

## SUPPLEMENTARY MATERIALS

### Set memberships for the five conditions and outcome (BREAKTHRU)

Election	NOGRO	INCUNEMP	HICORR	INCCORR	HGENP	BREAKTHRU
BGR01	0.005	1.000	1.000	0.000	0.019	1.000
BGR09	0.000	0.688	1.000	0.999	1.000	1.000
SVN11	0.990	0.996	0.000	0.996	0.010	1.000
LTU04	0.000	0.035	0.348	0.875	0.920	0.998
CZE10	0.726	0.999	0.132	0.996	0.021	0.998
EST03	0.000	0.035	0.002	0.875	0.038	0.995
LVA02	0.000	0.201	1.000	0.544	0.666	0.994
SVK02	0.034	0.644	0.999	0.544	0.048	0.987
LVA11	1.000	0.035	0.909	1.000	0.005	0.987
LTU00	0.011	0.995	0.998	0.066	0.258	0.978
LTU08	0.000	0.799	0.222	0.544	0.997	0.919
SVK10	0.362	1.000	0.683	0.999	0.999	0.824
SVK12	0.005	0.549	0.990	1.000	0.996	0.790
POL11	0.022	0.977	0.012	0.000	0.002	0.739
LTU12	0.007	0.000	0.222	0.875	0.997	0.699
POL01	0.002	1.000	0.979	1.000	0.004	0.679
HUN10	0.983	1.000	0.042	0.976	0.002	0.536
LVA98	0.000	0.000	1.000	0.330	0.207	0.526
BGR05	0.000	0.000	0.979	0.180	1.000	0.001
CZE02	0.006	0.059	0.995	1.000	0.010	0.001
CZE06	0.000	0.126	0.909	0.001	0.009	0.001
EST07	0.000	0.001	0.000	0.000	0.979	0.001
EST11	0.999	0.099	0.000	0.875	0.979	0.001
EST99	0.000	0.966	0.001	0.000	0.038	0.001
HUN02	0.004	0.431	0.012	0.180	0.014	0.001
HUN06	0.002	0.977	0.075	0.039	0.007	0.001
HUN98	0.094	0.012	0.026	0.001	0.014	0.001
LVA06	0.000	0.001	0.956	0.001	0.993	0.001
LVA10	1.000	1.000	0.683	0.996	0.993	0.001
POL05	0.002	0.020	1.000	1.000	0.416	0.001
POL07	0.001	0.000	0.999	0.039	0.416	0.001
POL97	0.000	0.012	0.002	0.001	0.003	0.001
SVK06	0.000	0.000	0.909	0.000	0.999	0.001
SVN08	0.000	0.046	0.000	0.000	0.010	0.001

### Truth table (outcome: BREAKTHRU)

Row number	NOGRO	INCUNEMP	HICORR	INCCORR	HGENP	OUT	n	incl	PRI	cases
23	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.989</b>	<b>0.988</b>	LVA11
16	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>0.982</b>	<b>0.977</b>	BGR09,SVK10,SVK12
12	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.977</b>	<b>0.968</b>	LTU08
14	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0.955</i>	<i>0.946</i>	
31	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>?</b>	<b>0</b>	<b>0.940</b>	<b>0.910</b>	
4	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0.929</b>	<b>0.907</b>	LTU04,LTU12
13	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0.917</b>	<b>0.914</b>	BGR01,LTU00
10	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.865</b>	<b>0.838</b>	
24	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.857</b>	<b>0.663</b>	
29	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>?</b>	<b>0</b>	<b>0.838</b>	<b>0.604</b>	
27	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0.834</b>	<b>0.798</b>	CZE10,HUN10,SVN11
3	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.827</b>	<b>0.822</b>	EST03
19	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>?</b>	<b>0</b>	<b>0.801</b>	<b>0.741</b>	
15	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0.798</b>	<b>0.752</b>	POL01,SVK02
8	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.781</b>	<b>0.707</b>	LVA02
30	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.775</i>	<i>0.605</i>	
22	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.762</i>	<i>0.554</i>	
21	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.676</i>	<i>0.421</i>	
11	<i>0</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.651</i>	<i>0.610</i>	
25	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.622</i>	<i>0.139</i>	
28	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.469</i>	<i>0.288</i>	
5	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0.444</b>	<b>0.325</b>	CZE06,LVA98,POL07
7	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.414</b>	<b>0.320</b>	CZE02,POL05
32	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.393</b>	<b>0.246</b>	LVA10
2	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.297</b>	<b>0.187</b>	EST07
6	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0.274</b>	<b>0.189</b>	BGR05,LVA06,SVK06
17	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.252</i>	<i>0.032</i>	
9	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0.239</b>	<b>0.168</b>	EST99,HUN06,POL11
26	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.163</b>	<b>0.052</b>	
18	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.146</b>	<b>0.027</b>	
1	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0.066</b>	<b>0.053</b>	HUN98,HUN02,POL97,SVN08
20	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.037</b>	<b>0.004</b>	EST11

Notes: bold – rows above consistency cut-off (threshold); italics – rows examined because of contradictory simplifying assumptions.

**Truth table (outcome: ~BREAKTHRU)**

Row number	NOGRO	INCUNEMP	HICORR	INCCORR	HGENP	OUT	n	incl	PRI	cases
20	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.996</b>	<b>0.996</b>	<b>EST11</b>
18	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.976</b>	<b>0.973</b>	
17	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0.975</i>	<i>0.968</i>	
26	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.954</b>	<b>0.948</b>	
1	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0.947</b>	<b>0.947</b>	<b>HUN98,HUN02,POL97,SVN08</b>
25	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0.939</i>	<i>0.861</i>	
2	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.838</b>	<b>0.813</b>	<b>EST07</b>
6	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>0.831</b>	<b>0.811</b>	<b>BGR05,LVA06,SVK06</b>
32	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.802</b>	<b>0.754</b>	<b>LVA10</b>
28	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.786</b>	<b>0.712</b>	
9	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0.779</b>	<b>0.759</b>	<b>EST99,HUN06,POL11</b>
21	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.764</i>	<i>0.579</i>	
29	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.752</i>	<i>0.396</i>	
7	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.725</b>	<b>0.680</b>	<b>CZE02,POL05</b>
24	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.718</i>	<i>0.337</i>	
22	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.704</i>	<i>0.446</i>	
5	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0.684</b>	<b>0.617</b>	<b>CZE06,LVA98,POL07</b>
30	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>?</i>	<i>0</i>	<i>0.655</i>	<i>0.395</i>	
8	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.471</b>	<b>0.293</b>	<b>LVA02</b>
11	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>?</b>	<b>0</b>	<b>0.454</b>	<b>0.390</b>	
19	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.429</i>	<i>0.259</i>	
31	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>?</i>	<i>0</i>	<i>0.394</i>	<i>0.090</i>	
12	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.312</b>	<b>0.032</b>	<b>LTU08</b>
10	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>?</b>	<b>0</b>	<b>0.303</b>	<b>0.162</b>	
4	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0.263</b>	<b>0.033</b>	<b>LTU04,LTU12</b>
15	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.249</b>	<b>0.074</b>	<b>POL01,SVK02</b>
16	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0.227</b>	<b>0.023</b>	<b>BGR09,SVK10,SVK12</b>
14	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0.211</i>	<i>0.054</i>	
3	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.199</b>	<b>0.178</b>	<b>EST03</b>
27	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>3</i>	<i>0.193</i>	<i>0.015</i>	<i>CZE10,HUN10,SVN11</i>
13	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.115</b>	<b>0.086</b>	<b>BGR01,LTU00</b>
23	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0.059</i>	<i>0.012</i>	<i>LVA11</i>

**Notes:** bold – rows above consistency cut-off (threshold); italics – rows examined because of contradictory simplifying assumptions.

### Parsimonious solution (BREAKTHRU)

		Consistency	PRI	Coverage	Unique coverage	cases
1	~NOGRO*INCCORR* HGENP	0.841	0.810	0.351	0.085	BGR09 LTU04 LTU08 LTU12 LVA02 SVK10 SVK12
2	NOGRO*INCCORR* ~HGENP	0.872	0.851	0.211	0.057	CZE10, HUN10, LVA11, SVN11,
3	~NOGRO*INCUNEMP* HICORR	0.905	0.890	0.370	0.203	BGR01, BGR09, LTU00, POL01, SVK02, SVK10, SVK12
4	~HICORR*INCCORR* ~HGENP	0.839	0.815	0.222	0.009	CZE10, EST03, HUN10, SVN11
5	~NOGRO*~HICORR* INCCORR	0.914	0.897	0.219	0.000	EST03, LTU04, LTU08, LTU12

Consistency: 0.85, Coverage: 0.81

### Conservative solution (~BREAKTHRU)

		Consistency	PRI	Coverage	Unique coverage	cases
1	~NOGRO*~HICORR* ~INCCORR*~HGENP	0.867	0.861	0.328	0.320	HUN98,HUN02, POL97,SVN08; EST99,HUN06, POL11
2	~NOGRO*~INCUNEMP* ~INCCORR*HGENP	0.861	0.848	0.259	0.250	EST07; BGR05, LVA06,SVK06
3	NOGRO*~INCUNEMP* ~HICORR* INCCORR*HGENP	0.996	0.996	0.050	0.048	EST11
4	NOGRO*INCUNEMP* HICORR*INCCORR *HGENP	0.802	0.754	0.050	0.047	LVA10

Consistency: 0.88, coverage: 0.68

### Intermediate solution (~BREAKTHRU)

		Consistency	PRI	Coverage	Unique coverage	Cases
1	~HICORR* ~INCCORR*~HGENP	0.868	0.862	0.334	0.325	EST99, HUN98, HUN02, HUN06, POL97, POL11, SVN08
2	NOGRO*HICORR* INCCORR*HGENP	0.803	0.754	0.050	0.047	LVA10
3	~NOGRO*~INCUNEMP* ~INCCORR*HGENP	0.861	0.848	0.259	0.250	BGR05, EST07, LVA06, SVK06
4	NOGRO*~INCUNEMP* INCCORR*HGENP	0.974	0.972	0.051	0.047	EST11

Consistency: 0.88, Coverage: 0.68