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**The QM rule in the Nice and EU reform treaties:
future projections
Appendix: tables and charts**

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The QM Rule in the Nice and EU Reform Treaties: Future Projections

Appendix: Tables and Charts

Table 1: Austria

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01299	0.01299	0.04365	0.04361	0.04375	0.04385	0.04395	0.04390	0.04390	0.04402
beta	0.030929	0.030924	0.02542	0.025423	0.025548	0.025594	0.025665	0.025651	0.025657	0.025718
gamma	0.32060	0.32060	0.16979	0.16978	0.17036	0.17096	0.17144	0.17135	0.17137	0.17174
Quotient	1.031	1.029	0.845	0.844	0.843	0.843	0.843	0.843	0.842	0.842

Table 2: Belgium

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01547	0.01547	0.04835	0.04848	0.04860	0.04891	0.04903	0.04922	0.04950	0.04950
beta	0.036834	0.036843	0.028157	0.028264	0.028386	0.02855	0.02863	0.028759	0.028927	0.028919
gamma	0.38196	0.38196	0.18807	0.18874	0.18928	0.19071	0.19125	0.19212	0.19320	0.19312
Quotient	1.090	1.085	0.828	0.828	0.827	0.827	0.827	0.826	0.828	0.821

Table 3: Bulgaria

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01299	0.01299	0.04100	0.04036	0.03969	0.03917	0.03864	0.03813	0.03788	0.03748
beta	0.030929	0.030924	0.023876	0.023529	0.023178	0.022862	0.02256	0.022281	0.02214	0.021894
gamma	0.32060	0.32060	0.15948	0.15713	0.15455	0.15271	0.15070	0.14884	0.14788	0.14620
Quotient	1.067	1.090	0.862	0.868	0.874	0.882	0.889	0.897	0.901	0.909

Table 4: Cyprus

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00525	0.02806	0.02832	0.02828	0.02834	0.02837	0.02862	0.02868	0.02875	0.02875
beta	0.0125	0.016343	0.016509	0.016518	0.016545	0.016568	0.016723	0.016761	0.016797	0.016797
gamma	0.12960	0.10916	0.11025	0.11014	0.11051	0.11067	0.11171	0.11195	0.11217	0.11217
Quotient	1.374	1.757	1.674	1.674	1.675	1.672	1.593	1.585	1.575	1.575

Table 5: Czech Republic

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01547	0.04692	0.04665	0.04638	0.04628	0.04599	0.04574	0.04556	0.04550	0.04550
beta	0.036834	0.027325	0.027198	0.027087	0.027013	0.02685	0.026725	0.026626	0.026581	0.026581
gamma	0.38196	0.18251	0.18163	0.18062	0.18044	0.17936	0.17853	0.17784	0.17750	0.17750
Quotient	1.103	1.112	0.832	0.832	0.833	0.834	0.835	0.828	0.836	0.836

Table 6: Denmark

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00916	0.03773	0.03772	0.03787	0.03795	0.03802	0.03793	0.03810	0.03812	0.03812
beta	0.02181	0.021809	0.021971	0.021989	0.022115	0.022151	0.022201	0.022161	0.022265	0.022267
gamma	0.22609	0.22610	0.14675	0.14684	0.14746	0.14796	0.14830	0.14804	0.14871	0.14869
Quotient	0.898	0.892	0.900	0.902	0.899	0.899	0.898	0.900	0.898	0.899

Table 7: Estonia

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00525	0.02909	0.02894	0.02889	0.02896	0.02899	0.02890	0.02890	0.02890	0.02897
beta	0.0125	0.012502	0.016944	0.016869	0.016873	0.016903	0.016929	0.016964	0.016889	0.016923
gamma	0.12960	0.12961	0.11317	0.11265	0.11251	0.11290	0.11309	0.11333	0.11280	0.11301
Quotient	1.033	1.052	1.424	1.482	1.481	1.482	1.480	1.475	1.523	1.513
100 beta	1.2500	1.2502	1.6944	1.6869	1.6873	1.6903	1.6929	1.6964	1.6889	1.6923

Table 8: Finland

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00916	0.00916	0.03752	0.03752	0.03746	0.03754	0.03762	0.03772	0.03767	0.03769
beta	0.02181	0.021809	0.021852	0.021871	0.021876	0.021913	0.021965	0.02204	0.022017	0.022019
gamma	0.22609	0.22610	0.14596	0.14605	0.14587	0.14637	0.14673	0.14723	0.14705	0.14704
Quotient	0.913	0.909	0.903	0.906	0.905	0.906	0.905	0.904	0.905	0.906
100 beta	2.1810	2.1809	2.1852	2.1871	2.1876	2.1913	2.1965	2.2040	2.2017	2.2019

Table 9: France

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03269	0.03269	0.15346	0.15511	0.15670	0.15861	0.16065	0.16265	0.16427	0.16636
beta	0.077835	0.077828	0.089371	0.090426	0.091516	0.092584	0.093803	0.095035	0.096004	0.097183
gamma	0.80686	0.80686	0.59694	0.60386	0.61023	0.61843	0.62662	0.63485	0.64122	0.64897
Quotient	0.941	0.952	1.086	1.091	1.096	1.102	1.108	1.114	1.119	1.124

Table 10: Germany

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03269	0.03269	0.19995	0.19863	0.19701	0.19518	0.19332	0.19145	0.18964	0.18770
beta	0.077835	0.077828	0.116444	0.115792	0.115058	0.113926	0.1129	0.111858	0.110829	0.109651
gamma	0.80687	0.80687	0.77777	0.77326	0.76721	0.76099	0.75404	0.74723	0.74023	0.73223
quotient	0.822	0.820	1.230	1.225	1.221	1.215	1.208	1.204	1.197	1.191

Table 11: Greece

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01547	0.01547	0.04978	0.04970	0.04961	0.04952	0.04944	0.04943	0.04928	0.04908
beta	0.036834	0.036843	0.028991	0.028976	0.028976	0.028905	0.028867	0.028879	0.028802	0.02867
gamma	0.38196	0.38196	0.19364	0.19350	0.19321	0.19307	0.19283	0.19291	0.19237	0.19146
Quotient	1.058	1.051	0.826	0.826	0.825	0.826	0.826	0.826	0.825	0.826

Table 12: Hungary

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01547	0.01547	0.04651	0.04625	0.04597	0.04588	0.04578	0.04554	0.04556	0.04550
beta	0.036834	0.036843	0.027087	0.026961	0.026849	0.026779	0.026732	0.026606	0.026626	0.026581
gamma	0.38196	0.38196	0.18092	0.18005	0.17903	0.17887	0.17857	0.17773	0.17784	0.17750
Quotient	1.113	1.117	0.831	0.833	0.833	0.835	0.835	0.836	0.835	0.836

Table 13: Ireland

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00916	0.00916	0.03588	0.03629	0.03644	0.03693	0.03700	0.03752	0.03788	0.03833
beta	0.02181	0.021809	0.020895	0.021154	0.021281	0.021556	0.021605	0.02192	0.02214	0.02239
gamma	0.22609	0.22610	0.13957	0.14127	0.14190	0.14399	0.14432	0.14643	0.14788	0.14952
Quotient	1.019	1.009	0.937	0.929	0.924	0.917	0.916	0.907	0.901	0.895

Table 14: Italy

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03269	0.03269	0.14477	0.14372	0.14263	0.14164	0.14072	0.13992	0.13933	0.13837
beta	0.077835	0.077827	0.08431	0.083785	0.0833	0.082675	0.082166	0.081753	0.081429	0.080835
gamma	0.80686	0.80686	0.56313	0.55952	0.55545	0.55224	0.54888	0.54613	0.54387	0.53980
Quotient	0.974	0.975	1.059	1.056	1.053	1.051	1.048	1.047	1.046	1.044

Table 15: Latvia

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00525	0.00525	0.03095	0.03078	0.03073	0.03060	0.03064	0.03048	0.03058	0.03068
beta	0.0125	0.012502	0.018026	0.017944	0.017947	0.01786	0.017889	0.017811	0.017872	0.01792
gamma	0.12960	0.12961	0.12040	0.11983	0.11967	0.11930	0.11950	0.11898	0.11937	0.11967
Quotient	0.791	0.808	1.170	1.191	1.191	1.213	1.211	1.231	1.226	1.219

Table 16: Lithuania

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00916	0.00916	0.03321	0.03303	0.03278	0.03285	0.03268	0.03275	0.03267	0.03283
beta	0.02181	0.021809	0.019342	0.019253	0.019144	0.019173	0.019079	0.019134	0.019091	0.019179
gamma	0.22609	0.22610	0.12919	0.12857	0.12765	0.12807	0.12745	0.12782	0.12751	0.12807
Quotient	1.136	1.151	1.023	1.036	1.045	1.046	1.055	1.052	1.060	1.056

Table 17: Luxembourg

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00525	0.00525	0.02744	0.02750	0.02746	0.02773	0.02776	0.02778	0.02785	0.02790
beta	0.0125	0.012502	0.015981	0.016029	0.016036	0.016186	0.016207	0.016233	0.016275	0.016298
gamma	0.12960	0.12961	0.10674	0.10704	0.10693	0.10811	0.10827	0.10844	0.10870	0.10883
Quotient	1.761	1.696	2.160	2.181	2.180	2.007	2.003	1.996	1.987	1.973

Table 18: Malta

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00396	0.00396	0.02724	0.02750	0.02746	0.02752	0.02755	0.02757	0.02763	0.02768
beta	0.0094	0.009422	0.015861	0.016029	0.016036	0.016066	0.016087	0.016111	0.016147	0.01617
gamma	0.09768	0.09768	0.10594	0.10704	0.10693	0.10732	0.10746	0.10763	0.10785	0.10798
Quotient	1.429	1.429	2.403	2.181	2.180	2.182	2.178	2.171	2.160	2.145

Table 19: Netherlands

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01669	0.01669	0.06126	0.06151	0.06179	0.06233	0.06271	0.06280	0.06298	0.06346
beta	0.039739	0.03974	0.035674	0.035856	0.036089	0.036381	0.036616	0.036691	0.036808	0.03707
gamma	0.41199	0.41199	0.23828	0.23945	0.24064	0.24301	0.24460	0.24510	0.24584	0.24755
Quotient	0.944	0.933	0.832	0.832	0.832	0.833	0.833	0.833	0.832	0.833

Table 20: Poland

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03116	0.03116	0.09534	0.09393	0.09283	0.09217	0.09152	0.09057	0.08959	0.08931
beta	0.074192	0.074198	0.055521	0.05476	0.054214	0.0538	0.05344	0.052918	0.052355	0.052177
gamma	0.76924	0.76923	0.37084	0.36569	0.36150	0.35937	0.35698	0.35350	0.34968	0.34843
Quotient	1.152	1.157	0.873	0.865	0.859	0.855	0.852	0.847	0.843	0.843

Table 21: Portugal

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01547	0.01547	0.04855	0.04848	0.04820	0.04831	0.04822	0.04800	0.04784	0.04550
beta	0.036834	0.036843	0.028277	0.028264	0.028149	0.028196	0.028155	0.028043	0.027956	0.027933
gamma	0.38196	0.38196	0.18887	0.18874	0.18770	0.18834	0.18808	0.18733	0.18672	0.18653
Quotient	1.087	1.080	0.827	0.828	0.827	0.828	0.828	0.828	0.825	0.828

Table 22: Romania

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01789	0.01789	0.06947	0.06796	0.06655	0.06565	0.06500	0.06426	0.06361	0.06281
beta	0.042596	0.042591	0.040456	0.039618	0.038869	0.038318	0.037953	0.037547	0.037173	0.036691
gamma	0.44155	0.44155	0.27022	0.26457	0.25918	0.25595	0.25353	0.25082	0.24828	0.24502
Quotient	0.878	0.885	0.850	0.846	0.842	0.840	0.838	0.836	0.833	0.832

Table 23: Slovakia

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00916	0.00916	0.03732	0.03731	0.03705	0.03713	0.03721	0.03690	0.03685	0.03664
beta	0.02181	0.021809	0.021733	0.021752	0.021637	0.021675	0.021724	0.021561	0.021538	0.021402
gamma	0.22609	0.22610	0.14516	0.14526	0.14427	0.14478	0.14512	0.14403	0.14385	0.14292
Quotient	0.901	0.909	0.909	0.909	0.912	0.913	0.912	0.919	0.920	0.926

Table 24: Slovenia

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.00525	0.00525	0.03054	0.03058	0.03053	0.03060	0.03064	0.03069	0.03058	0.03068
beta	0.0125	0.012502	0.017786	0.017824	0.017831	0.01786	0.017889	0.017932	0.017872	0.01792
gamma	0.12960	0.12961	0.11880	0.11903	0.11890	0.11930	0.11950	0.11979	0.11937	0.11967
Quotient	0.845	0.848	1.210	1.213	1.212	1.213	1.211	1.208	1.226	1.219

Table 25: Spain

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03116	0.03116	0.11555	0.11592	0.11589	0.11587	0.11585	0.11592	0.11598	0.11545
beta	0.074192	0.074199	0.067293	0.067577	0.067684	0.067636	0.067646	0.067732	0.067778	0.067447
gamma	0.76924	0.76925	0.44948	0.45128	0.45132	0.45179	0.45189	0.45246	0.45270	0.45040
Quotient	1.075	1.066	0.961	0.963	0.964	0.964	0.964	0.966	0.968	0.967

Table 26: Sweden

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.01299	0.01299	0.04569	0.04605	0.04638	0.04668	0.04700	0.04738	0.04762	0.04824
beta	0.030929	0.030924	0.026611	0.026844	0.027087	0.02725	0.027443	0.027683	0.027831	0.028181
gamma	0.32060	0.32060	0.17774	0.17926	0.18062	0.18202	0.18333	0.18493	0.18588	0.18819
Quotient	0.985	0.978	0.834	0.834	0.832	0.832	0.831	0.830	0.835	0.828

Table 27: United Kingdom

	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
psi	0.03269	0.03269	0.15188	0.15354	0.15533	0.15701	0.15834	0.15960	0.16118	0.16294
beta	0.077835	0.077828	0.088454	0.089506	0.090716	0.091648	0.092453	0.09325	0.094194	0.095186
gamma	0.80686	0.80686	0.59082	0.59772	0.60490	0.61218	0.61759	0.62293	0.62913	0.63564
Quotient	0.961	0.956	1.081	1.086	1.092	1.097	1.101	1.104	1.108	1.113

Table 28: Synoptic Comparison

Year	D	max d	ran(d)	MMD	S	A	R	Odds
2006	4.8164	76.1	93.9	8018	0.858	0.020	0.959	49:1
2010	4.7889	69.6	88.7	8016	0.858	0.020	0.959	49:1
2015	7.6259	140.3	157.7	5287	0.945	0.129	0.743	27:4
2020	7.6496	118.1	135.5	5295	0.945	0.128	0.743	34:5
2025	7.7052	118.0	135.5	5297	0.945	0.128	0.743	34:5
2030	7.6970	118.2	135.6	5289	0.945	0.128	0.744	34:5
2035	7.7117	117.8	135.2	5274	0.945	0.128	0.744	34:5
2040	7.7051	117.1	134.5	5248	0.945	0.128	0.744	34:5
2045	7.7632	116.0	133.5	5213	0.945	0.128	0.744	34:5
2050	7.7432	114.5	132.4	5165	0.945	0.128	0.744	34:5

Table 29: Population Forecasts of EU Member States by Year (Millions)*

	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
Austria	8.1	8.3	8.4	8.4	8.5	8.5	8.5	8.4	8.3	8.2
Belgium	10.4	10.6	10.7	10.8	10.9	11.0	11.0	11.0	11.0	10.9
Bulgaria	7.7	7.4	7.1	6.8	6.5	6.2	5.9	5.6	5.4	5.1
Cyprus	0.7	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0
Czech Republic	10.2	10.1	10	9.9	9.8	9.7	9.5	9.3	9.1	8.9
Denmark	5.4	5.5	5.5	5.5	5.6	5.6	5.6	5.5	5.5	5.4
Estonia	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1
Finland	5.2	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.2
France	60.2	61.5	62.6	63.6	64.4	65.1	65.7	66.0	65.9	65.7
Germany	82.6	82.8	82.9	82.7	82.1	81.1	79.9	78.4	76.7	74.6
Greece	11.1	11.3	11.4	11.4	11.4	11.3	11.2	11.1	10.9	10.6
Hungary	10.1	10.0	9.8	9.7	9.6	9.5	9.4	9.2	9.1	8.9
Ireland	4.1	4.3	4.6	4.8	4.9	5.1	5.2	5.3	5.4	5.5
Italy	58.2	58.6	58.6	58.3	57.8	57.1	56.3	55.3	54.2	52.7
Latvia	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9
Lithuania	3.4	3.3	3.3	3.2	3.1	3.1	3.0	3.0	2.9	2.9
Luxembourg	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
Malta	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Netherlands	16.3	16.7	17.0	17.2	17.4	17.6	17.7	17.6	17.5	17.4
Poland	38.1	37.8	37.4	37.1	36.8	36.5	36.1	35.4	34.5	33.7
Portugal	10.5	10.7	10.8	10.8	10.7	10.7	10.6	10.4	10.2	10.0
Romania	21.7	21.3	20.9	20.3	19.7	19.2	18.8	18.3	17.8	17.1
Slovakia	5.4	5.3	5.3	5.3	5.2	5.2	5.1	5.0	4.9	4.7
Slovenia	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
Spain	42.9	44.6	45.3	45.6	45.6	45.4	45.1	44.6	43.9	42.8
Sweden	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.1	10.1	10.2
United Kingdom	59.9	60.9	61.9	62.9	63.8	64.4	64.7	64.7	64.6	64.3
Total	487.7	492.7	495.5	496.5	496.2	494.8	491.9	486.8	480.2	471.8

* Source: Eurostat cf. <http://tinyurl.com/3aqcwe>

Figure 1a: Austria

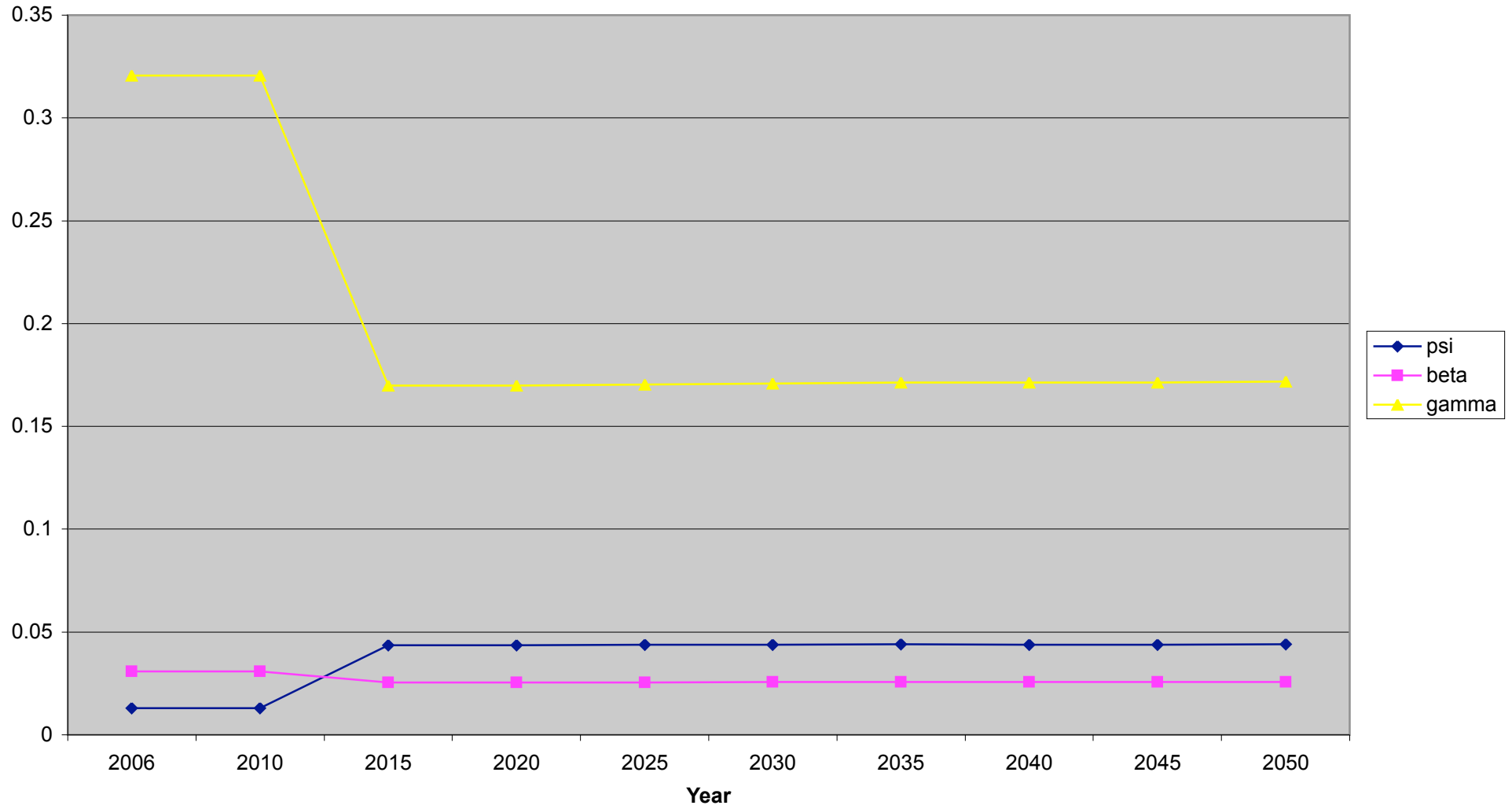


Figure 1b: Austria

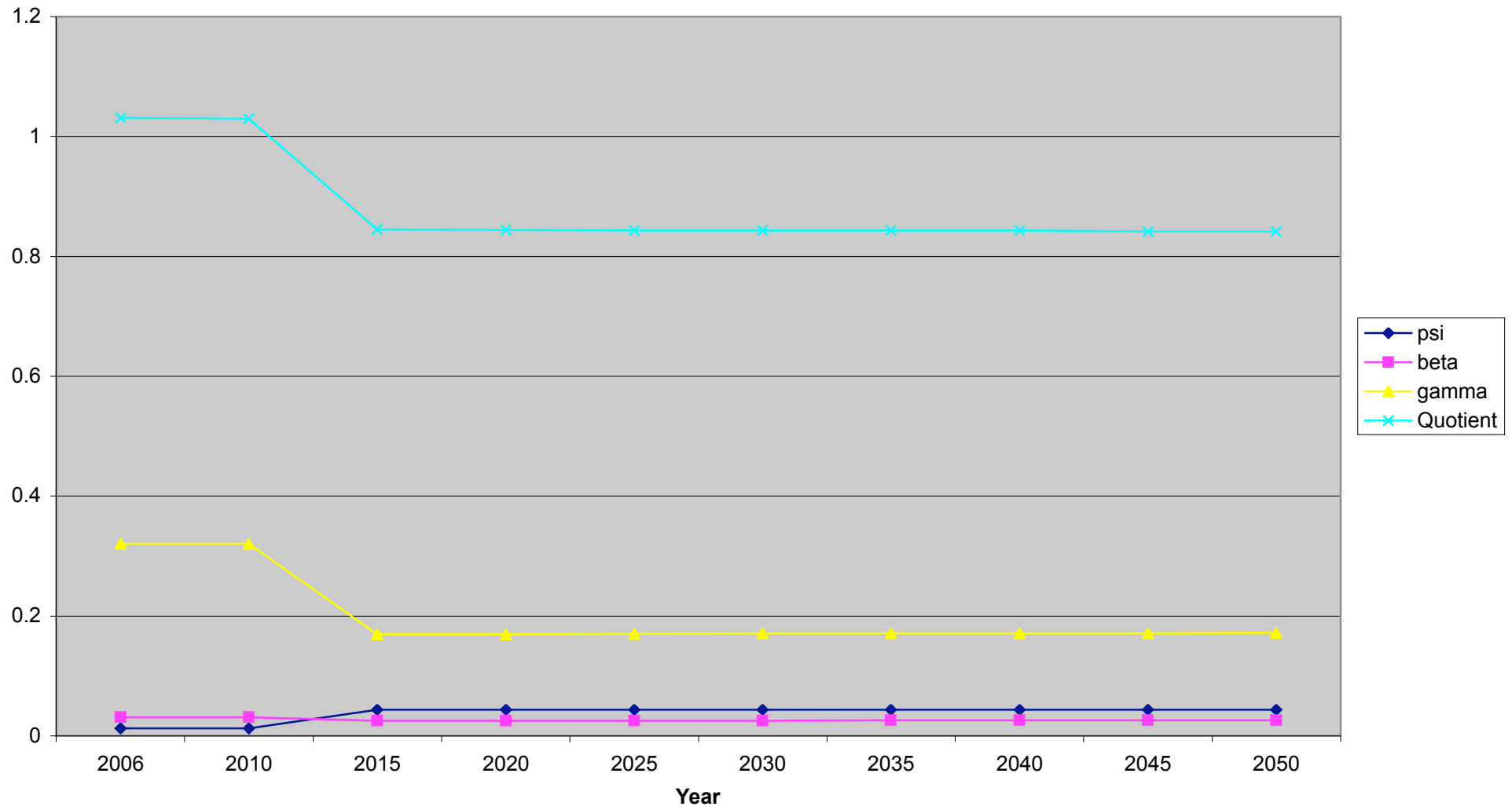


Figure 2a: Belgium

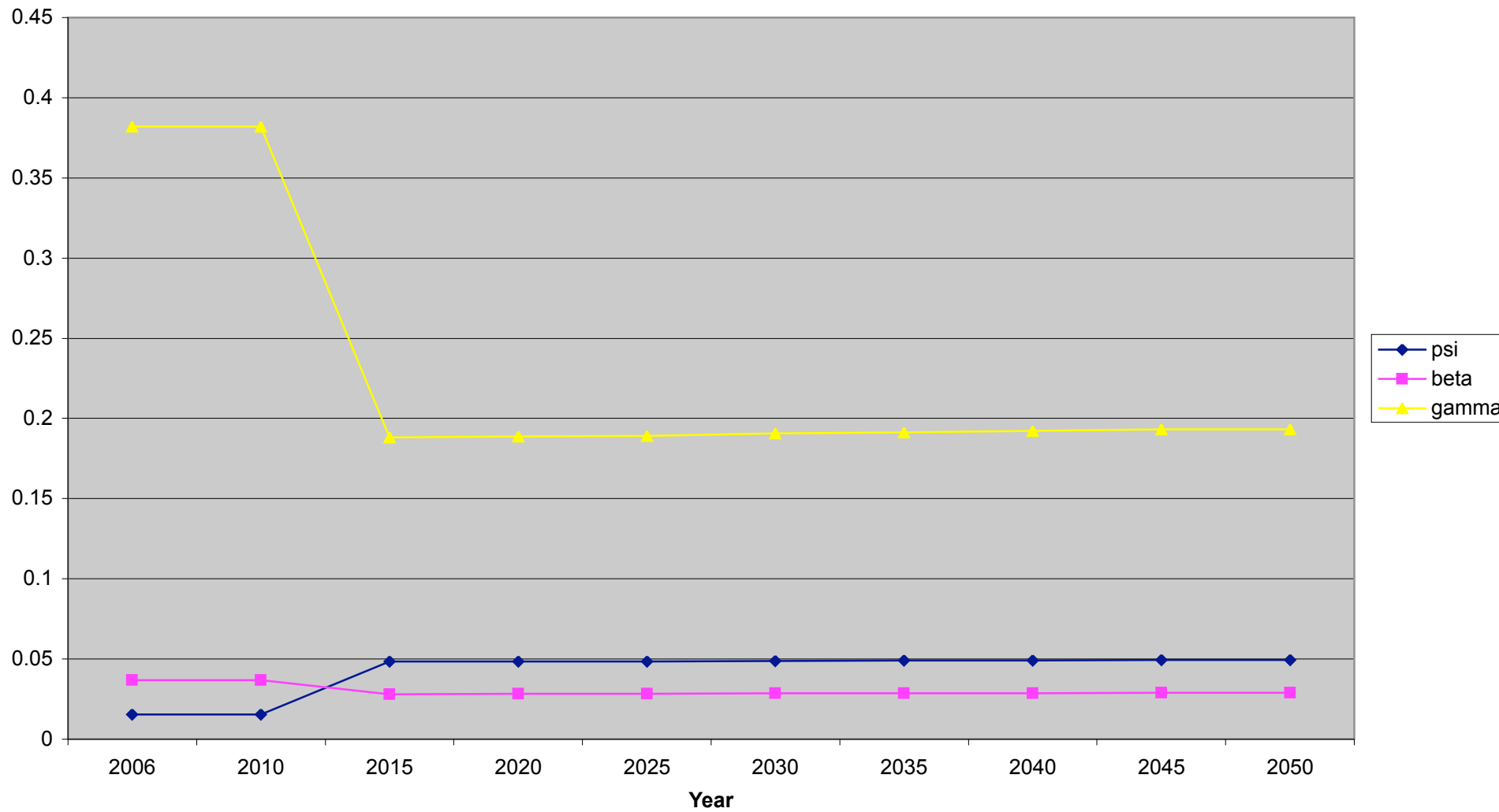


Figure 2b: Belgium

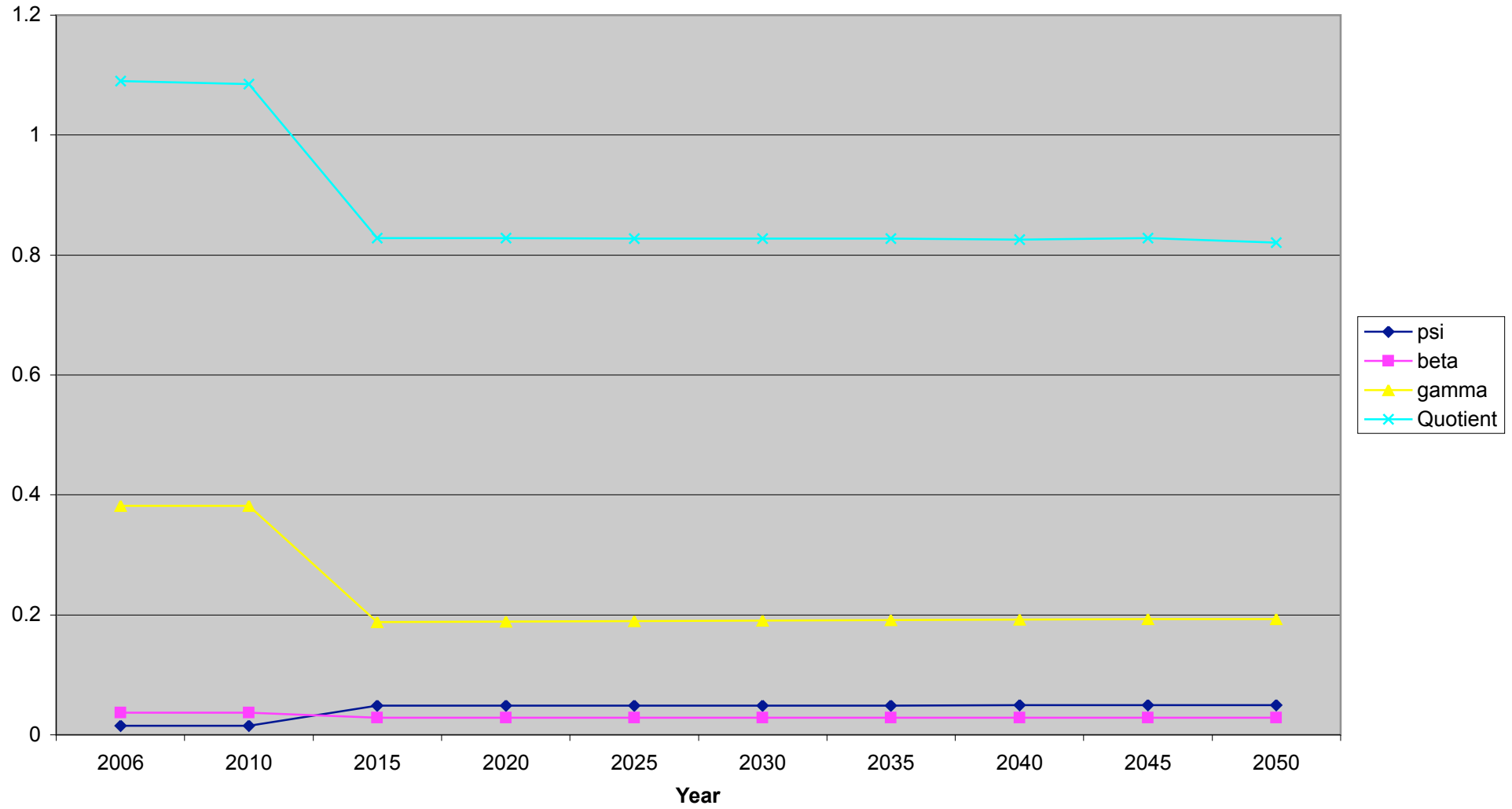


Figure 3a: Bulgaria

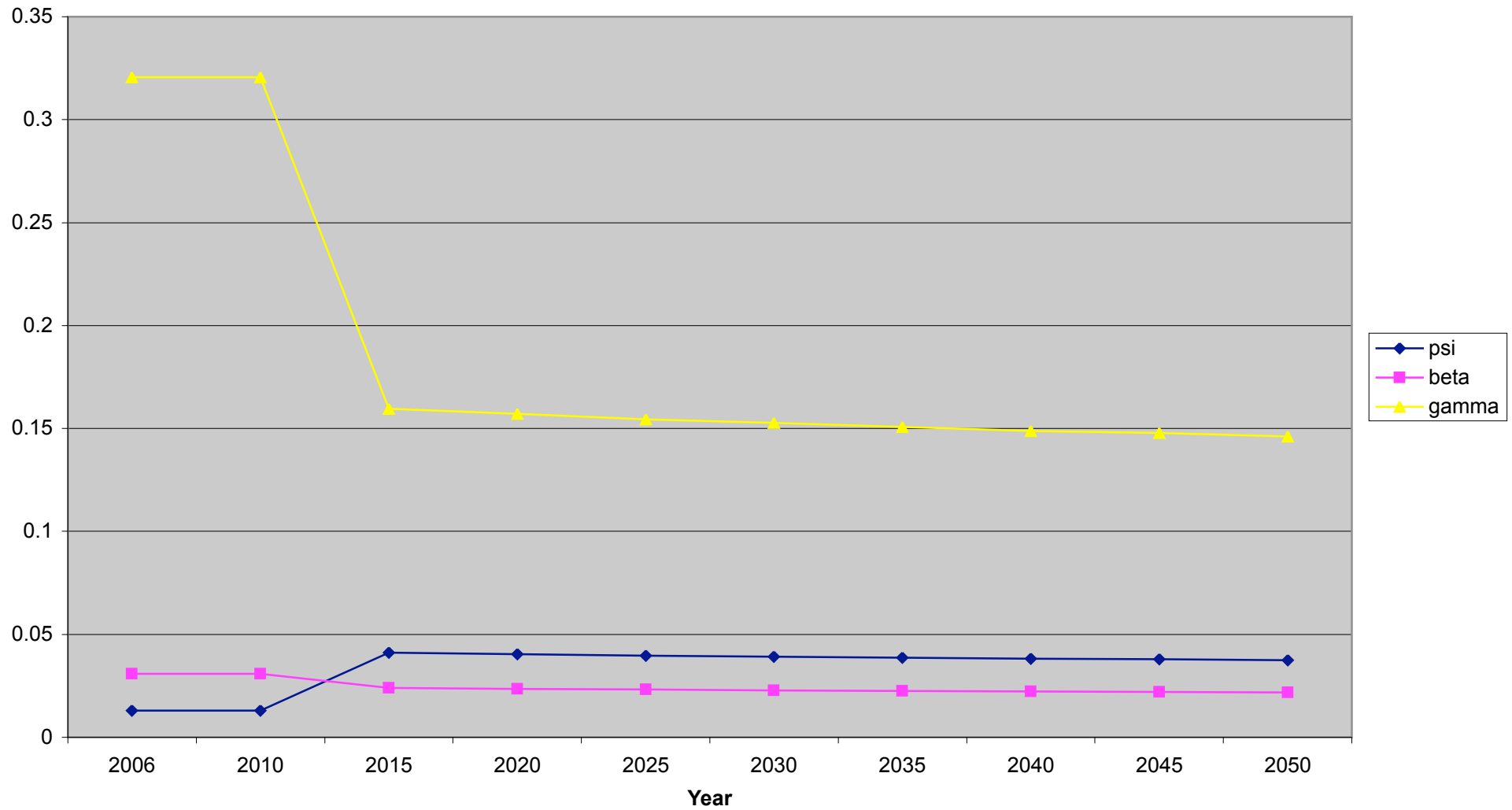


Figure 3b: Bulgaria

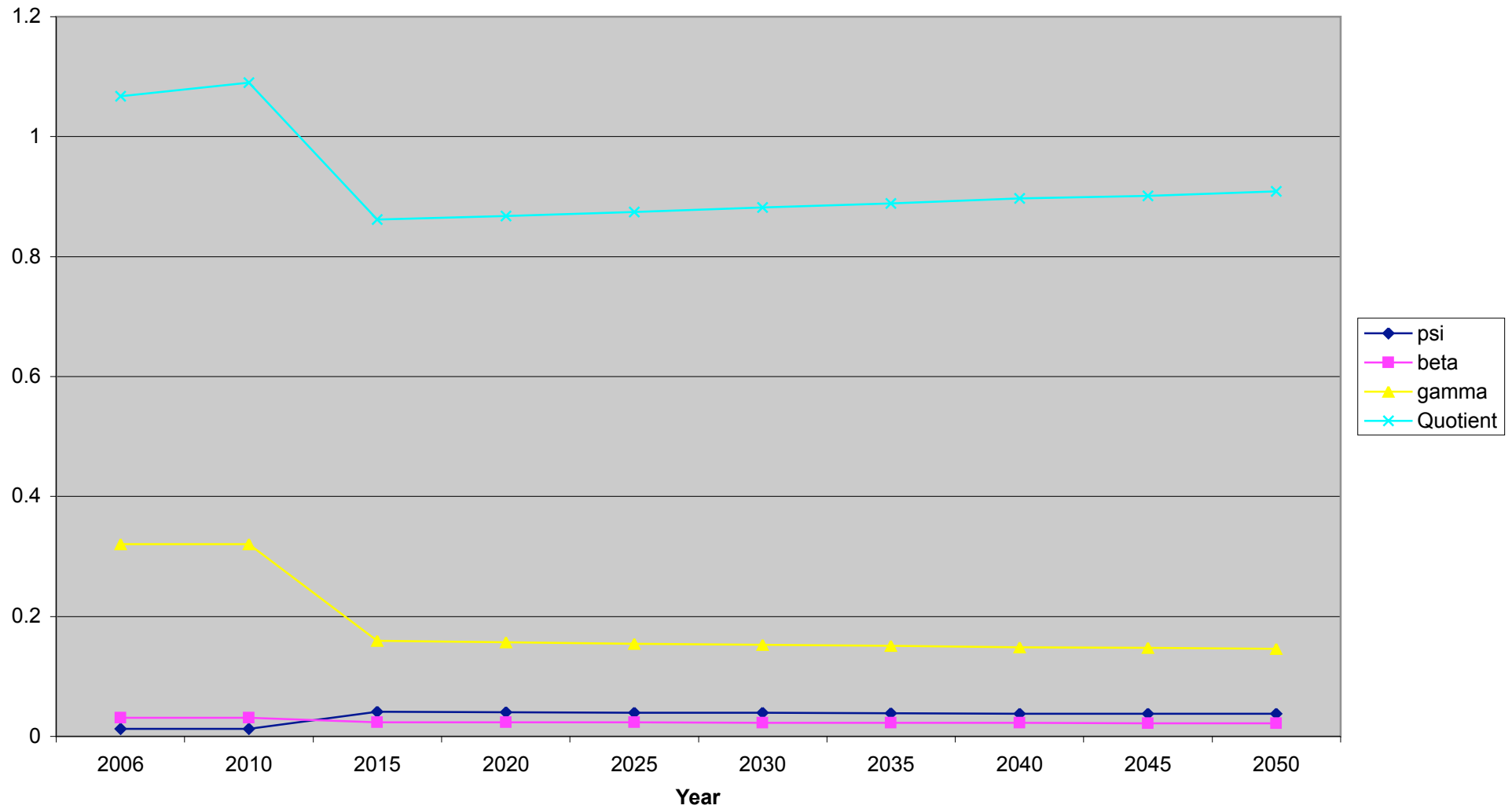


Figure 4a: Cyprus

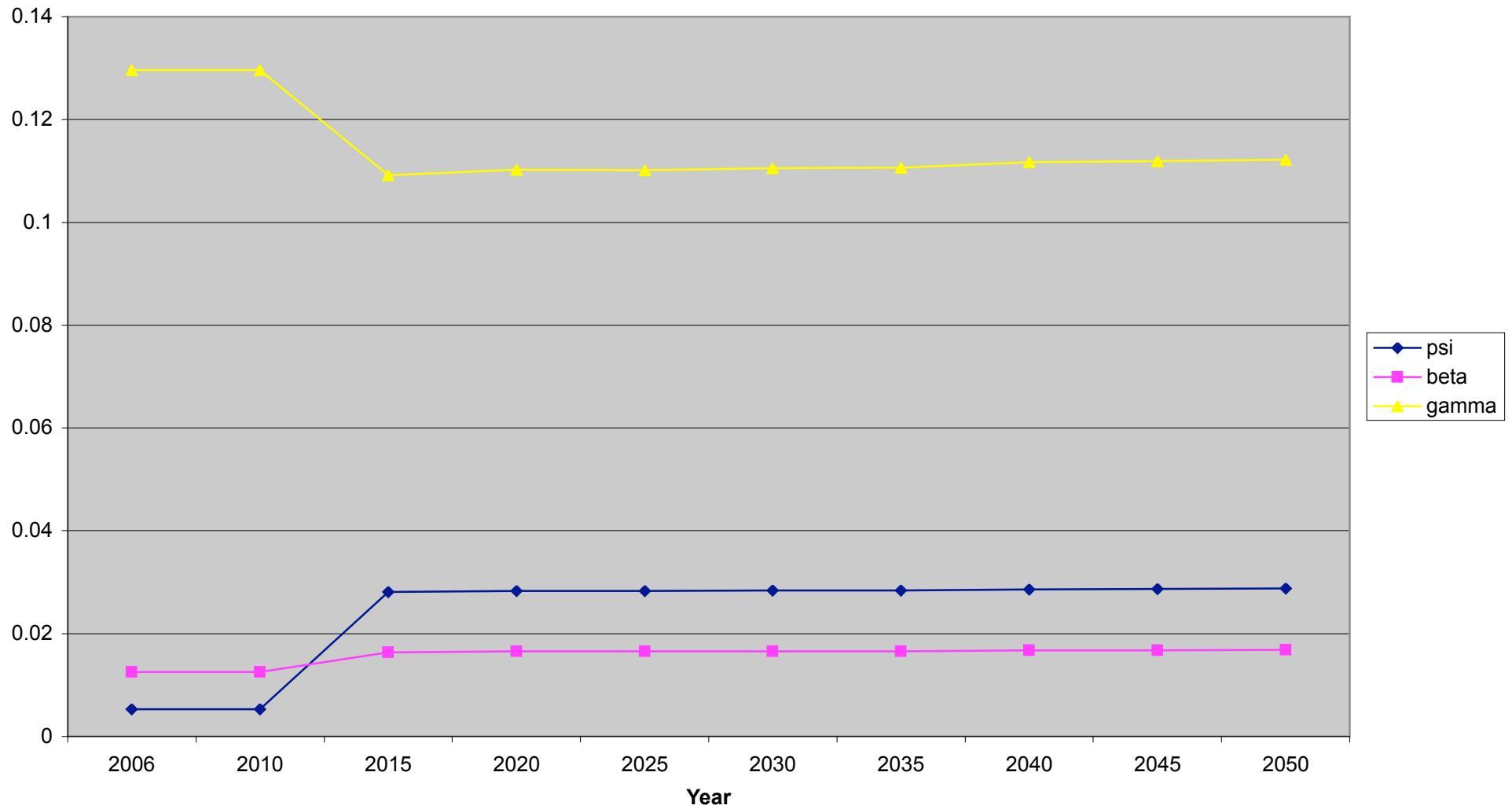


Figure 4b: Cyprus

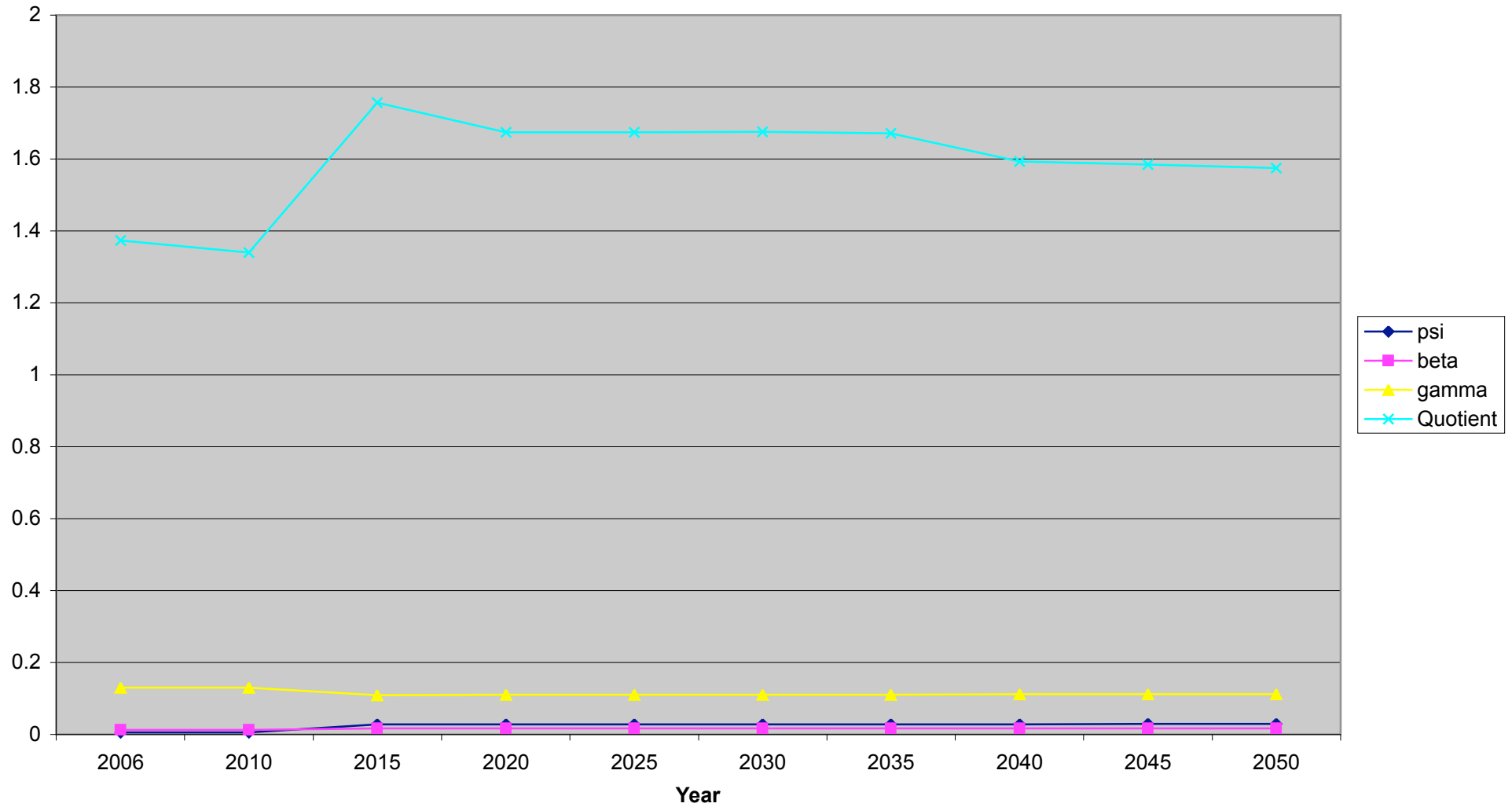


Figure 5a: Czech Republic

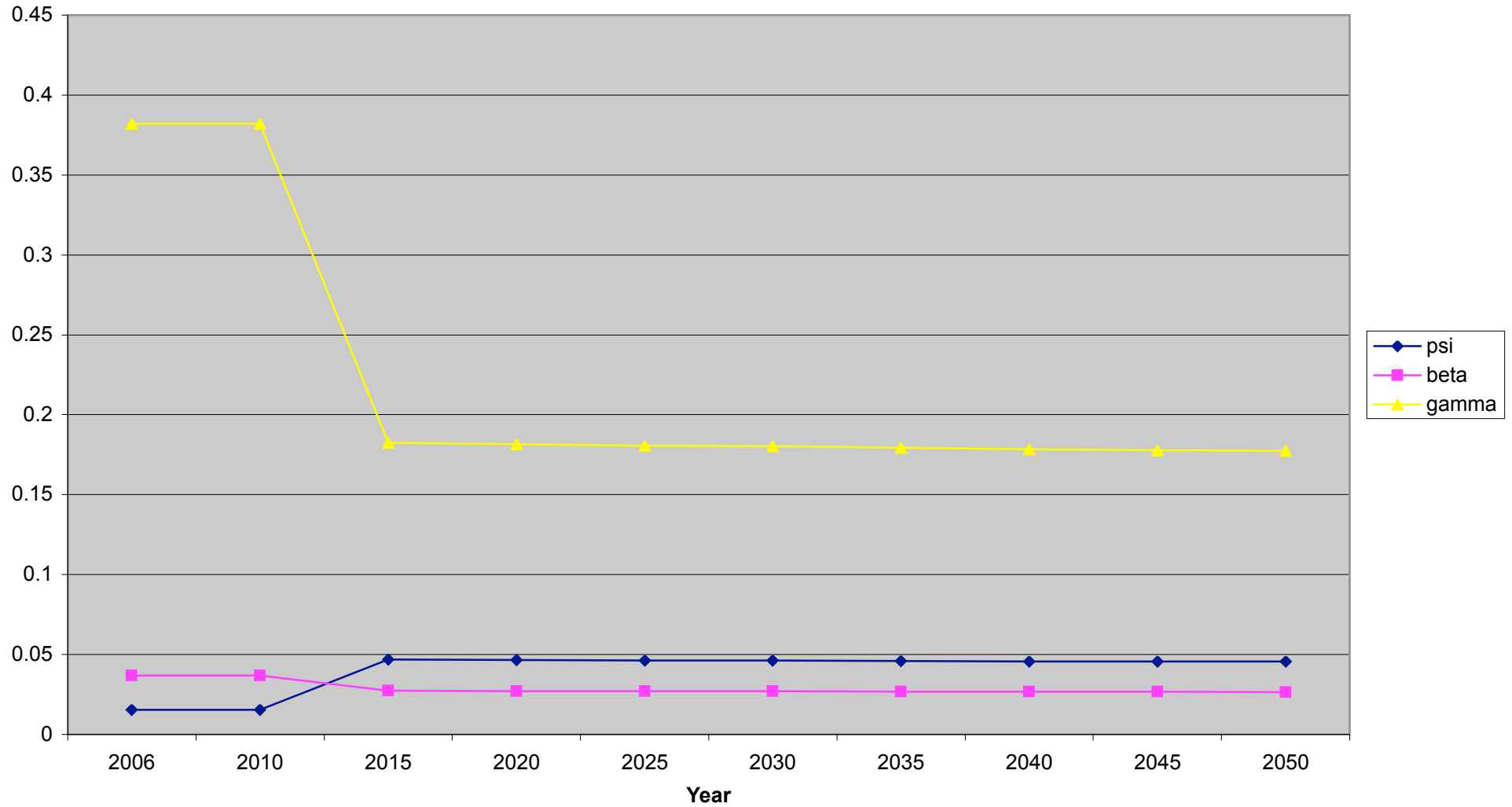


Figure 5b: Czech Republic

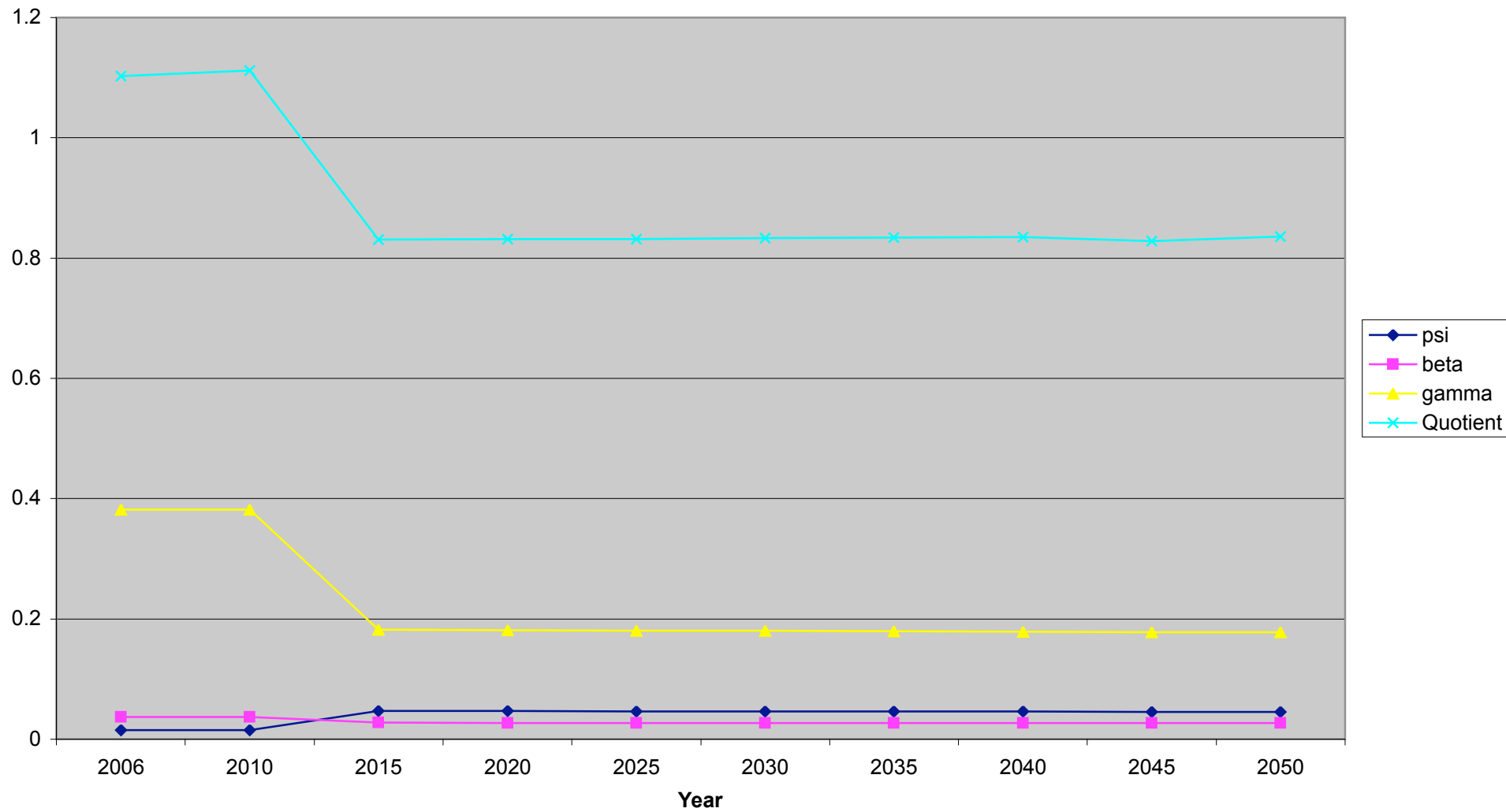


Figure 6a: Denmark

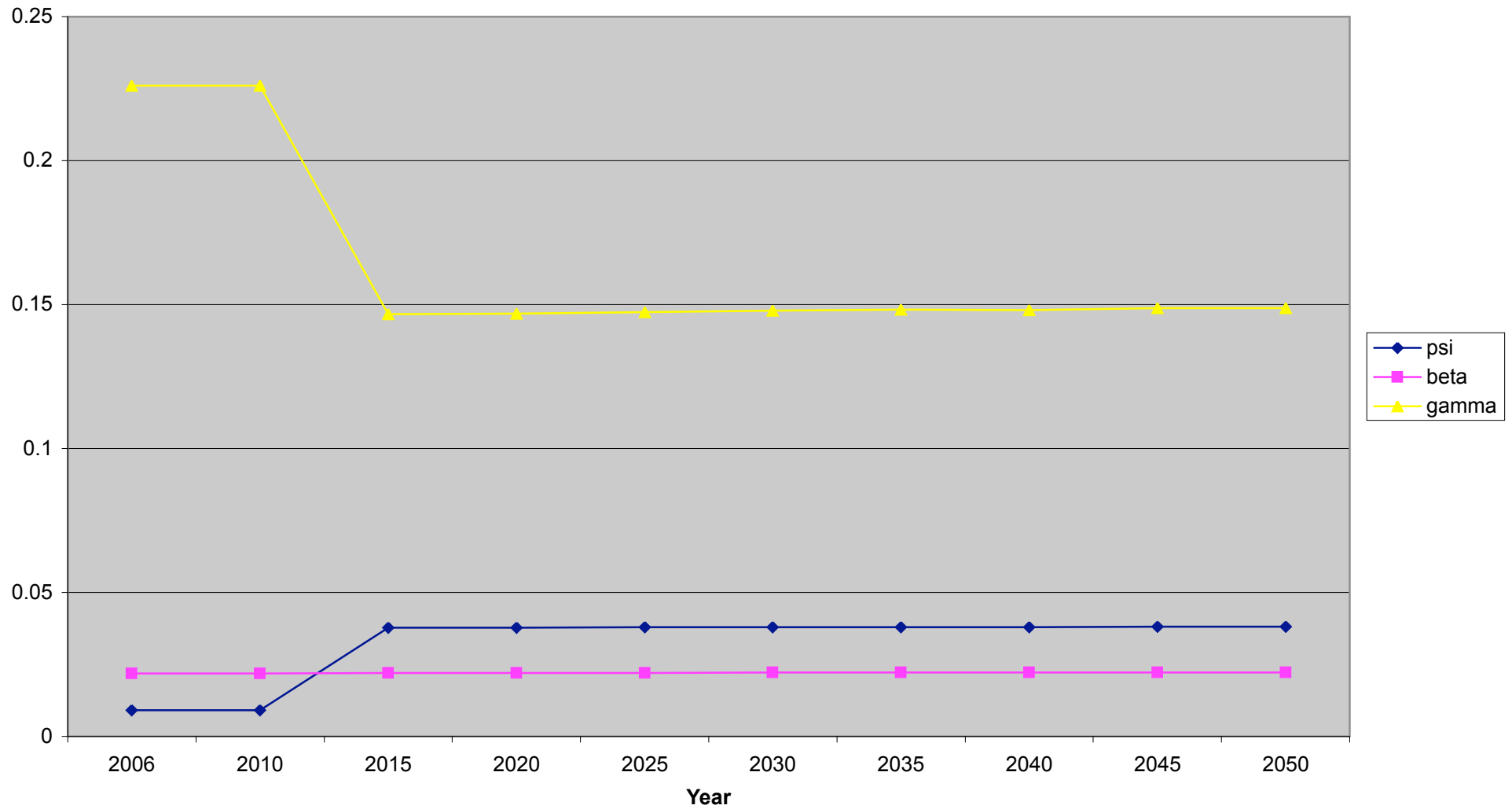


Figure 6b: Denmark

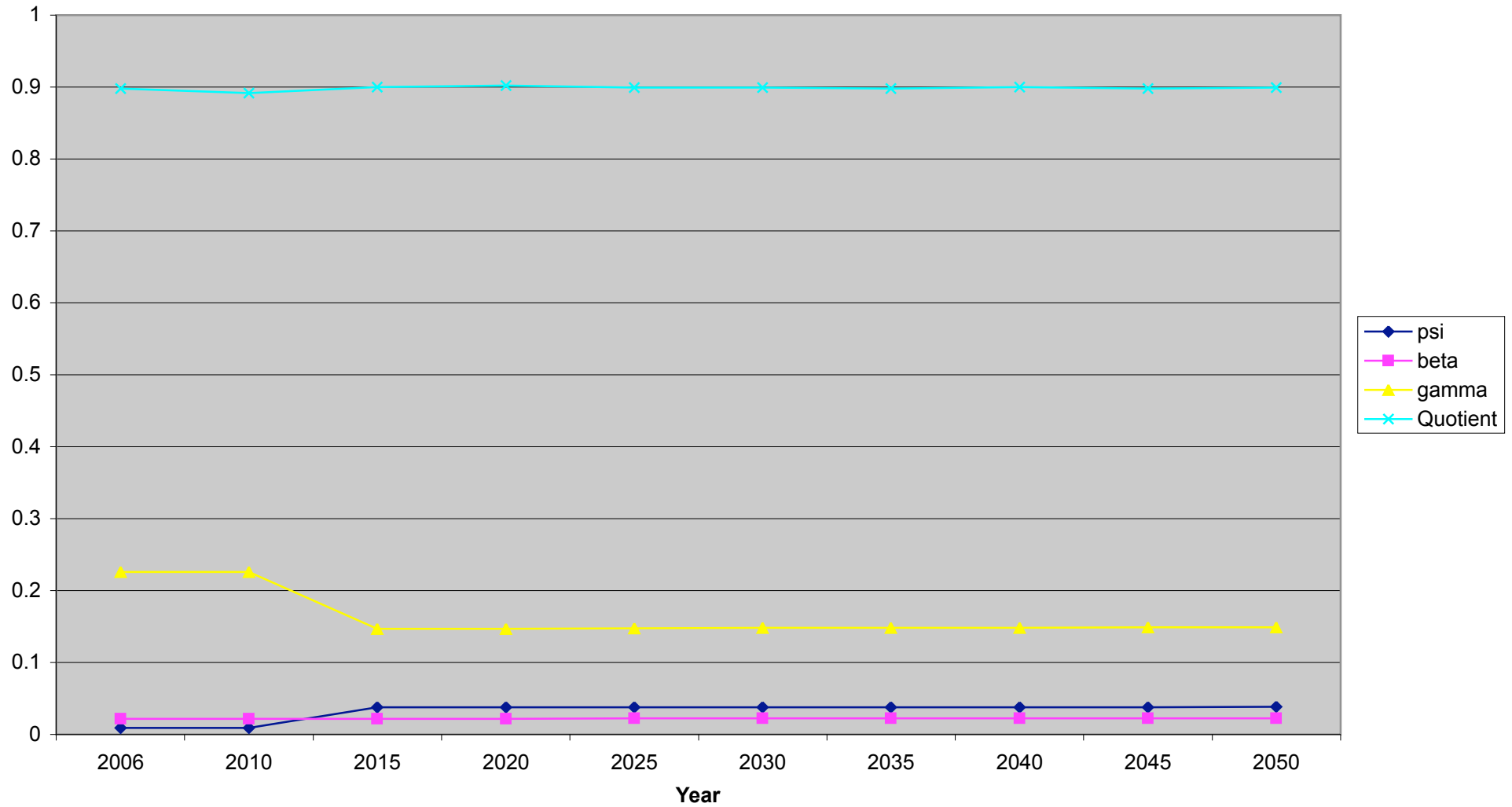


Figure 7a: Estonia

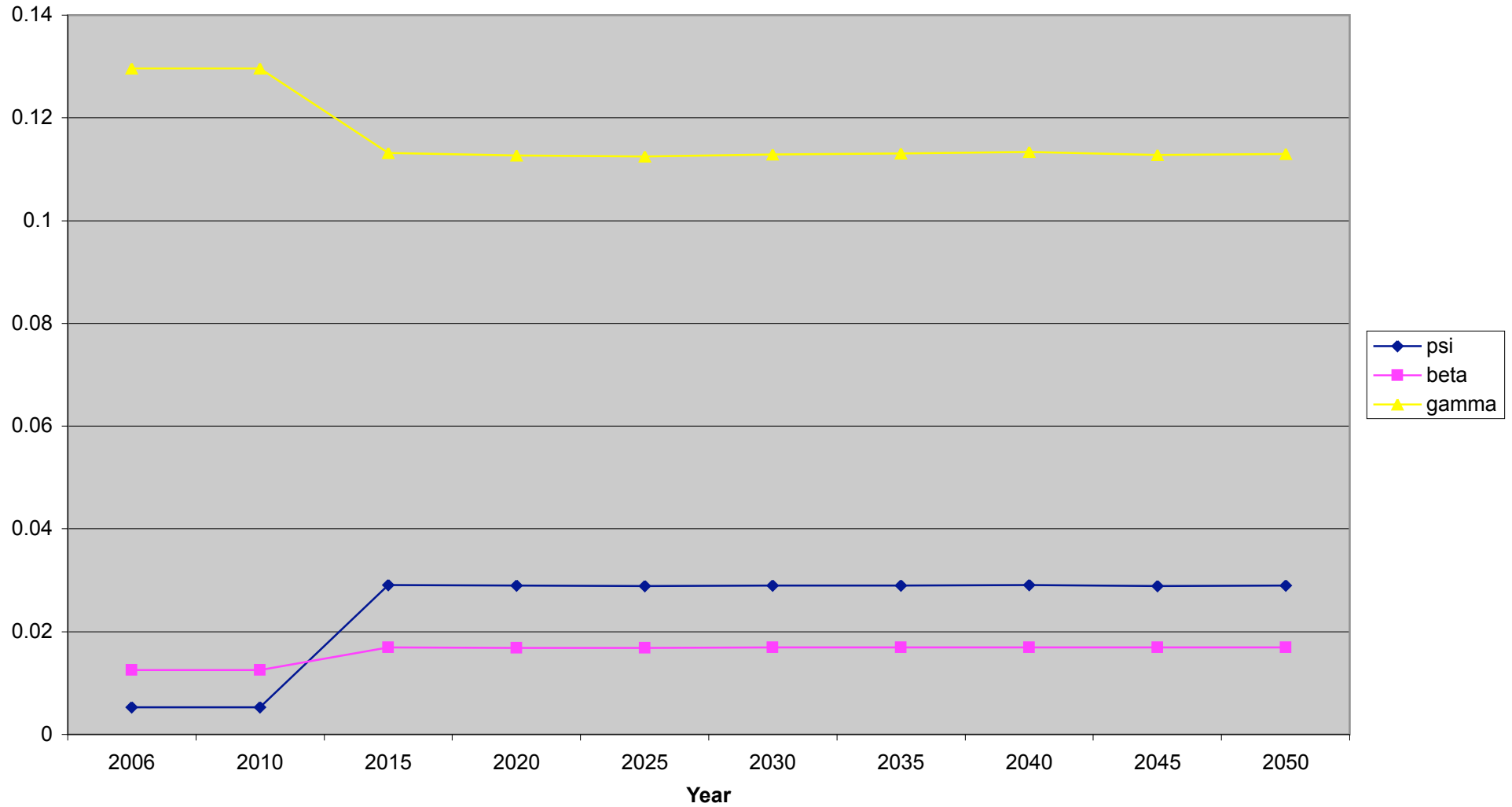


Figure 7b: Estonia

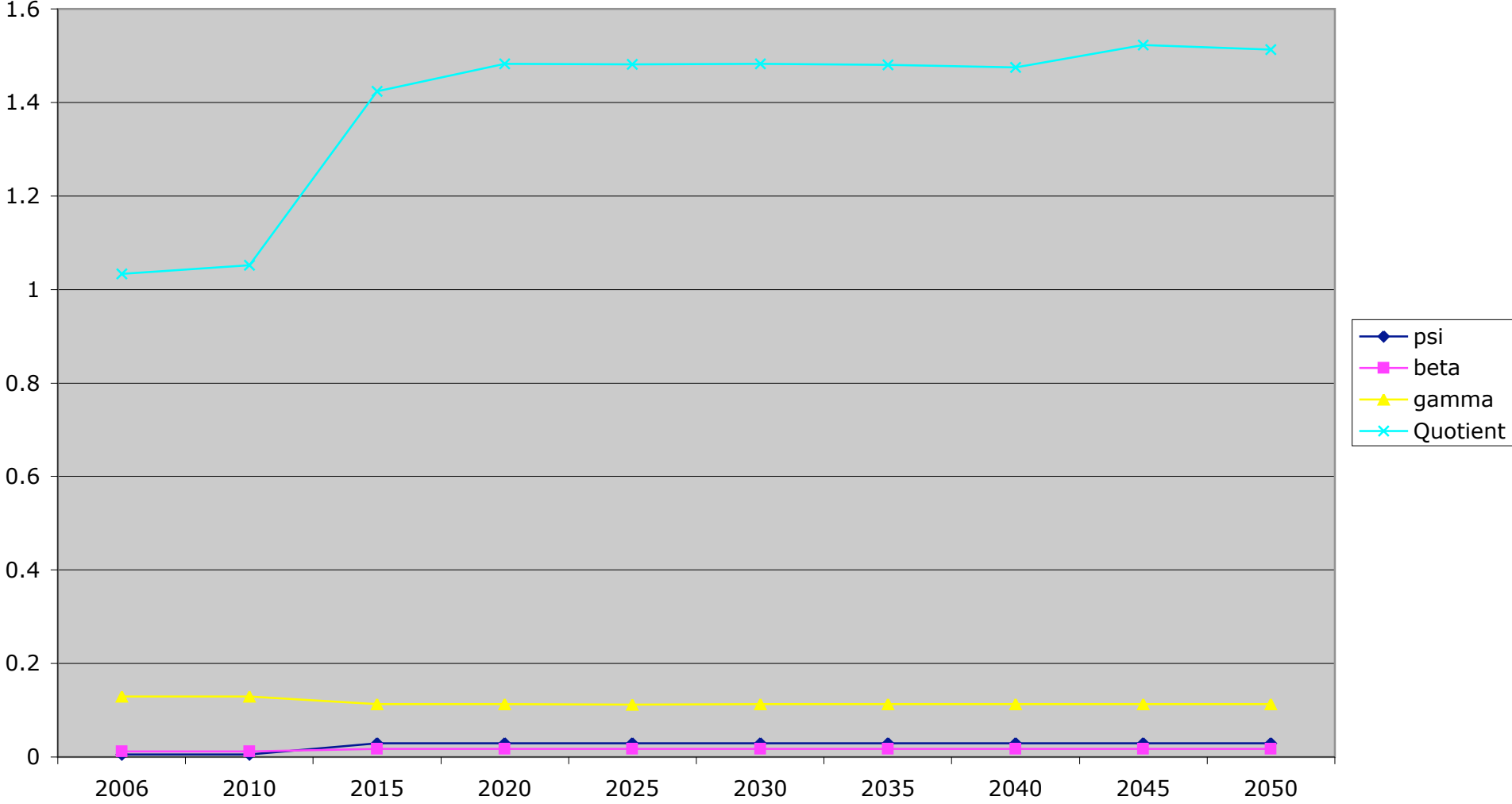


Figure 8a: Finland

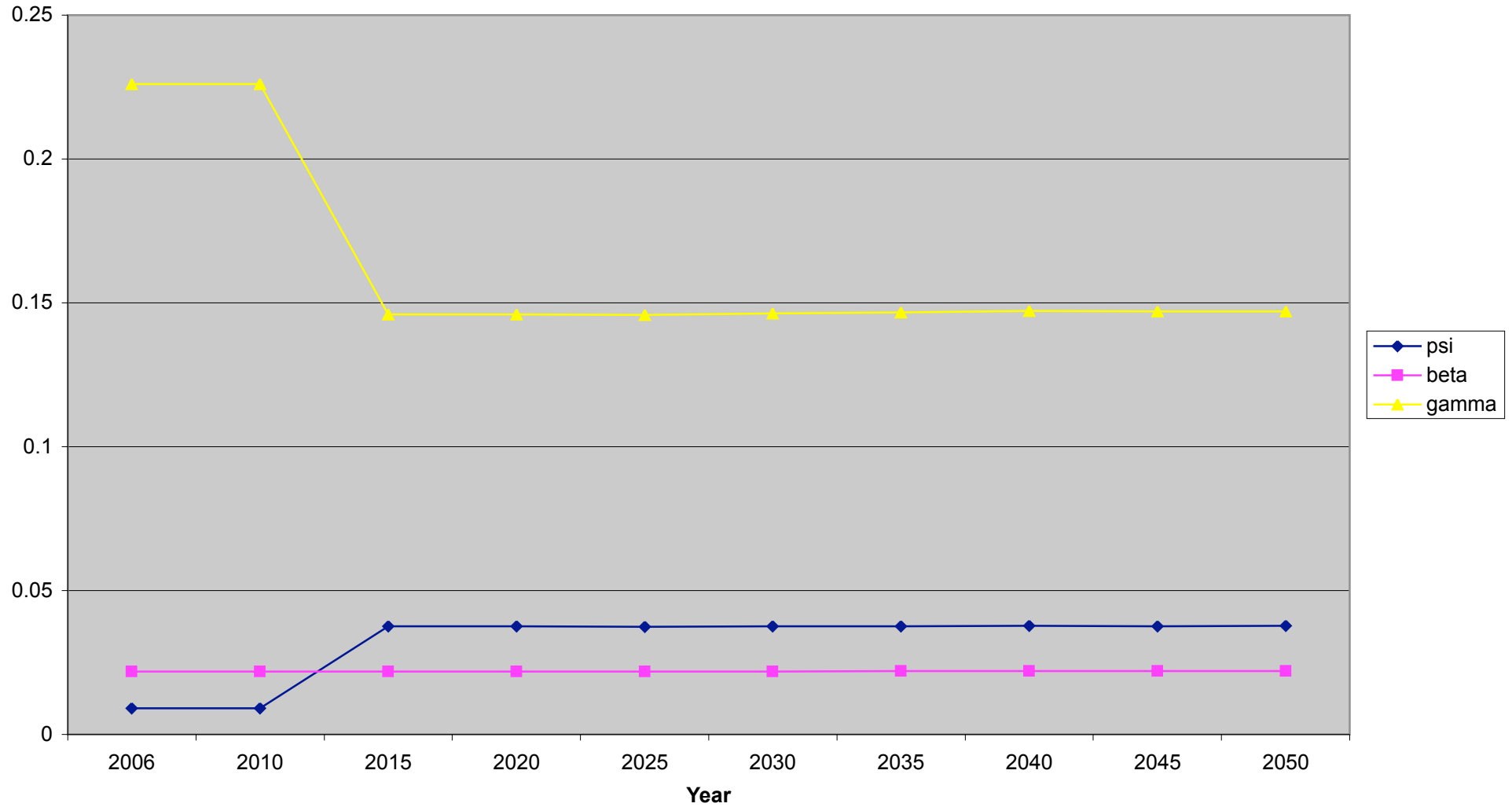


Figure 8b: Finland

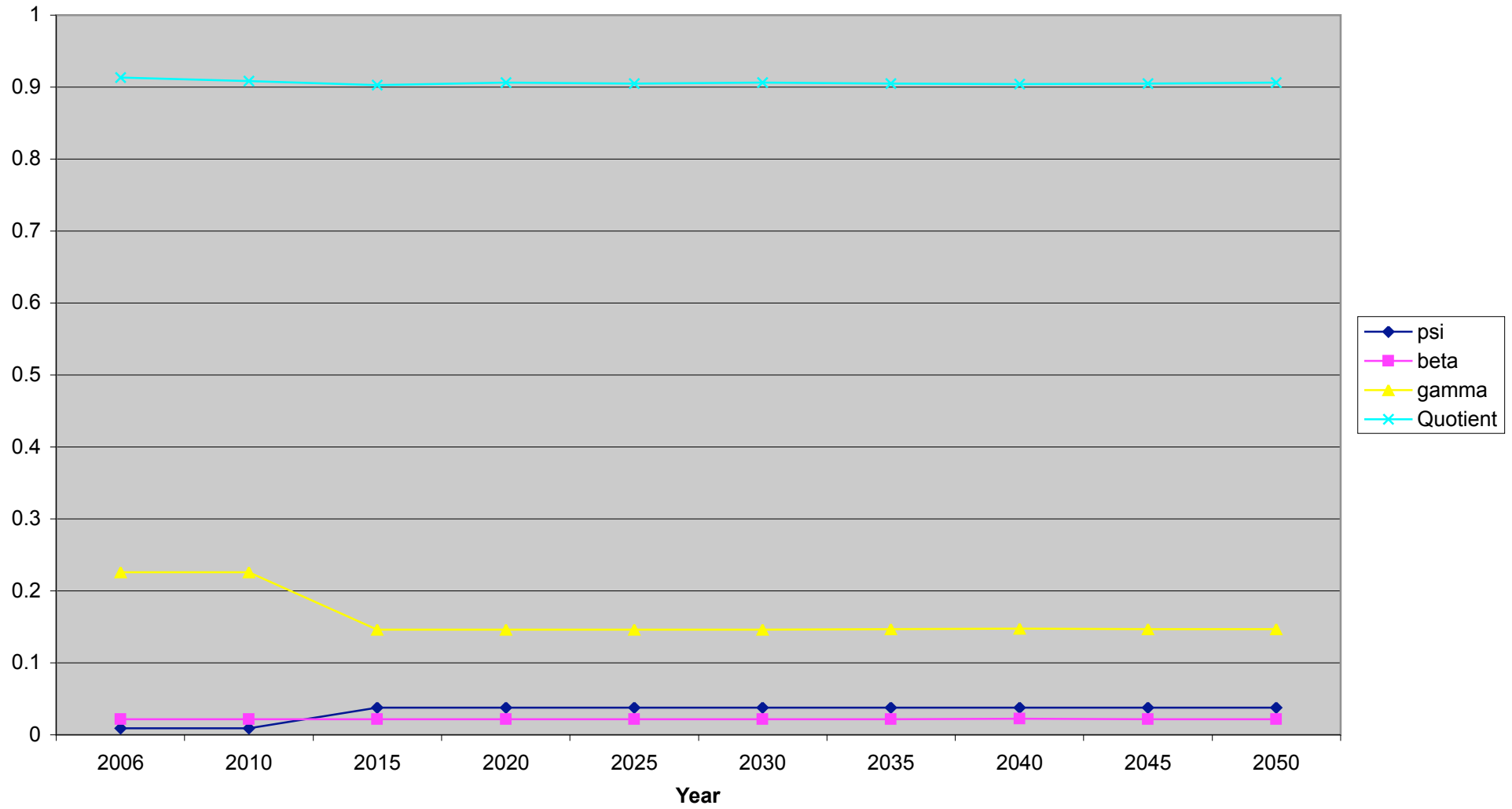


Figure 9a: France

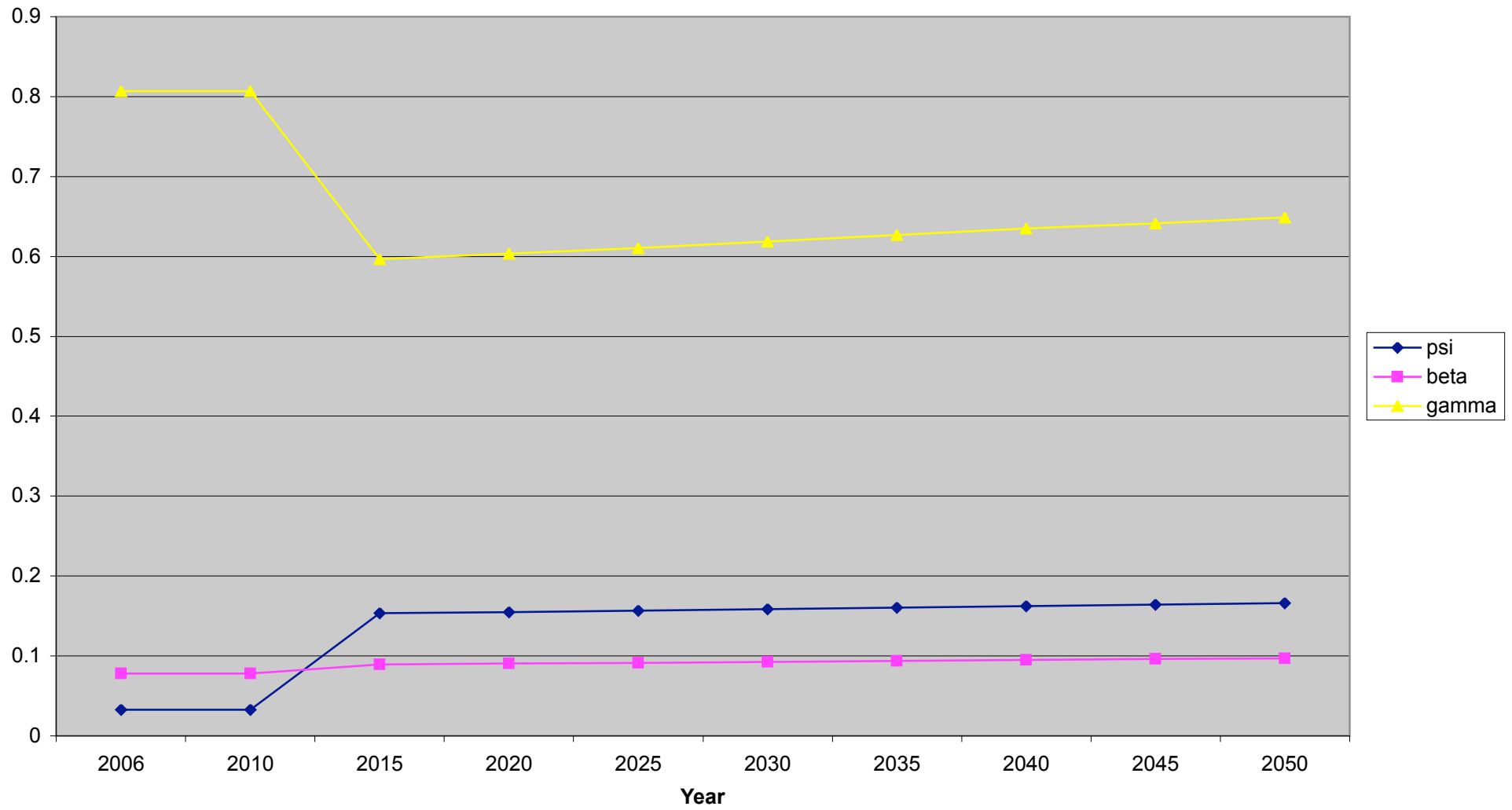


Figure 9b: France

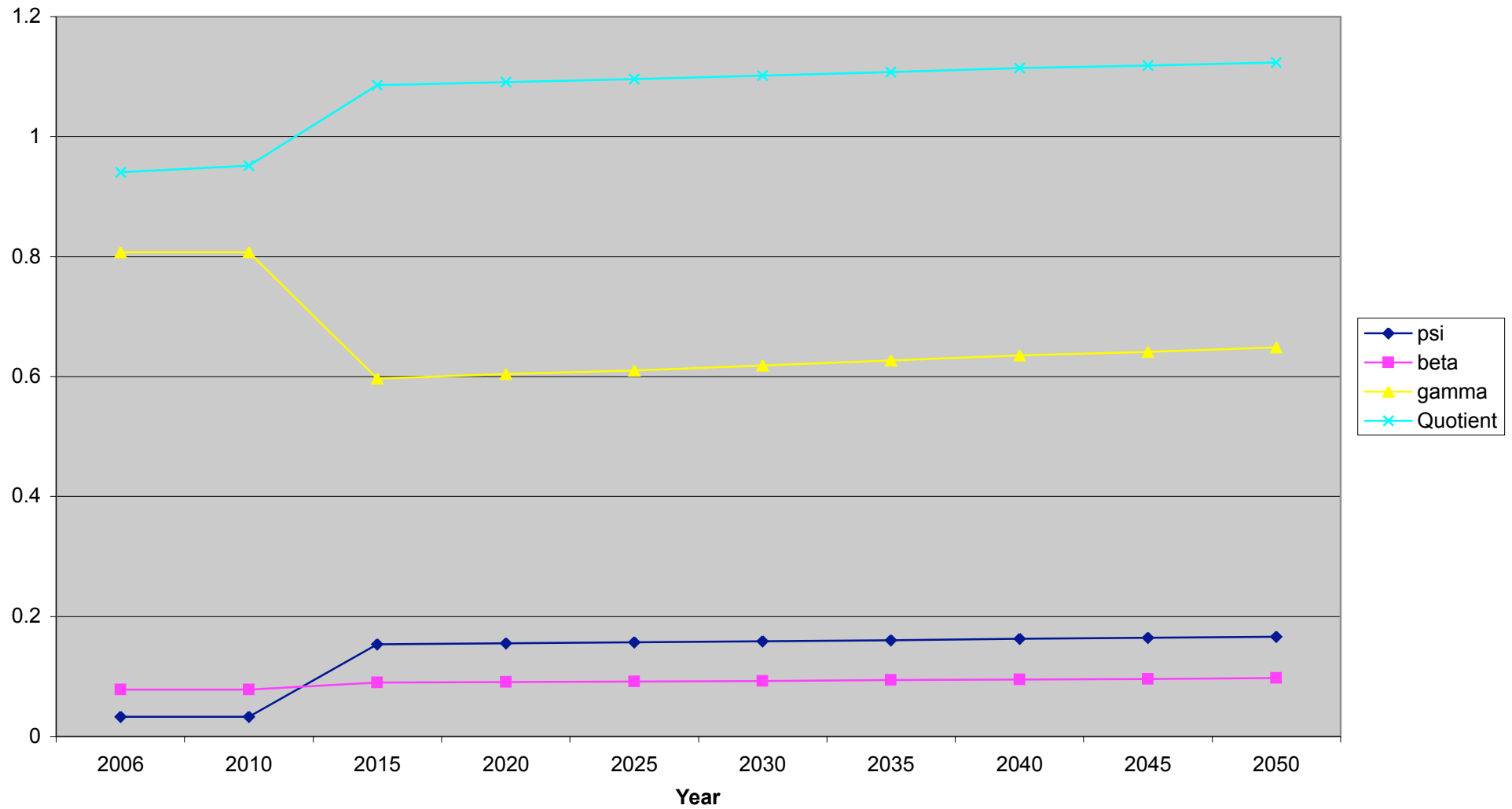


Figure 10a: Germany

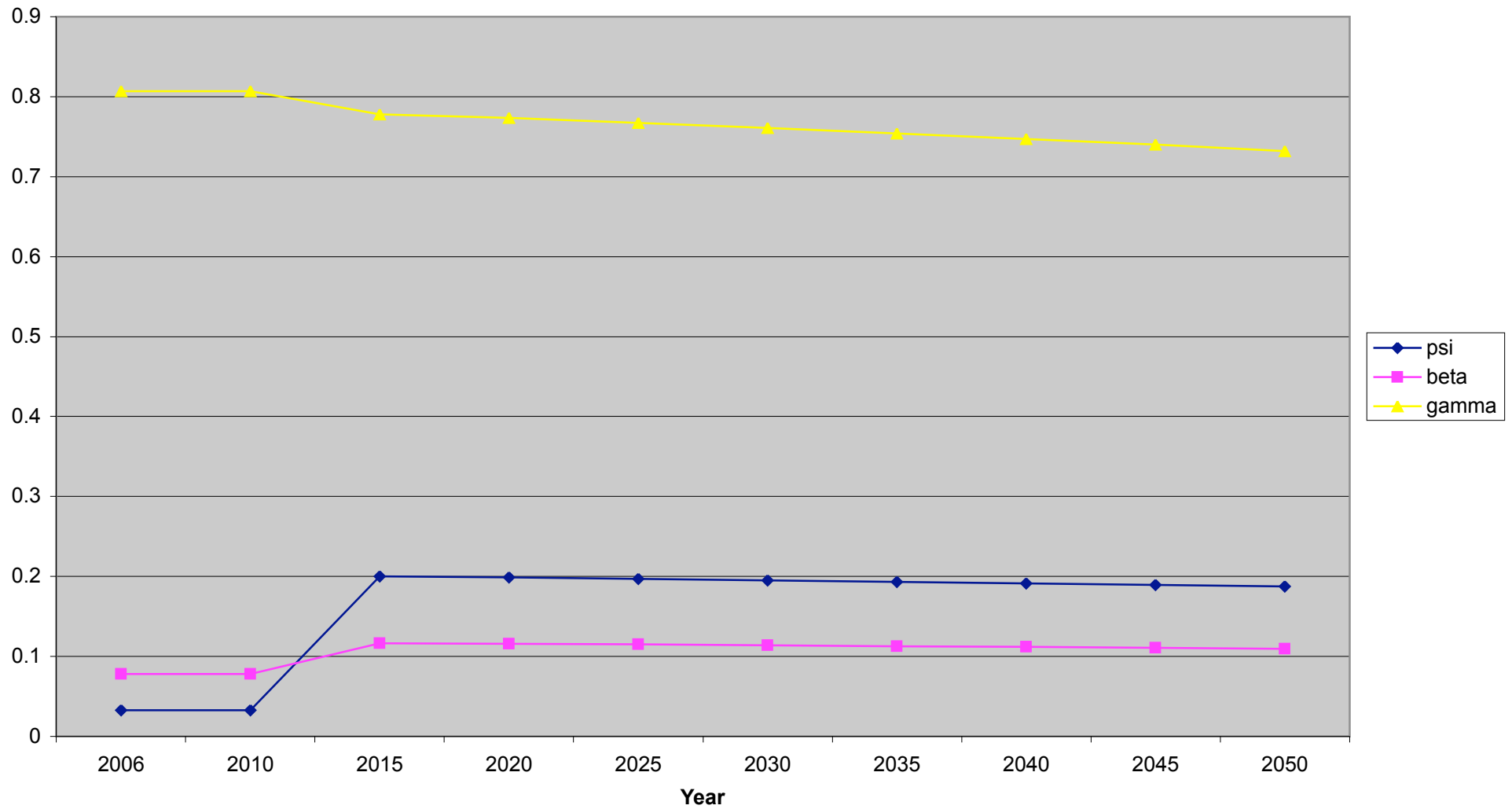


Figure 10b: Germany

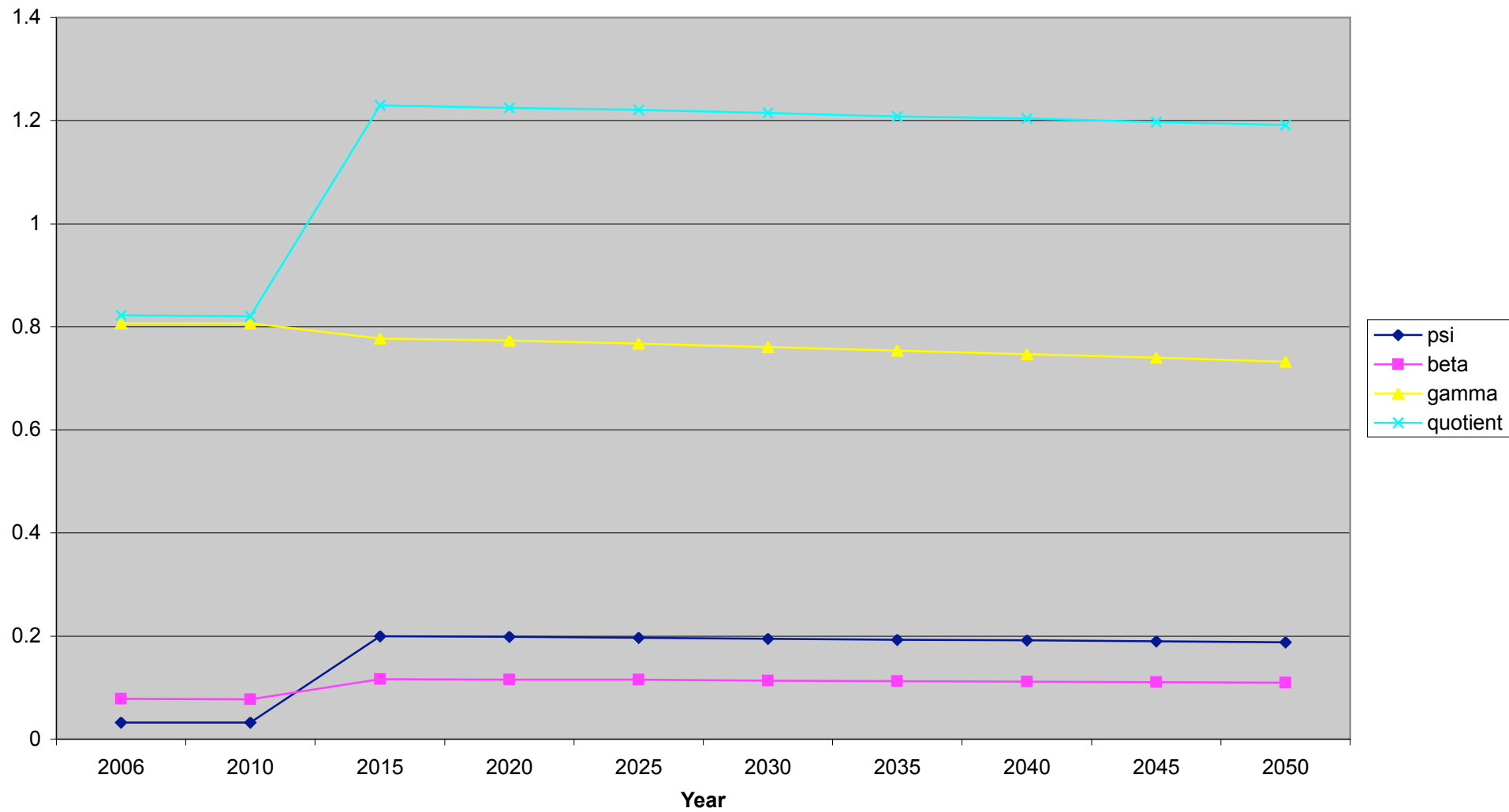


Figure 11a: Greece

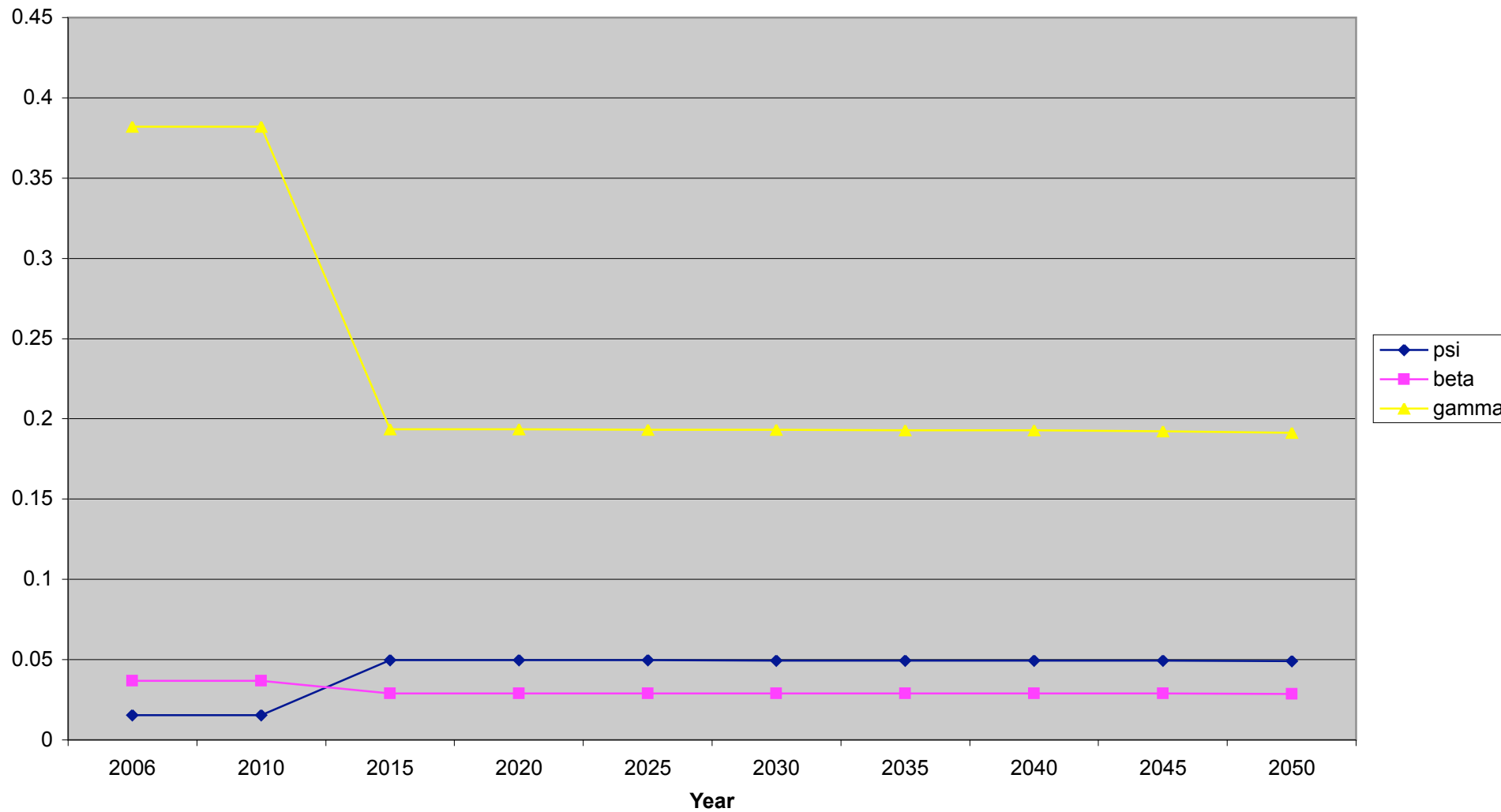


Figure 11b: Greece

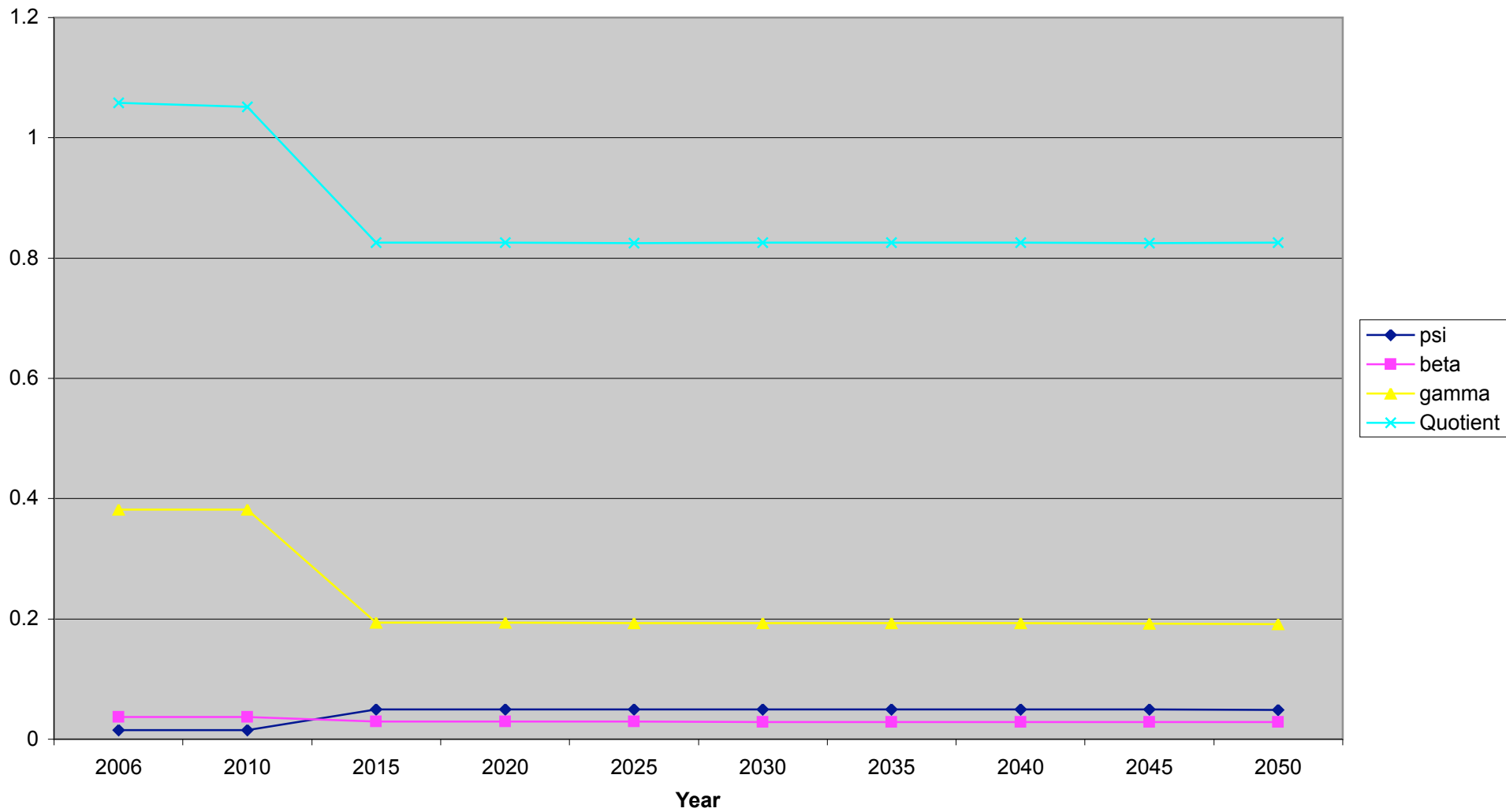


Figure 12a: Hungary

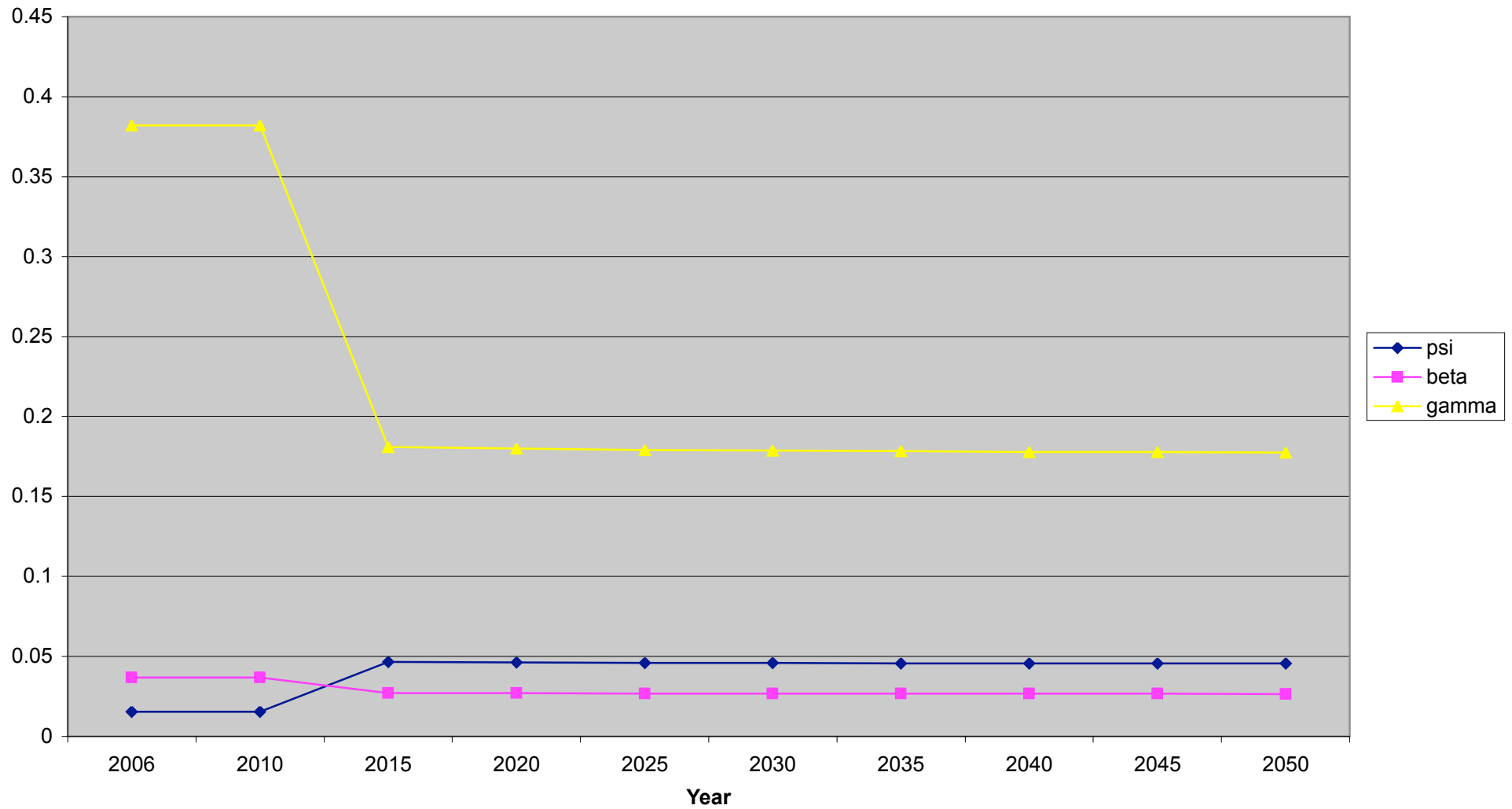


Figure 12b: Hungary

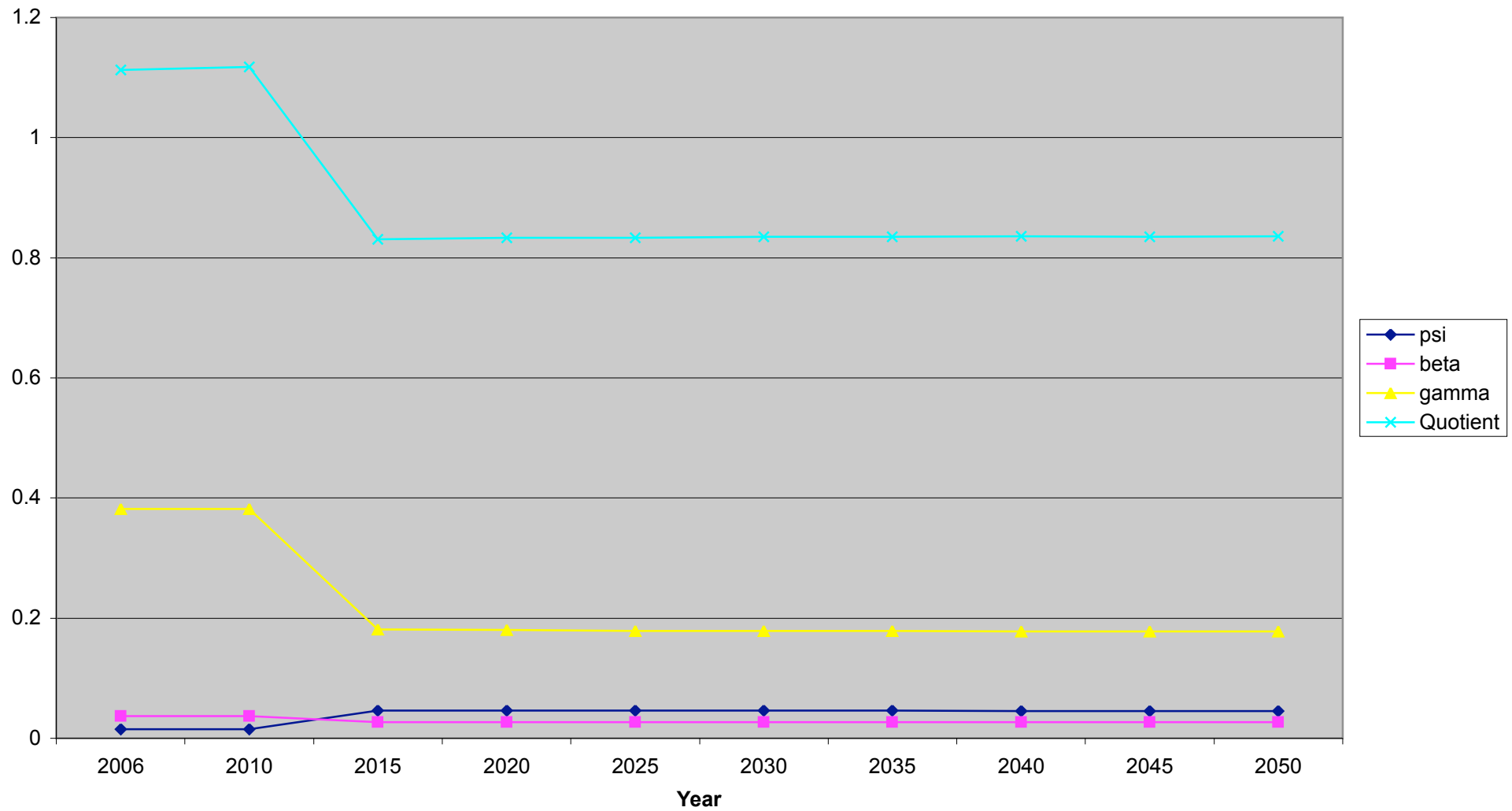


Figure 13a: Ireland

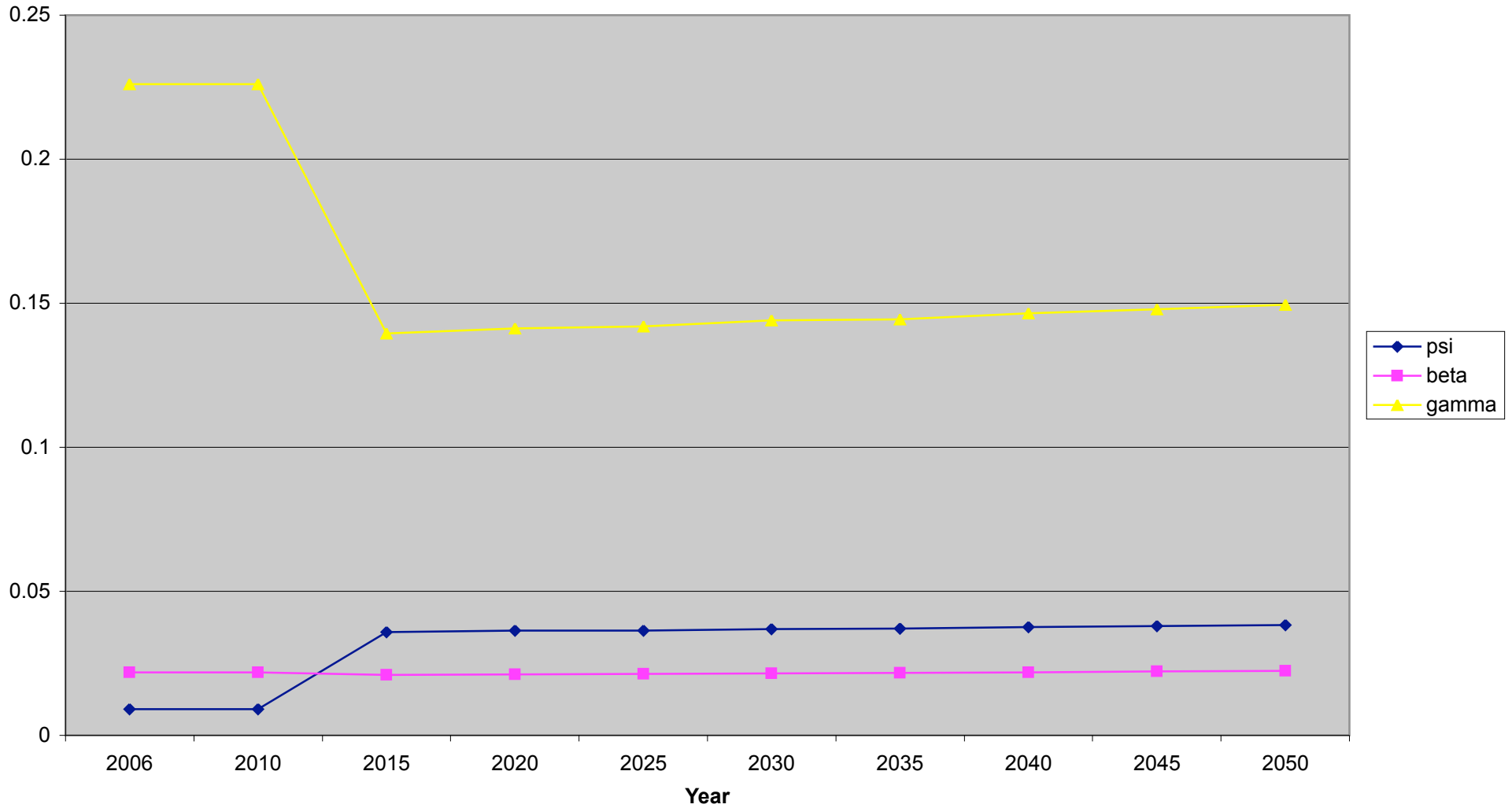


Figure 13b: Ireland

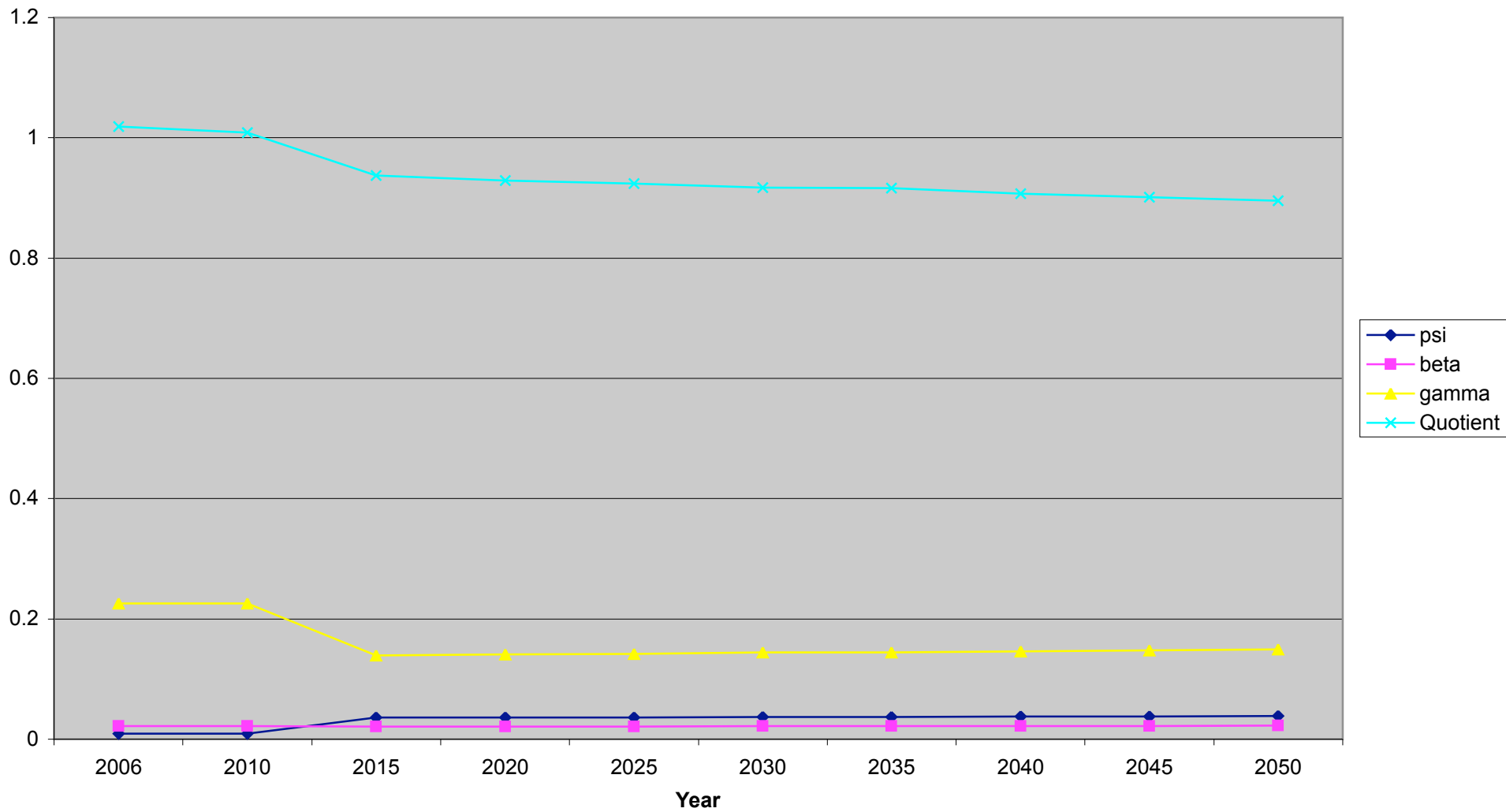


Figure 14a: Italy

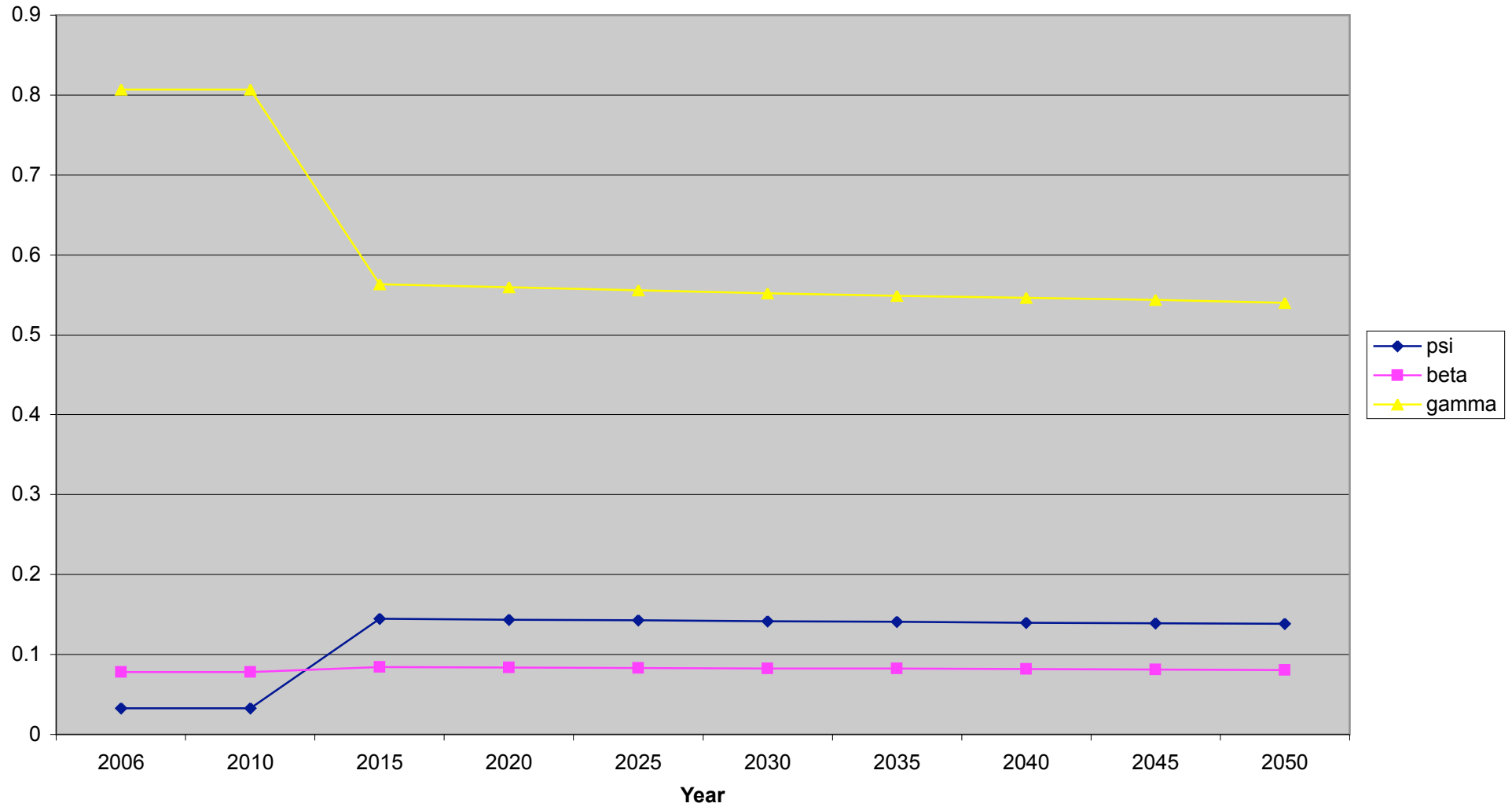


Figure 14b: Italy

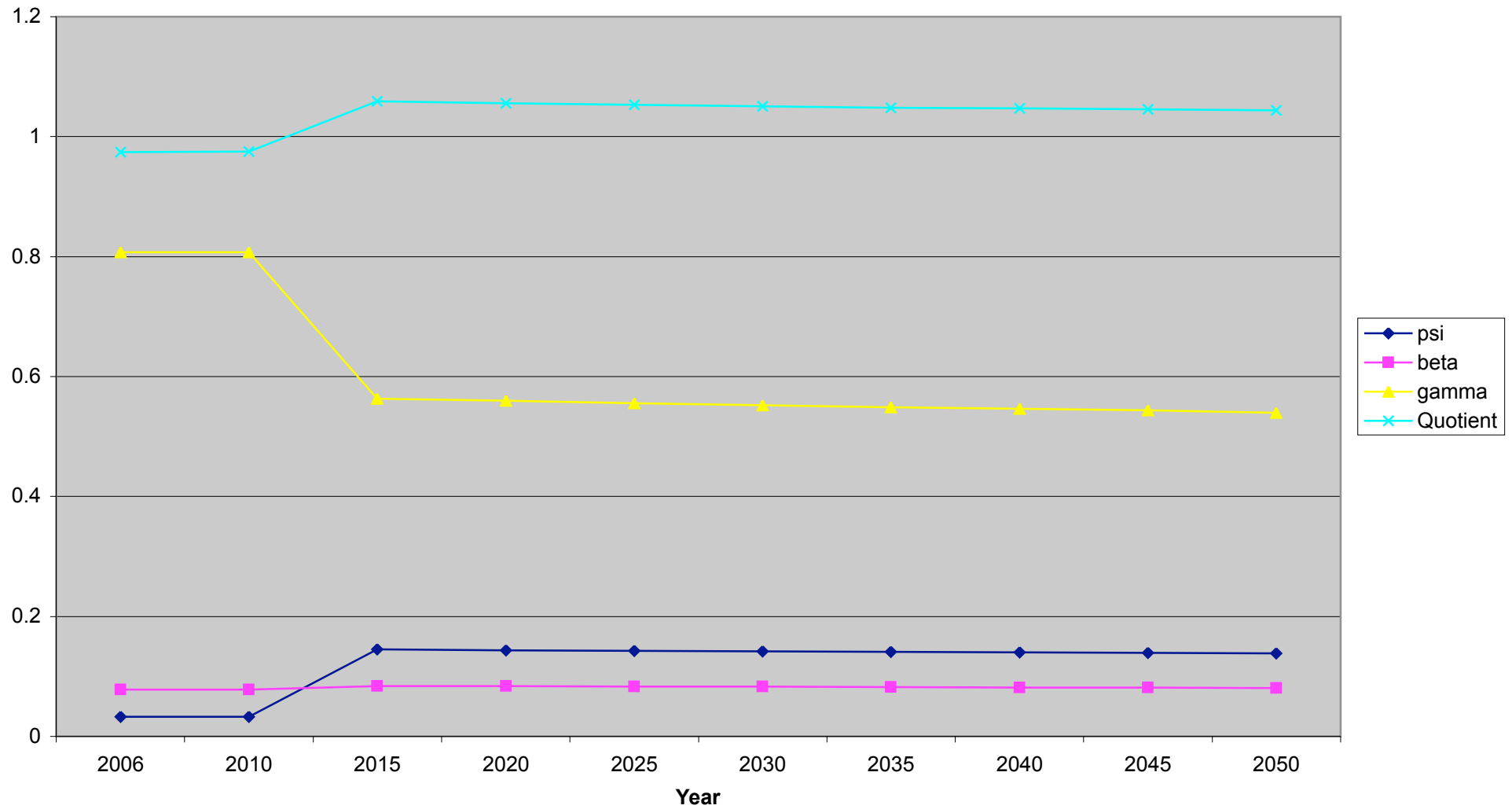


Figure 15a: Latvia

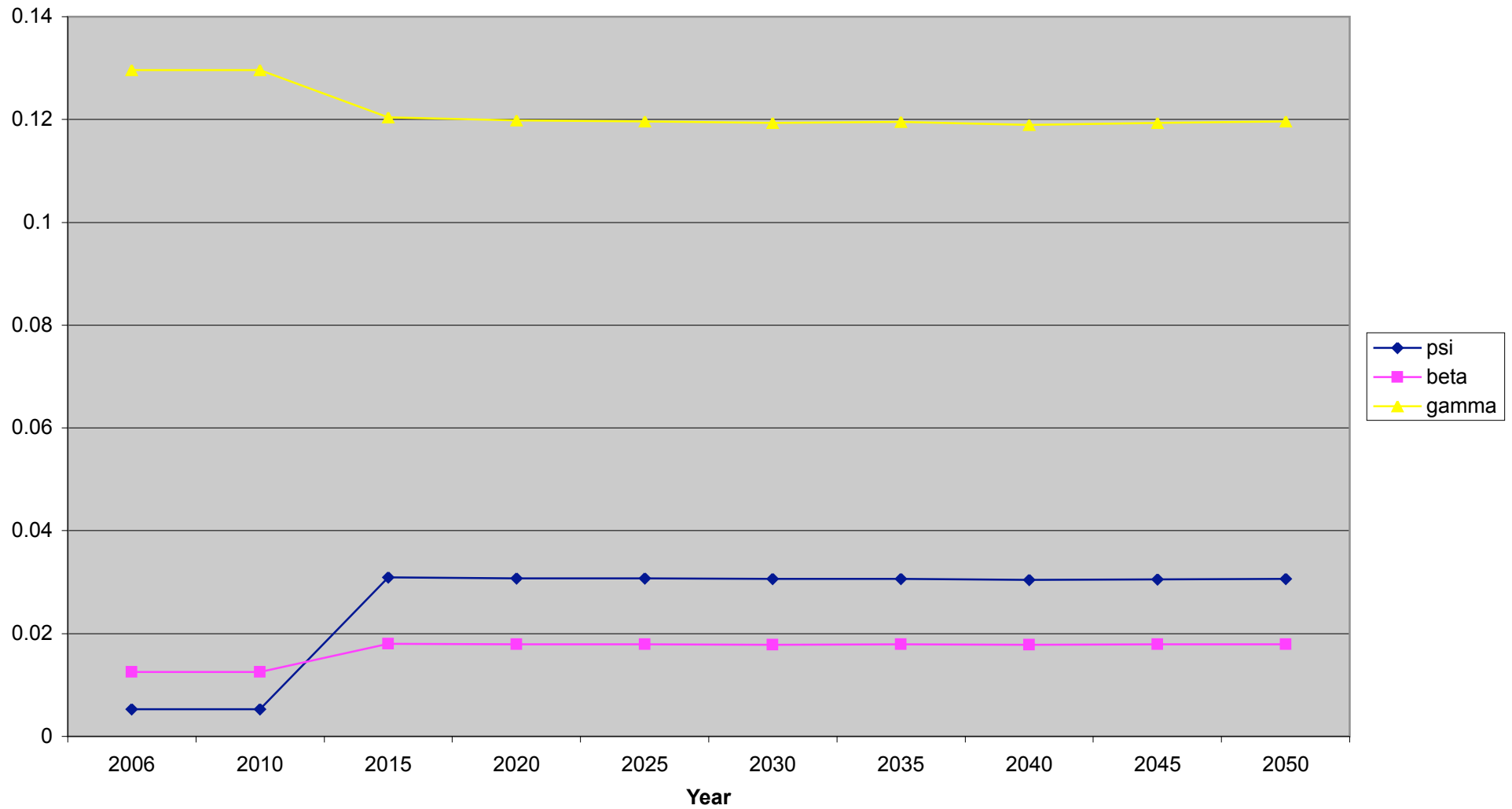


Figure 15b: Latvia

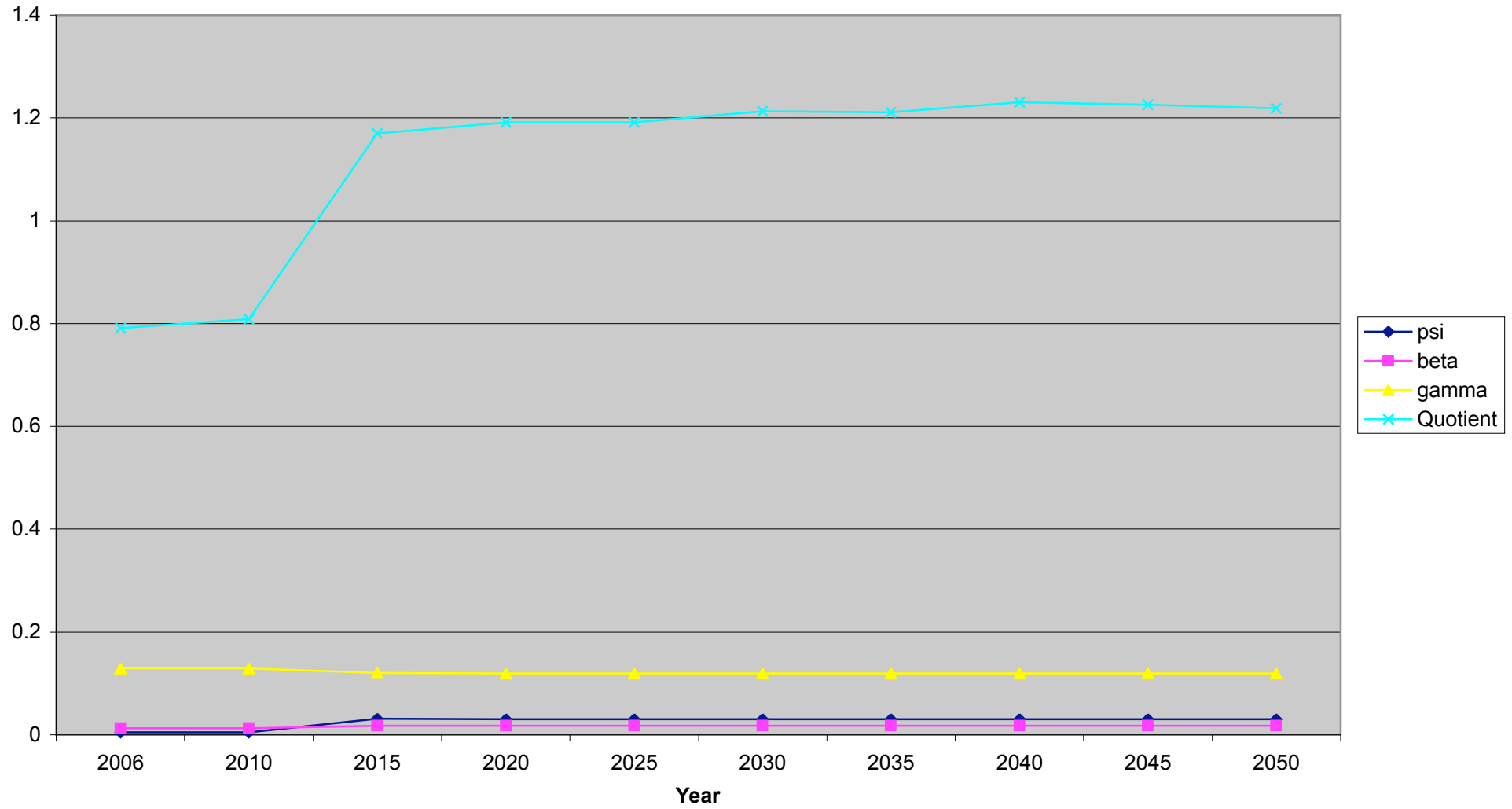


Figure 16a: Lithuania

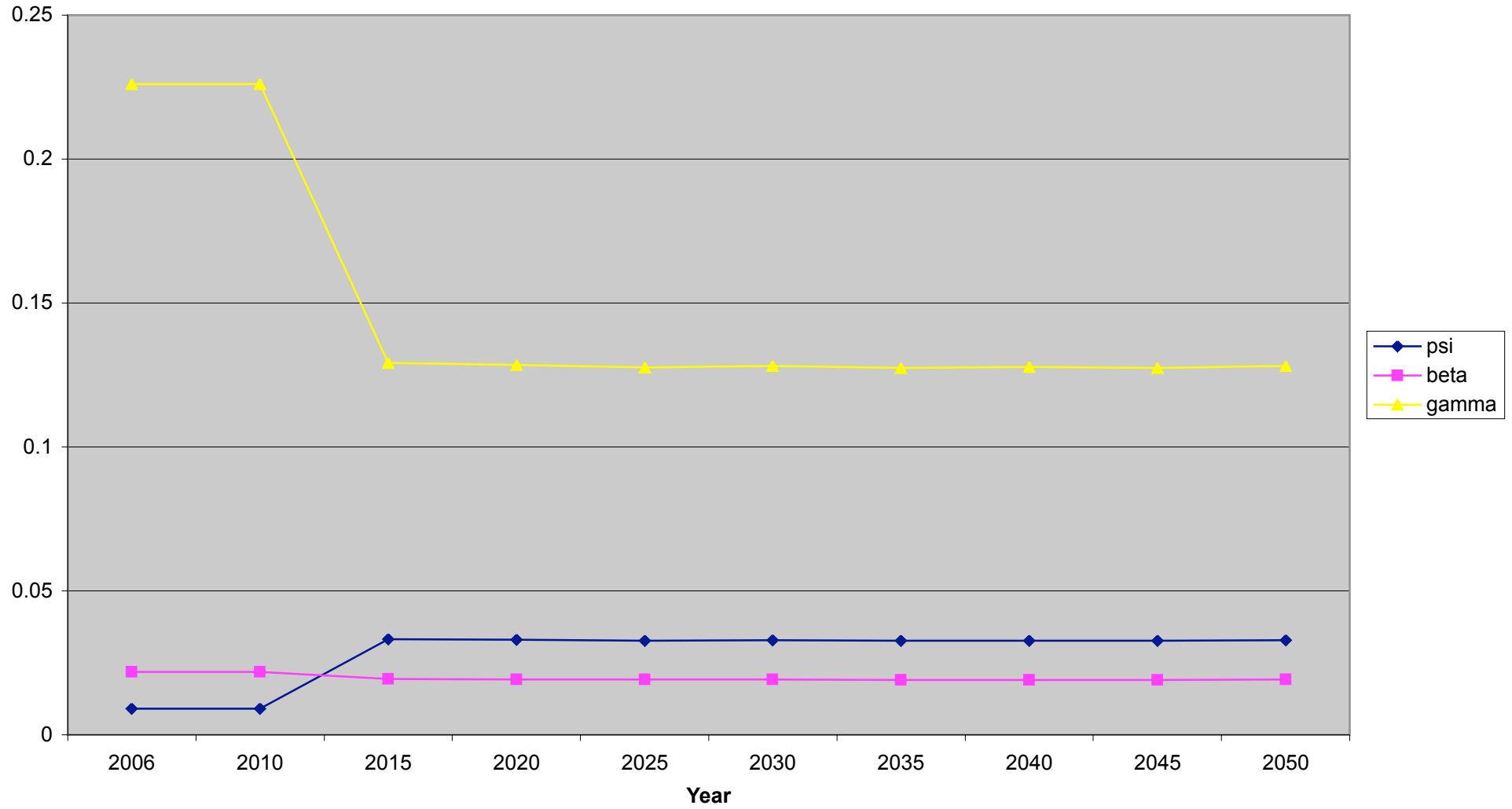


Figure 16b: Lithuania

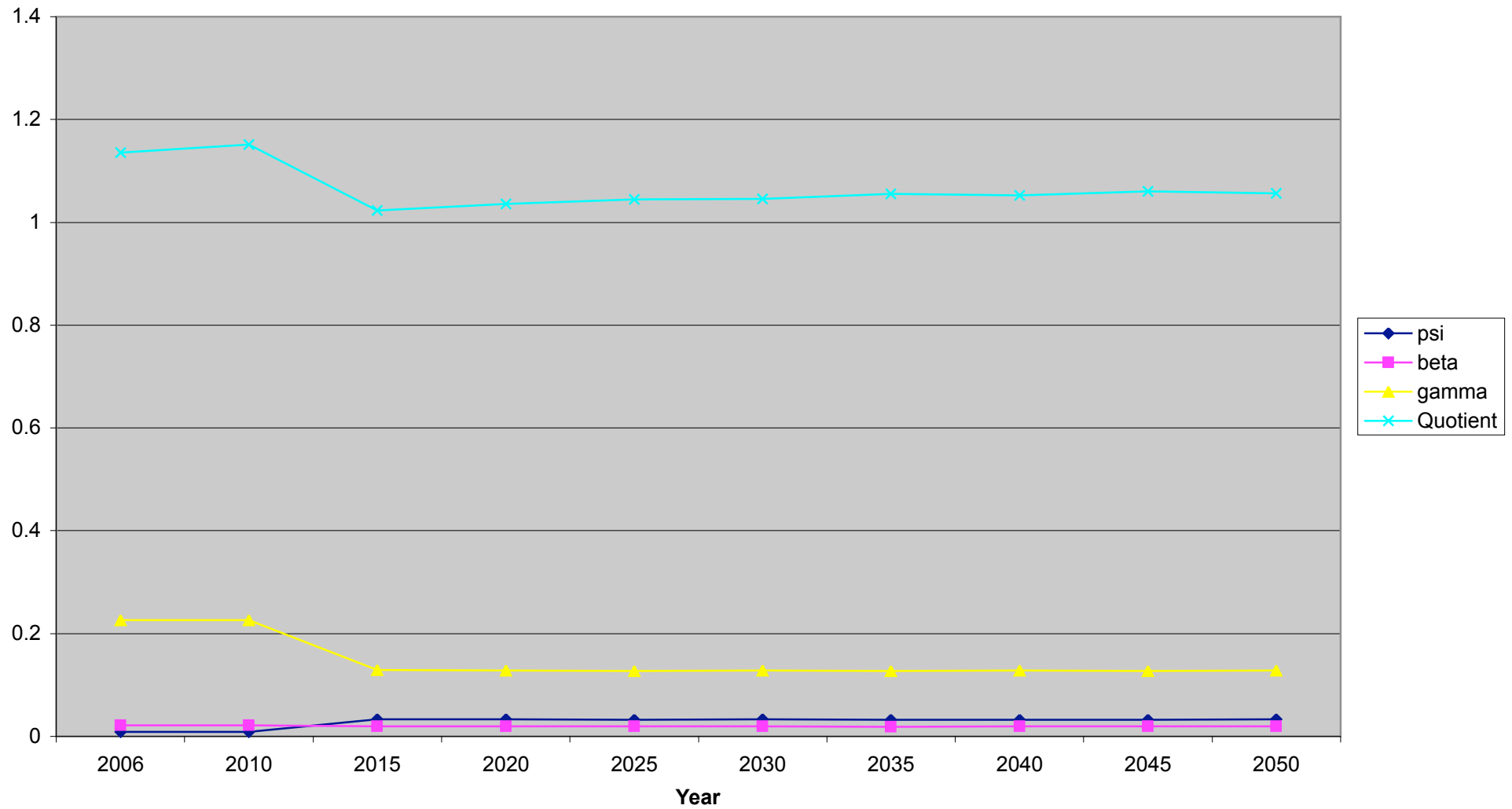


Figure 17a: Luxembourg

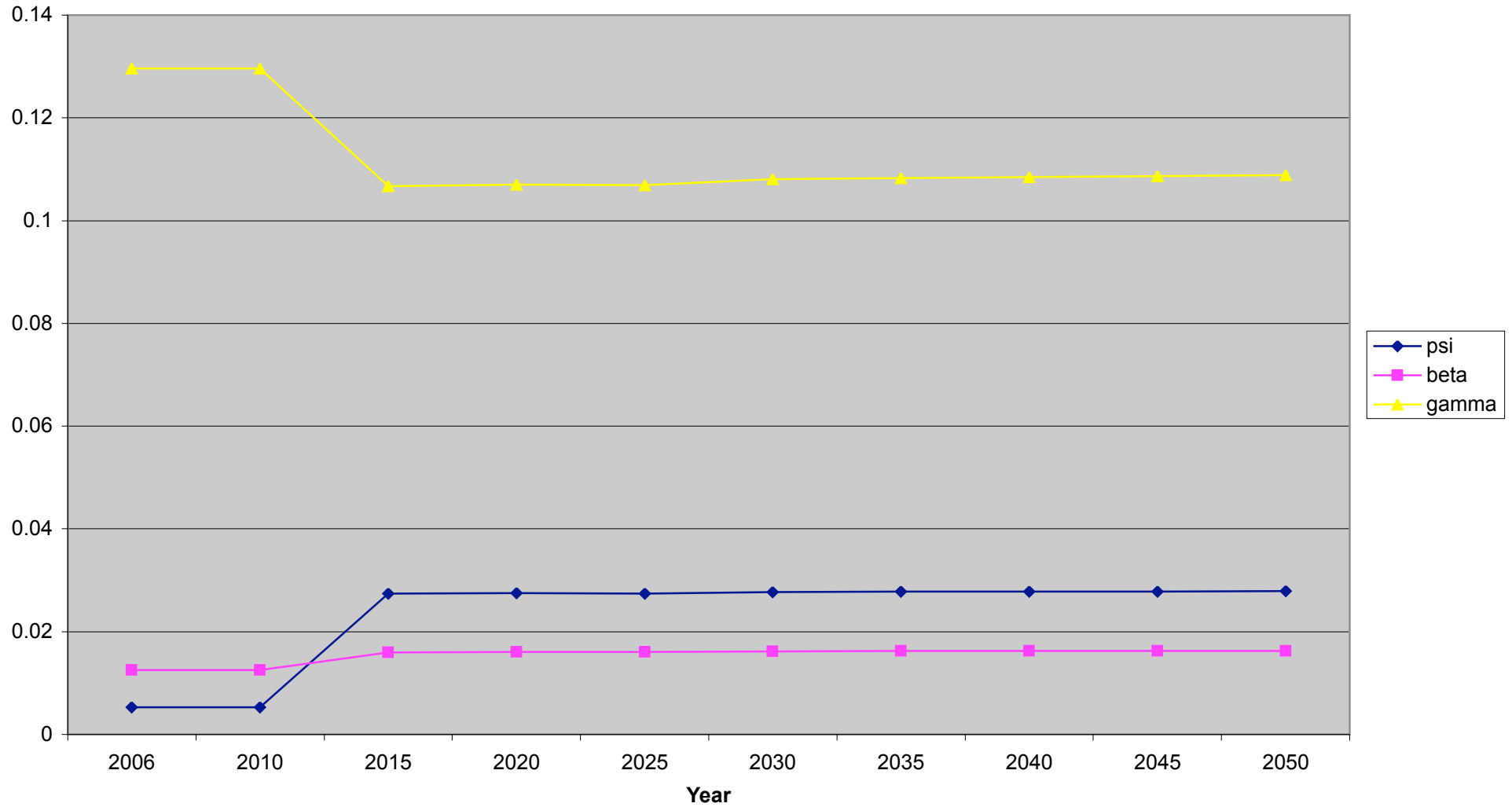


Figure 17b: Luxembourg

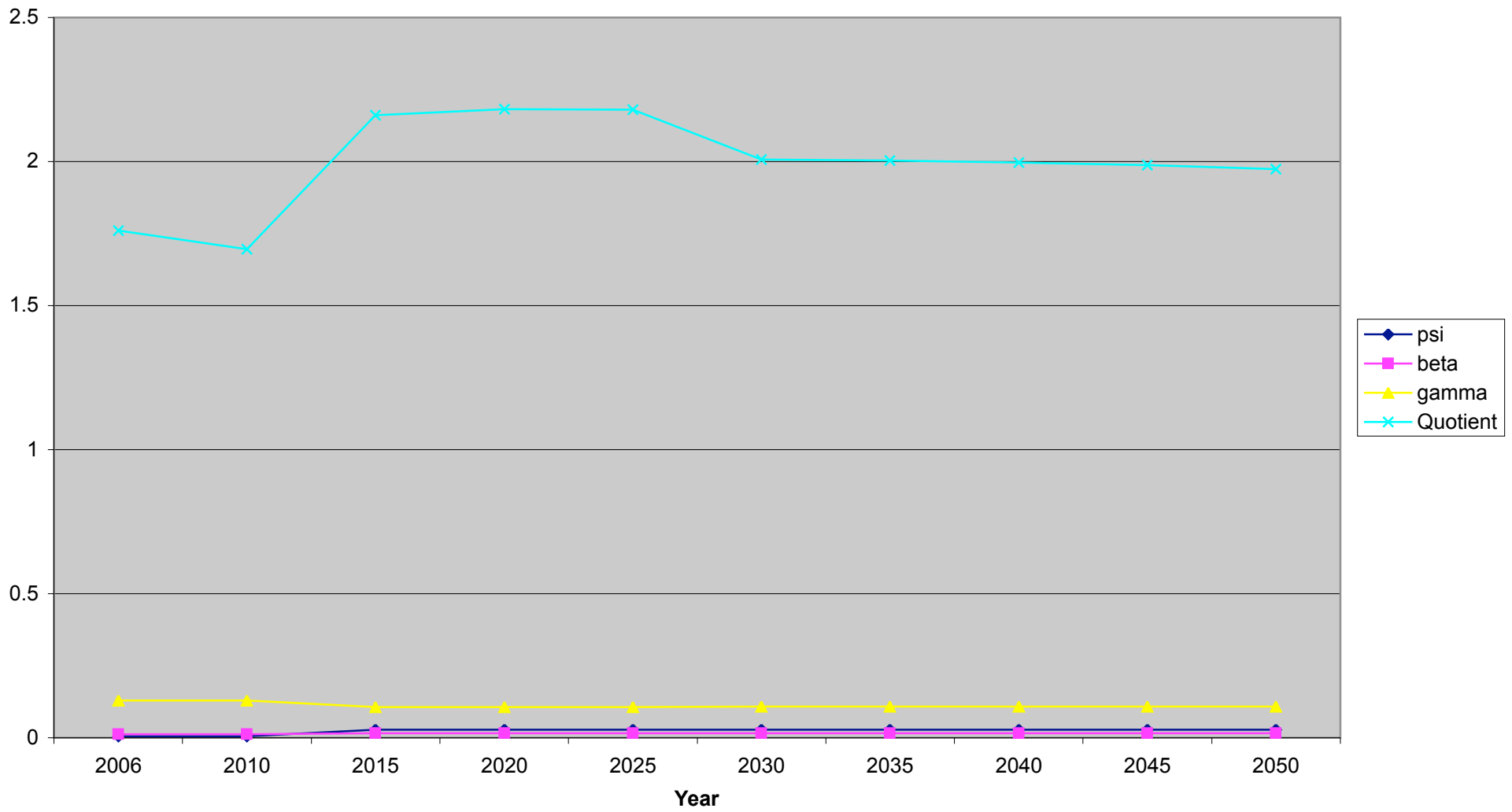


Figure 18a: Malta

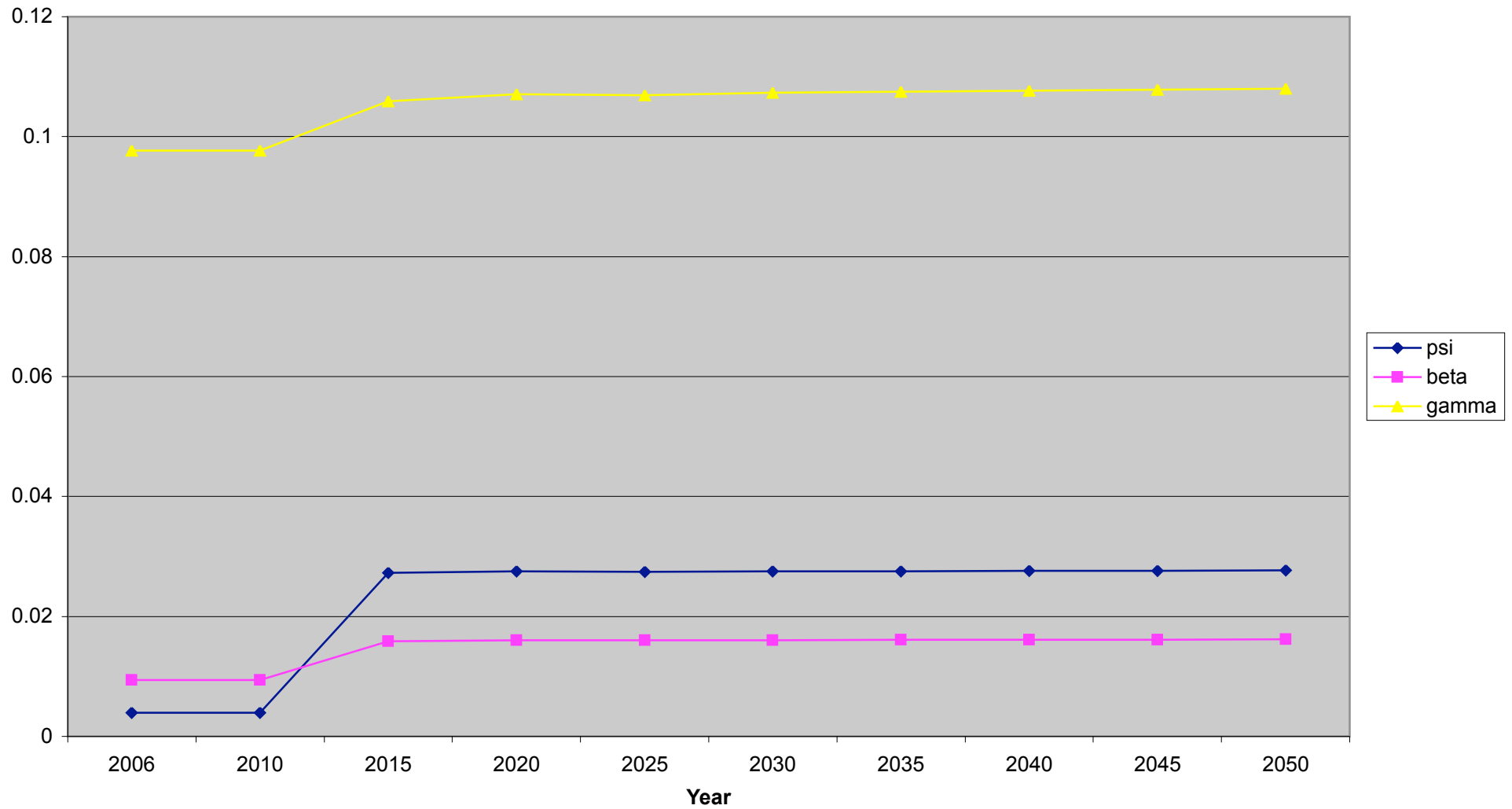


Figure 18b: Malta

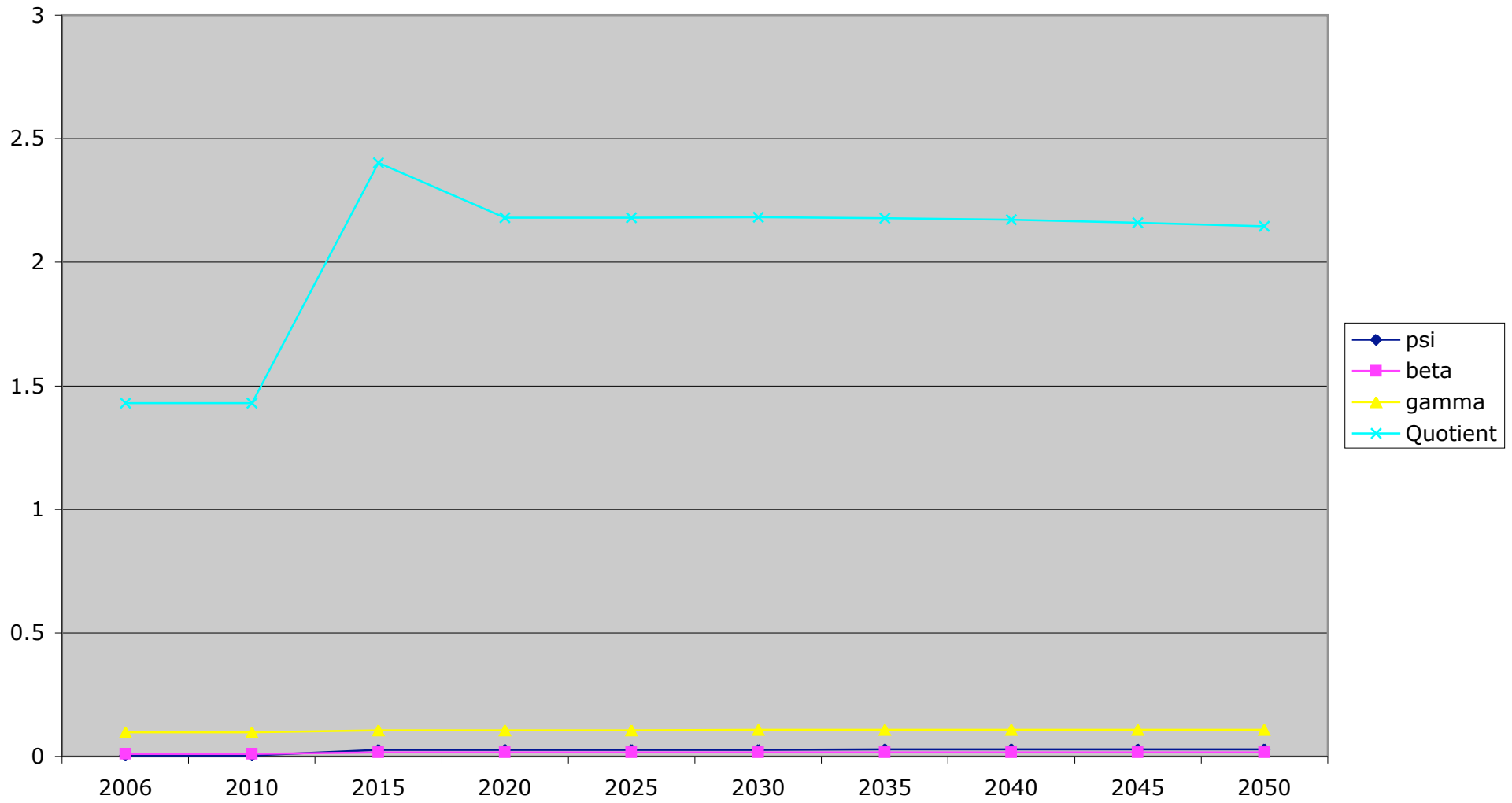


Figure 19a: Netherlands

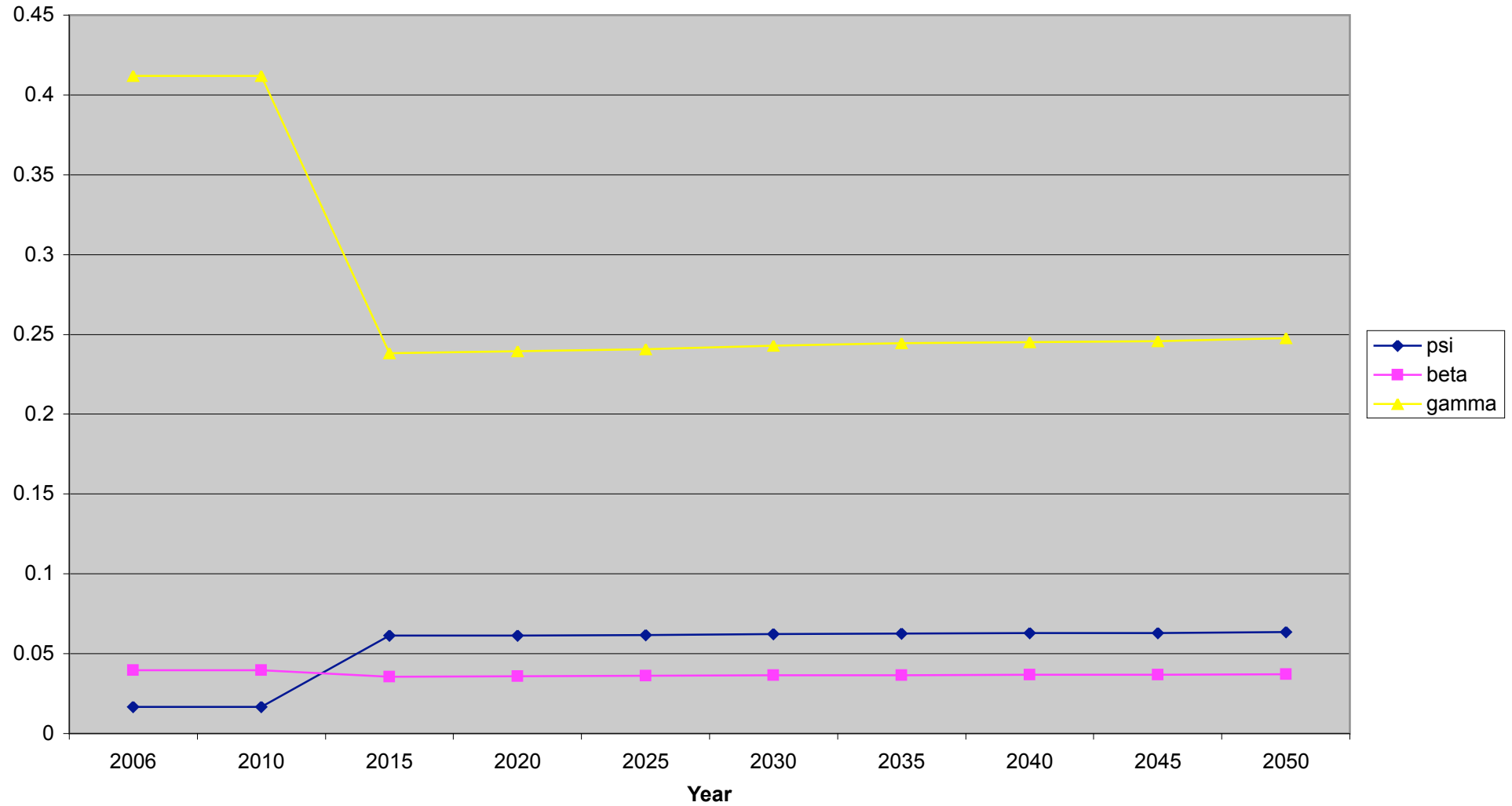


Figure 19b: Netherlands

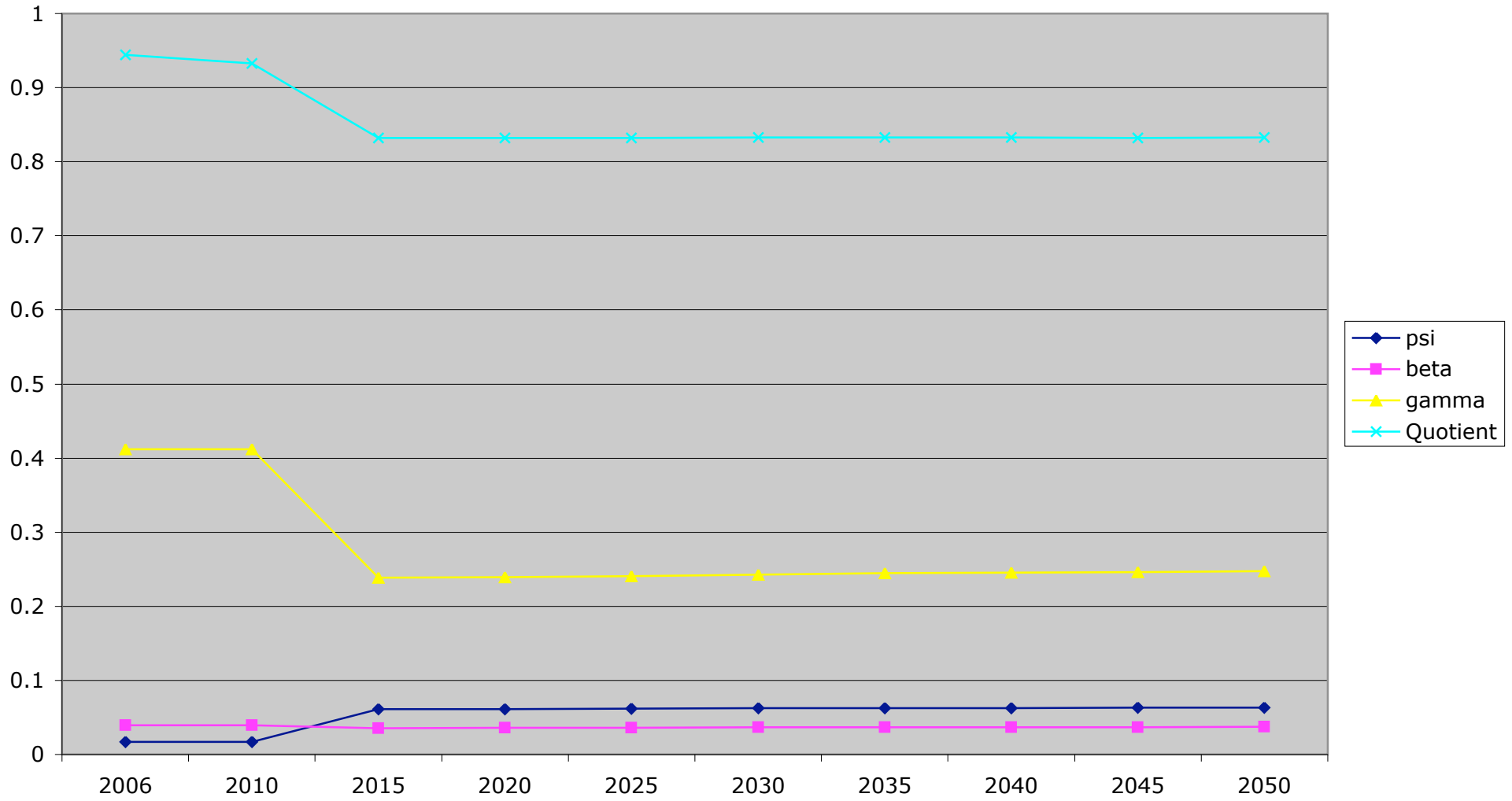


Figure 20a: Poland

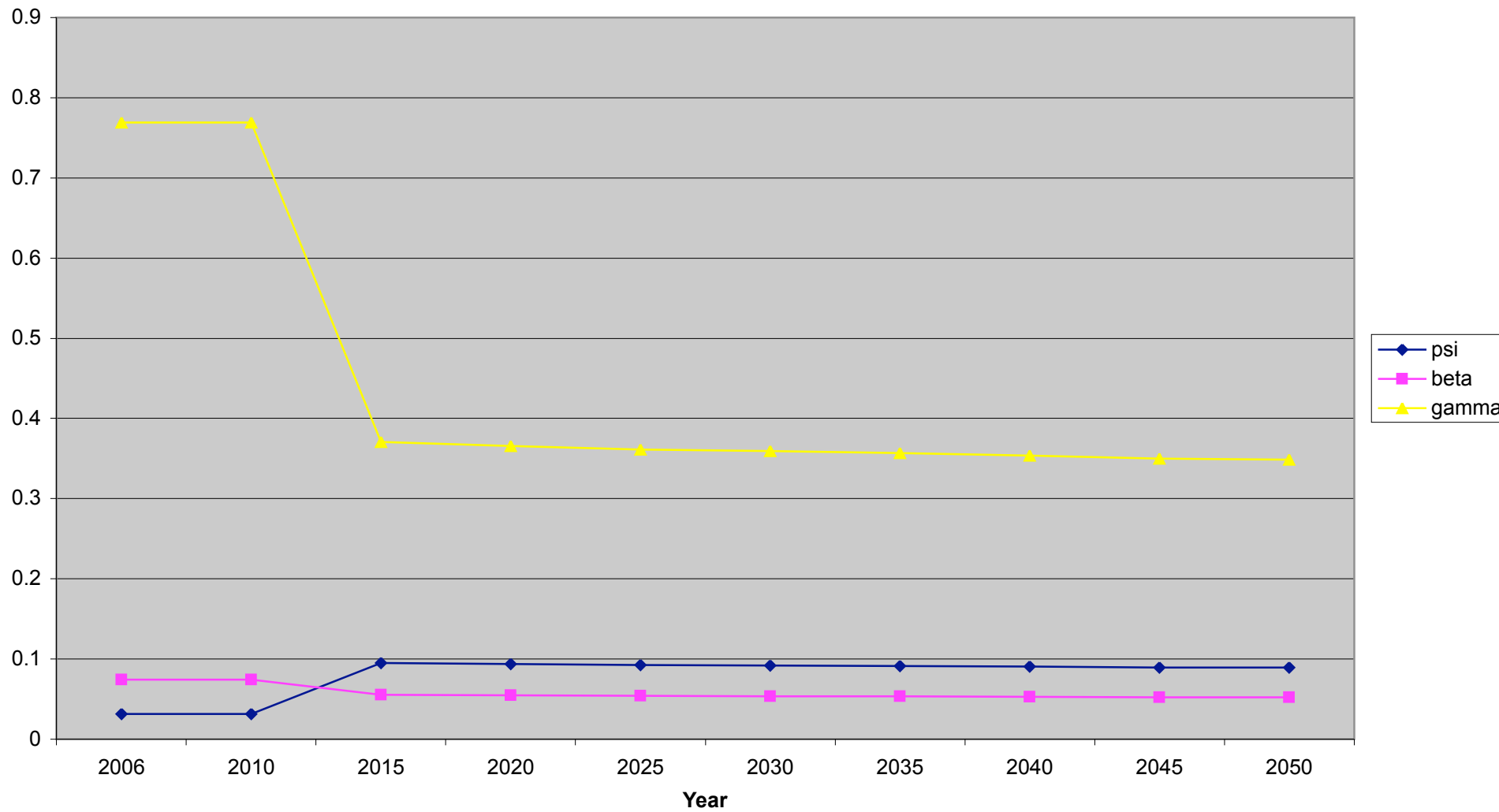


Figure 20b: Poland

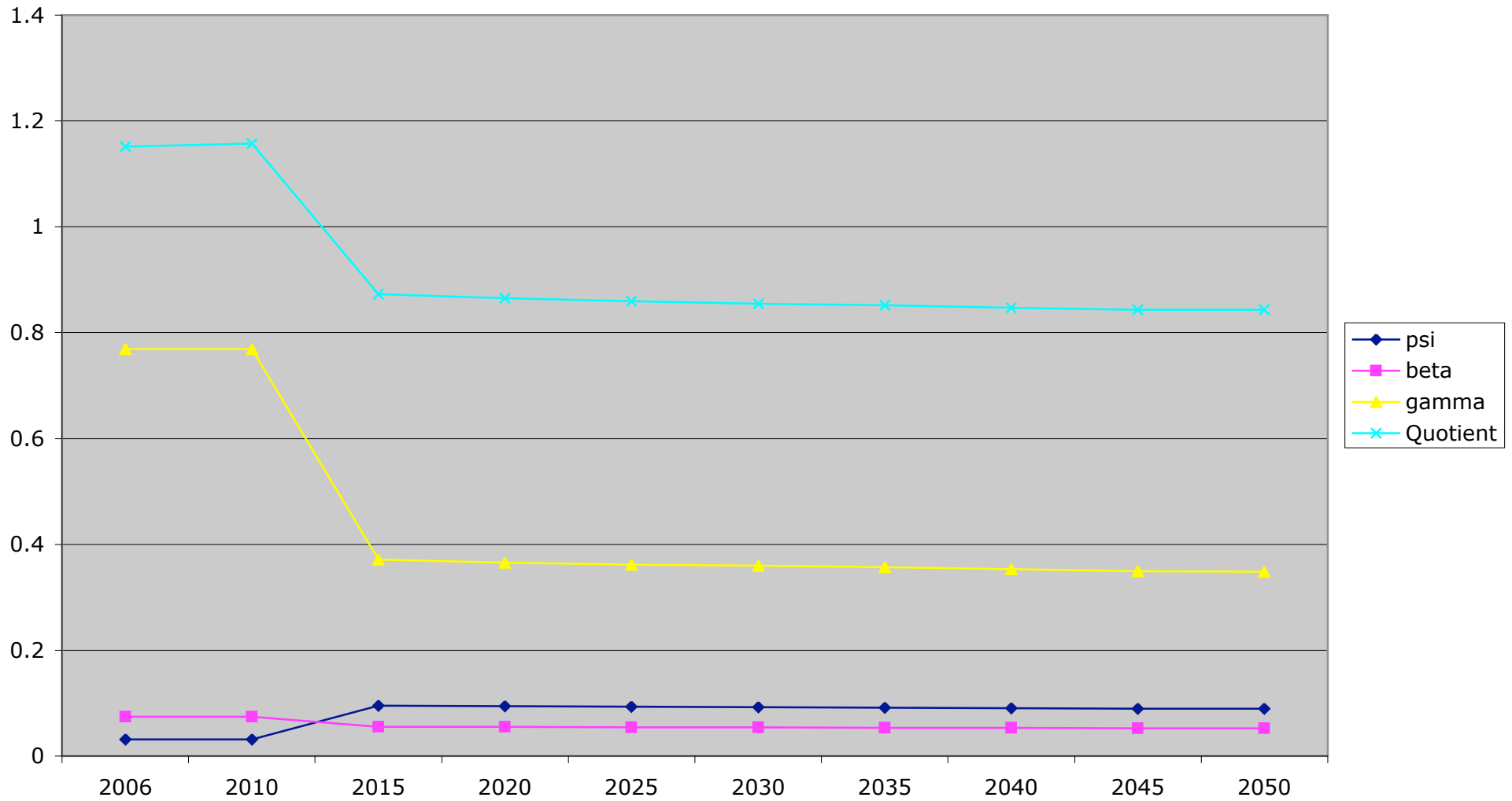


Figure 21a: Portugal

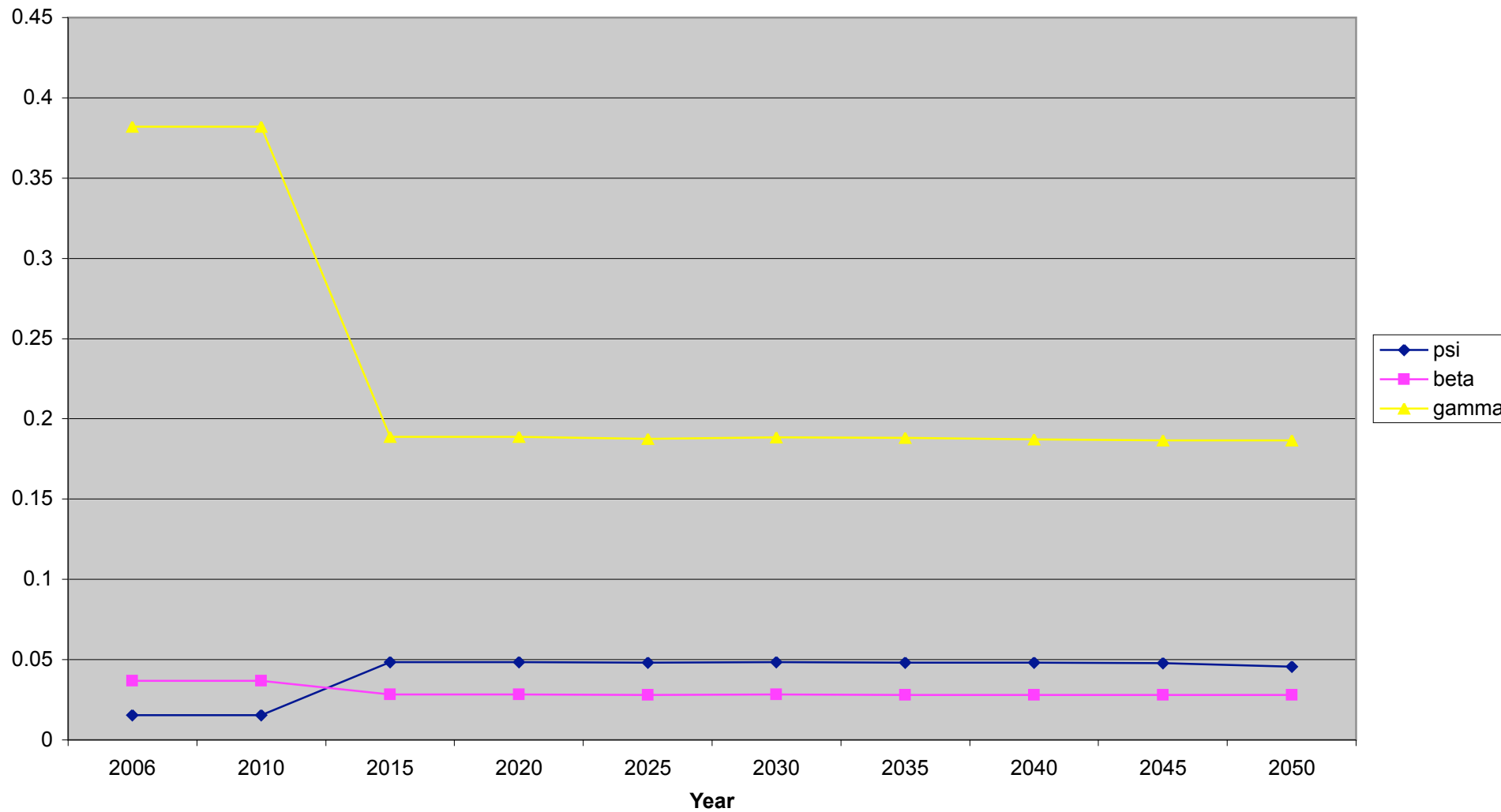


Figure 21b: Portugal

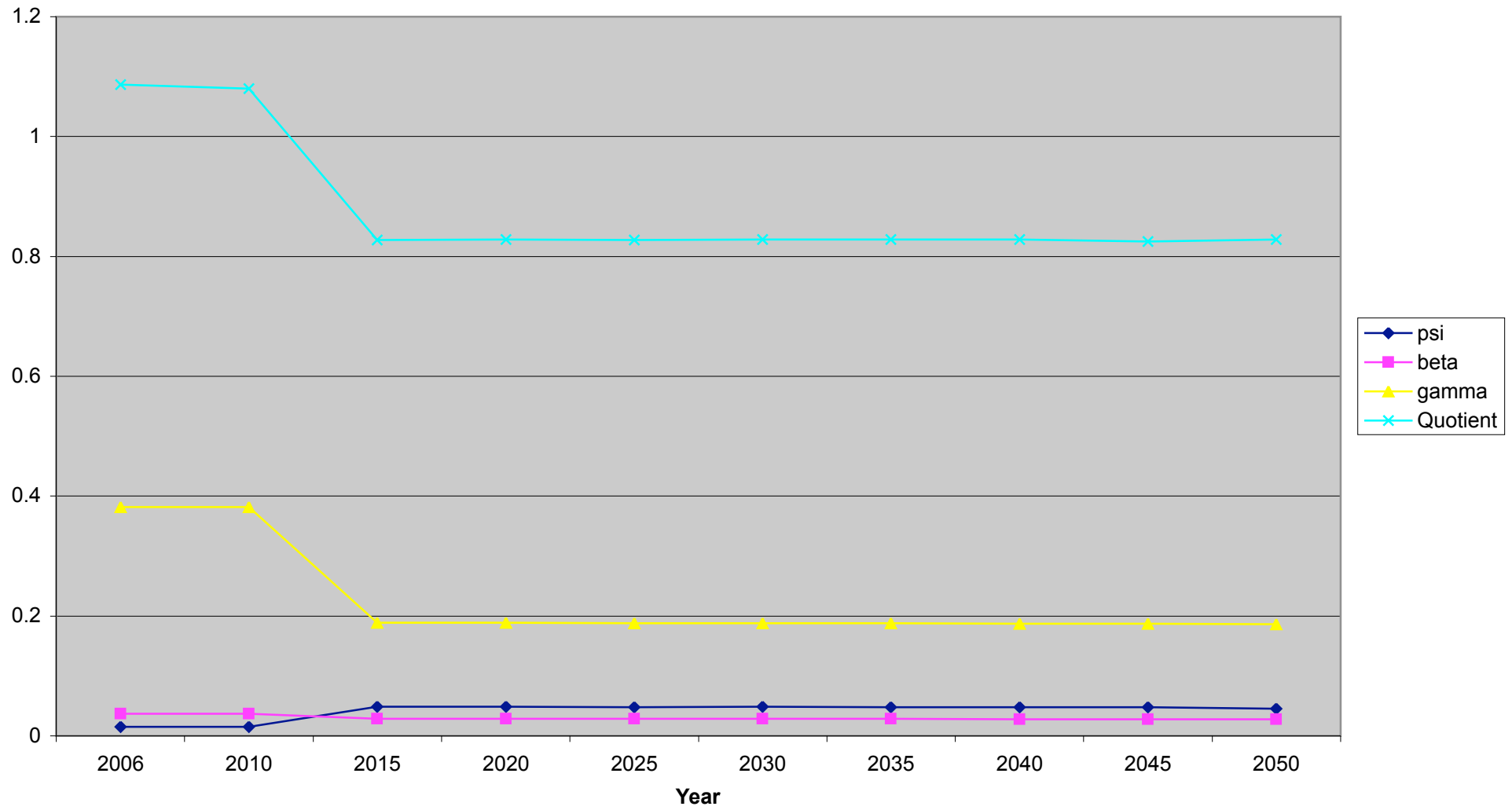


Figure 22: Romania

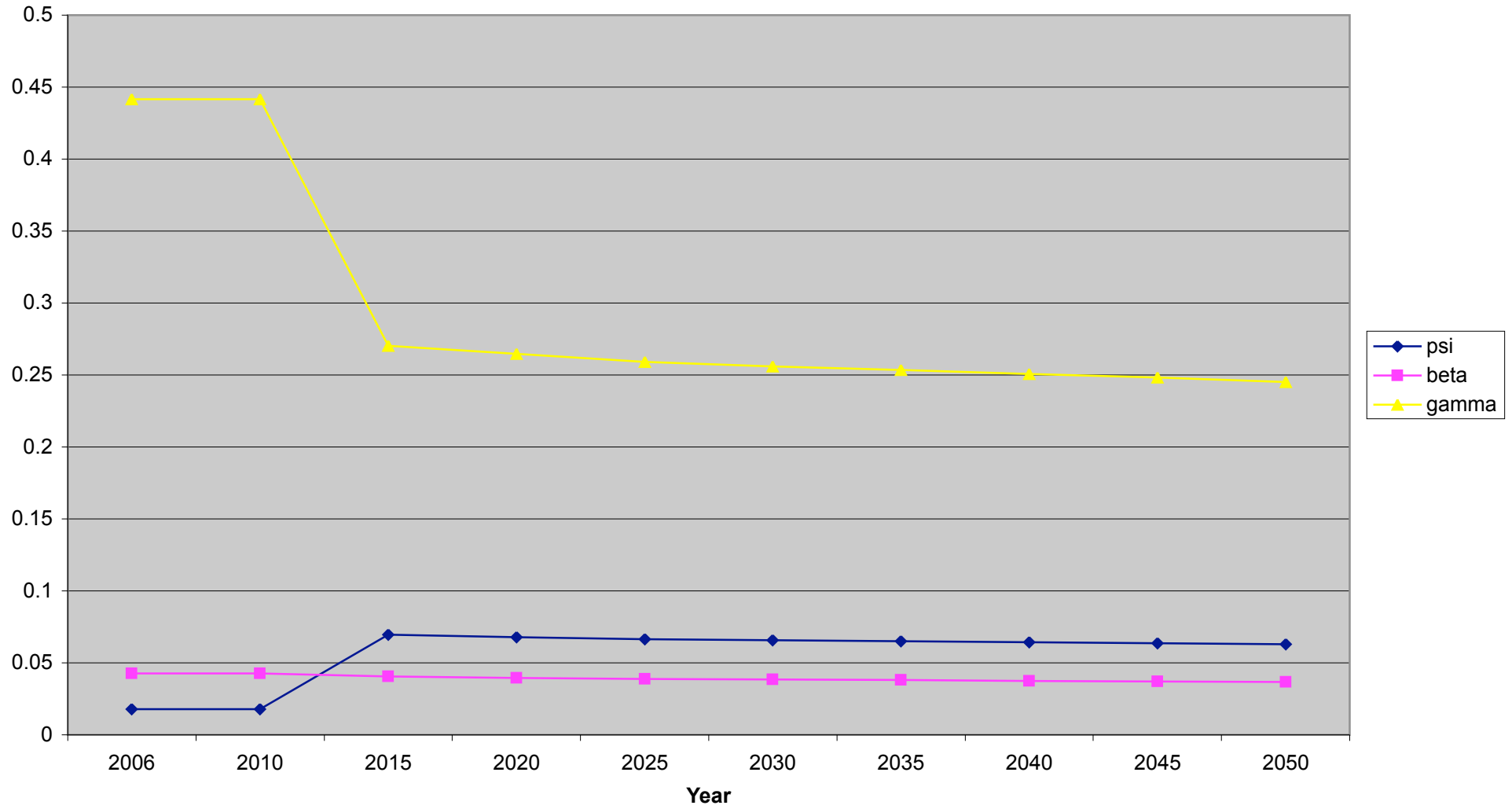


Figure 22b: Romania

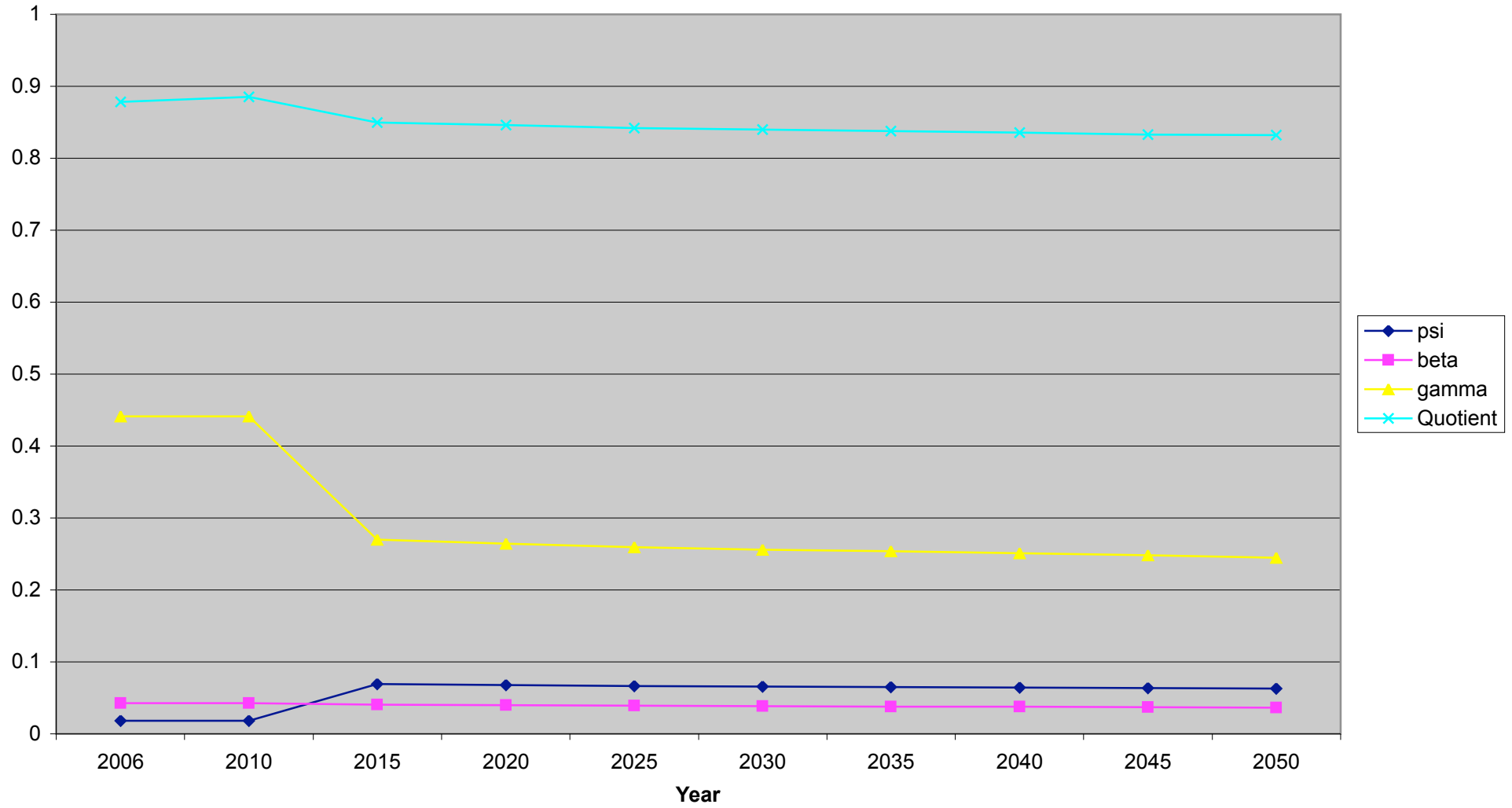


Figure 23a: Slovakia

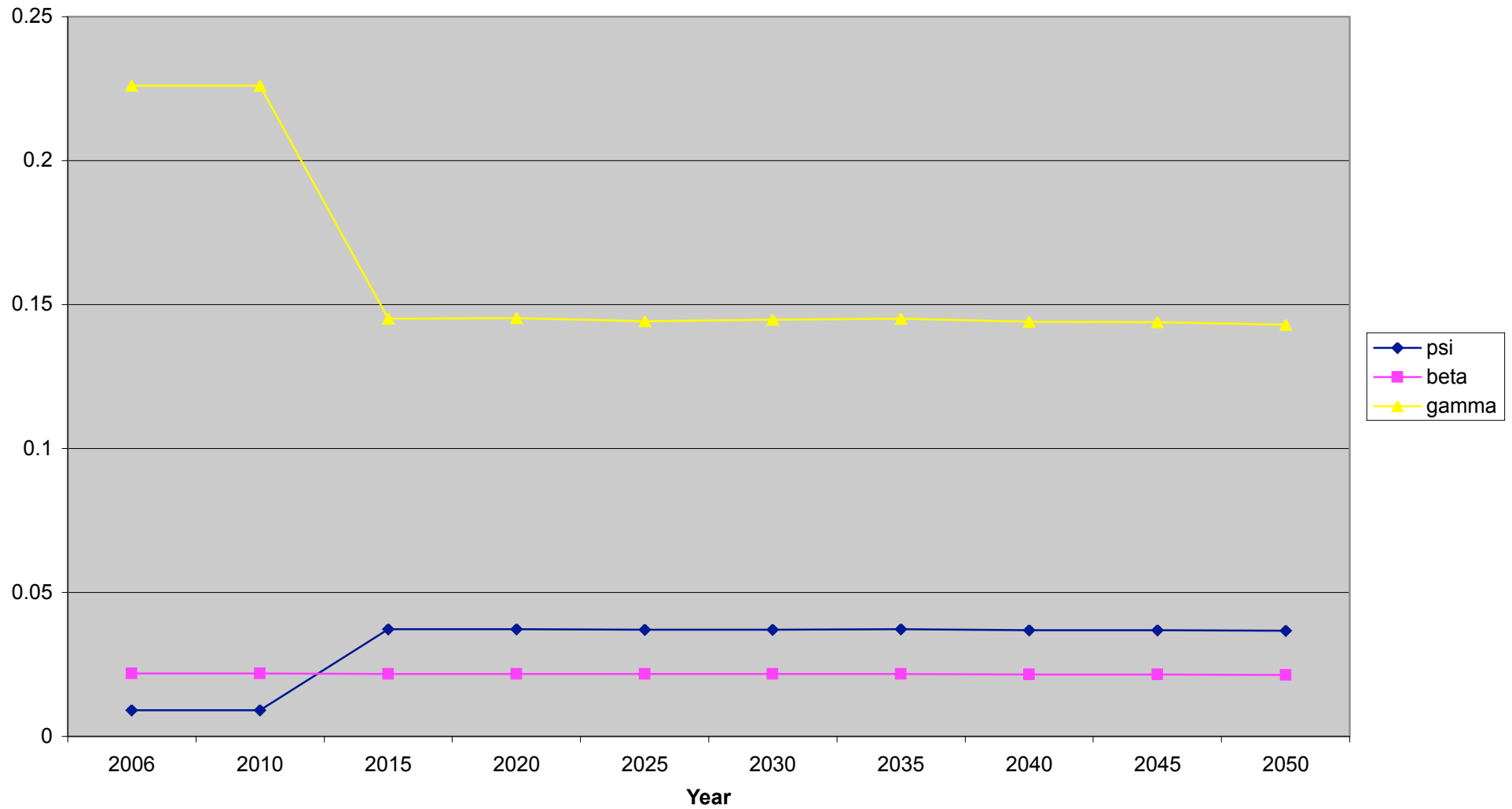


Figure 23b: Slovakia

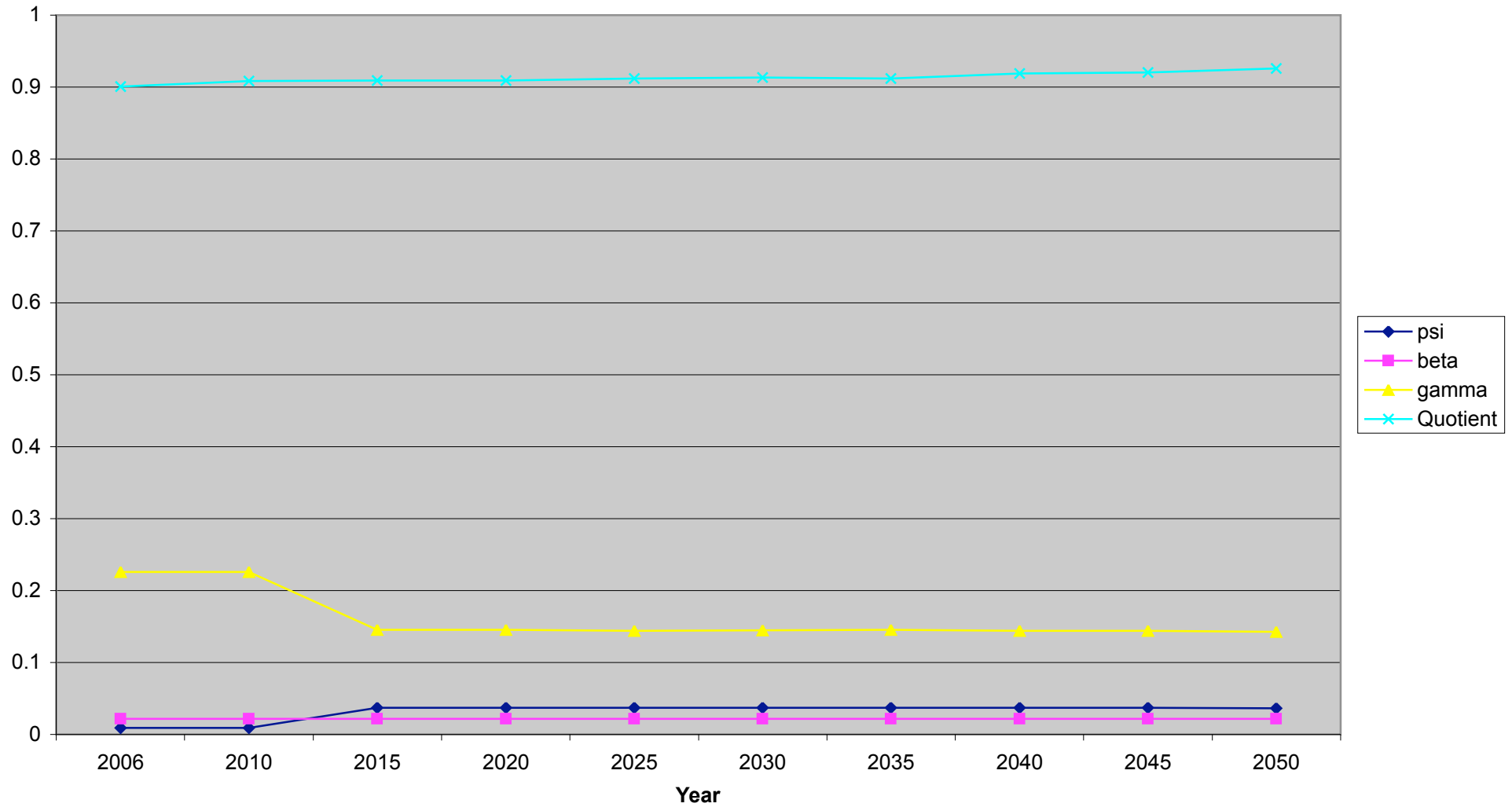


Figure 24a: Slovenia

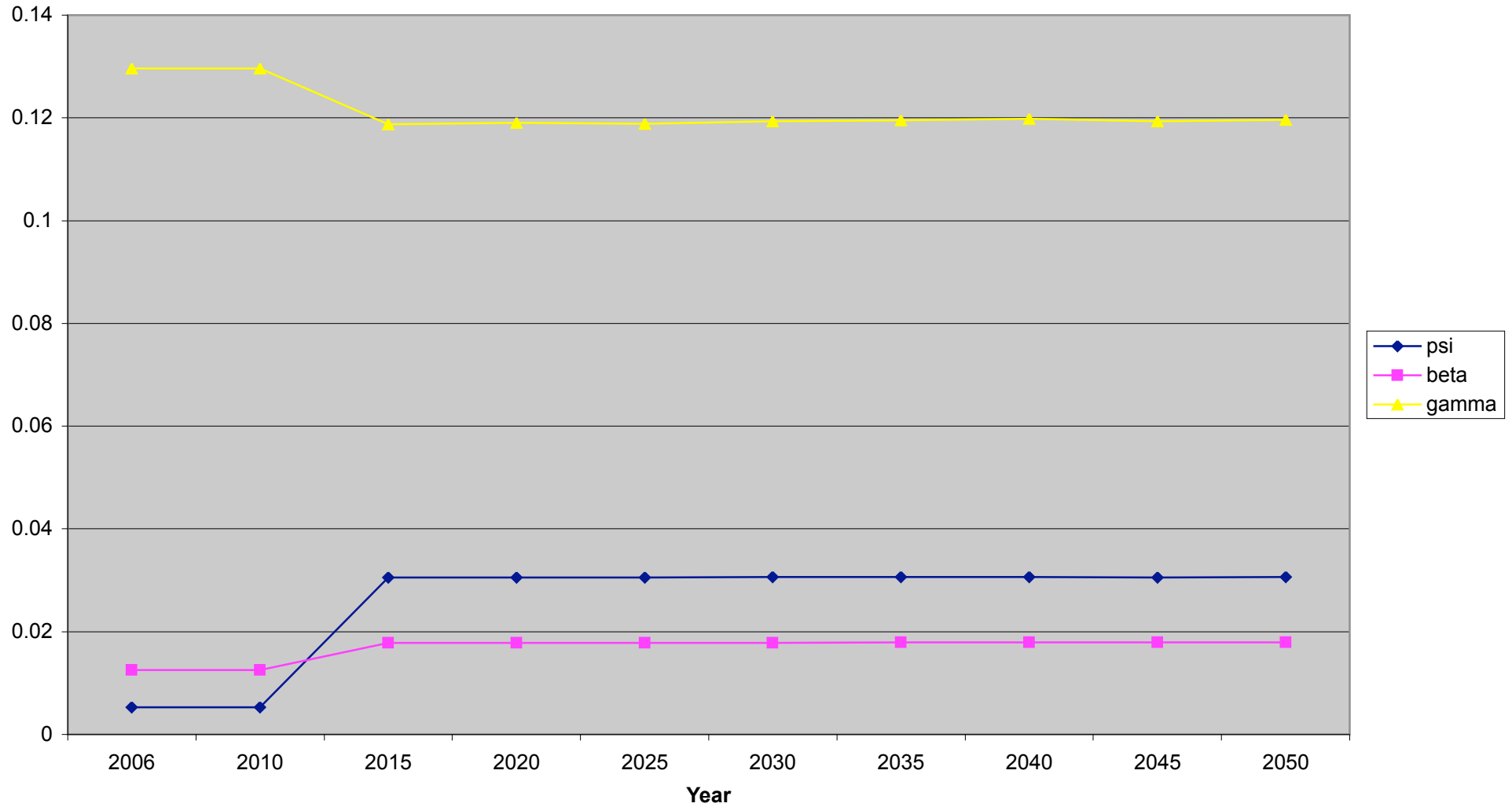


Figure 24b: Slovenia

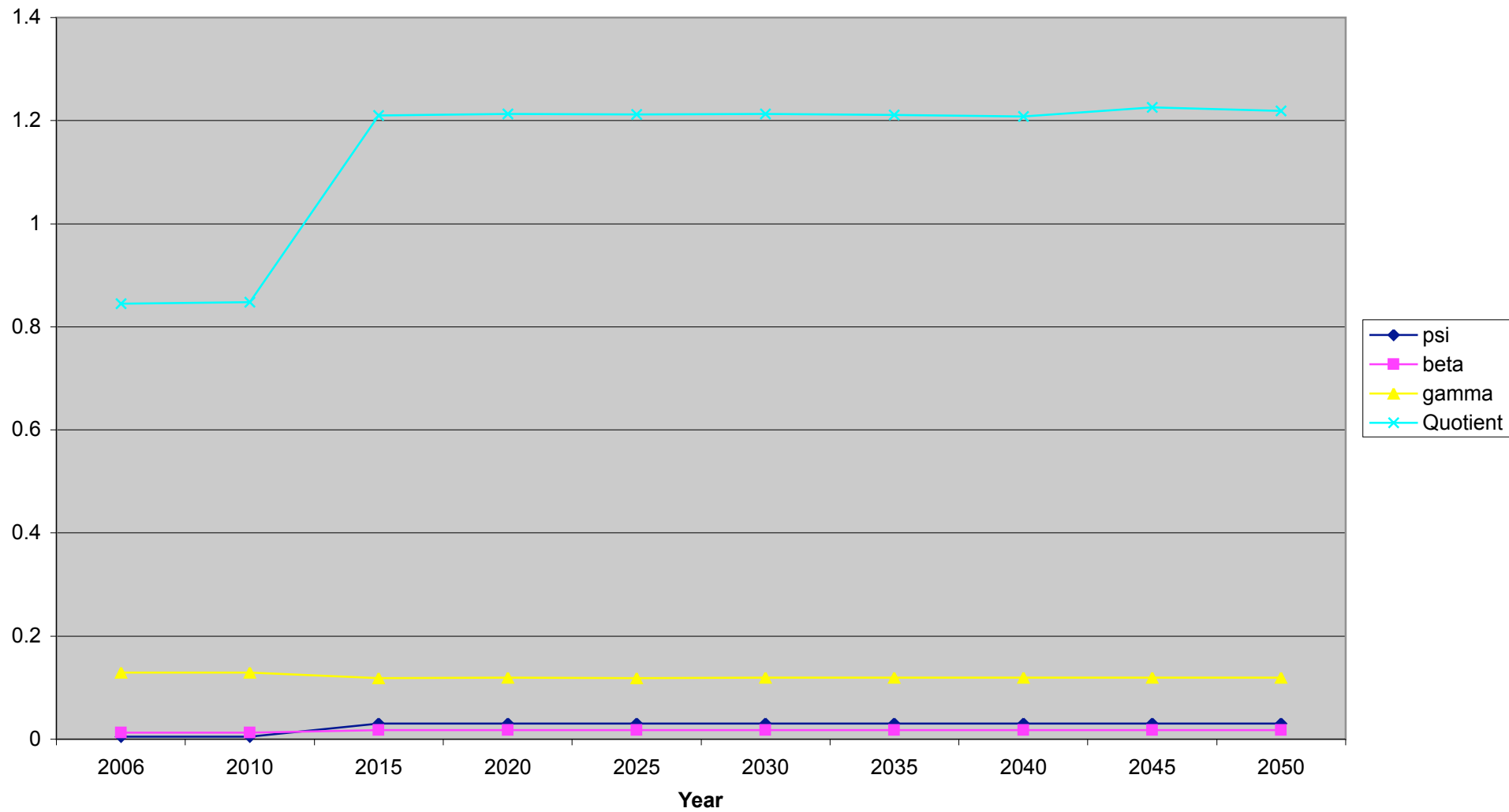


Figure 25a: Spain

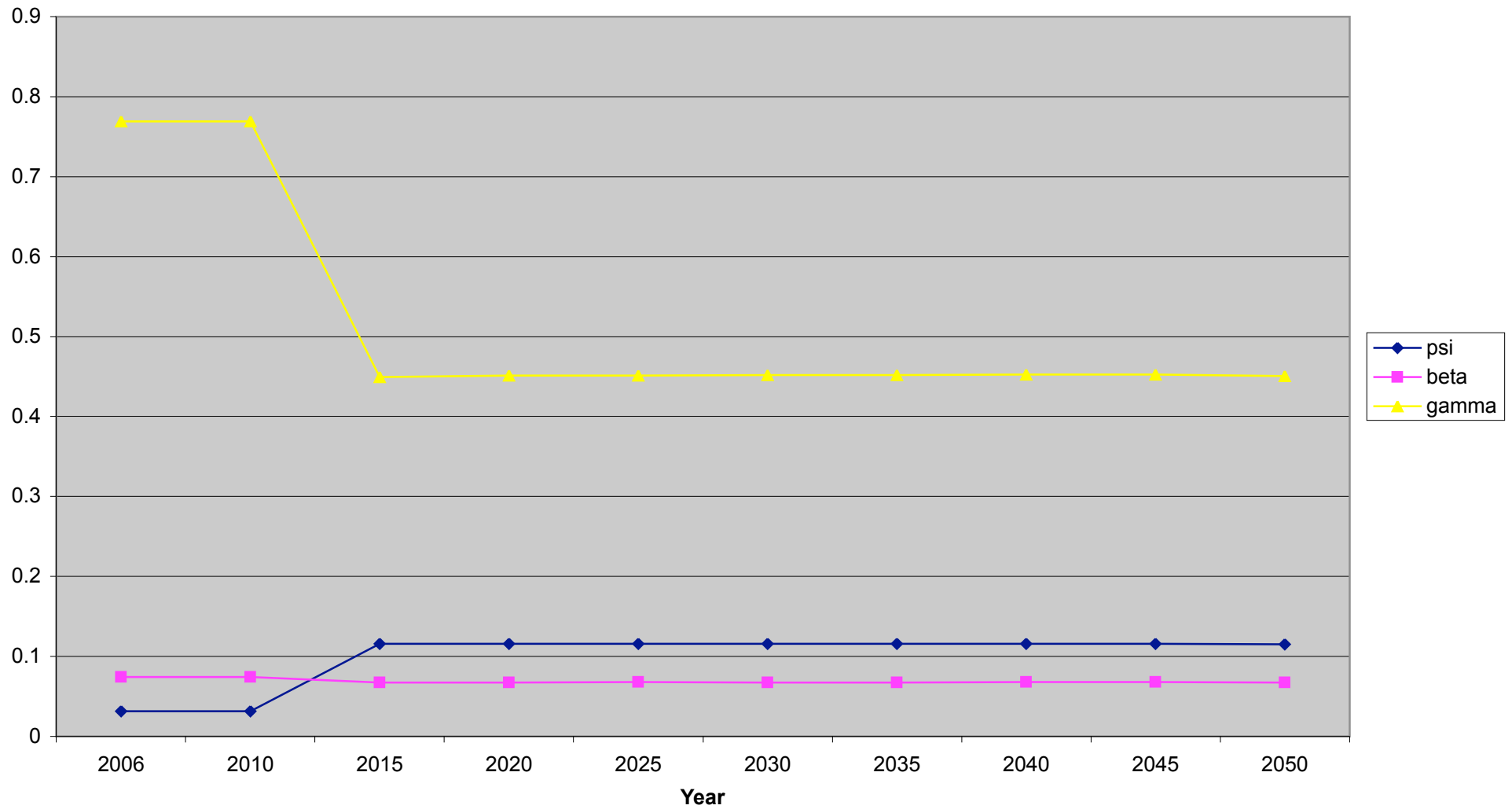


Figure 25b: Spain

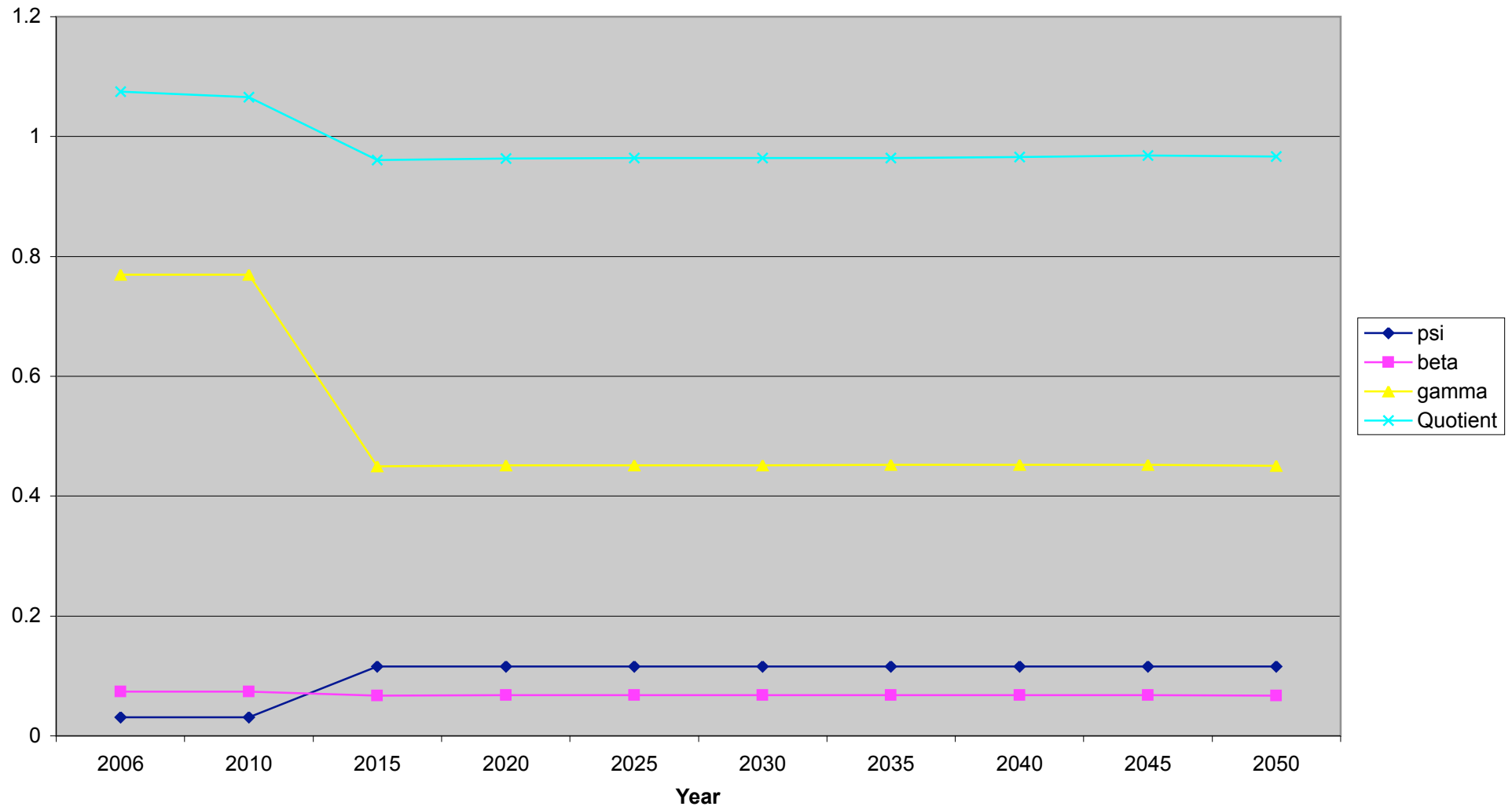


Figure 26a: Sweden

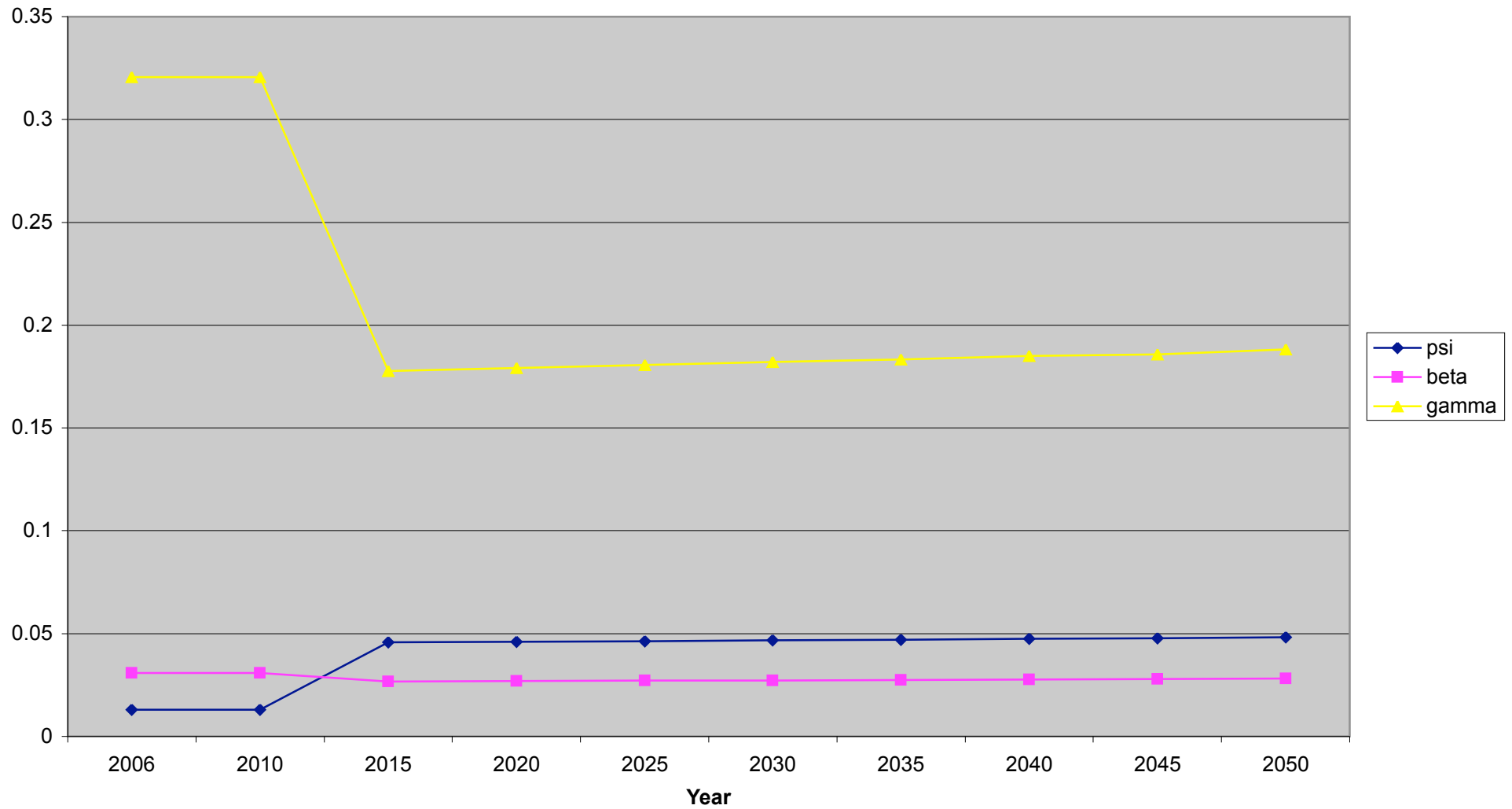


Figure 26b: Sweden

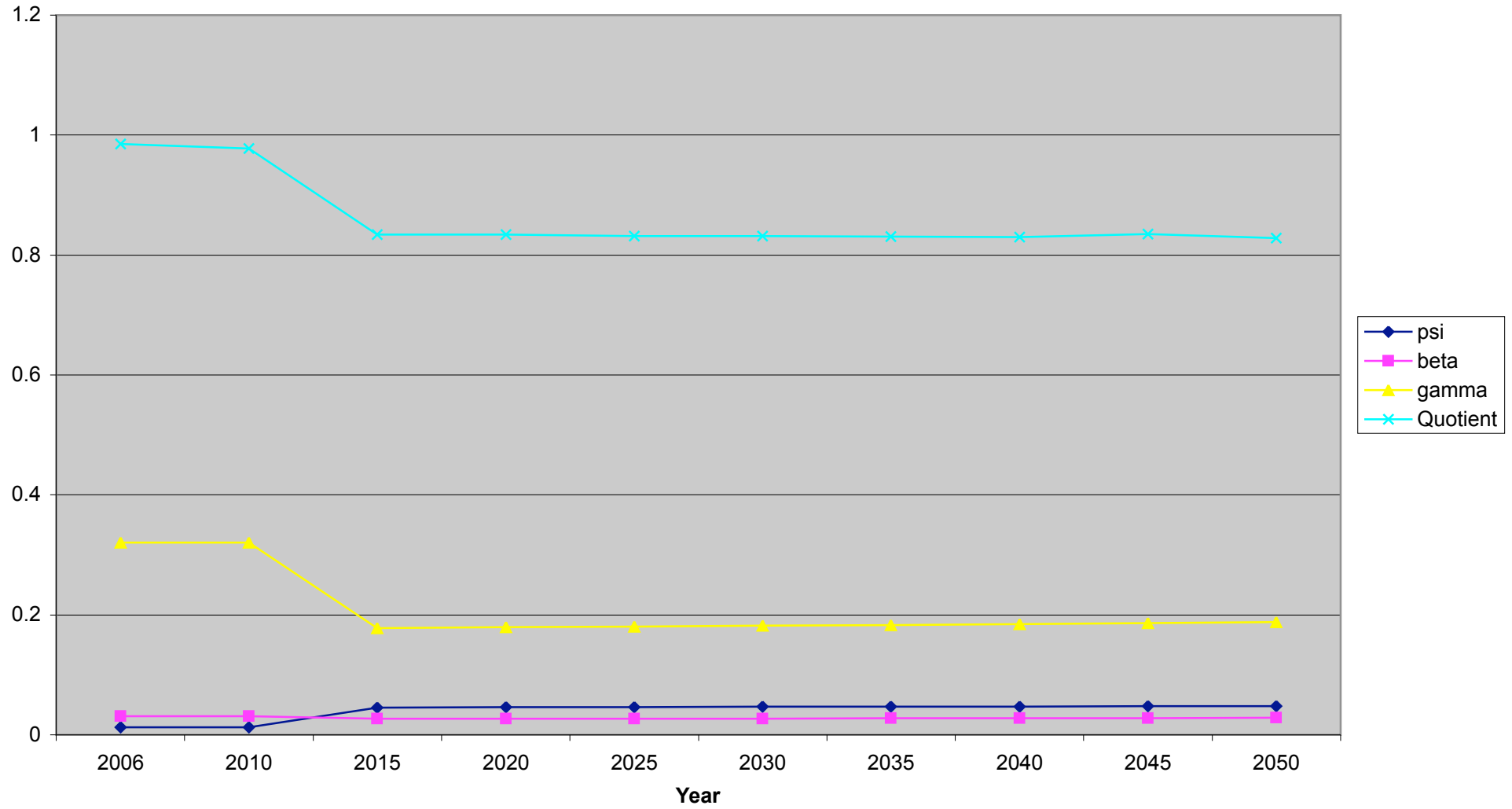


Figure 27a: United Kingdom

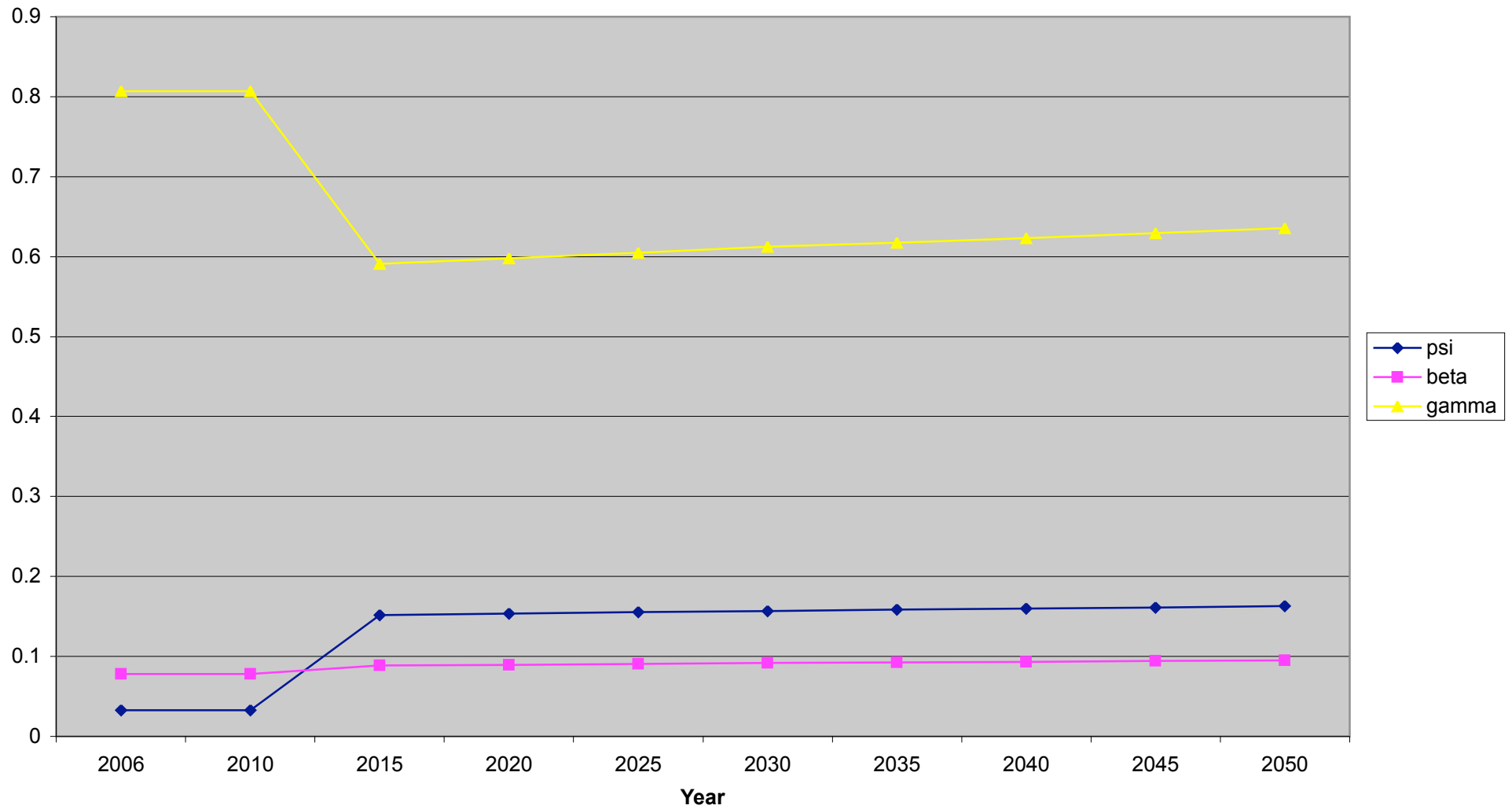


Figure 27b: United Kingdom

