

Table S1. List of countries and World Output Share in 2015 (Sample 1)

Country	%	Country	%	Country	%	Country	%
China	23.69	Italy	1.19	New Zealand	0.45	Venezuela	0.27
India	10.18	Canada	1.16	Tanzania	0.45	Ecuador	0.25
USA	9.66	Australia	1.06	Korea, Republic	0.40	Hungary	0.24
Brazil	6.17	Iran	1.02	Morocco	0.40	Nepal	0.24
USSR	5.43	Egypt	0.94	Peru	0.39	Cameroon	0.24
Indonesia	2.68	Bangladesh	0.91	Romania	0.38	Paraguay	0.23
Argentina	1.88	Philippines	0.85	Algeria	0.36	Guatemala	0.22
France	1.68	Poland	0.82	Yugoslavia	0.34	Czechslovakia	0.22
Pakistan	1.66	Myanmar	0.81	Chile	0.32	Uganda	0.21
Turkey	1.65	United Kingdom	0.74	Ghana	0.31	Syria	0.20
Nigeria	1.59	Japan	0.68	Sudan	0.30	Ireland	0.19
Mexico	1.55	Colombia	0.60	Kenya	0.30	Portugal	0.19
Germany	1.46	Malaysia	0.59	Greece	0.29	Tunisia	0.19
Spain	1.31	Netherlands	0.55	Côte d'Ivoire	0.28	Mali	0.18
Viet Nam	1.30	South Africa	0.53	Denmark	0.28	Cambodia	0.18
Thailand	1.29	Ethiopia	0.50	Bel-Lux	0.27	Austria	0.17

Bel-Lux: Belgium and Luxembourg. Czechslovakia, former: Czech Republic and Slovakia. Ethiopia, former: Eritrea and Ethiopia. USSR, former: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russian Federation, Tajikistan, Turkmenistan, Ukraine and Uzbekistan. Sudan, former: Sudan and South Sudan. Yugoslavia, former: Bosnia and Herzegovina, Croatia, Macedonia, Montenegro, Serbia, Serbia and Montenegro, and Slovenia. China: Include Taiwan

Table S2. List of countries, World Output share in 2015 and region.

Country	%	Region	Country	%	Region	Country	%	Region
China	23.49	Asia	Myanmar	0.81	Asia	Denmark	0.28	Europe
India	10.18	Asia	United Kingdom	0.74	Europe	Bel-Lux	0.27	Europe
United States	9.66	N-A	Japan	0.68	Asia	Venezuela	0.27	L-A
Brazil	6.17	L-A	Colombia	0.60	L-A	Ecuador	0.25	L-A
Indonesia	2.68	Asia	Malaysia	0.59	Asia	Hungary	0.24	Europe
Russian Fed.	2.32	USSR	Uzbekistan	0.58	USSR	Nepal	0.24	Asia
Argentina	1.88	L-A	Netherlands	0.55	Europe	Cameroon	0.24	A-S
France	1.68	Europe	South Africa	0.53	A-S	Paraguay	0.23	L-A
Pakistan	1.66	Asia	Ethiopia	0.50	A-S	Guatemala	0.22	L-A
Turkey	1.65	WANA	New Zealand	0.45	Oceania	Czechslovakia	0.22	Europe
Nigeria	1.59	A-S	Tanzania	0.45	A-S	Uganda	0.21	A-S
Mexico	1.55	L-A	Korea, Rep.	0.40	Asia	Syria	0.20	WANA
Germany	1.46	Europe	Morocco	0.40	WANA	Taiwan	0.20	Asia
Spain	1.31	Europe	Peru	0.39	L-A	Ireland	0.19	Europe
Viet Nam	1.30	Asia	Romania	0.38	Europe	Portugal	0.19	Europe
Thailand	1.29	Asia	Kazakhstan	0.37	Asia	Tunisia	0.19	WANA
Italy	1.19	Europe	Algeria	0.36	WANA	Mali	0.18	A-S
Canada	1.16	N-A	Yugoslavia	0.34	Europe	Cambodia	0.18	Asia
Ukraine	1.16	USSR	Chile	0.32	L-A	Austria	0.17	Europe
Australia	1.06	Oceania	Ghana	0.31	A-S	Uruguay	0.17	L-A
Iran	1.02	WANA	Belarus	0.30	Asia	Bolivia	0.16	Europe
Egypt	0.94	WANA	Sudan, former	0.30	A-S	Congo, DR	0.16	L-A
Bangladesh	0.91	Asia	Kenya	0.30	A-S	Korea, DPR	0.16	A-S
Philippines	0.85	Asia	Greece	0.29	Europe			
Poland	0.82	Europe	Côte d'Ivoire	0.28	A-S			

Belgium-Luxembourg: Belgium and Luxembourg. Ethiopia, former: Eritrea and Ethiopia. Czechslovakia, former: Czech Republic and Slovakia. Sudan, former: Sudan and South Sudan. Yugoslavia, former: Bosnia and Herzegovina, Croatia, Macedonia, Montenegro, Serbia, Serbia and Montenegro, and Slovenia. N-A: North America. L-A: Latin America. WANA: West Asia and North Africa. USSR: Union of Soviet Socialist Republics, former. A-S: Africa, Sub-Saharan.

Table S3. Cumulative Efficiency, Tech and TFP growth, and annual geometric mean of change. Färe-Primont indexes.

Años	ALL COUNTRIES					
	Efficiency	Tech	TFP	OTE	OSE	OSME
1961	1	1	1	1	1	1
1962	1.00243	1.01021	1.01256	1.01644	0.99920	0.98642
1963	0.98641	1.03547	1.02127	1.00820	0.99005	0.97887
1964	0.98963	1.04360	1.03270	1.00774	0.97372	0.98275
1965	0.97208	1.05190	1.02239	0.99520	0.96783	0.97757
1966	0.99075	1.05190	1.04192	1.00300	0.97516	0.98860
1967	1.00243	1.05190	1.05425	1.01652	0.97467	0.98711
1968	1.01075	1.05190	1.06304	1.02449	0.97822	0.98761
1969	0.99332	1.05190	1.04472	1.01419	0.97153	0.98041
1970	0.99880	1.05190	1.05047	1.01718	0.97027	0.98306
1971	1.00463	1.05190	1.05666	1.02624	0.96606	0.98023
1972	0.98028	1.05190	1.03099	1.00414	0.95206	0.97783
1973	1.00782	1.05190	1.05987	1.02315	0.96862	0.98672
1974	1.02032	1.05190	1.07314	1.04095	0.97220	0.98180
1975	1.02317	1.05190	1.07611	1.04939	0.97189	0.97683
1976	1.02936	1.05190	1.08263	1.04376	0.96499	0.98847
1977	1.02653	1.05190	1.07959	1.05040	0.96502	0.97952
1978	1.04390	1.05190	1.09791	1.05268	0.97340	0.99404
1979	1.04195	1.05190	1.09585	1.06113	0.96944	0.98460
1980	1.04088	1.05190	1.09473	1.06791	0.97045	0.97759
1981	1.07318	1.05190	1.12864	1.10408	0.97979	0.97520
1982	1.09563	1.05190	1.15232	1.11748	0.98724	0.98401
1983	1.08280	1.05190	1.13888	1.12892	0.99717	0.96209
1984	1.11808	1.05190	1.17597	1.13723	1.00381	0.98688
1985	1.14032	1.05190	1.19932	1.16294	1.00827	0.98431
1986	1.13624	1.05190	1.19503	1.15134	1.00741	0.99090
1987	1.12537	1.05830	1.19072	1.13620	1.00561	0.99467
1988	1.13177	1.05830	1.19755	1.15115	1.00749	0.98754
1989	1.16761	1.05830	1.23540	1.17290	1.01114	1.00016
1990	1.19801	1.05830	1.26765	1.19289	1.02007	1.00899
1991	1.20780	1.06384	1.28481	1.20056	1.02116	1.01135
1992	1.23154	1.06903	1.31625	1.23349	1.02658	1.00490
1993	1.24505	1.06903	1.33069	1.24192	1.03493	1.00940
1994	1.25732	1.06903	1.34387	1.24853	1.04614	1.01439
1995	1.26199	1.06903	1.34878	1.25120	1.05452	1.01634
1996	1.28330	1.07924	1.38476	1.25771	1.06290	1.02871
1997	1.27037	1.10882	1.40830	1.24863	1.07419	1.02618
1998	1.20314	1.17907	1.41829	1.17870	1.07406	1.02967
1999	1.20466	1.20173	1.44737	1.17715	1.08285	1.03273
2000	1.15157	1.27457	1.46750	1.12644	1.08049	1.03201
2001	1.13889	1.29031	1.46925	1.11230	1.08439	1.03385
2002	1.14382	1.29031	1.47562	1.11521	1.09192	1.03559
2003	1.15645	1.29031	1.49195	1.12519	1.10183	1.03770
2004	1.17777	1.29031	1.51927	1.14247	1.11619	1.04087
2005	1.19651	1.29031	1.54357	1.15865	1.11894	1.04283
2006	1.21396	1.29031	1.56602	1.17133	1.12777	1.04674
2007	1.23983	1.29031	1.59953	1.20283	1.15232	1.04112
2008	1.29061	1.29031	1.66505	1.24416	1.15536	1.04798
2009	1.28959	1.29031	1.66364	1.24673	1.14517	1.04516
2010	1.29089	1.29031	1.66530	1.24581	1.14207	1.04689
2011	1.30768	1.29031	1.68702	1.25567	1.15794	1.05221
2012	1.30394	1.29031	1.68220	1.25705	1.15696	1.04790
2013	1.32805	1.29031	1.71326	1.27049	1.15580	1.05599
2014	1.34662	1.29031	1.73720	1.28965	1.16068	1.05482
2015	1.28669	1.35433	1.74219	1.23461	1.15895	1.05284
Geometric Mean of Growth	0.47%	0.56%	1.03%	0.39%	0.27%	0.10%

Table S3. (Cont. 1)

Años	AFRICA, SUB-SAHARA		AMERICA, LAC		AMERICA, NORTH		ASIA	
	Efficiency	TFP	Efficiency	TFP	Efficiency	TFP	Efficiency	TFP
1961	1	1	1	1	1	1	1	1
1962	0.99898	1.00911	1.01777	1.02824	1.00662	1.01654	1.01088	1.02113
1963	0.98420	1.01896	1.00695	1.04264	1.00788	1.04335	1.00509	1.04066
1964	0.98244	1.02534	0.99626	1.03975	1.00497	1.04828	1.01468	1.05898
1965	0.96237	1.01212	1.01268	1.06528	0.99000	1.04111	1.01010	1.06233
1966	0.98646	1.03748	0.99434	1.04585	0.98122	1.03155	1.00376	1.05563
1967	1.02537	1.07852	1.01758	1.07034	0.99683	1.04803	1.02021	1.07298
1968	1.00573	1.05780	0.99153	1.04291	0.99244	1.04384	1.03684	1.09046
1969	1.01492	1.06748	1.00661	1.05883	0.96593	1.01596	1.04488	1.09890
1970	1.04434	1.09845	1.00341	1.05550	0.93936	0.98779	1.06042	1.11533
1971	1.03804	1.09176	0.99230	1.04368	0.99339	1.04464	1.06919	1.12468
1972	1.05007	1.10451	0.97795	1.02877	0.97811	1.02842	1.03435	1.08790
1973	1.00172	1.05357	0.96249	1.01244	0.99126	1.04220	1.06930	1.12451
1974	1.08701	1.14331	0.99134	1.04279	1.04395	1.09789	1.06672	1.12193
1975	1.08354	1.13971	0.99227	1.04363	1.05552	1.10999	1.09348	1.15007
1976	1.05770	1.11258	1.00537	1.05758	1.07809	1.13383	1.07723	1.13295
1977	1.10149	1.15853	1.01819	1.07095	1.12270	1.18036	1.08143	1.13740
1978	1.10706	1.16439	1.04178	1.09593	1.06970	1.12490	1.10310	1.16016
1979	1.11514	1.17288	1.03876	1.09271	1.10171	1.15870	1.08399	1.14007
1980	1.12626	1.18454	1.04514	1.09940	1.07798	1.13363	1.09075	1.14719
1981	1.16036	1.22039	1.10311	1.16028	1.18322	1.24408	1.13367	1.19229
1982	1.14598	1.20537	1.10174	1.15900	1.19319	1.25500	1.15992	1.21994
1983	1.13616	1.19499	1.12421	1.18256	1.02632	1.07941	1.18391	1.24534
1984	1.11461	1.17234	1.11751	1.17545	1.14609	1.20526	1.21784	1.28100
1985	1.14741	1.20684	1.16965	1.23029	1.21484	1.27755	1.24838	1.31296
1986	1.14694	1.20640	1.12843	1.18705	1.16104	1.22095	1.24943	1.31410
1987	1.15895	1.22634	1.14427	1.21097	1.14693	1.21364	1.22482	1.29589
1988	1.18578	1.25479	1.17975	1.24835	1.13010	1.19584	1.23700	1.30886
1989	1.20200	1.27197	1.18162	1.25045	1.19252	1.26154	1.26686	1.34043
1990	1.20956	1.28001	1.21462	1.28545	1.21657	1.28736	1.28992	1.36491
1991	1.25491	1.33495	1.22505	1.30320	1.20429	1.28105	1.28904	1.37129
1992	1.22086	1.30493	1.21028	1.29377	1.25733	1.34384	1.31895	1.40965
1993	1.23709	1.32224	1.19320	1.27548	1.16811	1.24822	1.37782	1.47272
1994	1.25198	1.33812	1.22822	1.31297	1.29711	1.38615	1.37714	1.47205
1995	1.24905	1.33500	1.29782	1.38739	1.26200	1.34850	1.37839	1.47325
1996	1.30243	1.40537	1.26359	1.36376	1.27167	1.37206	1.39314	1.50340
1997	1.26791	1.40575	1.26676	1.40448	1.27776	1.41638	1.39127	1.54233
1998	1.20102	1.41588	1.19738	1.41175	1.20683	1.42266	1.32529	1.56228
1999	1.21449	1.45933	1.23024	1.47846	1.20663	1.44940	1.32185	1.58817
2000	1.16325	1.48249	1.14003	1.45298	1.15481	1.47135	1.27176	1.62080
2001	1.15663	1.49233	1.15585	1.49133	1.11408	1.43727	1.26731	1.63488
2002	1.16815	1.50723	1.17967	1.52213	1.12731	1.45411	1.25055	1.61336
2003	1.16723	1.50592	1.17076	1.51063	1.12449	1.45062	1.28866	1.66258
2004	1.19020	1.53550	1.17105	1.51084	1.17996	1.52177	1.29813	1.67456
2005	1.20740	1.55783	1.22416	1.57965	1.19235	1.53816	1.31763	1.69978
2006	1.21960	1.57348	1.23459	1.59300	1.20315	1.55185	1.34017	1.72885
2007	1.18064	1.52314	1.25881	1.62426	1.24670	1.60813	1.39645	1.80171
2008	1.21225	1.56398	1.30165	1.67957	1.33676	1.72458	1.44478	1.86395
2009	1.22521	1.58067	1.30202	1.68003	1.33901	1.72712	1.41385	1.82400
2010	1.26109	1.62703	1.33042	1.71664	1.35968	1.75384	1.41094	1.82021
2011	1.22114	1.57541	1.33866	1.72702	1.35868	1.75247	1.43049	1.84561
2012	1.22829	1.58468	1.30266	1.68074	1.33911	1.72748	1.44960	1.87019
2013	1.22397	1.57906	1.35040	1.74234	1.41699	1.82762	1.44789	1.86794
2014	1.28282	1.65498	1.34836	1.73958	1.44637	1.86587	1.46313	1.88753
2015	1.22368	1.65702	1.34252	1.81793	1.36424	1.84683	1.38356	1.87344
Geometric Mean of Growth	0.37%	0.94%	0.55%	1.11%	0.58%	1.14%	0.60%	1.17%

Table S3. (and Cont. 2)

Años	EUROPE		OCEANIA		USSR		WANA	
	Efficiency	TFP	Efficiency	TFP	Efficiency	TFP	Efficiency	TFP
	1	1	1	1	1	1	1	1
1961								
1962	0.98801	0.99811	1.06500	1.07603	0.95847	0.96787	1.06773	1.07858
1963	0.96818	1.00246	1.03902	1.07552	0.88743	0.91879	1.06178	1.09929
1964	0.94665	0.98798	1.03273	1.07802	0.95470	0.99610	1.05091	1.09675
1965	0.92147	0.96927	0.98291	1.03419	0.89198	0.93806	1.04512	1.09916
1966	0.93222	0.98057	1.03001	1.08343	1.03660	1.08994	1.04897	1.10330
1967	0.94033	0.98907	0.97721	1.02762	1.03028	1.08349	1.05786	1.11270
1968	0.93303	0.98138	1.05551	1.11014	1.07360	1.12888	1.12670	1.18505
1969	0.90069	0.94738	1.03143	1.08461	1.00919	1.06115	1.09111	1.14766
1970	0.90687	0.95388	1.05246	1.10697	1.02052	1.07299	1.12221	1.18049
1971	0.88687	0.93284	1.07512	1.13093	1.00346	1.05530	1.17068	1.23142
1972	0.86953	0.91460	1.07838	1.13428	0.94094	0.98944	1.17427	1.23513
1973	0.89516	0.94151	1.09667	1.15353	1.04664	1.10047	1.11388	1.17168
1974	0.91785	0.96543	1.04266	1.09676	0.95194	1.00119	1.21288	1.27565
1975	0.89639	0.94288	1.11676	1.17457	0.92839	0.97635	1.21710	1.28001
1976	0.87647	0.92190	1.17279	1.23369	1.00631	1.05814	1.22969	1.29354
1977	0.87218	0.91737	1.17142	1.23223	0.90280	0.94945	1.18826	1.24971
1978	0.87631	0.92176	1.26029	1.32579	0.99457	1.04590	1.22996	1.29379
1979	0.89344	0.93971	1.23175	1.29549	0.95175	1.00074	1.20628	1.26892
1980	0.90364	0.95049	1.16534	1.22572	0.91289	0.96003	1.26782	1.33355
1981	0.89894	0.94552	1.23680	1.30132	0.87026	0.91508	1.26566	1.33128
1982	0.93243	0.98076	1.16015	1.22049	0.90960	0.95630	1.30379	1.37135
1983	0.91977	0.96746	1.31626	1.38462	0.90622	0.95284	1.29101	1.35798
1984	0.94844	0.99765	1.26091	1.32635	0.91228	0.95931	1.29663	1.36371
1985	0.93127	0.97958	1.31544	1.38386	0.88678	0.93251	1.35202	1.42209
1986	0.93659	0.98515	1.33628	1.40558	0.89401	0.94006	1.46609	1.54220
1987	0.93557	0.99004	1.30988	1.38608	0.89102	0.94244	1.40332	1.48499
1988	0.92290	0.97657	1.36546	1.44492	0.88455	0.93597	1.47510	1.56090
1989	0.95969	1.01551	1.34179	1.42008	0.95782	1.01323	1.44088	1.52486
1990	0.99162	1.04932	1.39111	1.47263	0.99572	1.05323	1.52468	1.61346
1991	1.02856	1.09426	1.40333	1.49292	0.98138	1.04380	1.57247	1.67269
1992	1.05449	1.12715	1.42183	1.51978	0.99594	1.06418	1.60403	1.71447
1993	1.05551	1.12820	1.44548	1.54484	1.04021	1.11148	1.59670	1.70665
1994	1.00202	1.07105	1.36317	1.45747	0.98981	1.05779	1.67151	1.78660
1995	1.00096	1.06987	1.46958	1.57069	0.98755	1.05536	1.66004	1.77433
1996	1.02969	1.11114	1.57551	1.70014	1.01354	1.09343	1.81067	1.95383
1997	1.00176	1.11067	1.52478	1.69069	1.00060	1.10901	1.67674	1.85909
1998	0.93949	1.10754	1.47166	1.73526	0.86574	1.02032	1.68559	1.98720
1999	0.94335	1.13359	1.47322	1.77040	0.88152	1.05902	1.59318	1.91457
2000	0.90451	1.15276	1.35928	1.73219	0.85644	1.09109	1.51898	1.93576
2001	0.86796	1.11984	1.32352	1.70779	0.88633	1.14342	1.47928	1.90853
2002	0.87325	1.12667	1.35935	1.75367	0.89910	1.15968	1.58148	2.04039
2003	0.87067	1.12333	1.21193	1.56384	0.89476	1.15406	1.62019	2.09044
2004	0.90775	1.17120	1.35164	1.74366	0.90686	1.16956	1.58371	2.04326
2005	0.89189	1.15067	1.34647	1.73724	0.93631	1.20779	1.65746	2.13849
2006	0.89240	1.15132	1.42367	1.83662	0.95148	1.22703	1.72745	2.22885
2007	0.86836	1.12033	1.28815	1.66211	0.97749	1.26094	1.72651	2.22756
2008	0.93246	1.20303	1.34012	1.72923	0.97502	1.25775	1.75484	2.26407
2009	0.95997	1.23845	1.42875	1.84373	1.03258	1.33190	1.78747	2.30607
2010	0.94549	1.21981	1.39812	1.80361	0.99136	1.27858	1.77684	2.29238
2011	0.96375	1.24344	1.43951	1.85714	1.04824	1.35216	1.83693	2.36993
2012	0.93190	1.20226	1.52663	1.96955	0.99123	1.27861	1.85174	2.38911
2013	0.96844	1.24942	1.49275	1.92612	1.07247	1.38343	1.84881	2.38524
2014	0.99651	1.28570	1.47993	1.90982	1.11077	1.43263	1.82344	2.35247
2015	0.94049	1.27359	1.47615	1.99929	1.06352	1.43989	1.79916	2.43619
Geometric Mean of Growth	-0.11%	0.45%	0.72%	1.29%	0.11%	0.68%	1.09%	1.66%