

# KeyATM Report

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## Report

```
load("outputs/keyatm_env.RData")
```

### Pro-Regime Automated vs Manual

Correspondence between automated and manual labels measured by accuracy is 0.66.

	x
Accuracy	0.66
Kappa	0.22
AccuracyLower	0.63
AccuracyUpper	0.69
AccuracyNull	0.58
AccuracyPValue	0.00
McnemarPValue	0.00

The corresponding confusion matrix:

	0	1
0	460	270
1	4	72

### Protest KeyATM Automated vs Manual

Correspondence between automated and manual labels as by accuracy is 0.64.

	x
Accuracy	0.64
Kappa	0.56
AccuracyLower	0.62
AccuracyUpper	0.65
AccuracyNull	0.43
AccuracyPValue	0.00
McnemarPValue	NaN

The aggregate performance averages out great performance on some categories (war, environment, legal), at best average performance on other classes (economic and political) and poor performance on the rest (cultural, social).

	Sensitivity	Specificity	Precision	Recall	F1	Detection.Rate	Balanced.Accuracy
Class: cultural	0.40	0.96	0.27	0.40	0.32	0.01	0.68
Class: economic	0.55	0.96	0.47	0.55	0.50	0.03	0.76
Class: environmental	0.91	0.90	0.52	0.91	0.66	0.10	0.90
Class: legal	0.80	0.93	0.37	0.80	0.51	0.04	0.87
Class: political	0.56	1.00	0.99	0.56	0.71	0.24	0.78
Class: social	0.34	0.98	0.79	0.34	0.48	0.05	0.66
Class: war (anti)	0.99	0.90	0.44	0.99	0.61	0.07	0.95
Class: war (pro)	0.97	0.97	0.76	0.97	0.85	0.09	0.97

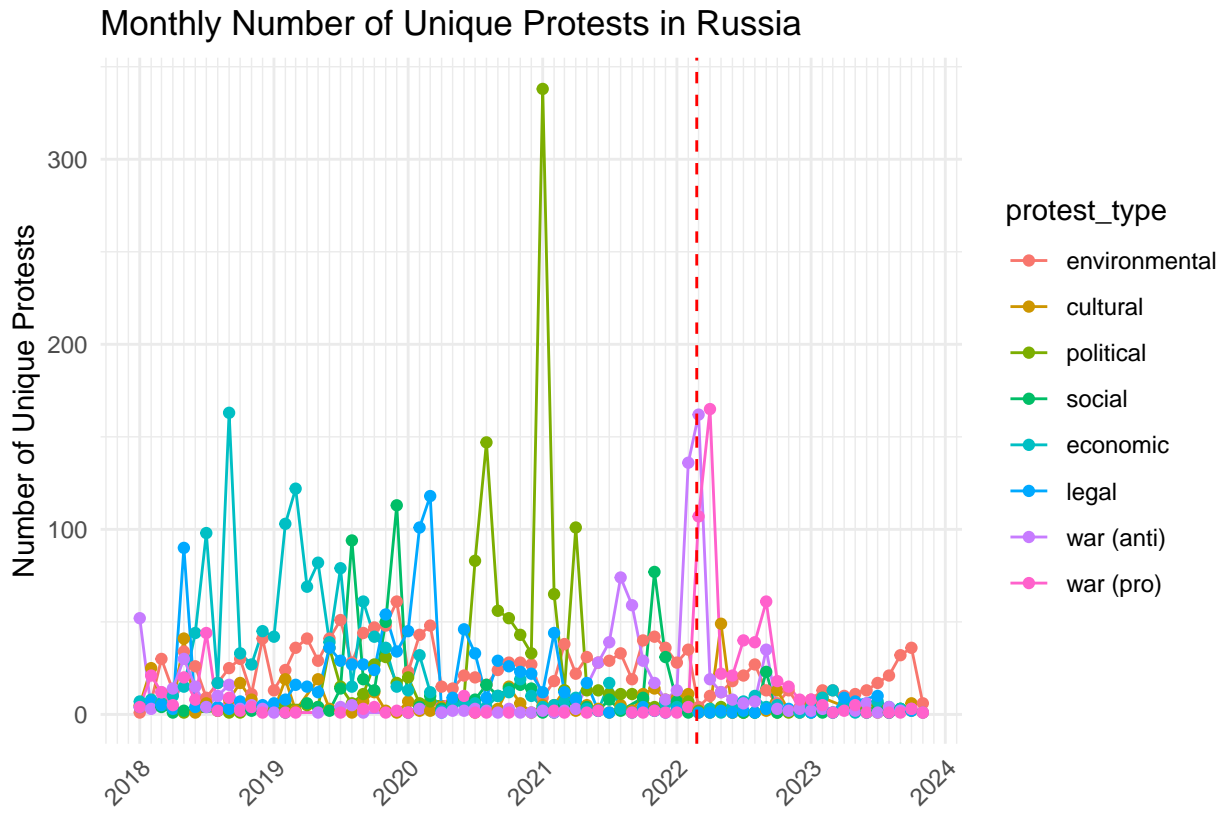
The corresponding Confusion matrix for KeyATM protest types.

	cultural	economic	environmental	legal	political	social	war (anti)	war (pro)
cultural	59	2	3	8	123	21	2	1
economic	4	131	17	1	48	77	0	2
environmental	62	62	433	22	38	222	0	0
legal	6	6	14	168	207	54	0	0
political	0	1	1	1	1057	5	0	0
social	0	15	1	3	44	240	0	0
war (anti)	10	14	6	5	282	65	306	8
war (pro)	6	8	0	2	95	21	1	415

## Visualisations

matching Madelene's plots

```
## 'summarise()' has grouped output by 'month_year'. You can override using the
## '.groups' argument.
```



Monthly Share of Protests by Type in Russia

