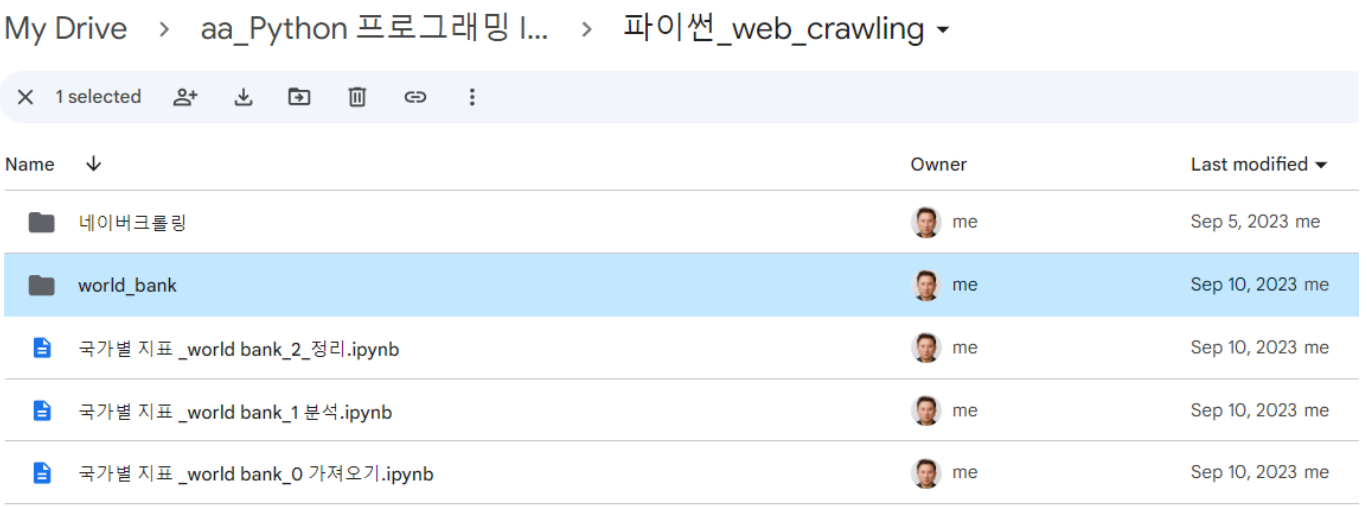
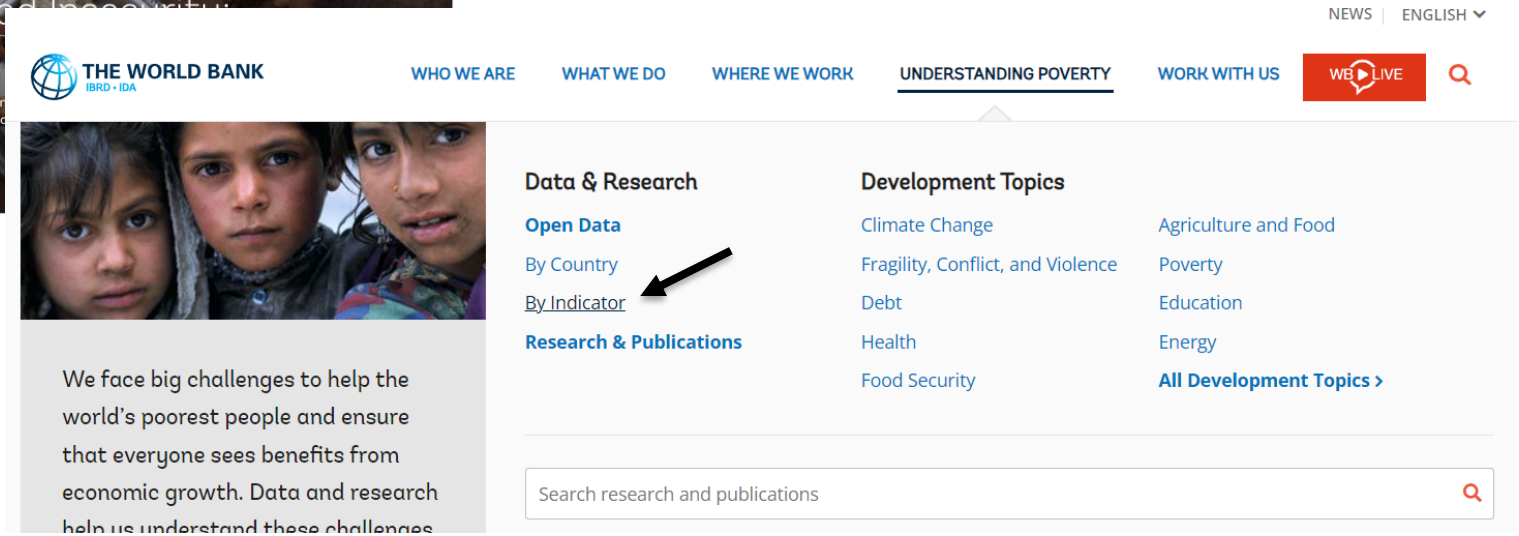
World Bank indicators

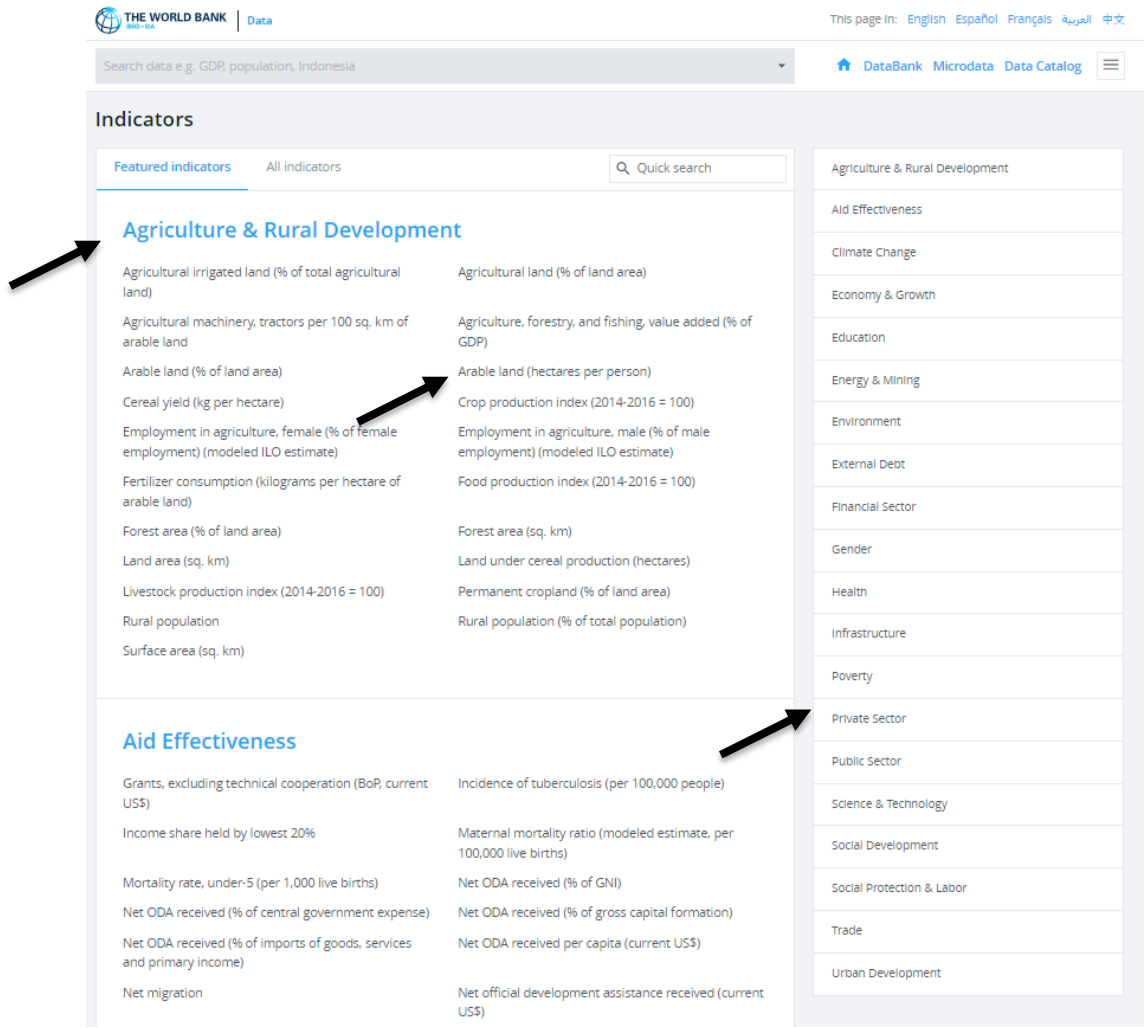


worldbank 사이트 이해하기

https://www.worldbank.org/en/home



worldbank Indicators 이해하기



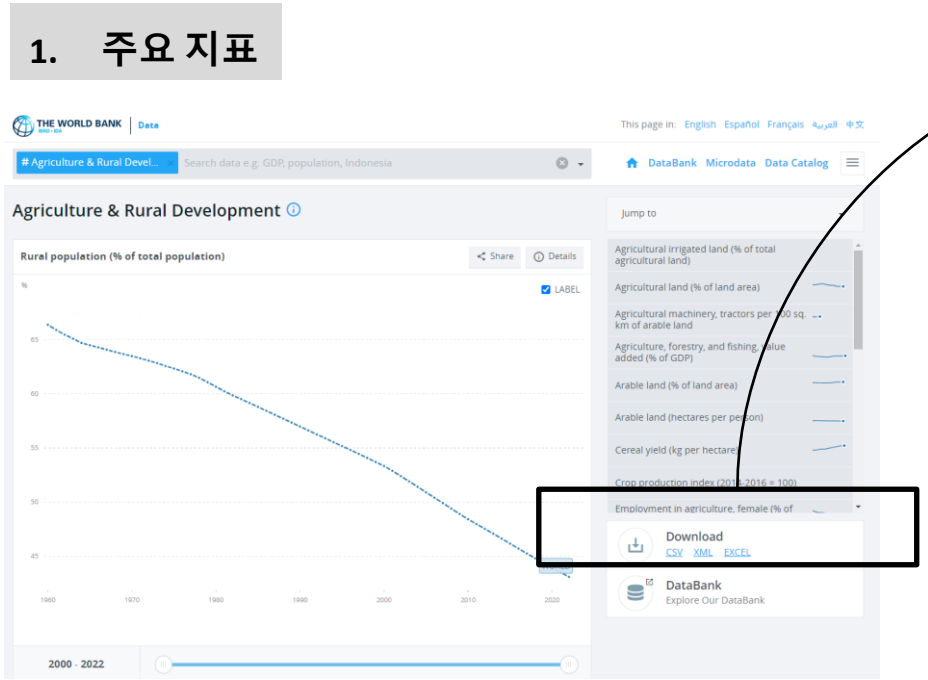
- **20개 주요 지표**
- **256개 하위 세부 지표**

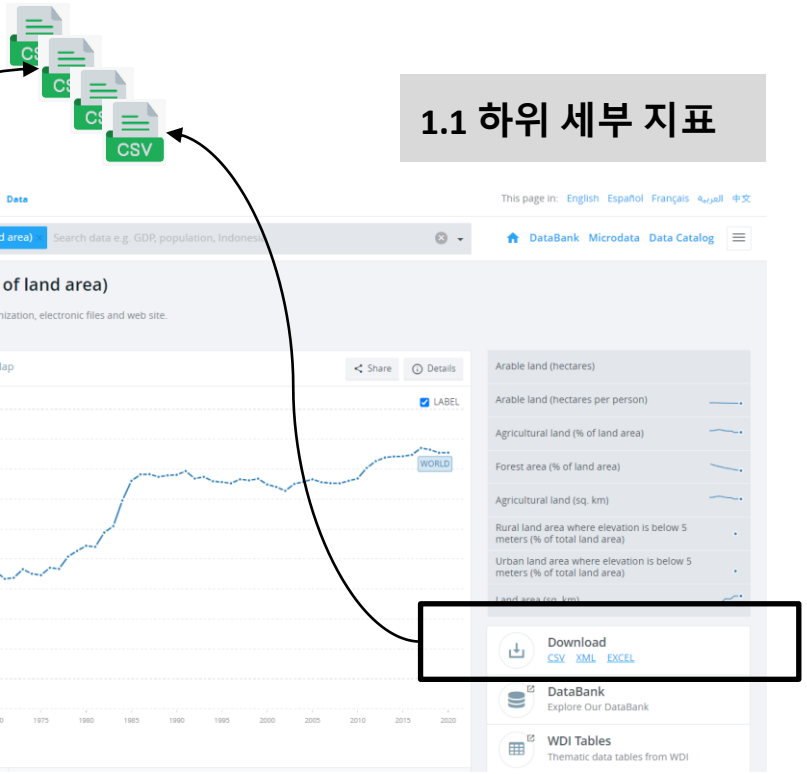
국가별로 지표를 수집하는 방법

Task

- **20개 주요 지표와 256개 하위 세부 지표의 사이트로가서 데이터를 다운받아 한 개의 파일로 만드는 것**
- **국가별로 지표/세부 지표별 csv파일을 crawling한 후 single csv파일로 merge하기**

1. 주요 지표

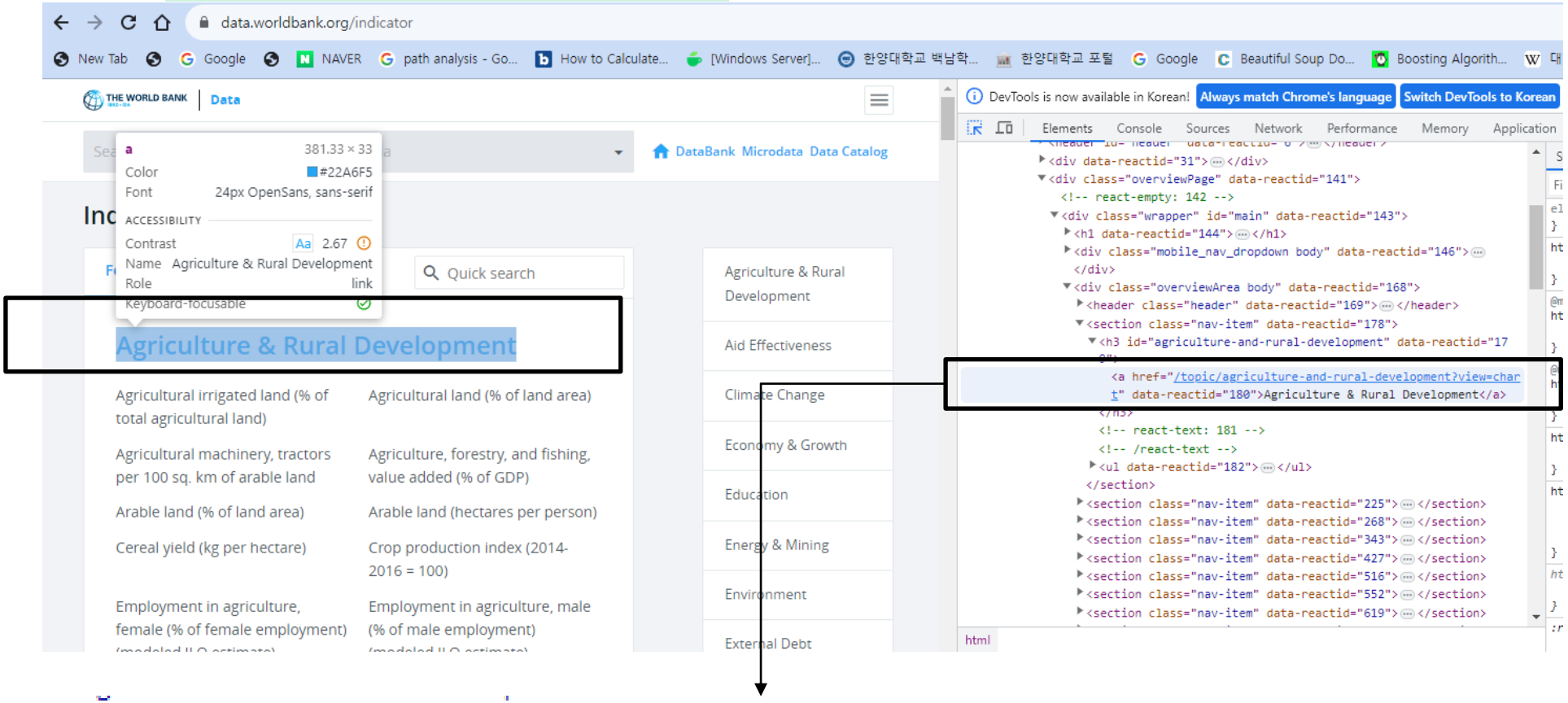




1.1 하위 세부 지표

크롤링할 endpoint 확인하기(1/4)

https://data.worldbank.org/indicator

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<a href="/topic/agriculture-and-rural-development?view=chart">Agriculture & Rural Development</a> == $0
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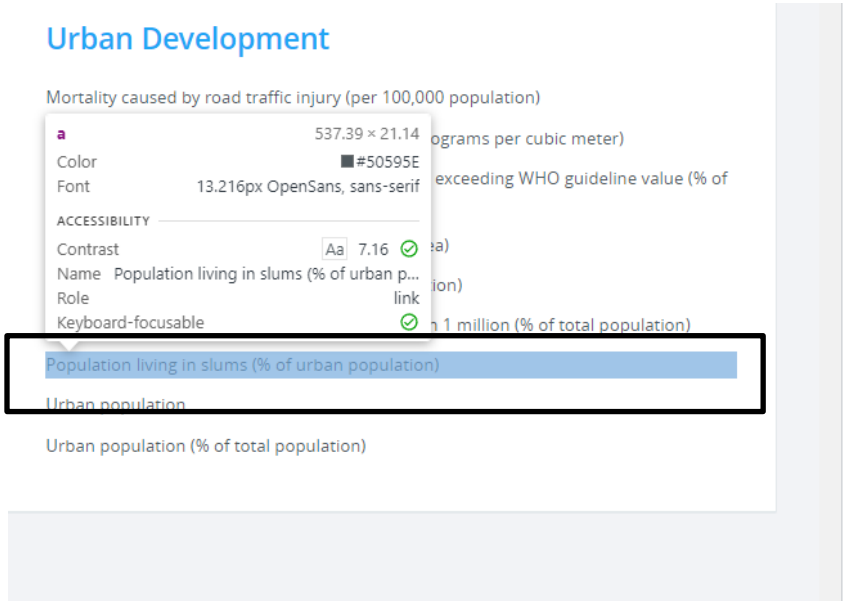
크롤링할 endpoint 확인하기(2/4)

마지막 지표의—세부지표



크롤링할 endpoint 확인하기(3/4)

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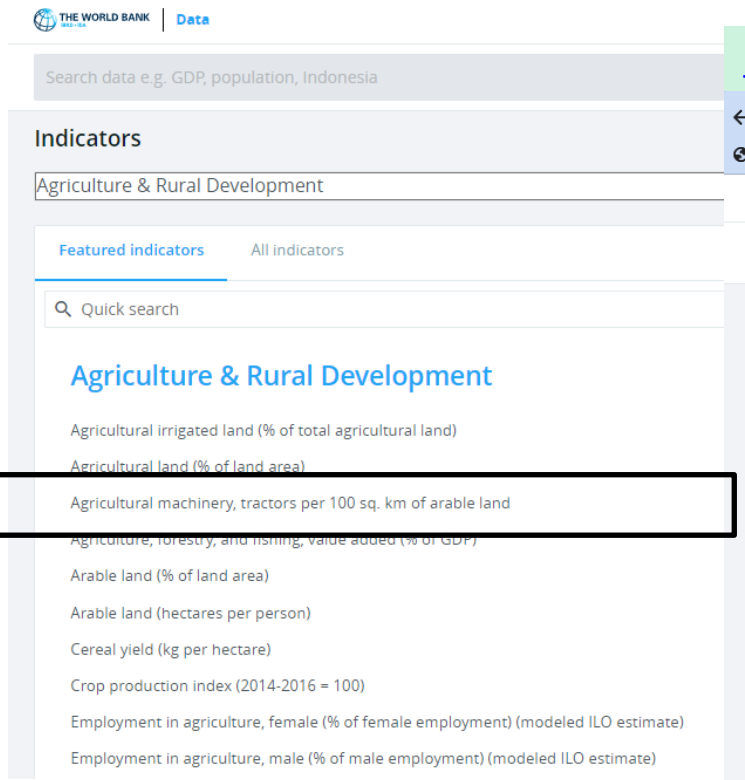
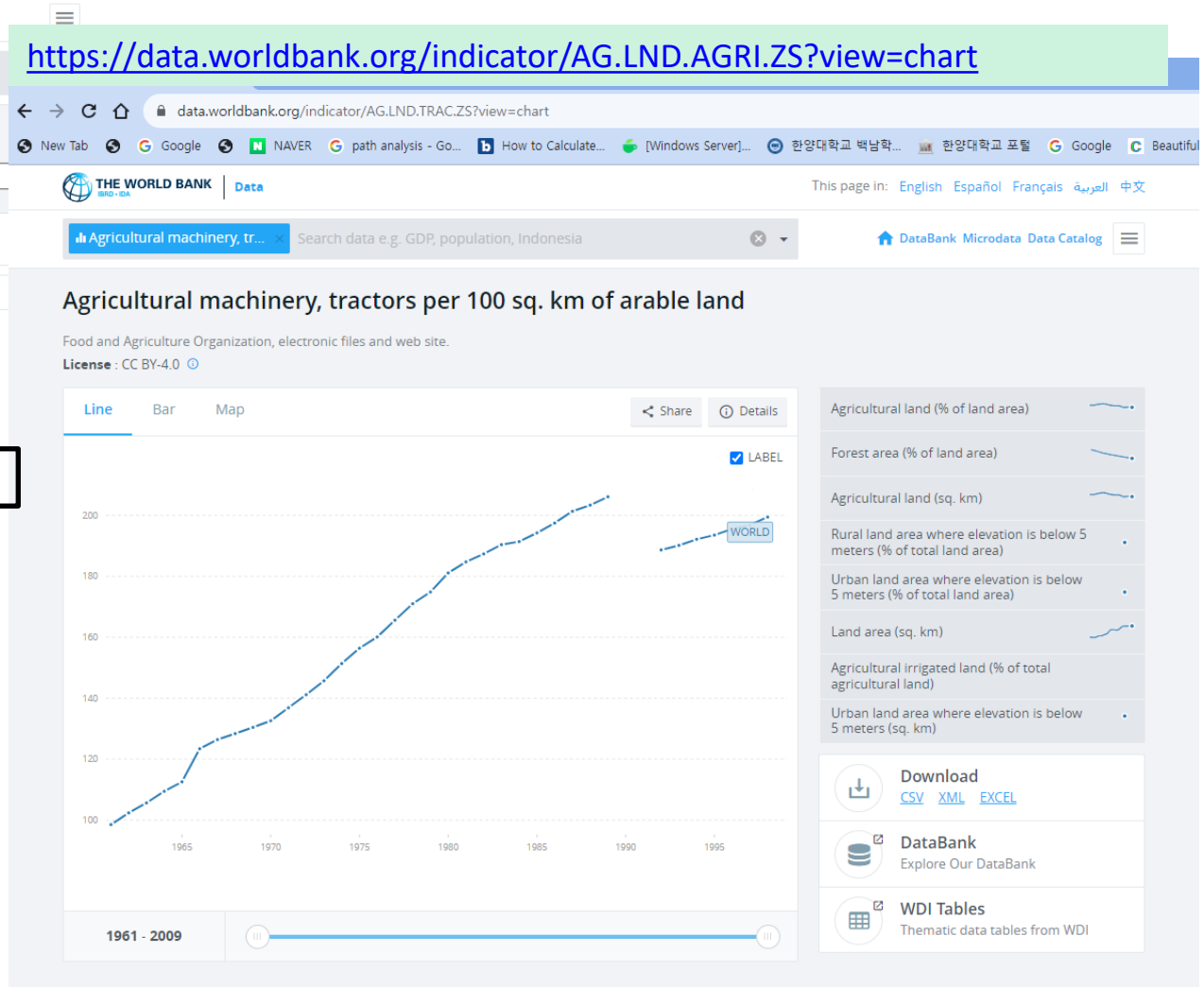
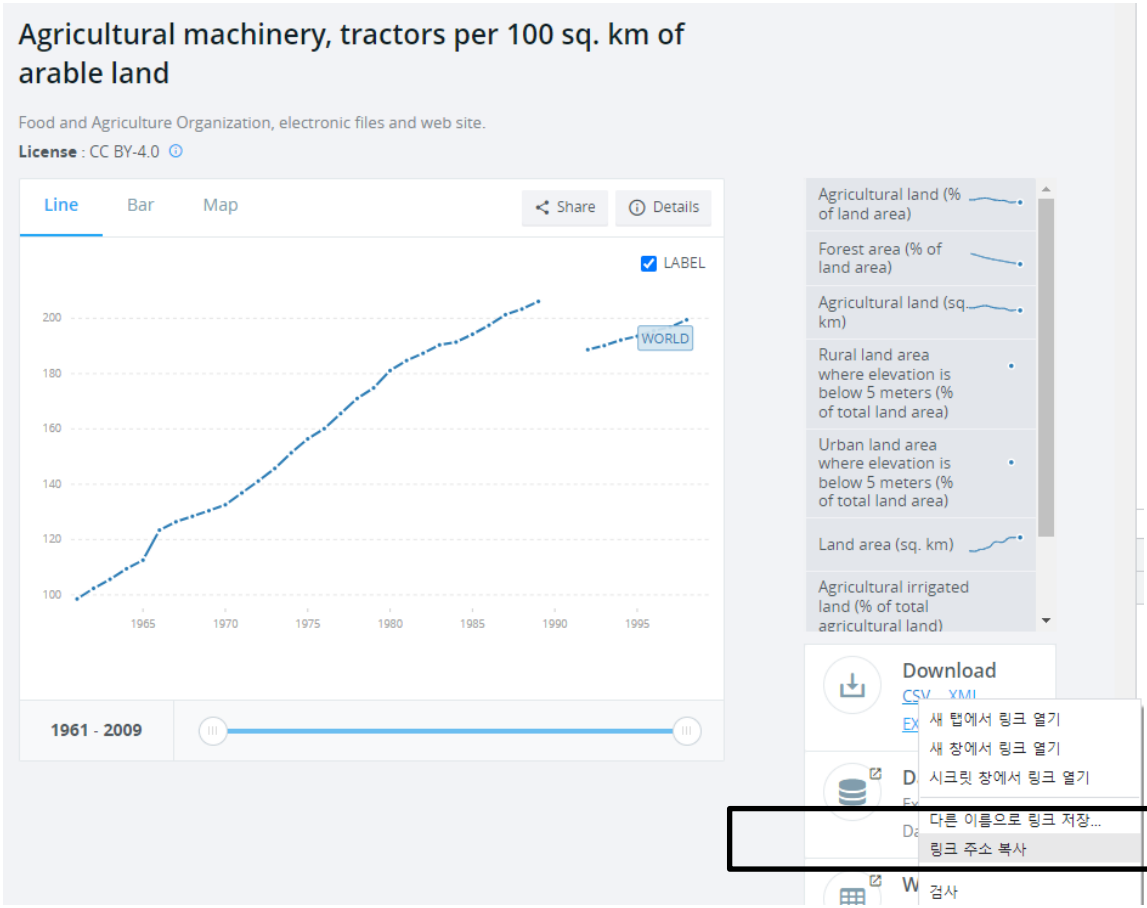




크롤링할 endpoint 확인하기(4/4)



https://api.worldbank.org/v2/en/indicator/AG.LND.TRAC.ZS?downloadformat=csv

국가별 indicators 정리 파일 형태

국가코드와 실제 국가명을 mapping하여야함

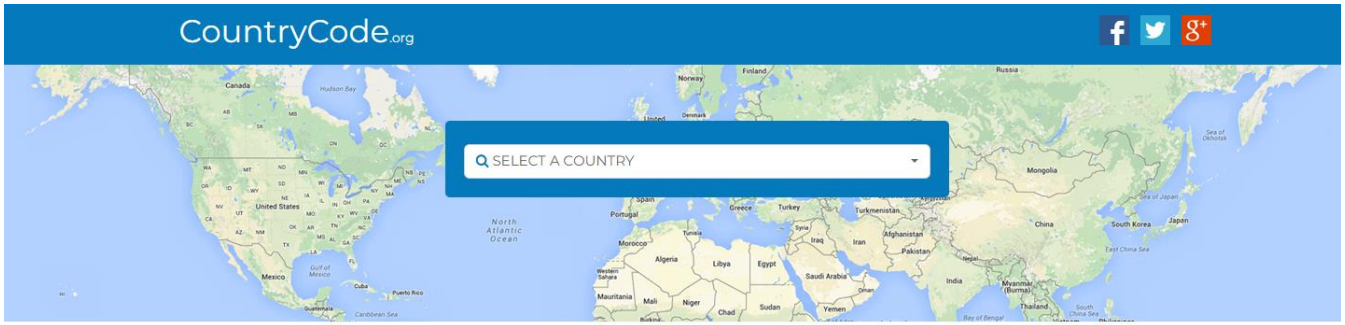
Country Code	AG.LND.ARBL.HA.PC	AG.LND.CROP.ZS	SP.RUR.TOTL	SP.RUR.TOTL.ZS	NV.AGR.TOTL.ZS	NY.GDP.MKTP.CD	NY.GDP.MKTP.KD.ZG	NY.GDP.PCAP.CD	NY.GDP.PCAP.KD.ZG	NY.GDP.PCAP.PP.CD	...	NE.IMP.GNFS.ZS	TX.
ABW	0.018764	0.003210	59554.0	55.948000	0.027573	3.126019e+09	17.172509	29342.100730	17.225300	42887.374913	...	68.251408	
AFE	0.178557	0.804311	448184780.0	62.175407	13.921312	1.169484e+12	3.404852	1622.391720	0.842507	4169.019532	...	28.749192	
AFG	0.200887	0.406298	30181937.0	73.384000	33.484499	1.458314e+10	-20.700000	363.674087	-22.929194	1673.964059	...	13.872054	
AFW	0.215282	2.018578	249836404.0	50.952615	21.889064	8.778633e+11	3.762758	1790.348800	1.192668	4798.434519	...	21.151077	
AGO	0.146582	0.252667	11359649.0	31.919000	13.649109	1.067136e+11	3.045403	2998.501158	-0.096755	6973.696299	...	16.621200	
...	...	...	...	...	...	...	...	...	...	...	...	...	...
XKX	0.000098	0.003210	0.0	0.000000	7.386859	9.429156e+09	3.511707	5351.439542	4.924753	14723.404932	...	70.760150	
YEM	0.035869	0.556850	20491585.0	60.812000	17.183127	2.160616e+10	0.752448	676.928385	-1.721735	836.187569	...	43.246924	
ZAF	0.204075	0.340453	18965399.0	31.665000	2.570586	4.058697e+11	2.042299	6776.480077	1.187663	15904.848363	...	31.464978	
ZMB	0.200764	0.048427	10857387.0	54.239000	3.388658	2.978445e+10	4.744942	1487.907764	1.895518	3894.310259	...	27.156932	
ZWE	0.255270	0.258498	11033499.0	67.605000	8.849899	2.067806e+10	3.400000	1266.996031	1.328184	2530.645987	...	30.901234	

266 rows × 116 columns

국가 코드 사이트

국가코드를 보여주는 사이트에서 실제 국가명을 mapping하면 됨

https://countrycode.org/



Country Codes

COUNTRY	COUNTRY CODE	ISO CODES	POPULATION	AREA KM2	GDP $USD
Afghanistan	93	AF / AFG	29,121,286	647,500	20.65 Billion
Albania	355	AL / ALB	2,986,952	28,748	12.8 Billion
Algeria	213	DZ / DZA	34,586,184	2,381,740	215.7 Billion
American Samoa	1-684	AS / ASM	57,881	199	462.2 Million
Andorra	376	AD / AND	84,000	468	4.8 Billion
Angola	244	AO / AGO	13,068,161	1,246,700	124 Billion
Anguilla	1-264	AI / AIA	13,254	102	175.4 Million
Antarctica	672	AQ / ATA	0	14,000,000	
Antigua and Barbuda	1-268	AG / ATG	86,754	443	1.22 Billion
Argentina	54	AR / ARG	41,343,201	2,766,890	484.6 Billion

최종 정리 파일

국가코드를 보여주는 사이트에서 실제 국가명을 mapping

	COUNTRY	COUNTRY CODE	ISO CODES	POPULATION	AREA KM2	GDP $USD	code	code3	Country Code	ISO Codes
0	Afghanistan	93	AF / AFG	29121286	647500	20.65 Billion	AF	AFG	AF	AFG
1	Albania	355	AL / ALB	2986952	28748	12.8 Billion	AL	ALB	AL	ALB
2	Algeria	213	DZ / DZA	34586184	2381740	215.7 Billion	DZ	DZA	DZ	DZA
3	American Samoa	1-684	AS / ASM	57881	199	462.2 Million	AS	ASM	AS	ASM
4	Andorra	376	AD / AND	84000	468	4.8 Billion	AD	AND	AD	AND
...	...	...	...	...	...	...	...	...	...	...
235	Wallis and Futuna	681	WF / WLF	16025	274	NaN	WF	WLF	WF	WLF
236	Western Sahara	212	EH / ESH	273008	266000	NaN	EH	ESH	EH	ESH
237	Yemen	967	YE / YEM	23495361	527970	43.89 Billion	YE	YEM	YE	YEM
238	Zambia	260	ZM / ZMB	13460305	752614	22.24 Billion	ZM	ZMB	ZM	ZMB
239	Zimbabwe	263	ZW / ZWE	11651858	390580	10.48 Billion	ZW	ZWE	ZW	ZWE

240 rows × 10 columns

	code	AG.LND.ARBL.HA.PC	AG.LND.CROP.ZS	SP.RUR.TOTL	SP.RUR.TOTL.ZS	NY.AGR.TOTL.ZS	NY.GDP.MKTP.CD	NY.GDP.MKTP.KD.ZG	NY.GDP.PCAP.CD	NY.GDP.PCAP.KD.ZG	...	NE.IMP.GNFS.ZS	TX.VAL.MRCH.CD.WT
AFG	AF	0.200887	0.406298	30181937.0	73.384	33.484499	1.458314e+10	-20.700000	363.674087	-22.929194	...	13.872054	8.830000e+08
ALB	AL	0.211287	3.210036	1004807.0	36.201	18.628032	1.888210e+10	4.844236	6802.804519	6.205275	...	47.841878	4.309000e+09
DZA	DZ	0.172721	0.424899	11328186.0	25.228	11.384084	1.919129e+11	3.100000	4273.922183	1.434777	...	22.439074	6.108900e+10
ASM	AS	0.069064	3.750000	5669.0	12.804	0.016625	7.090000e+08	-1.866252	15743.310758	0.648378	...	102.115656	3.020000e+08
AND	AD	0.009266	0.003210	9730.0	12.189	0.495686	3.352033e+09	8.809579	41992.793358	7.732716	...	1.127672	1.650000e+08
...	...	...	...	...	...	...	...	...	...	...	...	...	...
ESH	EH	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN
YEM	YE	0.035869	0.556850	20491585.0	60.812	17.183127	2.160616e+10	0.752448	676.928385	-1.721735	...	43.246924	8.730000e+08
ZMB	ZM	0.200764	0.048427	10857387.0	54.239	3.388658	2.978445e+10	4.744942	1487.907764	1.895518	...	27.156932	1.165100e+10
ZWE	ZW	0.255270	0.258498	11033499.0	67.605	8.849899	2.067806e+10	3.400000	1266.996031	1.328184	...	30.901234	6.586000e+09
TWN	TW	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN

240 rows × 117 columns