Trend Lines Model

A linear trend model is computed for natural log of count of Change Date+Time given distinct count of Owner First Name. The model may be significant at p <= 0.05. The factor Prod_internationalization may be significant at p <= 0.05.

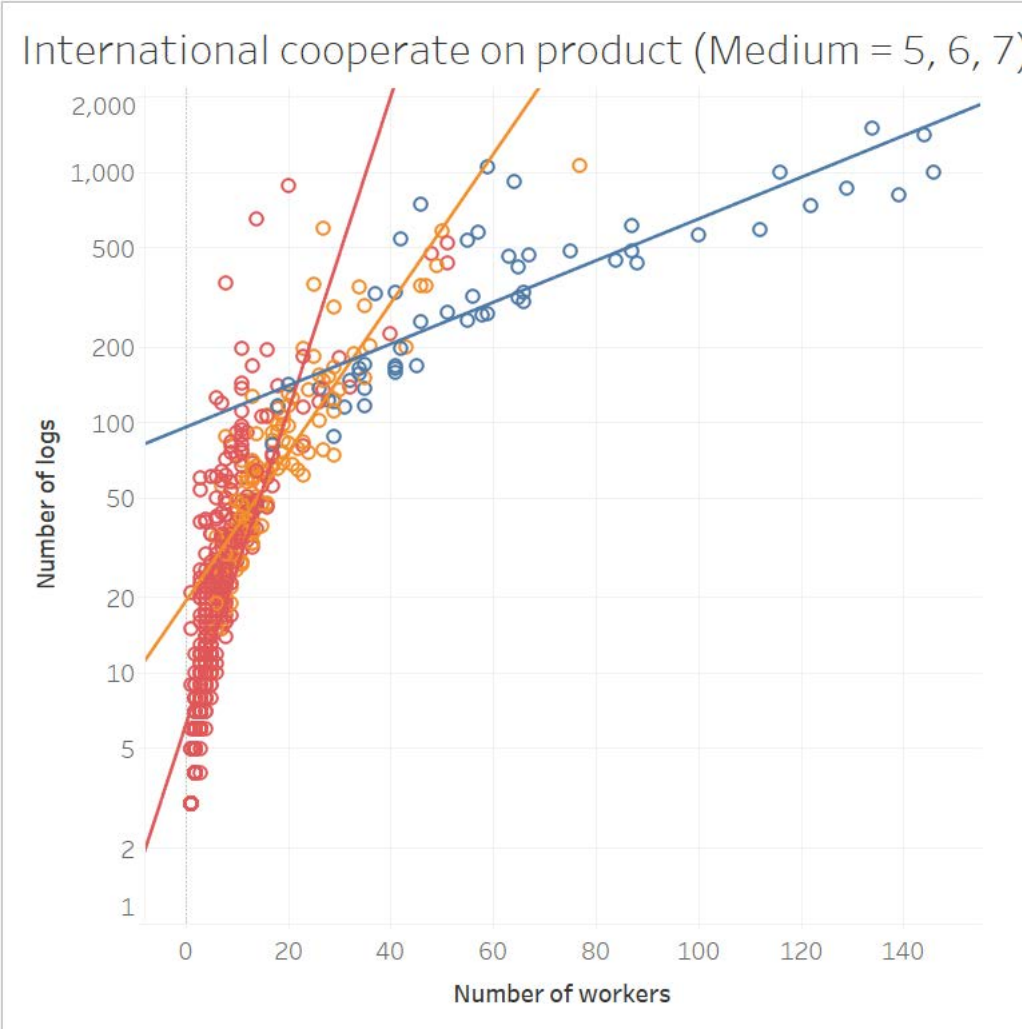
Model formula:	Prod_internationalization*(Distinct count of Owner First Name + intercept)
Number of modeled observations:	700
Number of filtered observations:	0
Model degrees of freedom:	6
Residual degrees of freedom (DF):	694
SSE (sum squared error):	255.216
MSE (mean squared error):	0.367746
R-Squared:	0.807988
Standard error:	0.606421
p-value (significance):	< 0.0001

Analysis of Variance:

Field	DF	SSE	MSE	F	p-value
Prod_internationalization	4	300.6545	75.1636	204.39	< 0.0001

Individual trend lines:

Panes		Color	Line		Coefficients				
Row	Column	Prod_internationalization	p-value	DF	Term	Value	StdErr	t-value	p-value
Count of Change Date +Time	Distinct count of Owner First Name	Medium	< 0.0001	128	Distinct count of Owner First Name	0.0685716	0.003405	20.1383	< 0.0001
					intercept	2.95749	0.0689407	42.8991	< 0.0001
Count of Change Date +Time	Distinct count of Owner First Name	Low	< 0.0001	514	Distinct count of Owner First Name	0.144577	0.005069	28.5216	< 0.0001
					intercept	1.81156	0.0406492	44.5658	< 0.0001
Count of Change Date +Time	Distinct count of Owner First Name	High	< 0.0001	52	Distinct count of Owner First Name	0.0191535	0.001748	10.9574	< 0.0001
					intercept	4.56327	0.123073	37.0776	< 0.0001


International cooperate on product (Medium = 5, 6, 7)
2,000
1,000
500
200
100
50
20
10
5
2
1
Number of logs
0
20
40
60
80
100
120
140
Number of workers

Trend Lines Model

A linear trend model is computed for count of Change Date+Time given distinct count of Owner First Name1. The model may be significant at p <= 0.05. The factor SR Latest Impact1 may be significant at p <= 0.05.

Model formula: SR Latest Impact1*(Distinct count of Owner First Name1 + intercept)
Number of modeled observations: 7551
Number of filtered observations: 0
Model degrees of freedom: 6
Residual degrees of freedom (DF): 7545
SSE (sum squared error): 93809.3
MSE (mean squared error): 12.4333
R-Squared: 0.786353
Standard error: 3.52609
p-value (significance): < 0.0001

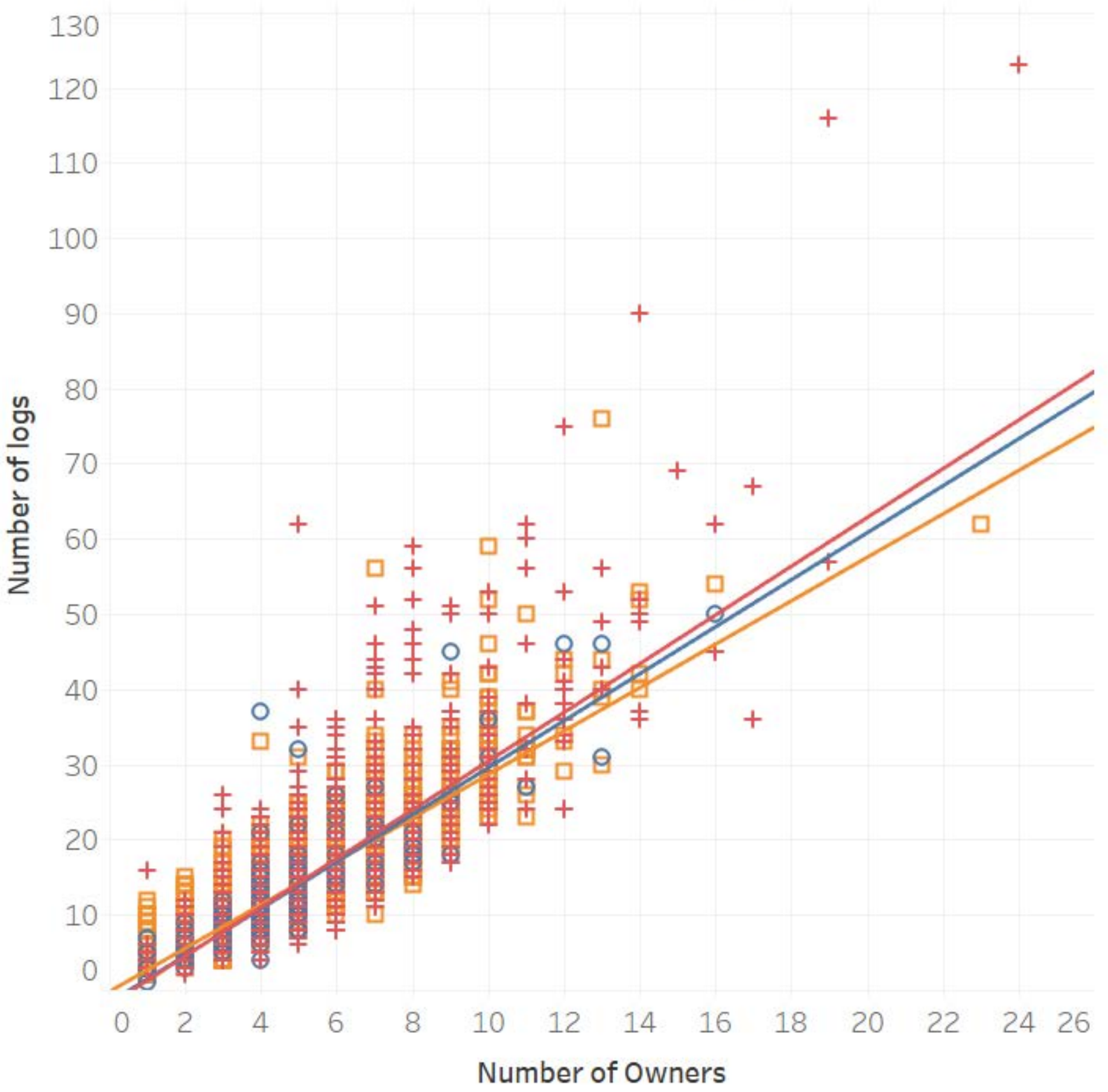
Analysis of Variance:

Field	DF	SSE	MSE	F	p-value
SR Latest Impact1	4	1843.7478	460.937	37.0728	< 0.0001

Individual trend lines:

Panes		Color	Line		Coefficients				
Row	Column	SR Latest Impact1	p-value	DF	Term	Value	StdErr	t-value	p-value
Count of Change Date +Time	Distinct count of Owner First Name1	Low	< 0.0001	3243	Distinct count of Owner First Name1	2.88684	0.0221933	130.077	< 0.0001
					intercept	-0.239681	0.0847191	-2.82913	0.0046962
Count of Change Date +Time	Distinct count of Owner First Name1	High	< 0.0001	259	Distinct count of Owner First Name1	3.12277	0.10594	29.4767	< 0.0001
					intercept	-1.6887	0.466462	-3.62023	0.000354
Count of Change Date +Time	Distinct count of Owner First Name1	Medium	< 0.0001	4043	Distinct count of Owner First Name1	3.23926	0.0292652	110.687	< 0.0001
					intercept	-1.98792	0.114352	-17.3842	< 0.0001

Dealing incident with different impact



Trend Lines Model

A linear trend model is computed for count of Change Date+Time given distinct count of SR Number1. The model may be significant at p <= 0.05. The factor Owner Country1 may be significant at p <= 0.05.

Model formula: Owner Country1*(Distinct count of SR Number1 + intercept)
Number of modeled observations: 1483
Number of filtered observations: 0
Model degrees of freedom: 16
Residual degrees of freedom (DF): 1467
SSE (sum squared error): 423250
MSE (mean squared error): 288.514
R-Squared: 0.955993
Standard error: 16.9857
p-value (significance): < 0.0001

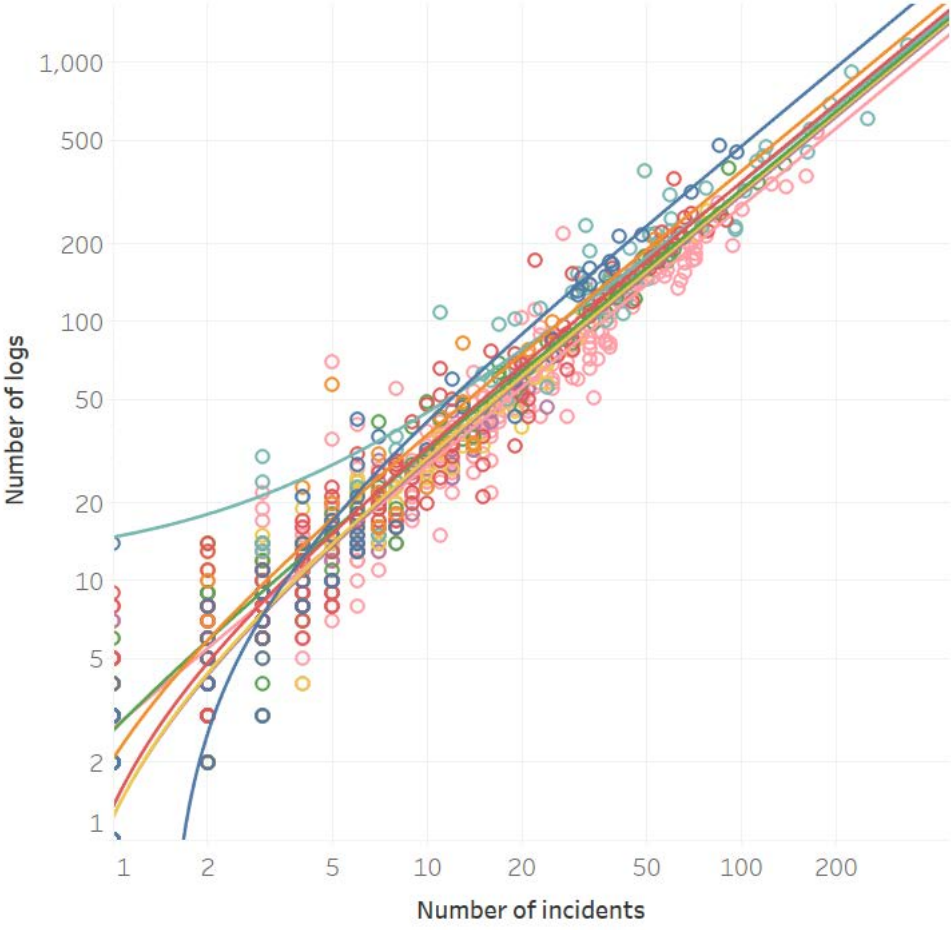
Analysis of Variance:

Field	DF	SSE	MSE	F	p-value
Owner Country1	14	174937.46	12495.5	43.31	< 0.0001

Individual trend lines:

Panes		Color	Line		Coefficients				
Row	Column	Owner Country1	p-value	DF	Term	Value	StdErr	t-value	p-value
Count of Change Date +Time	Distinct count of SR Number1	Sweden	< 0.0001	590	Distinct count of SR Number1	2.78578	0.0244805	113.796	< 0.0001
					intercept	-0.0929369	0.581623	-0.159789	0.873102
Count of Change Date +Time	Distinct count of SR Number1	France	< 0.0001	137	Distinct count of SR Number1	3.09319	0.0628494	49.2159	< 0.0001
					intercept	-1.87096	0.512424	-3.65119	0.0003704
Count of Change Date +Time	Distinct count of SR Number1	USA	< 0.0001	153	Distinct count of SR Number1	3.16705	0.0273238	115.908	< 0.0001
					intercept	-1.95175	0.472284	-4.13257	< 0.0001
Count of Change Date +Time	Distinct count of SR Number1	Brazil	< 0.0001	125	Distinct count of SR Number1	3.23762	0.0462913	69.94	< 0.0001
					intercept	-0.603301	1.29586	-0.465561	0.64234
Count of Change Date +Time	Distinct count of SR Number1	POLAND	< 0.0001	90	Distinct count of SR Number1	3.32369	0.0904927	36.7288	< 0.0001
					intercept	11.4063	6.37408	1.78948	0.0769012
Count of Change Date +Time	Distinct count of SR Number1	INDIA	< 0.0001	243	Distinct count of SR Number1	3.47328	0.0620781	55.9502	< 0.0001
					intercept	-2.13496	1.12323	-1.90073	0.0585214
Count of Change Date +Time	Distinct count of SR Number1	China	< 0.0001	39	Distinct count of SR Number1	3.82646	0.174268	21.9573	< 0.0001
					intercept	-1.77374	2.12652	-0.834102	0.409303
Count of Change Date +Time	Distinct count of SR Number1	Belgium	< 0.0001	90	Distinct count of SR Number1	4.81957	0.0759269	63.4765	< 0.0001
					intercept	-7.08415	1.53991	-4.60038	< 0.0001

Working effeciency of workers from different countries



Trend Lines Model

A linear trend model is computed for natural log of count of Change Date+Time given distinct count of Owner First Name. The model may be significant at p <= 0.05. The factor Calculation2 may be significant at p <= 0.05.

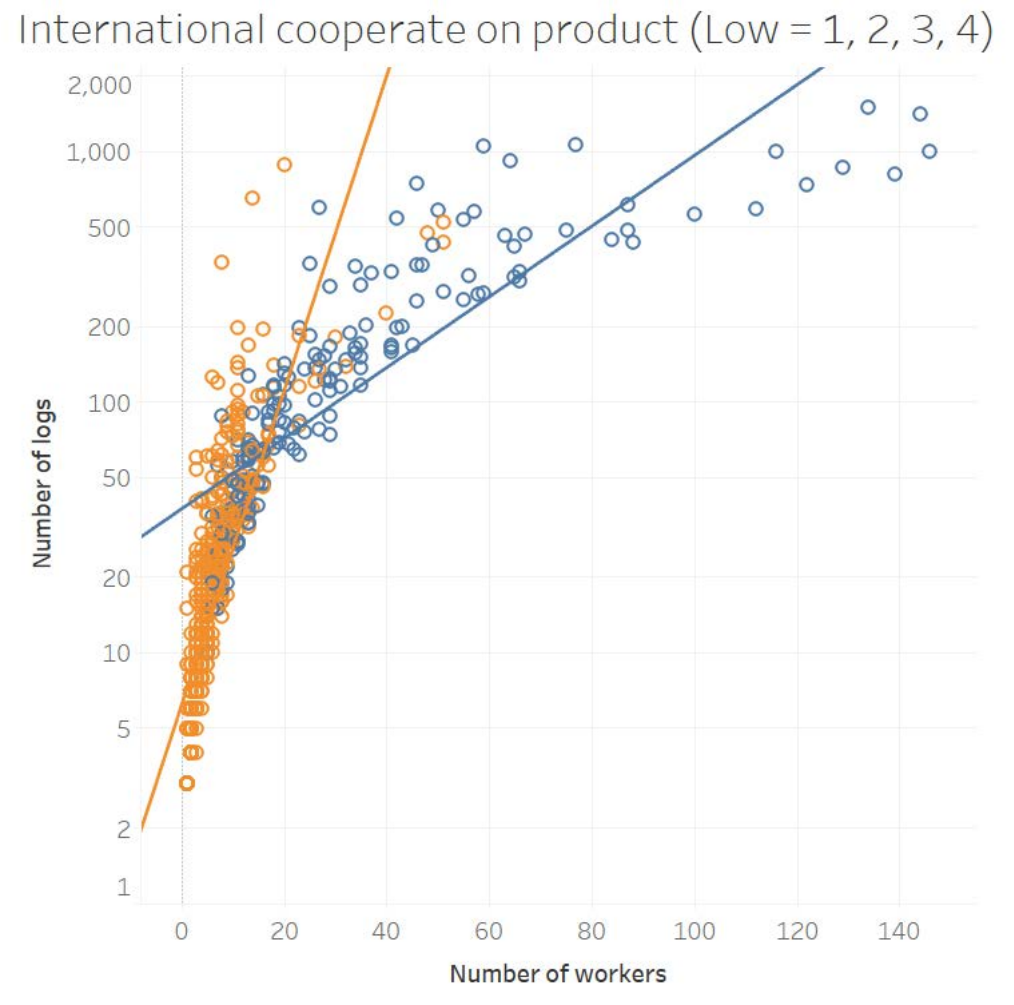
Model formula: Calculation2*(Distinct count of Owner First Name + intercept)
Number of modeled observations: 700
Number of filtered observations: 0
Model degrees of freedom: 4
Residual degrees of freedom (DF): 696
SSE (sum squared error): 288.475
MSE (mean squared error): 0.414475
R-Squared: 0.782966
Standard error: 0.643797
p-value (significance): < 0.0001

Analysis of Variance:

Field	DF	SSE	MSE	F	p-value
Calculation2	2	267.39581	133.698	322.572	< 0.0001

Individual trend lines:

Panes		Color	Line		Coefficients				
Row	Column	Calculation2	p-value	DF	Term	Value	StdErr	t-value	p-value
Count of Change Date +Time	Distinct count of Owner First Name	High	< 0.0001	182	Distinct count of Owner First Name	0.0324747	0.001538	21.1146	< 0.0001
					intercept	3.62262	0.064239	56.3929	< 0.0001
Count of Change Date +Time	Distinct count of Owner First Name	Low	< 0.0001	514	Distinct count of Owner First Name	0.144577	0.005069	28.5216	< 0.0001
					intercept	1.81156	0.0406492	44.5658	< 0.0001


International cooperate on product (Low = 1, 2, 3, 4)
2,000
1,000
500
200
100
50
20
10
5
2
1
Number of logs
0
20
40
60
80
100
120
140
Number of workers

Trend Lines Model

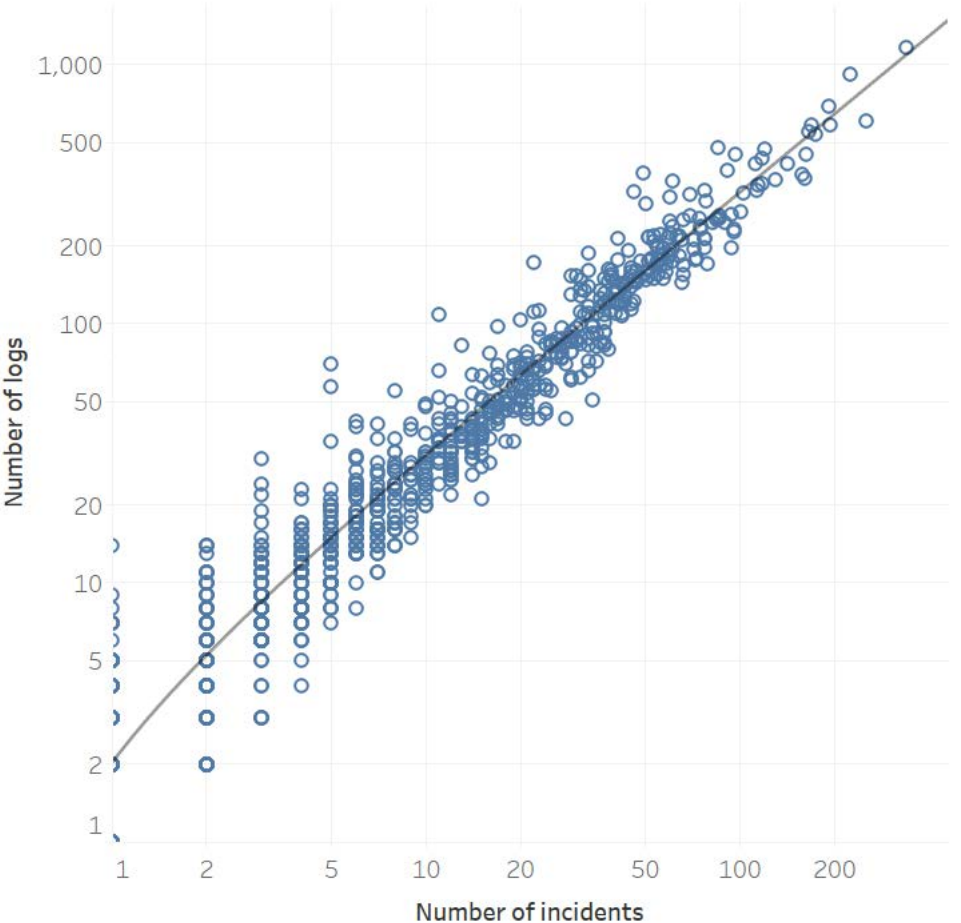
A linear trend model is computed for count of Change Date+Time given distinct count of SR Number1. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of SR Number1 + intercept)
Number of modeled observations:	1310
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	1308
SSE (sum squared error):	616550
MSE (mean squared error):	471.369
R-Squared:	0.939194
Standard error:	21.711
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	**Column**	**p-value**	**DF**	**Term**	**Value**	**StdErr**	**t-value**	**p-value**
Count of Change Date +Time	Distinct count of SR Number1	< 0.0001	1308	Distinct count of SR Number1	3.23455	0.0227565	142.138	< 0.0001
				intercept	-1.21706	0.675345	-1.80213	0.0717555

Working effeciency of workers



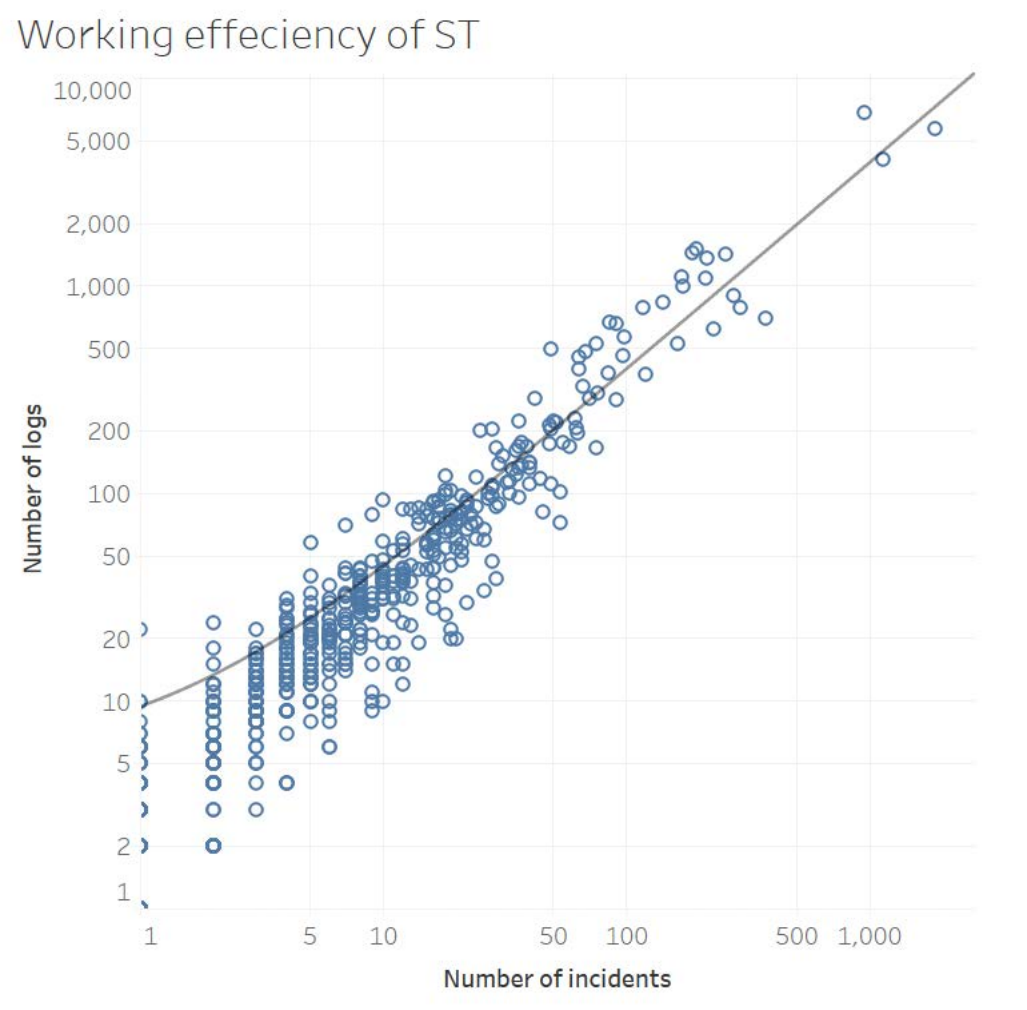
Trend Lines Model

A linear trend model is computed for count of Change Date+Time given distinct count of SR Number1. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of SR Number1 + intercept)
Number of modeled observations:	636
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	634
SSE (sum squared error):	1.56695e+07
MSE (mean squared error):	24715.4
R-Squared:	0.859625
Standard error:	157.211
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	**Column**	**p-value**	**DF**	**Term**	**Value**	**StdErr**	**t-value**	**p-value**
Count of Change Date +Time	Distinct count of SR Number1	< 0.0001	634	Distinct count of SR Number1	3.94365	0.0632915	62.3094	< 0.0001
				intercept	5.47007	6.37409	0.858172	0.391122


Working effeciency of ST
10,000
5,000
2,000
1,000
500
200
100
50
20
10
5
2
1
Number of logs
1
5
10
50
100
500
1,000
Number of incidents

Trend Lines Model

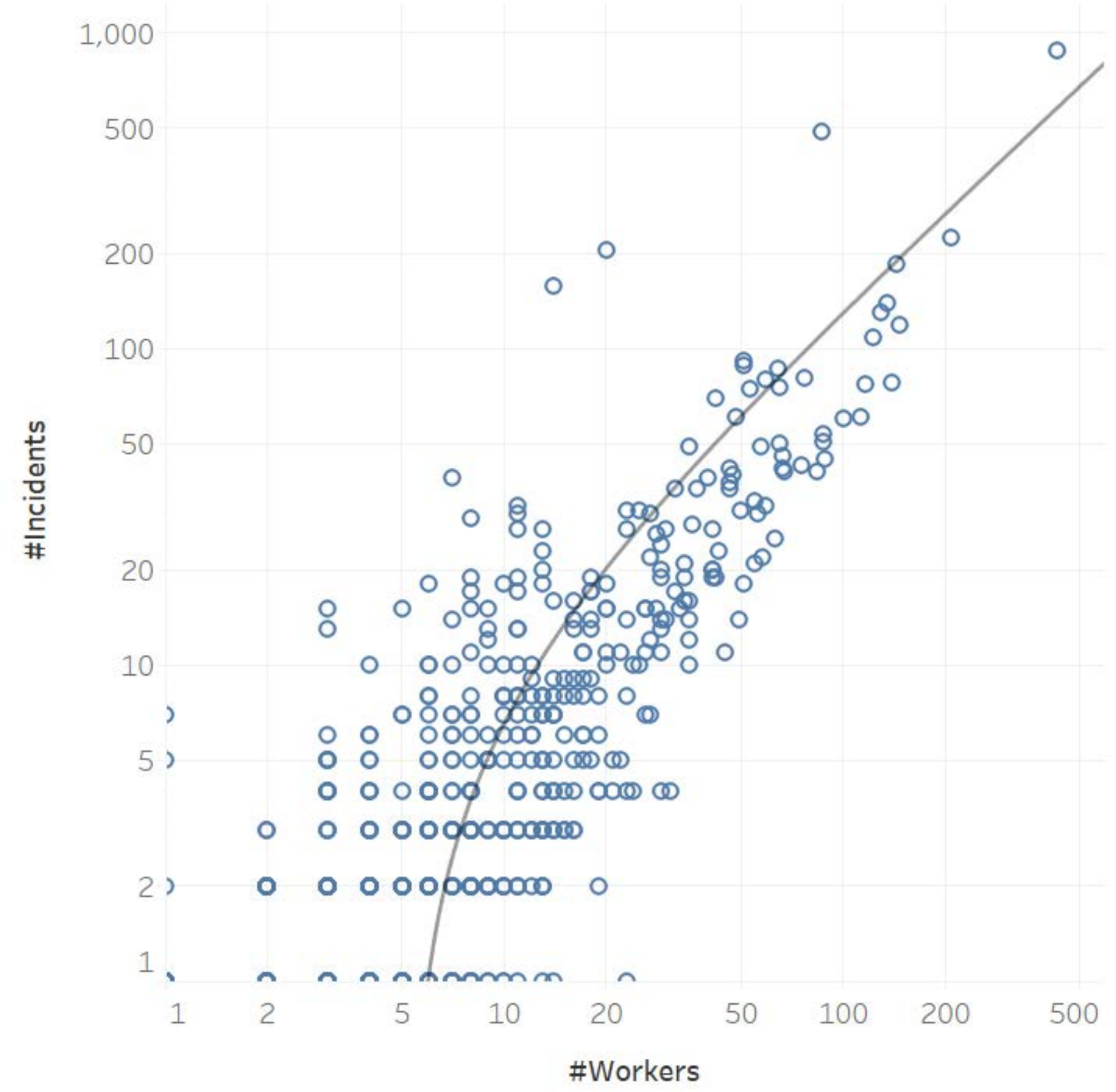
A linear trend model is computed for distinct count of SR Number given distinct count of Owner First Name. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of Owner First Name + intercept)
Number of modeled observations:	704
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	702
SSE (sum squared error):	417156
MSE (mean squared error):	594.24
R-Squared:	0.678809
Standard error:	24.377
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	**Column**	**p-value**	**DF**	**Term**	**Value**	**StdErr**	**t-value**	**p-value**
Distinct count of SR Number	Distinct count of Owner First Name	< 0.0001	702	Distinct count of Owner First Name	1.36817	0.0355204	38.5178	< 0.0001
				intercept	-7.1532	1.02939	-6.94894	< 0.0001

Products on #incidents and #workers



Trend Lines Model

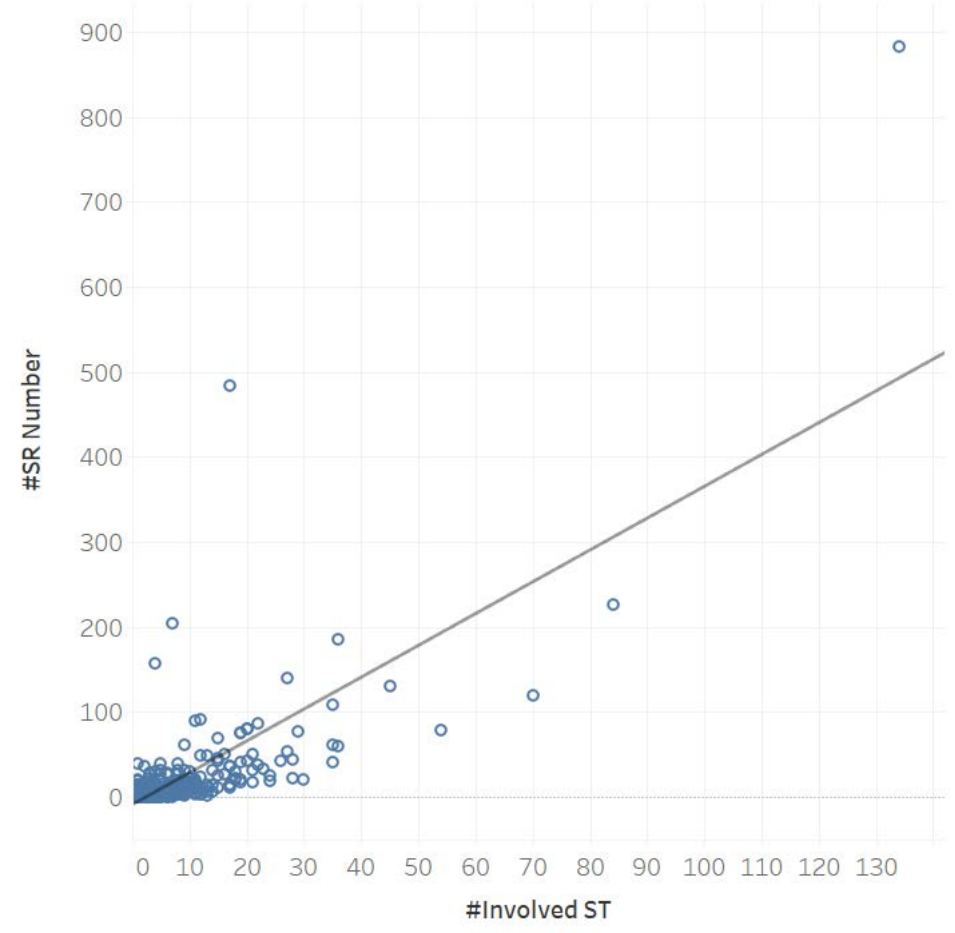
A linear trend model is computed for distinct count of SR Number given distinct count of Involved ST. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of Involved ST + intercept)
Number of modeled observations:	704
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	702
SSE (sum squared error):	568565
MSE (mean squared error):	809.922
R-Squared:	0.562231
Standard error:	28.4591
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	Column	p-value	DF	Term	Value	StdErr	t-value	p-value
Distinct count of SR Number	Distinct count of Involved ST	< 0.0001	702	Distinct count of Involved ST	3.74202	0.124624	30.0264	< 0.0001
				intercept	-8.83575	1.25502	-7.04034	< 0.0001

Products' #incidents & #ST



Trend Lines Model

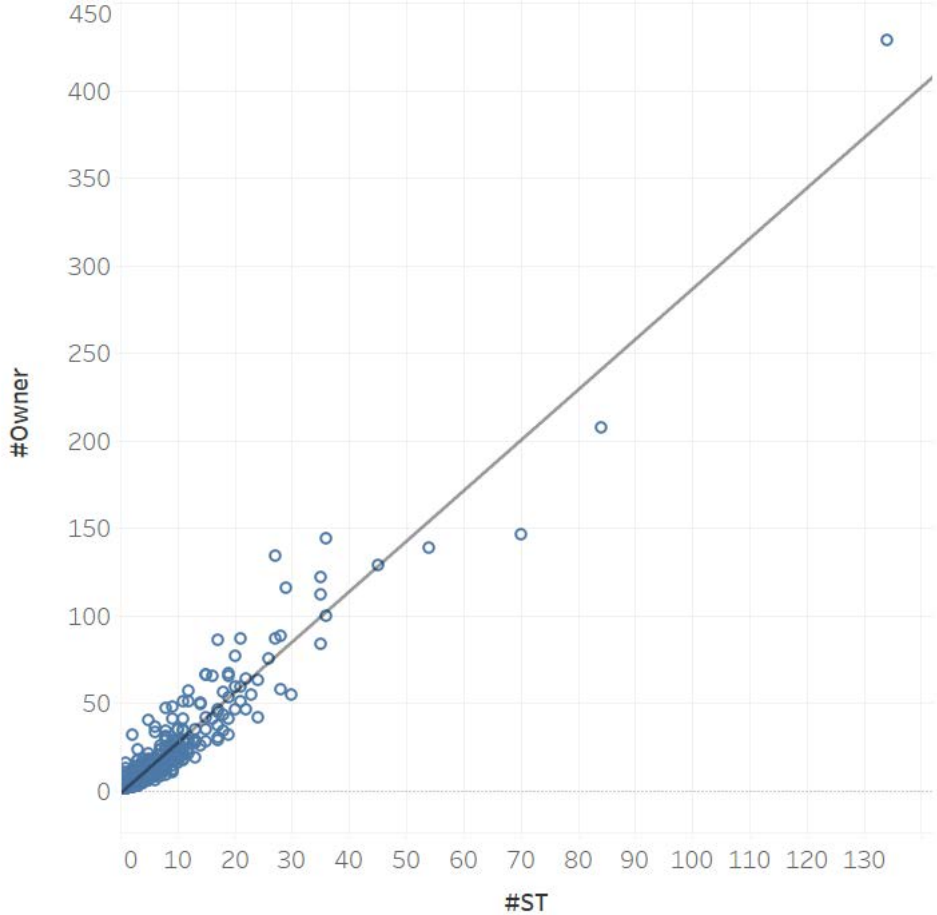
A linear trend model is computed for distinct count of Owner First Name given distinct count of Involved ST. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of Involved ST + intercept)
Number of modeled observations:	704
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	702
SSE (sum squared error):	37790.8
MSE (mean squared error):	53.8331
R-Squared:	0.919762
Standard error:	7.3371
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	Column	p-value	DF	Term	Value	StdErr	t-value	p-value
Distinct count of Owner First Name	Distinct count of Involved ST	< 0.0001	702	Distinct count of Involved ST	2.88218	0.0321296	89.705	< 0.0001
				intercept	-1.99902	0.323558	-6.17825	< 0.0001

Products' #owners & #ST



Trend Lines Model

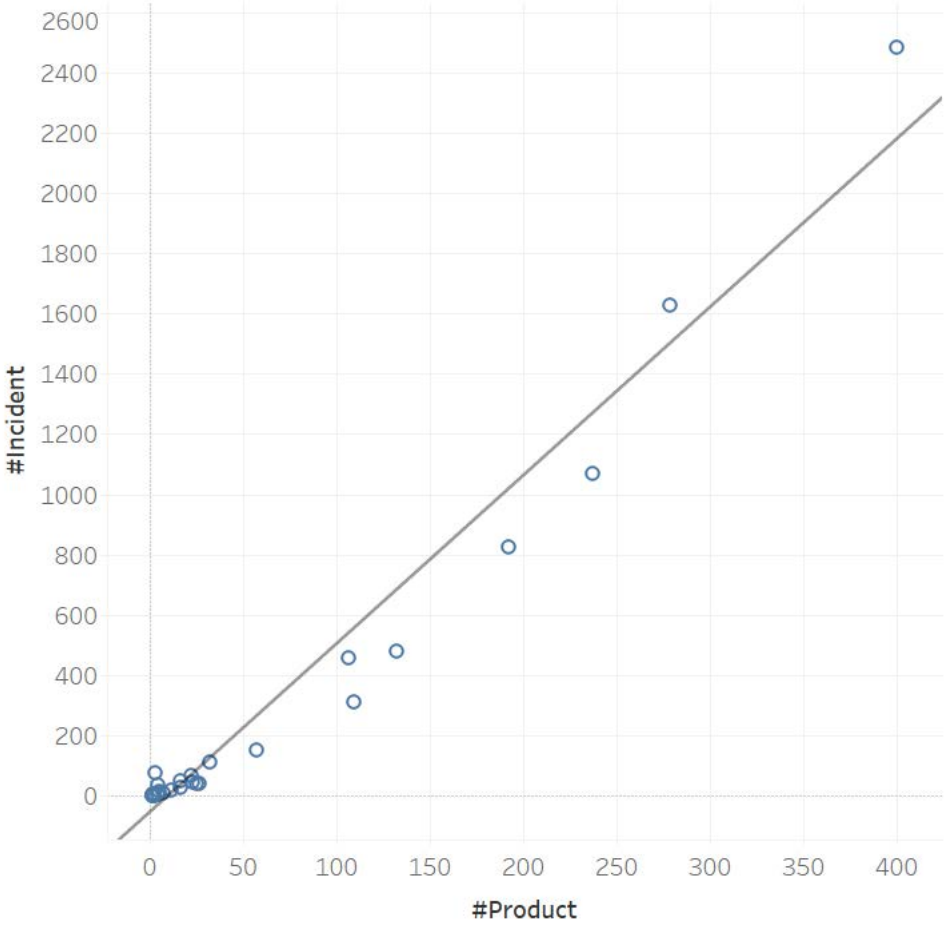
A linear trend model is computed for distinct count of SR Number given distinct count of Product. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of Product + intercept)
Number of modeled observations:	31
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	29
SSE (sum squared error):	356601
MSE (mean squared error):	12296.6
R-Squared:	0.961131
Standard error:	110.89
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	**Column**	**p-value**	**DF**	**Term**	**Value**	**StdErr**	**t-value**	**p-value**
Distinct count of SR Number	Distinct count of Product	< 0.0001	29	Distinct count of Product	5.58722	0.208645	26.7786	< 0.0001
				intercept	-53.6705	23.0466	-2.32878	0.0270457

Correlation between #SR numbers and #Products by country



Trend Lines Model

A linear trend model is computed for distinct count of Owner name given distinct count of SR Number. The model may be significant at p <= 0.05.

Model formula:	(Distinct count of SR Number + intercept)
Number of modeled observations:	31
Number of filtered observations:	0
Model degrees of freedom:	2
Residual degrees of freedom (DF):	29
SSE (sum squared error):	70782.2
MSE (mean squared error):	2440.77
R-Squared:	0.817357
Standard error:	49.4041
p-value (significance):	< 0.0001

Individual trend lines:

Panes		Line		Coefficients				
Row	**Column**	**p-value**	**DF**	**Term**	**Value**	**StdErr**	**t-value**	**p-value**
Distinct count of Owner name	Distinct count of SR Number	< 0.0001	29	Distinct count of SR Number	0.185813	0.0163108	11.3921	< 0.0001
				intercept	5.49575	9.81267	0.560067	0.579735

Correlation between #Owners and #SR Numbers by country