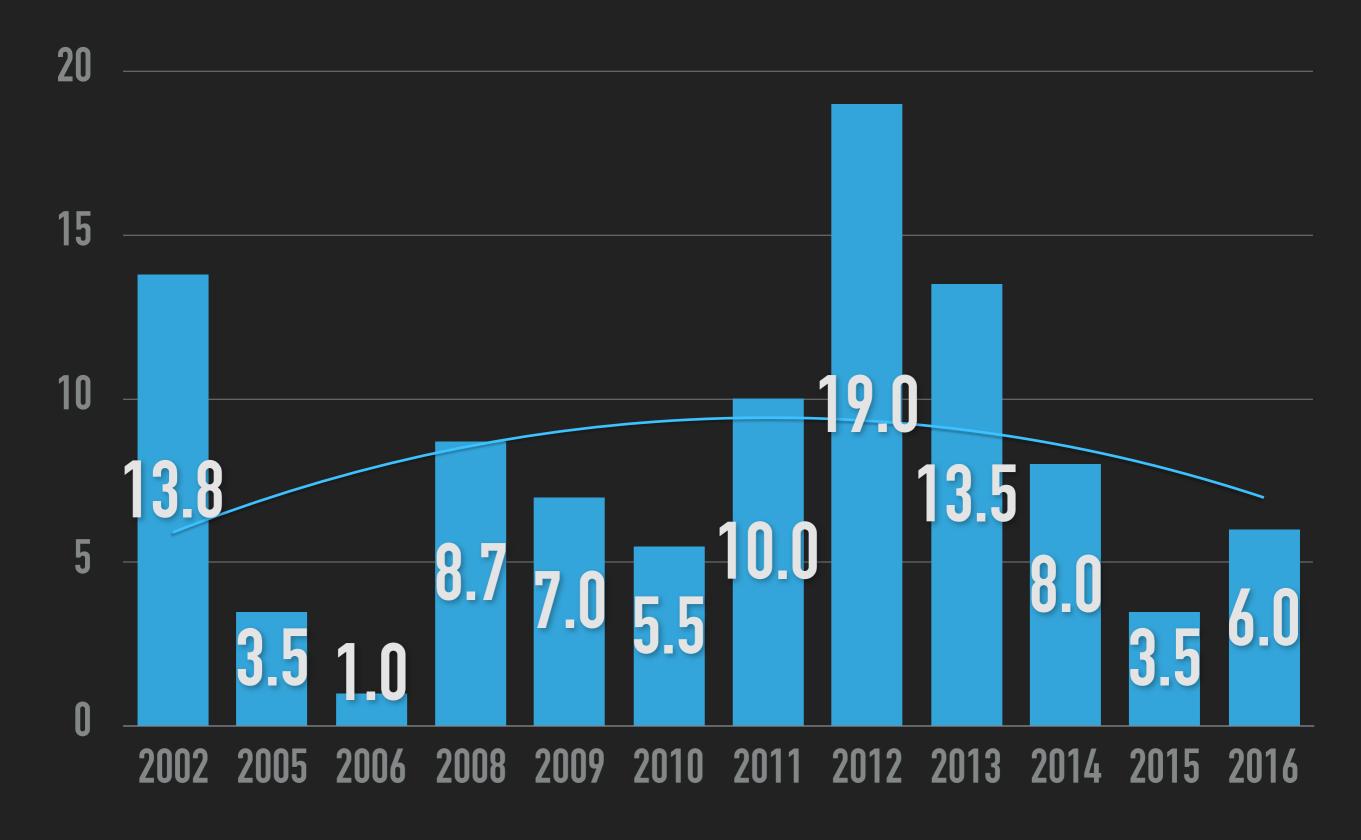




#### 5) NUMBER OF PRECEDENTS CITED



- Average Number of Precedents Cited Per Case
- Polynomial Trend Line



#### 5) NUMBER OF PRECEDENTS CITED

#### Observations:

- ▶ A consistent observation throughout is the huge influence by UDRP cases which is to be well-expected given the similarity between SDRP and the huge body of caselaw in UDRP cases
- Secondly, the number of SDRP cases cited as precedents have also risen in absolute numbers over the years given that the body of case law in Singapore is growing as well, although the average number has remained consistently low.
- ▶ The increasing usage of precedents is perhaps one healthy indicator of the consistency amongst cases decided under the SDRP given that a major criticism of the UDRP/SDRP system is the lack of consistency amongst cases. This criticism is based very much on the non-adoption of the stare decisis principle in the UDRP/SDRP system where some of the SDRP cases did not refer to any case precedents in coming to the decision.

#### INTERIM CONCLUSIONS

- ▶ 1) There appears to be a growing number of cases in Singapore in the recent years and this may be attributed to the increasing usage of the Internet in Singapore by SMEs.
- ▶ 2) The small number of cases under the SDRP does not mean that there is small incidence of CyberSquatting in Singapore. On the contrary, the other statistics (i.e. default rate, cybersquatting ratio and proportion of cases decided in favour of complainant) suggest that Singapore has a relatively high number of CyberSquatting.
- 3) The growing number of case precedents in Singapore seem to be a healthy indicator of consistency amongst SDRP cases even though there is no strict requirement for stare decisis under the SDRP.



### MAIN OBJECTIVES:

- io identify which variables might have a greater weight in contributing to a domain name transfer
  - which variables may contribute to a finding of each element
- Identify if there are variables which might have operated on the minds of judges - that might not have been expressly stated in the judgment that might have a huge correlation with the judgment: this has to do with the dummy variables we created



### **CHALLENGES**

- Small Data Set:
  - Affects the ability to create a model that makes sensible predictions (e.g. Model against Panelists)
- Logistic Regression:
  - technically, categorical variables, logistic regression should work
  - ▶ BUT: we faced these errors:
    - "perfect separation" // "ConvergenceWarning: Maximum Likelihood optimization failed to converge. Check mle\_retvals"
    - Endog must be in unit interval -> we had to recalibrate data (as will be explained when the model comes)

### MODELLING ANALYSIS - 4 TYPES OF MODELS

- Sub-Models for Each of the 3 Sub-Elements:
  - Sub-Model 1: Similarity / Confusing Similarity of Domain Name & Mark
  - Sub-Model 2: Complainant has proven that Respondent has no Legitimate Interest in the Domain Name
  - Sub-Model 3: Complainant has proven that Respondent has registered or used the Domain Name in Bad Faith
- General Model: Modelling the Conclusion against variables under each of the 3 sub-elements



# SUB-MODEL 1: IDENTICAL / CONFUSING SIMILARITY

**CHOICE OF VARIABLES** 

LINEAR MODEL

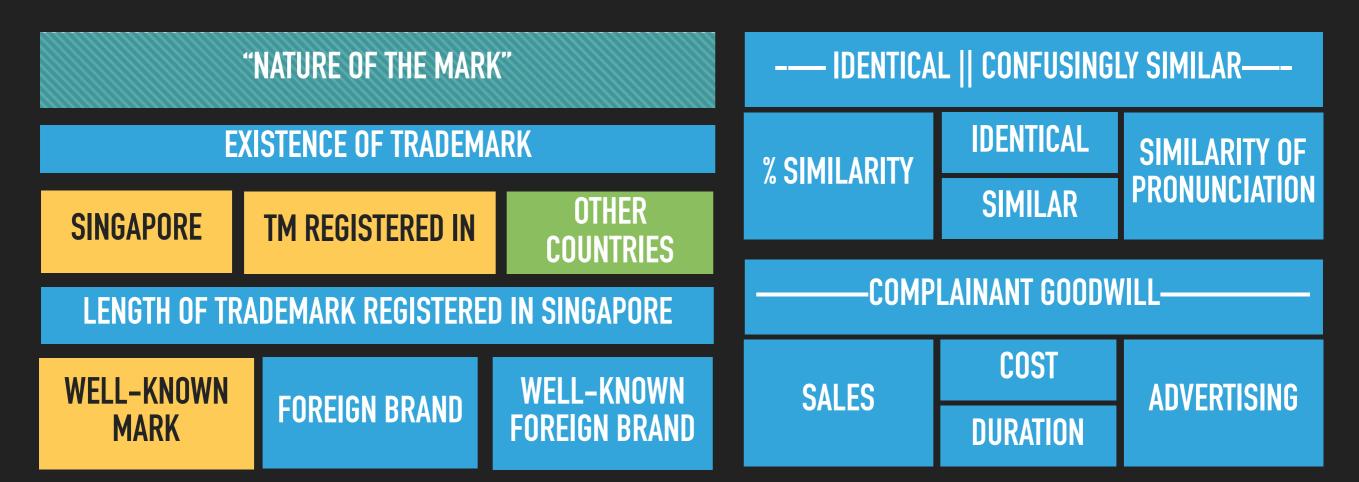
LOGISTIC MODEL

### (1) IDENTICAL/CONFUSING SIMILARITY: VARIABLES TO CHOOSE FROM

"NATURE OF THE DOMAIN NAME"

MADE-UP WORD LENGTH OF WORD ENGLISH WORD

DOMAIN A VARIATION OF THE TRADEMARK OR BRAND



# (1) IDENTICAL / CONFUSING SIMILARITY: LINEAR

	OLS R	egression Res	sults				
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:		0LS	R-squared: Adj. R-squar F-statistic: Prob (F-stat Log-Likeliho AIC: BIC:	: tistic):	0. 14 8.19e -6.0 24		
=========	:======================================	coef	std err	t	P> t	[95.0% Conf.	Int.]
Intercept Length_of_word English_word Trade_Mark_Registe Trade_Mark_Registe Well_Known_Mark	ered_in_Singapore ered_in_other_Countries	-0.1950 0.0478 -0.0133 0.3292 ss 0.1672 0.4104	0.020 0.126 0.115 0.105	-1.017 2.416 -0.105 2.851 1.599 4.117	0.318 0.023 0.917 0.008 0.122 0.000	-0.589 0.007 -0.272 0.092 -0.047 0.206	0.198 0.088 0.245 0.566 0.382 0.615
Omnibus: Prob(Omnibus): Skew: Kurtosis: ==========		Durbin-Watso Jarque-Bera Prob(JB): Cond. No.		2.04 1.08 0.58 34.	37 31		

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified. The Accuracy of this Linear Regression Model is: 87.8787878788%

### (1) IDENTICAL/CONFUSING SIMILARITY: LOGIT

# LOGIT MODEL FOR EXACT SAME PARAMETERS: FAILED: ERROR! "PERFECT SEPARATION"

IDENTICAL\_CONFUSING\_SIMILARITY ~ LENGTH\_OF\_WORD +
ENGLISH\_WORD+TRADE\_MARK\_REGISTERED\_IN\_SINGAPORE
+ TRADE\_MARK\_REGISTERED\_IN\_OTHER\_COUNTRIES +
WELL\_KNOWN\_MARK

Current function value: 0.287542 Iterations 8

Logit Regression Results

Dep. Variable: Conclusion No. Observations: 33 Logit Df Residuals: 29 Model: Method: MLE Df Model: Mon, 03 Apr 2017 Date: Pseudo R-squ.: 0.4436 02:06:33 Log-Likelihood: Time: -9.4889LL-Null: converged: True -17.053LLR p-value: 0.001710

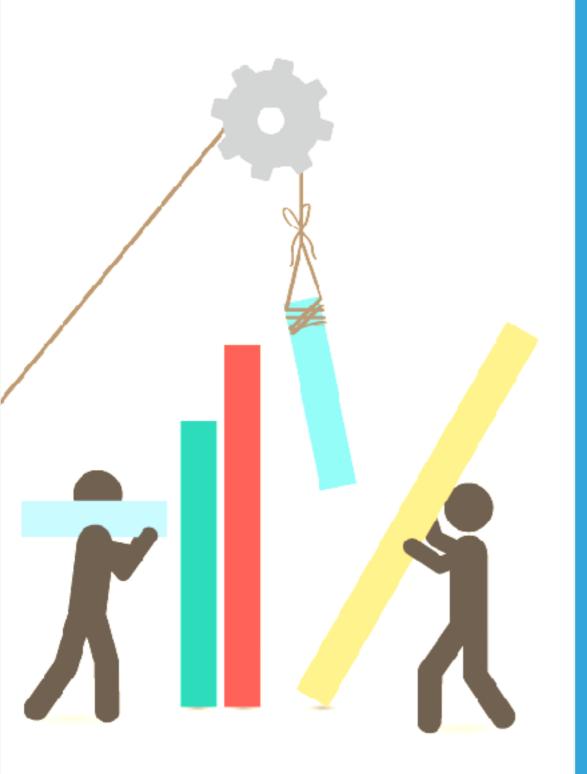
	coef	std err	Z	P> z	[95.0% Conf.	<pre>Int.]</pre>
Intercept	-0.9334	0.885	-1.055	0.292	-2.668	0.801
Trade_Mark_Registered_in_Singapore	0.7301	0.896	0.815	0.415	-1.026	2.486
Length_of_Trade_Mark_SG	0.3084	0.154	2.007	0.045	0.007	0.610
Well_Known_Mark	0.7573	0.846	0.895	0.371	-0.900	2.415

The Accuracy of this Logistic Regression Model is : 90.9090909091%

The Precision of this Logistic Regression Model is : 92.5925925926%

The Recall of this Logistic Regression Model is: 96.1538461538%
The F1 Score of this Logistic Regression Model is: 0.943396226415

.fi



# SUB-MODEL 2: RESPONDENT HAD LEGITIMATE USE OF DOMAIN NAME

**CHOICE OF VARIABLES** 

LINEAR MODEL

LOGISTIC MODEL

### (2) NO LEGITIMATE INTERESTS: VARIABLES TO CHOOSE FROM

### RESPONDENT NO LEGITIMATE INTERESTS IN DOMAIN NAME

**COMPLAINANT HAS PRIOR OWNERSHIP** 

**RESPONDENT'S GOODWILL?** 

RESPONDENT HAS BONA FIDE USAGE

**ABANDONMENT?** 

RESPONDENT USED DOMAIN NAME FAIRLY

KNOWN BY A SECTOR?

GROUP OF PERSONS W GOODWILL?

LOCALISED GOODWILL?

RESPONDENT'S USAGE OF DOMAIN NAME

0 - DID NOT USE / WEBSITE WAS BLANK / NOT MENTIONED

USED FOR SALE/RENT / ADVERTISEMENT

REDIRECT TO ANOTHER SITE / OWN SITE

LEGITIMATE USAGE

LENGTH OF USAGE

# (2) RESPONDENT HAD NO LEGITIMATE INTERESTS: LINEAR

t Showed								
	_Regist	rant_No_Legi	Least So Tue, 04 Apr 15:	0LS quares r 2017 :49:26 33 26 6	F-sta Prob	R-squared: tistic: (F-statistic):		0.469 0.347 3.828 0.00723 -23.336 60.67 71.15
	coef	std err	t	P>	t	[95.0% Conf.	Int.]	
own –	0.1582 0.2769 0.0707 0.0055 0.3785	0.223 0.294 0.301 0.301 0.301 0.235 0.255	1.647 0.539 0.920 -0.235 0.018 -1.609 -1.361	0.5 0.3 0.8 0.9	95 66 16 86 20	-0.091 -0.446 -0.342 -0.689 -0.613 -0.862 -0.871	0.824 0.762 0.896 0.548 0.624 0.105 0.177	
0.023 -0.905 4.017	Jarqu Prob Cond	ue-Bera (JB) (JB): . No.		5	.930			
	own -( -( -( -( -( -( -( -( -( -( -( -( -( -	coef  0.3665 0.1582 0.2769 -0.0707 0.0055 own -0.3785 -0.3470  7.523 Durb: 0.023 Jarqu -0.905 Prob 4.017 Cond	coef std err  0.3665 0.223 0.1582 0.294 0.2769 0.301 -0.0707 0.301 0.0055 0.301 own -0.3785 0.235 -0.3470 0.255  7.523 Durbin-Watson: 0.023 Jarque-Bera (JB) -0.905 Prob(JB): 4.017 Cond. No.	Least So Tue, 04 April 15:  coef std err t  0.3665 0.223 1.647 0.1582 0.294 0.539 0.2769 0.301 0.920 -0.0707 0.301 -0.235 0.0055 0.301 0.018 own -0.3785 0.235 -1.609 -0.3470 0.255 -1.361  7.523 Durbin-Watson: 0.023 Jarque-Bera (JB): -0.905 Prob(JB):	OLS Least Squares Tue, 04 Apr 2017 15:49:26 33 26 6 nonrobust  coef std err t P>   0.3665 0.223 1.647 0.1 0.1582 0.294 0.539 0.5 0.2769 0.301 0.920 0.3 -0.0707 0.301 -0.235 0.8 0.0055 0.301 0.018 0.9 0.0055 0.301 0.018 0.9 0.0070 0.3785 0.235 -1.609 0.1 -0.3470 0.255 -1.361 0.1  7.523 Durbin-Watson: 0.023 Jarque-Bera (JB): -0.905 Prob(JB): 0.4017 Cond. No.	OLS Adj. Least Squares F-sta Tue, 04 Apr 2017 Prob 15:49:26 Log-L 33 AIC: 26 BIC: 6 nonrobust  coef std err t P> t   0.3665 0.223 1.647 0.112 0.1582 0.294 0.539 0.595 0.2769 0.301 0.920 0.366 -0.0707 0.301 -0.235 0.816 0.0055 0.301 0.018 0.986 0.0055 0.301 0.018 0.986 own -0.3785 0.235 -1.609 0.120 -0.3470 0.255 -1.361 0.185  7.523 Durbin-Watson: 2.268 0.023 Jarque-Bera (JB): 5.930 -0.905 Prob(JB): 0.0516 4.017 Cond. No. 6.86	OLS Adj. R-squared: Least Squares F-statistic: Tue, 04 Apr 2017 Prob (F-statistic): 15:49:26 Log-Likelihood: 33 AIC: 26 BIC: 6 nonrobust     Coef std err t P   t   [95.0% Conf.     0.3665 0.223 1.647 0.112 -0.091     0.1582 0.294 0.539 0.595 -0.446     0.2769 0.301 0.920 0.366 -0.342     -0.0707 0.301 -0.235 0.816 -0.689     0.0055 0.301 0.018 0.986 -0.613     0wn -0.3785 0.235 -1.609 0.120 -0.862     -0.3470 0.255 -1.361 0.185 -0.871     7.523 Durbin-Watson: 2.268     0.023 Jarque-Bera (JB): 5.930     -0.905 Prob(JB): 0.0516     4.017 Cond. No. 6.86	OLS Adj. R-squared:

### (2) RESPONDENT HAD NO LEGITIMATE INTERESTS: LOGISTIC

### DATA RECALIBRATION FOR LOGIT

```
dataSet['Complainant_Showed_Registrant_No_Legitimate_Interests'] = dataSet["Complainant_Showed_Registrant_No_Legitimate_Interests"].map({-1:0, 0:0, 1:1})
dataSet['Respondent_Showed_Bona_Fide'] = dataSet["Respondent_Showed_Bona_Fide"].map({-1:0, 0:0, 1:1})
dataSet['Respondent_showed_fair_use'] = dataSet["Respondent_showed_fair_use"].map({-1:0, 0:0, 1:1})
dataSet['Usage_of_Domain_name'] = dataSet["Usage_of_Domain_name"].map({0:0, 1:0, 2:0, 3:1})
```

### LOGIT RESULTS

### Logit Regression Results

Dep. Variable: Complainant Showed Registrant No Legitimate Interests No. Observations: 33 Df Residuals: 28 Model: Logit Method: MLE Df Model: Tue, 04 Apr 2017 Pseudo R-squ.: 0.3991 Date: Time: 21:02:50 Log-Likelihood: -9.4021False LL-Null: -15.647converged: LLR p-value: 0.01406

	coef	std err	z	P> z	[95.0% Cor	nf. Int.]
Intercept	2.5382	0.887	2.862	0.004	0.800	4.276
Respondent_Showed_Bona_Fide	17.9918	1.91e+04	0.001	0.999	-3.75e+04	3.75e+04
Respondent_showed_fair_use	-64.5427	3.39e+09	-1.9e-08	1.000	-6.65e+09	6.65e+09
Usage_of_Domain_name	-0.8117	1.340	-0.606	0.545	-3.439	1.816
Complainant_Prior_ownership	-0.6001	1.332	-0.450	0.652	-3.211	2.011

The Accuracy of this Logistic Regression Model is: 87.8787878788%
The Precision of this Logistic Regression Model is: 86.6666666667%

The Recall of this Logistic Regression Model is: 100.0%

The F1 Score of this Logistic Regression Model is: 0.928571428571



# SUB-MODEL 3: REGISTERED / USED DOMAIN NAME IN BAD FAITH

**CHOICE OF VARIABLES** 

LINEAR MODEL

LOGISTIC MODEL

## (3) BAD FAITH: VARIABLES TO CHOOSE FROM

NO RESPONSE FROM RESPONDENT

RESPONDENT ATTEMPTED TO SELL DOMAIN NAME?

PRIOR COMMERCIAL RELATIONSHIP BETWEEN PARTIES?

EVIDENCE OF

**REGISTRATION FOR** 

### **VALUABLE CONSIDERATION**

TO PREVENT TRADEMARK OWNER USAGE

ATTRACTING CUSTOMERS FOR COMMERCIAL GAIN THROUGH LIKELIHOOD OF CONFUSION

TO DISRUPT THE BUSINESS OF THE TRADEMARK PROPRIETOR

**EVIDENCE OF BAD FAITH ON OTHER GROUNDS** 

# (3) BAD FAITH: LINEAR

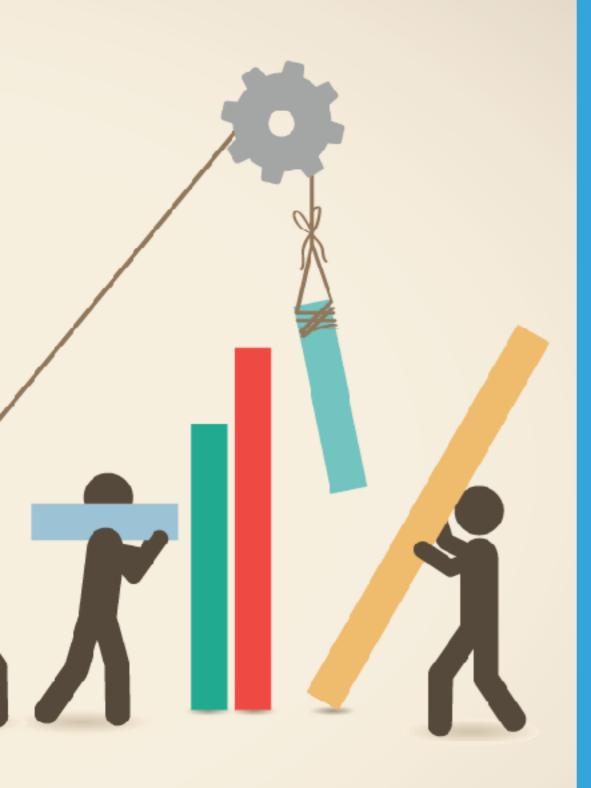
	OLS Regress:	ion Results							
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:		R-squared: Adj. R-squared: F-statistic: Prob (F-statistic): Log-Likelihood: AIC: BIC:	0.623 0.569 11.55 1.15e-05 -1.2237 12.45 19.93		The The The The The The	number of number of number of accuracy i precision recall is	true positive true negative false positive false negatives 0.96969696969696969696969696969696969696	ves is 6 ives is 1 ives is 0 59697 962963	
				coef	std err	t	P> t	[95.0% Conf.	Int.]
Intercept No_response_from_response_of_Attracting Evidence_of_bad_faith Respondent_Attempt_to	g_customers_for_co _on_other_grounds	nmercial_gain_through_1	likelihood_of_confusion	0.3521 0.1981 0.3848 0.1534 0.1175	0.084 0.103 0.084 0.104 0.092	1.921 4.580 1.566	0.000 0.065 0.000 0.129 0.212	0.191 -0.013 0.213 -0.050 -0.071	0.534 0.409 0.557 0.377 0.306
Omnibus: Prob(Omnibus): Skew: Kurtosis:	0.593 0.743 -0.114 2.341	Durbin-Watson: Jarque-Bera (JB): Prob(JB): Cond. No.	1.987 0.668 0.716 3.61						
The accuracy is 0.9696	96969697								

Logit Regression Results

# (3) REGISTERED/USED IN BAD FAITH (LOGIT)

Dep. Variable: Model: Method: Date: Time:	Conclusion Logit MLE Tue, 04 Apr 2017 21:56:34		33 28 4 0.9187 -1.3863					
converged:	False	LL-Null: LLR p-value:	-17.053 2.618e-06					
				coef	std err	z	P> z	[95.0% Conf. Int.]
	t_to_sell		_likelihood_of_confusion	-18.9637 18.9637 24.5944 44.4119 42.4848	6559.835 6559.836 1.55e+05 1.94e+05 1.28e+05	-0.003 0.003 0.000 0.000 0.000	0.998 0.998 1.000 1.000	-1.29e+04 1.28e+04 -1.28e+04 1.29e+04 -3.04e+05 3.04e+05 -3.8e+05 3.8e+05 -2.51e+05 2.51e+05

The number of true positives is 26
The number of true negatives is 6
The number of false positives is 1
The number of false negatives is 0
The accuracy is 0.969696969697
The precision is 0.962962962963
The recall is 1.0
The F1 score is 0.981132075472



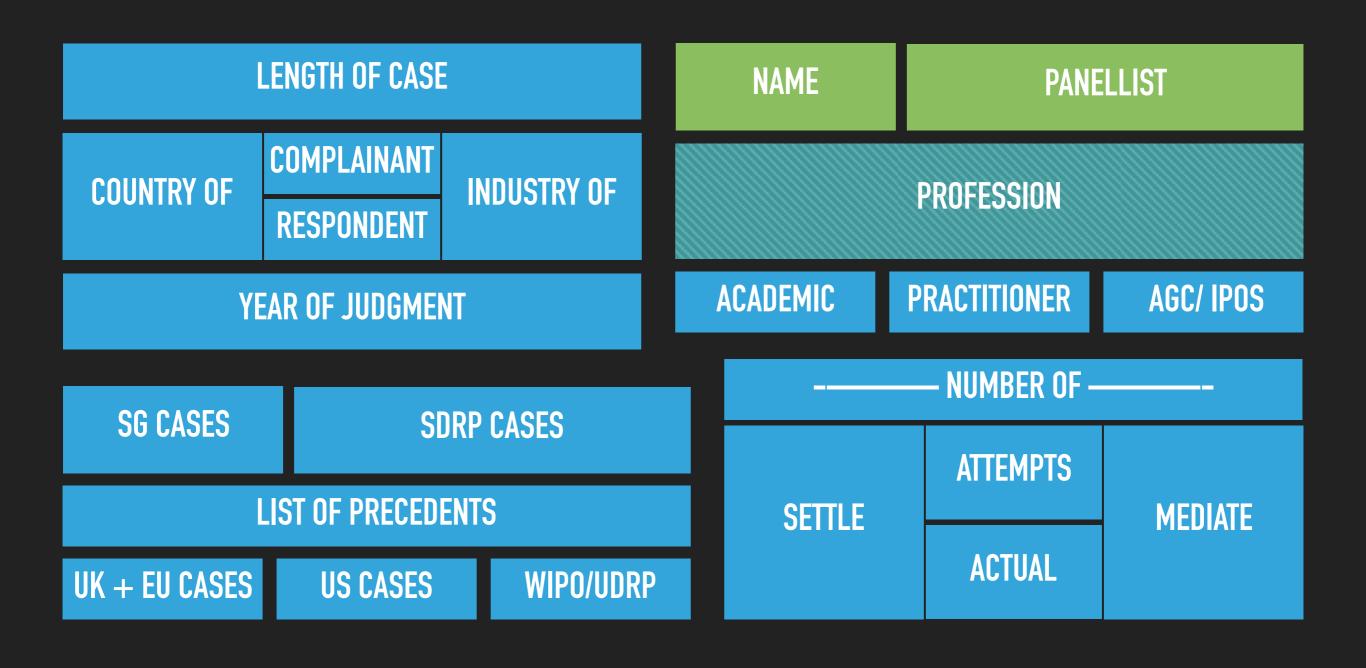
# GENERAL MODEL

MODEL A: CONCLUSION ~ GENERAL VARIABLES

MODEL B: CONCLUSION ~ ATTRIBUTES FROM EACH ELEMENT

MODEL C: CONCLUSION ~ GENERAL VARIABLES + ATTRIBUTES FROM EACH ELEMENT

### **GENERAL VARIABLES TO CHOOSE FROM**



# GENERAL MODEL A: CONCLUSION ~ PANELISTS (LINEAR)

	0LS	Regres	sion Re	esults			Panelist	
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Least So Tue, 04 Apr 13:	•	Adj. F-sta Prob	uared: R-squared: atistic: (F-statisti Likelihood:	.c):	0.402 0.043 1.119 0.398 -8.8323 43.66 63.12	Jim Lim Tan Tee Jim SC Stanley Lai SC Joyce A Tan Murgiana Haq David Llewelyn Phang Hsiao Chung Ng-Loy Wee Loon Daren Tang Heng Si Daniel Seng Jo-Ann See Richard Tan Jonathan Kok	1
			coef	std err	t	P> t	[95.0% Conf.	Int.]
Intercept Panelist[T.Daren Tang Panelist[T.David Llewer Panelist[T.Jim Lim] Panelist[T.Jo-Ann See] Panelist[T.Jonathan Kor Panelist[T.Joyce A Tan Panelist[T.Murgiana Har Panelist[T.Ng-Loy Wee Panelist[T.Phang Hsiad Panelist[T.Richard Tan Panelist[T.Stanley Lat Panelist[T.Tan Tee Jin	elyn] ok] n] aq] Loon] o Chung] n]	1 0 0 1 1 1 1 0 1	9e-15 .0000 .5000 .5000 .0000 .0000 .0000 .0000 .0000	0.406 0.574 0.497 0.439 0.574 0.574 0.454 0.469 0.574 0.497 0.574 0.445	7.73e-15 1.741 1.005 1.140 1.741 1.741 2.202 2.132 1.741 1.005 1.741 2.247 1.798	1.000 0.097 0.327 0.268 0.097 0.040 0.046 0.046 0.097 0.327 0.097 0.036 0.087	-0.847 -0.198 -0.538 -0.415 -0.198 -0.198 -0.053 0.022 -0.198 -0.538 -0.198 0.072 -0.128	0.847 2.198 1.538 1.415 2.198 2.198 1.947 1.978 2.198 1.538 2.198 1.538 2.198
Omnibus: Prob(Omnibus): Skew: Kurtosis:		1.972 0.373 0.460 3.155	Jarqu Prob	in-Watson: ue-Bera (JB) (JB): . No.	:	1.348 1.196 0.550 22.4		

# GENERAL MODEL A: CONCLUSION ~ PANELISTS TYPE (LINEAR)

	0LS	Regression	on Results				
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Least S Tue, 04 Ap 14	0LS A Squares F or 2017 F 4:35:30 L 33 A	R-squared: Adj. R-squar F-statistic: Prob (F-stat Log-Likeliho AIC: BIC:	istic):	0.084 0.023 1.377 0.268 -15.857 37.71 42.20	Panelist Type	26 4 3
		coef	std err	t	P> t	[95.0% Conf.	Int.1
Intercept Panelist_Type[T.Acade Panelist_Type[T.Prace		0.6667 -0.1667 0.1795	0.313	2.814 -0.532 0.717	0.009 0.599 0.479	0.183 -0.807 -0.331	1.150 0.473 0.690

# GENERAL MODEL A: CONCLUSION ~ GENERAL VARIABLES (LOG)

### Logit Regression Results Dep. Variable: Conclusion No. Observations: 33 Model: Df Residuals: 28 Logit Df Model: Method: MLE 4 Tue, 04 Apr 2017 0.1828 Date: Pseudo R-squ.: Log-Likelihood: Time: 13:20:39 -13.936LL-Null: converged: False -17.053LLR p-value: 0.1823 [95.0% Conf. Int.] std err coef P> | z | Z 2.28e+04 Intercept 1.16e + 040.002 0.999 -2.28e+04 19.4146 Panelist\_Type[T.Academic] -19.41461.16e + 040.999 -2.28e+04 2.28e+04 -0.002Panelist\_Type[T.Practitioner] -17.74061.16e+04 -0.0020.999 -2.28e+04 2.28e+04 Attempts\_to\_settle 0.1178 1.250 0.925 -2.3320.094 2.568 Mediation\_prior -24.6319 1.16e+04 -0.0020.998 -2.28e+04 2.28e+04

The number of true positives is 24
The number of true negatives is 3
The number of false positives is 4
The number of false negatives is 2
The accuracy is 0.818181818182
The precision is 0.857142857143
The recall is 0.923076923077
The F1 score is 0.88888888888

# GENERAL MODEL A: CONCLUSION ~ COUNTRIES (LINEAR)

Dep. Variable: Model:	Conclusion OLS	R-squared: Adj. R-squ	Jared:		0.602 0.321				
Method:	Least Squares	F-statist:			2.141			Country of	Respondent
Date:	Tue, 04 Apr 2017		tatistic):		0.0738			Singapore	19
Time:	22:25:05	Log-Likel:	thood:		-2.9403				
No. Observations:	30	AIC:			31.88			China	8
Df Residuals:	17	BIC:			50.10			Taiwan	1
Df Model:	12							Japan	1
Covariance Type:	nonrobust							India	1
		coef	std err	t	P> t	[95.0% Co	nf. Int.]		
Intercept		1.1536	0.401	2.880	0.010	0.308	1.999		
Country_of_Responde	nt[T.India]	-0.0768	0.267	-0.287	0.777	-0.641	0.487		
Country_of_Responde	nt[T.Japan]	-0.1536	0.535	-0.287	0.777	-1.282	0.975		
Country_of_Responde	nt[T.Singapore]	-0.1536	0.186	-0.824	0.421	-0.547	0.240		
Country_of_Responde	nt[T.Taiwan]	-1.0838	0.384	-2.822	0.012	-1.894	-0.274		
Country_of_Complain	ant[T.France]	2.268e-17	0.501	4.52e-17	1.000	-1.058	1.058	Country of	Complainant
Country_of_Complain	ant[T.Germany]	-0.1536	0.535	-0.287	0.777	-1.282	0.975	USA	14
Country_of_Complain	ant[T.India]	-0.0768	0.267	-0.287	0.777	-0.641	0.487	Singapore	9
Country_of_Complain	ant[T.Korea]	5.862e-16	0.501	1.17e-15	1.000	-1.058	1.058	China	2
Country_of_Complain	ant[T.Luxembourg]	1.327e-17	7.84e-17	0.169	0.868	-1.52e-16	1.79e-16		1
Country_of_Complain	ant[T.Singapore]	-0.5726	0.374	-1.530	0.144	-1.362	0.217	France	1
Country_of_Complain	ant[T.Switzerland]	-1.0000	0.501	-1.994	0.062	-2.058	0.058	Luxembourg	1
Country_of_Complain	ant[T.Turkey]	9.992e-16	0.501	1.99e-15	1.000	-1.058	1.058	India	1
Country_of_Complain	ant[T.UK]	-0.1536	0.535	-0.287	0.777	-1.282	0.975	Switzerland	1
Country_of_Complain	ant[T.USA]	-0.0698	0.380	-0.184	0.856	-0.871	0.732		1
Omnibus:	2.253	Durbin-Wat	:======= tson:		2.182			Germany	1
Prob(Omnibus):	0.324	Jarque-Bei			1.148			Korea	Ţ
Skew:	0.431	Prob(JB):	,-		0.563			Turkey	1
Kurtosis:	3.420	Cond. No.		6.	.83e+16				
	2.720								

### Warnings:

[2] The smallest eigenvalue is 1.12e-32. This might indicate that there are strong multicollinearity problems or that the design matrix is singular.

<sup>[1]</sup> Standard Errors assume that the covariance matrix of the errors is correctly specified.

# GENERAL MODEL A: CONCLUSION ~ COUNTRIES + CASES (LINEAR)

	OLS Regres	sion Resu	ilts				
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Conclusion OLS Least Squares Tue, 04 Apr 2017 14:45:35 30 17 12 nonrobust	F-stati Prob (F	-squared:		0.618 0.349 2.295 0.0574 -2.3051 30.61 48.83	Country of R Singapore China Taiwan Japan India	espondent 19 8 1 1
		coef	std err	t	P> t	[95.0% Co	onf. Int.]
Intercept Country_of_Responde Country_of_Responde Country_of_Responde Country_of_Responde Country_of_Responde Panelist_Type[T.Aca Panelist_Type[T.Pra No_response_from_re No_Cited_WIPO_UDRP_ No_Cited_US_Cases No_Cited_UK_EU_case No_Cited_SDRP_cases No_Cited_SG_Cases	ent[T.Japan] ent[T.Singapore] ent[T.Taiwan] edemic] ectitioner] espondent cases	0.6125 -0.0907 -0.2404 -0.2472 -2.9855 -0.3520 0.0901 0.3631 0.0203 0.1362 0.3320 -0.0078 -0.3712	0.306 0.389 0.426 0.223 1.040 0.364 0.240 0.193 0.018 0.094 0.132 0.080 0.187	2.000 -0.233 -0.564 -1.109 -2.870 -0.967 0.375 1.882 1.156 1.448 2.522 -0.097 -1.983	0.062 0.818 0.580 0.283 0.011 0.347 0.713 0.077 0.263 0.166 0.022 0.924 0.064	-0.034 -0.911 -1.139 -0.718 -5.181 -1.120 -0.417 -0.044 -0.017 -0.062 0.054 -0.176 -0.766	1.259 0.729 0.658 0.223 -0.790 0.416 0.597 0.770 0.057 0.335 0.610 0.161 0.024
Omnibus: Prob(Omnibus): Skew: Kurtosis:	0.419 0.811 -0.083 2.354	Jarque- Prob(JE			1.842 0.556 0.757 124.		

```
Dep. Variable:
                                                                         0.797
                           Conclusion
                                        R-squared:
Model:
                                                                         0.730
                                  OLS
                                        Adj. R-squared:
                        Least Squares
                                        F-statistic:
                                                                         11.79
Method:
                                                                                                                                                   59
                     Mon, 03 Apr 2017
                                        Prob (F-statistic):
Date:
                                                                      1.19e-06
                                                                                     Model 1: using "No Response from Respondent"
Time:
                             14:19:22
                                        Log-Likelihood:
                                                                        9.0164
                                                                      -0.03272
No. Observations:
                                   33
                                        AIC:
Df Residuals:
                                   24
                                        BIC:
                                                                         13.44
Df Model:
Covariance Type:
                            nonrobust
                                                                                                                     t
                                                                                                                            P>|t|
                                                                                                                                        [95.0% Conf. Int.]
                                                                                            coef
                                                                                                    std err
Intercept
                                                                                          0.0388
                                                                                                      0.125
                                                                                                                 0.310
                                                                                                                            0.759
                                                                                                                                         -0.220
                                                                                                                                                     0.297
No_response_from_respondent
                                                                                          0.1619
                                                                                                      0.096
                                                                                                                 1.685
                                                                                                                            0.105
                                                                                                                                         -0.036
                                                                                                                                                     0.360
Well_known_Foreign_Brand
                                                                                          0.3172
                                                                                                      0.087
                                                                                                                 3.648
                                                                                                                            0.001
                                                                                                                                          0.138
                                                                                                                                                    0.497
Usage of Domain name
                                                                                          0.0759
                                                                                                      0.040
                                                                                                                 1.877
                                                                                                                            0.073
                                                                                                                                         -0.008
                                                                                                                                                     0.159
                                                                                                                -2.191
Respondent_Showed_Bona_Fide
                                                                                         -0.1472
                                                                                                      0.067
                                                                                                                            0.038
                                                                                                                                         -0.286
                                                                                                                                                    -0.009
Evidence_of_Circumstances_of_registration_for_valuable_consideration
                                                                                          0.0761
                                                                                                                 1.162
                                                                                                                            0.257
                                                                                                                                         -0.059
                                                                                                                                                    0.211
                                                                                                      0.065
Evidence_of_Attracting_customers_for_commercial_gain_through_likelihood_of_confusion
                                                                                          0.3227
                                                                                                      0.069
                                                                                                                 4.691
                                                                                                                            0.000
                                                                                                                                          0.181
                                                                                                                                                    0.465
Evidence_of_bad_faith_on_other_grounds
                                                                                          0.1370
                                                                                                      0.084
                                                                                                                 1.631
                                                                                                                            0.116
                                                                                                                                         -0.036
                                                                                                                                                     0.310
Respondent_Attempt_to_sell
                                                                                          0.0035
                                                                                                      0.080
                                                                                                                 0.043
                                                                                                                            0.966
                                                                                                                                         -0.162
                                                                                                                                                     0.169
Omnibus:
                                1.117
                                        Durbin-Watson:
                                                                         2.135
                     GENERAL MODEL B: CONCLUSION ~ ELEMENTS (LINEAR)
Dep. Variable:
                           Conclusion
                                        R-squared:
                                                                         0.776
Model:
                                  0LS
                                        Adj. R-squared:
                                                                         0.702
                                        F-statistic:
Method:
                        Least Squares
                                                                         10.42
Date:
                     Mon, 03 Apr 2017
                                        Prob (F-statistic):
                                                                      3.54e-06
                                                                                     Model 2: using "Did_Respondent_Respond"
Time:
                             14:19:22
                                        Log-Likelihood:
                                                                        7.4151
No. Observations:
                                   33
                                        AIC:
                                                                         3.170
                                        BIC:
Df Residuals:
                                   24
                                                                         16.64
Df Model:
Covariance Type:
                            nonrobust
                                                                                                    std err
                                                                                                                     t
                                                                                                                            P>|t|
                                                                                                                                       [95.0% Conf. Int.]
                                                                                            coef
Intercept
                                                                                          0.1516
                                                                                                      0.120
                                                                                                                 1.264
                                                                                                                            0.218
                                                                                                                                         -0.096
                                                                                                                                                    0.399
Did Respondent Respond
                                                                                         -0.0532
                                                                                                      0.089
                                                                                                                -0.597
                                                                                                                            0.556
                                                                                                                                         -0.237
                                                                                                                                                    0.131
Well known Foreign Brand
                                                                                          0.3072
                                                                                                      0.092
                                                                                                                 3.350
                                                                                                                            0.003
                                                                                                                                          0.118
                                                                                                                                                    0.496
Usage of Domain name
                                                                                          0.0641
                                                                                                      0.043
                                                                                                                 1.488
                                                                                                                            0.150
                                                                                                                                         -0.025
                                                                                                                                                    0.153
Respondent Showed Bona Fide
                                                                                         -0.1794
                                                                                                      0.067
                                                                                                                -2.671
                                                                                                                            0.013
                                                                                                                                         -0.318
                                                                                                                                                    -0.041
                                                                                                                                                    0.219
Evidence of Circumstances of registration for valuable consideration
                                                                                          0.0776
                                                                                                      0.069
                                                                                                                 1.129
                                                                                                                            0.270
                                                                                                                                         -0.064
Evidence_of_Attracting_customers_for_commercial_gain_through likelihood of confusion
                                                                                                                            0.000
                                                                                          0.3240
                                                                                                      0.073
                                                                                                                 4.461
                                                                                                                                          0.174
                                                                                                                                                    0.474
Evidence of bad faith on other grounds
                                                                                          0.1526
                                                                                                      0.088
                                                                                                                 1.740
                                                                                                                            0.095
                                                                                                                                         -0.028
                                                                                                                                                    0.333
Respondent_Attempt_to_sell
                                                                                          0.0105
                                                                                                      0.084
                                                                                                                 0.124
                                                                                                                            0.902
                                                                                                                                         -0.163
                                                                                                                                                    0.184
Omnibus:
                                2.283
                                        Durbin-Watson:
                                                                         1.898
                                0.319
Prob(Omnibus):
                                        Jarque-Bera (JB):
                                                                         1.454
Skew:
                               -0.508
                                        Prob(JB):
                                                                         0.483
                                                                          8.42
Kurtosis:
                                3.158
                                        Cond. No.
```

## GENERAL MODEL B: CONCLUSION ~ ELEMENTS (LINEAR)

OLS Regression Results

0.749 R-squared: 0.665 Model: Adj. R-squared: Least Squares F-statistic: 8.940 Method: Sun, 02 Apr 2017 Prob (F-statistic): Date: 1.31e-05 Time: 16:32:50 Log-Likelihood: 5.4843 No. Observations: AIC: 7.031 Df Residuals: BIC: 20.50

8

nonrobust

Model 3 - Adding the Dummy Variable We Created: Percentage\_ of\_Similarity\_of\_Words

	coef	std err	t	P> t	[95.0% Conf	. Int.]
Intercept	0.2152	0.365	0.590	0.560	-0.537	0.968
No response from respondent	0.2015	0.099	2.034	0.053	-0.003	0.406
Well_known_Foreign_Brand	0.3292	0.100	3.278	0.003	0.122	0.537
Percentage_of_Similarity_of_Words	-0.0011	0.003	-0.305	0.763	-0.008	0.006
Length_of_usage	0.0246	0.024	1.023	0.316	-0.025	0.074
Evidence_of_Circumstances_of_registration_for_valuable_consideration	0.0782	0.072	1.080	0.291	-0.071	0.227
Evidence_of_Attracting_customers_for_commercial_gain_through_likelihood_of_confusion	0.3450	0.076	4.525	0.000	0.188	0.502
Evidence_of_bad_fath_on_other_grounds	0.1851	0.097	1.900	0.069	-0.016	0.386
Respondent_Attempt_to_sell	0.0382	0.093	0.413	0.683	-0.153	0.229

 Omnibus:
 0.863
 Durbin-Watson:
 2.158

 Prob(Omnibus):
 0.650
 Jarque-Bera (JB):
 0.783

 Skew:
 0.073
 Prob(JB):
 0.676

 Kurtosis:
 2.260
 Cond. No.
 842.

Warnings

Df Model:

Covariance Type:

<sup>[1]</sup> Standard Errors assume that the covariance matrix of the errors is correctly specified. The Accuracy of this Linear Regression Model is : 100.0%

nonrobust

Covariance Type:

## GENERAL MODEL C: CONCLUSION ~ GENERAL + ELEMENTS (LINEAR)

### OLS Regression Results

Dep. Variable:	Conclusion	R-squared:	0.925
Model:	0LS	Adj. R-squared:	0.782
Method:	Least Squares	F-statistic:	6.453
Date:	Wed, 05 Apr 2017	Prob (F-statistic):	0.00141
Time:	12:06:44	Log-Likelihood:	25.416
No. Observations:	33	AIC:	-6.831
Df Residuals:	11	BIC:	26.09
Df Model:	21		

The number of true positives is 26
The number of true negatives is 7
The number of false positives is 0
The number of false negatives is 0
The accuracy is 1.0
The precision is 1.0
The recall is 1.0
The F1 score is 1.0

	coef	std err	t	P> t	[95.0% Conf. ]	Int.l
Intercept	0.1875	0.322	0.583	0.572	-0.520	0.895
Panelist[T.Daren Tang Heng Shim]	0.1149	0.411	0.279	0.785	-0.790	1.020
Panelist[T.David Llewelyn]	-0.1171	0.330	-0.354	0.730	-0.844	0.610
Panelist[T.Jim Lim]	-0.1212	0.231	-0.432	0.674	-0.739	0.496
Panelist[T.Jo-Ann See]	0.1580	0.355	0.445	0.665	-0.624	0.940
Panelist[T.Jonathan Kok]	-0.0763	0.346	-0.220	0.830	-0.839	0.686
Panelist[T.Joyce A Tan]	0.1324	0.329	0.402	0.695	-0.592	0.857
Panelist[T.Murgiana Haq]	-0.0157	0.355	-0.044	0.966	-0.796	0.765
Panelist[T.Ng-Loy Wee Loon]	-0.0731	0.395	-0.185	0.857	-0.943	0.797
Panelist[T.Phang Hsiao Chung]	0.6077	0.409	1.487	0.165	-0.292	1.507
Panelist[T.Richard Tan]	-0.0763	0.346	-0.220	0.830	-0.839	0.686
Panelist[T.Stanley Lai SC]	0.1813	0.307	0.591	0.566	-0.494	0.856
Panelist[T.Tan Tee Jim SC]	0.2554	0.298	0.358	0.409	-0.400	0.910
Attempts_to_settle	-0.2000	0.125	-1.502	0.137	-0.475	0.075
Mediation_prior	-0.9859	0.391	-2.523	0.028	-1.846 -6	0.126
No_response_from_respondent	0.0821	0.126	0.553	0.527	-0.195	0.359
Well_known_Foreign_Brand	0.3818	0.108	3.546	0.005	0.145	0.619
Usage_of_Domain_name	0.0729	0.144	0.506	0.623	-0.244	0.390
Respondent_Showed_Bona_Fide	-0.1383	0.177	-0.782	0.451	-0.528	0.251
Evidence_of_Circumstances_of_registration_for_valuable_consideration	0.1905	0.104	1.832	0.094	-0.038	0.420
Evidence_of_Attracting_customers_for_commercial_gain_through_likelihood_of_confusion	0.3132	0.035	3.703	0.003	0.127	0.499
Evidence_of_bad_faith_on_other_grounds	0.1117	0.123	0.910	0.382	-0.158	0.382

nonrobust

Covariance Type:

### GENERAL MODEL C: CONCLUSION ~ GENERAL + ELEMENTS (LINEAR)

### OLS Regression Results

Dep. Variable: Conclusion R-squared: 0.971 Model: 0LS Adj. R-squared: 0.868 Method: Least Squares F-statistic: 9.435 Date: Tue, 04 Apr 2017 Prob (F-statistic): 0.00258 Time: 22:44:10 41,213 Log-Likelihood: No. Observations: 33 AIC: -30.43Df Residuals: 7 BIC: 8.482 Df Model: 25

The number of true positives is 26 The number of true negatives is 7 The number of false positives is 0 The number of false negatives is 0 The accuracy is 1.0 The precision is 1.0 The recall is 1.0 The F1 score is 1.0

	coef	std err	t	P> t	[95.0% Conf.	Int.]
Intercept	-0.0112	0.260	-0.043	0.967	-0.625	0.603
Panelist[T.Daren Tang Heng Shim]	0.1527	0.344	0.444	0.671	-0.661	0.967
Panelist[T.David Llewelyn]	0.0729	0.266	0.274	0.792	-0.557	0.703
Panelist [T.Jim Lim]	0.0347	0.224	0.155	0.881	-0.494	0.564
Panelist[T.Jo-Ann See]	0.2464	0.279	0.884	0.406	-0.413	0.905
Panelist[T.Jonathan Kok]	-0.0517	0.277	-0.186	0.857	-0.703	0.604
Panelist[T.Joyce A Tan]	0.0931	0.306	0.305	0.770	-0.630	0.816
Panelist[T.Murgiana Haq]	0.2073	0.279	0.743	0.482	-0.452	0.867
Panelist[T.Ng-Loy Wee Loon]	0.1721	0.315	0.545	0.602	-0.574	0.918
Panelist[T.Phang Hsiao Chung]	0.4403	0.386	1.140	0.292	-0.473	1.354
Panelist[T.Richard Tan]	0.0657	0.334	0.197	0.849	-0.723	0.854
Panelist[T.Stanley Lai SC]	0.2927	0.252	1.162	0.283	-0.303	0.888
Panelist[T.Tan Tee Jim SC]	0.2949	0.247	1.196	0.270	-0.283	0.878
Usage_of_Domain_name[T.1]	0.2082	0.118	1.767	0.121	-0.070	0.487
Usage_of_Domain_name[T.2]	0.1174	0.156	0.752	0.477	-0.252	0.487
Usage_of_Domain_name[T.3]	0.1380	0.124	1.116	0.301	-0.154	0.430
Attempts_to_settle	-0.4245	0.154	-2.749	0.029		-0.059
Number_of_settle_attempts	0.3021	0.142	2.128	0.071	-0.034	0.638
Mediation_prior	-0.7323	0.533	-1.375	0.212	-1.992	0.527
Mediaiton_Prior_attempts	-0.0047	0.250	-0.019	0.985	-0.596	0.586
No_response_from_respondent	0.0060	0.111	0.054	0.959	-0.256	0.268
Well_known_Foreign_Brand	0.3602	0.092	3.935	0.006	0.144	0.577
Respondent_Showed_Bona_Fide	-0.1254	0.086	-1.457	0.189	-0.329	0.078
Evidence_of_Circumstances_of_registration_for_valuable_consideration	0.0651	0.107	0.608	0.562	-0.183	0.318
Evidence_of_Attracting_customers_for_commerdial_gain_through_likelihood_of_confusion	0.2964	0.079	3.734	0.007	0.109	0.484
Evidence_of_bad_faith_on_other_grounds	0.1575	0.101	1.561	0.163	-0.081	0.396

# CONCLUSION

3 CUMULATIVE ELEMENTS - ALL MATTER

WELL-KNOWN FOREIGN BRAND

REGISTERING FOR COMMERCIAL GAIN THROUGH CONFUSION

**MEDIATION PRIOR** 

ATTEMPTS TO SETTLE