

Supplementary File 2. Modeling results

Table 1. Result of normalization processing of index variables from 2008 to 2018.

year	Y1	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15
2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000
2009	0.027	0.050	0.077	0.044	0.070	0.061	0.027	0.010	0.059	0.016	0.232	0.091	0.000	0.101	0.200	0.015
2010	0.120	0.150	0.164	0.107	0.107	0.158	0.163	0.215	0.217	0.127	0.439	0.118	0.004	0.264	0.171	0.053
2011	0.206	0.296	0.231	0.221	0.228	0.234	0.219	0.357	0.340	0.175	0.552	0.372	0.004	0.758	0.190	0.611
2012	0.276	0.431	0.316	0.327	0.362	0.240	0.239	0.564	0.425	0.222	0.792	0.422	0.007	0.799	0.000	0.680
2013	0.547	0.532	0.443	0.413	0.547	0.319	0.246	0.596	0.544	0.873	0.877	0.562	0.252	0.763	0.019	0.809
2014	0.606	0.628	0.582	0.510	0.648	0.670	0.416	0.639	0.657	0.889	0.703	0.567	0.366	0.865	0.057	0.875
2015	0.737	0.735	0.611	0.619	0.752	0.760	0.664	0.712	0.739	0.905	0.604	0.535	0.653	0.897	0.214	0.930
2016	0.820	0.821	0.705	0.714	0.808	0.922	0.713	0.838	0.787	0.921	0.719	0.603	0.614	0.926	0.348	0.948
2017	0.922	0.921	0.889	0.860	0.893	0.947	0.928	0.972	0.914	0.952	0.746	0.765	0.826	0.952	0.419	0.967
2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.538	1.000

Table 2. Result of grey correlation calculation.

year	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15
2008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.333	1.000
2009	0.956	0.909	0.968	0.921	0.937	0.998	0.966	0.941	0.977	0.710	0.887	0.948	0.872	0.743	0.977
2010	0.943	0.919	0.974	0.974	0.929	0.920	0.841	0.837	0.986	0.610	0.996	0.812	0.776	0.907	0.883
2011	0.847	0.952	0.970	0.957	0.946	0.974	0.768	0.789	0.941	0.591	0.751	0.713	0.475	0.970	0.552
2012	0.764	0.926	0.908	0.854	0.932	0.931	0.635	0.771	0.902	0.492	0.774	0.650	0.489	0.644	0.553
2013	0.970	0.828	0.789	0.999	0.687	0.624	0.911	0.994	0.605	0.602	0.970	0.629	0.698	0.486	0.657
2014	0.958	0.953	0.838	0.923	0.886	0.724	0.939	0.907	0.639	0.838	0.928	0.675	0.659	0.477	0.651
2015	0.996	0.799	0.810	0.969	0.955	0.873	0.953	0.994	0.748	0.790	0.713	0.857	0.757	0.489	0.721
2016	0.999	0.813	0.825	0.976	0.831	0.824	0.966	0.938	0.833	0.832	0.697	0.708	0.825	0.514	0.797
2017	0.998	0.938	0.890	0.945	0.952	0.989	0.909	0.985	0.943	0.740	0.761	0.839	0.943	0.499	0.916
2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.520	1.000
R value	0.948	0.912	0.907	0.956	0.914	0.896	0.899	0.923	0.870	0.746	0.862	0.803	0.772	0.598	0.791

Note: The distinguish coefficient is valued to 0.5.