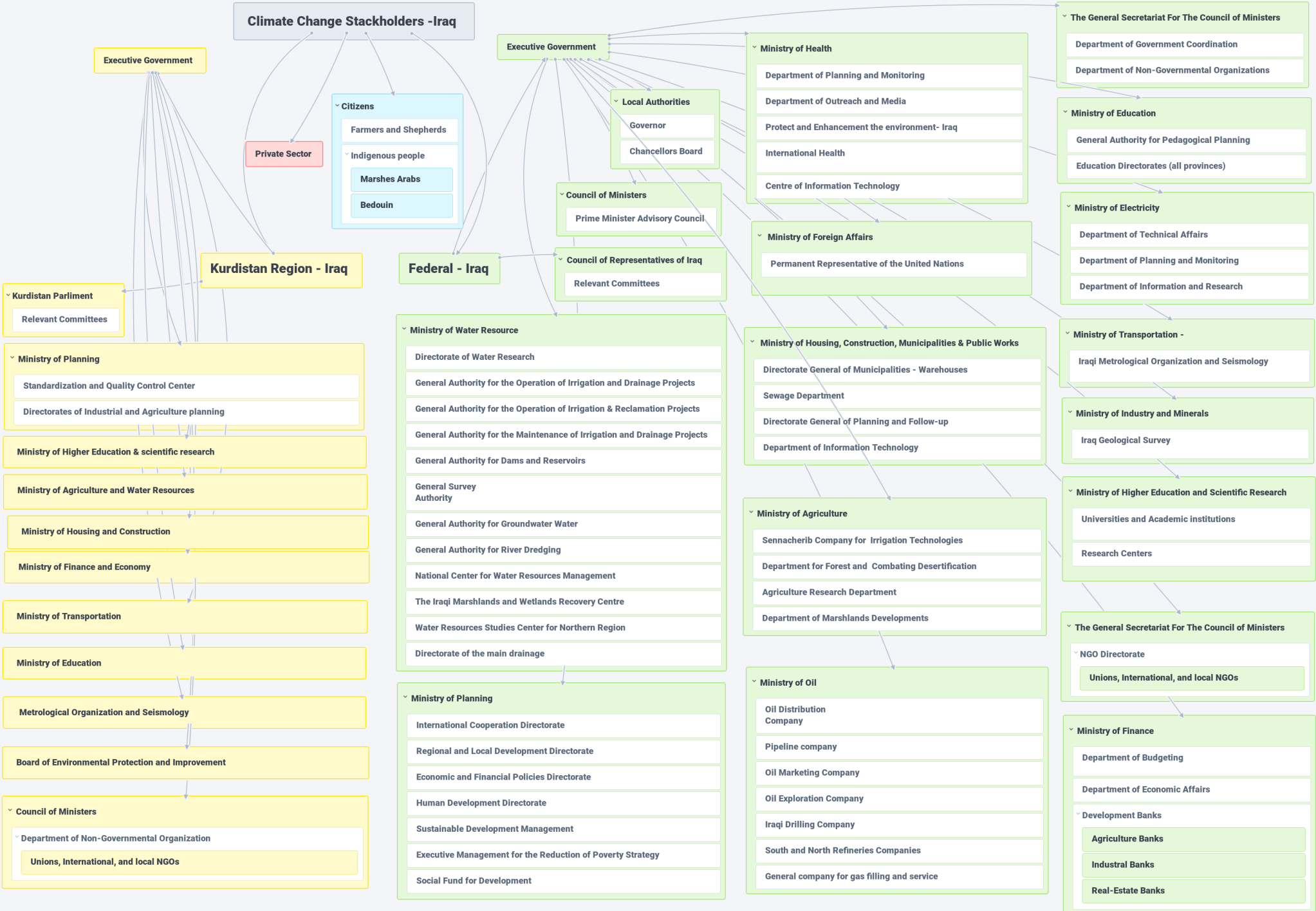
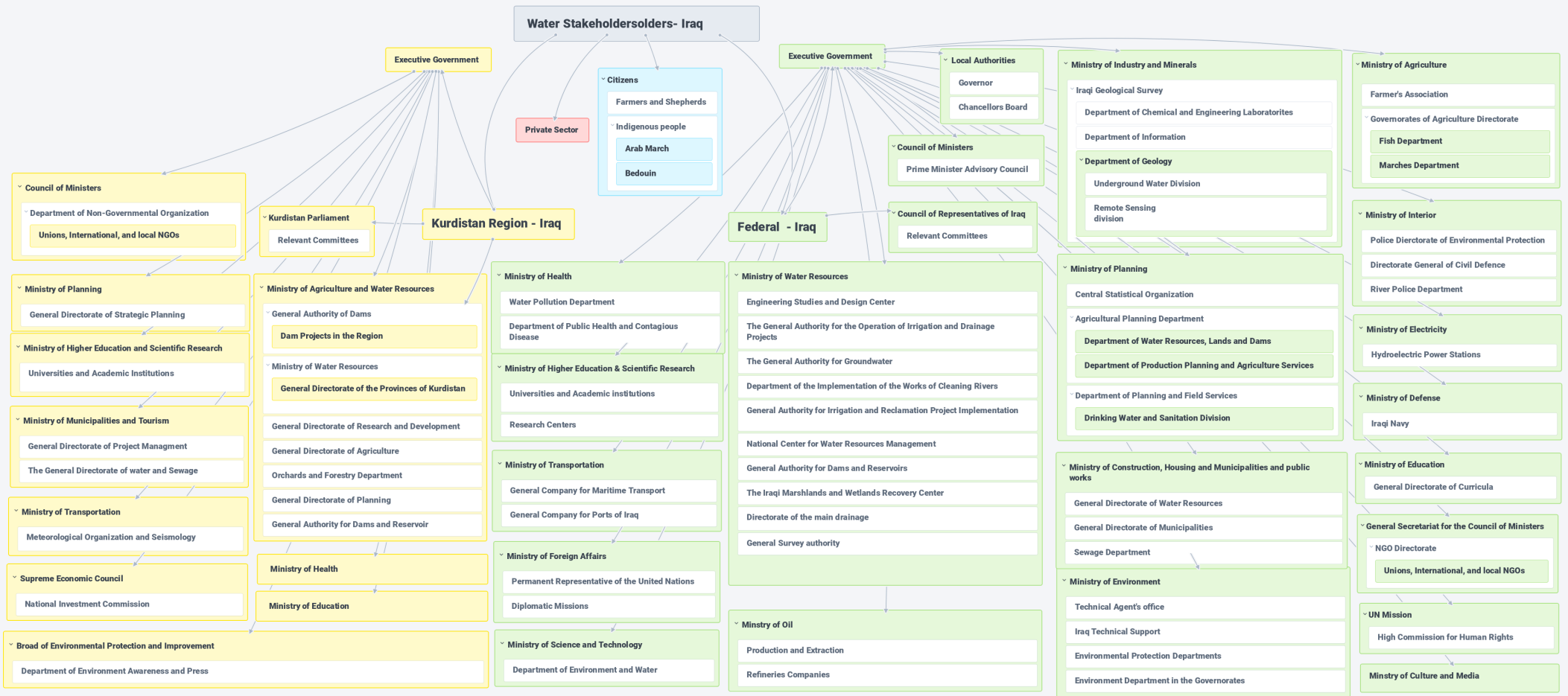


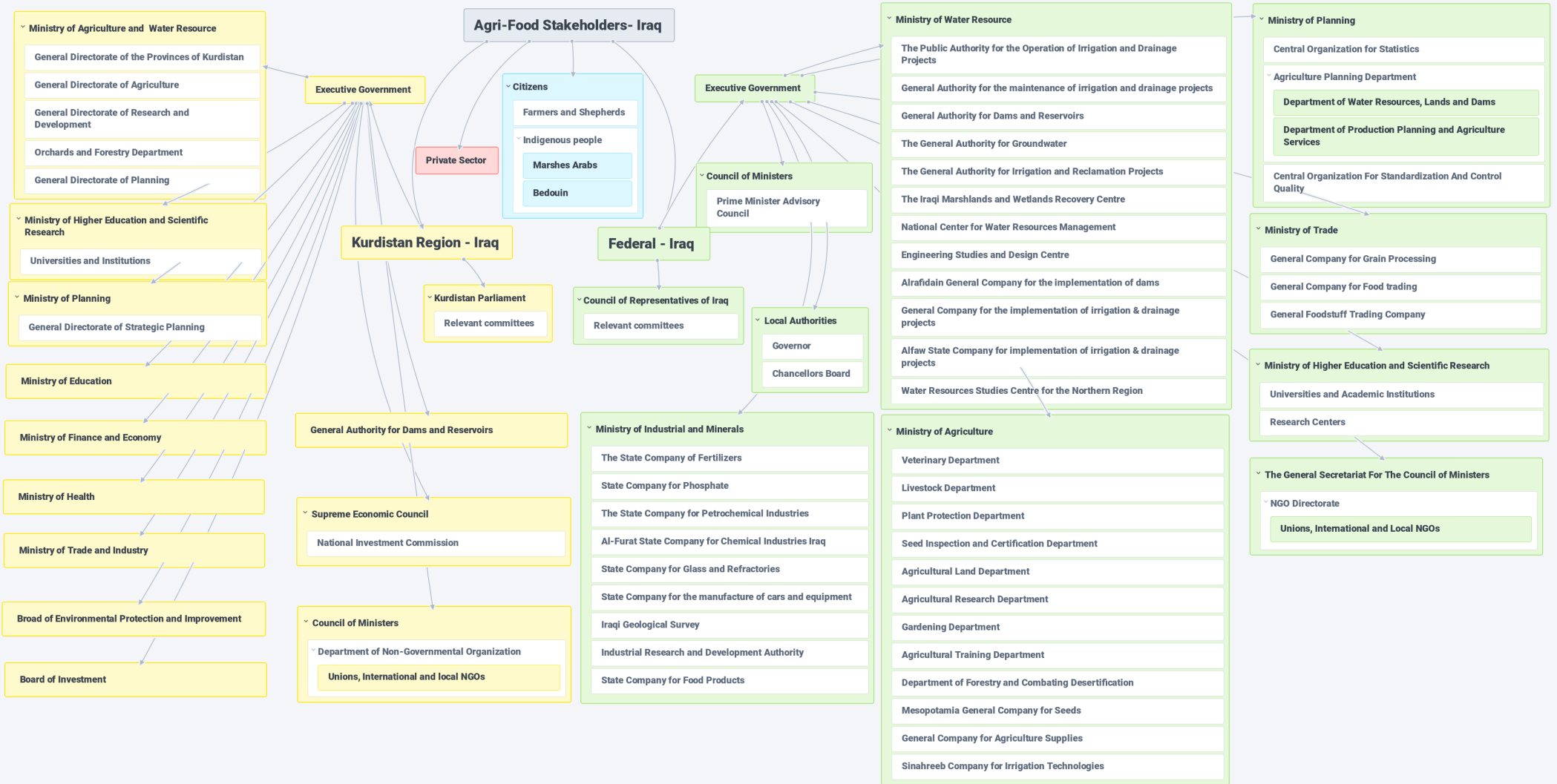
Annex - A: Climate change stockholders map



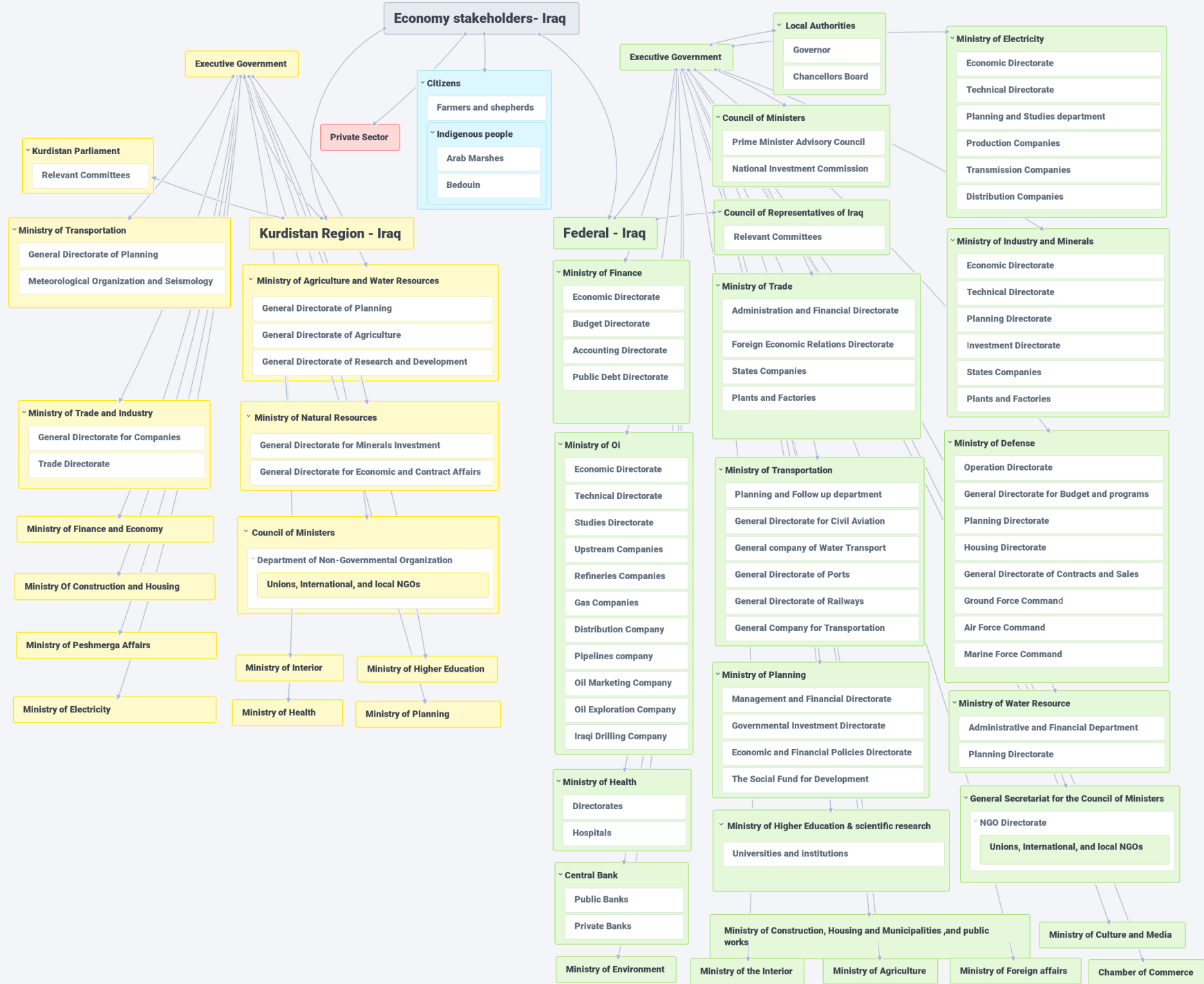
Annex - B: Water stockholders map



Annex - C: Agri-Food stockholders map



Annex - D: Economy stockholders map



Annex_E Stakeholders and function of Water, Agri-food, Climate change, and Economy

#	Stakeholder	Function
1	Citizen	All Iraqi people.
2	Executive government	All Ministries, Commissions, Organizations, Institutions, and governmental agencies.
3	Council of Representatives of Iraq	the highest legislative and oversight authority that achieves the interest of the country and represents citizens through the legislation of laws and monitoring the executive authority to ensure compliance with the laws
4	Council of Ministers	The council that headed by the prime Minister and attended to all the Ministers (the cabinet) to take strategic decisions for the country.
5	General Secretariat for the council of the Ministers	A governmental entity that supports the Council of the Ministers meetings and prepares files, documents, and agenda.
6	Provincial Councils	A county council that is responsible for making the projects of strategic and executive plans related to the governorate and ensuring their implementation, making the governorate's draft budget within the ceilings set by the Ministry of Finance and making the contingency plan for the governorate
7	Environmental Protection and Improvement Council	This council is responsible for advising on environmental matters that is presented and coordination between the activities of ministries and agencies concerned to protect the environment and evaluate their work ...etc
8	High Commission for Human Rights	Coordination with the relevant authorities in preparing joint strategies and mechanisms of action to ensure the achievement of its goals and preparing studies and research, submitting recommendations and expressing opinion on issues related to the promotion and development of human rights
9	Mayors of Districts and Sub-districts	Mayors of districts are responsible for implementing projects, employment, purchase of necessary cars for him, municipality employees and heavy equipment, and build buildings owned by the municipality
10	Prime Minister Office	Office of the Prime Minister that consists a staff who responsible for coordinating and managing the prime Minister meetings and agenda and help him in his duties
11	Supreme National Water Committee	This committee is responsible for making decisions to address water scarcity and implement small dams and commit with the established agricultural plan ...etc
12	Iraq Advisory Council	This council is responsible for provide help to organizations with anything from marketing to human resource management to influencing the direction of regulators
13	Adviser to the Prime Minister for Water and Agriculture Affairs	He is a professional expert who provides advice to the prime minister in water and agriculture affairs
14	Ministry of Water Resources	A ministry that responsible for water resources management, including maintenance river canals and building dams.
15	Directorate of Water Resources	A directorate that is responsible for organizing water distribution and controlling torrential rains and river basins. also responsible for management, operation and maintenance of dams, reclamation, irrigation, drainage and groundwater projects
16	Directorate of River Dredging	The department's main objective is to rid the rivers of sedimentation and weeds also maintenance and purification of reservoir dam's provider and transformer regulators.
17	General Authority for Groundwater	It is a service department that responsible of drilling, monitoring and maintenance groundwater wells in every provenance
18	General Authority for Dams and Reservoirs	the department supervises investigations and implementation of dams and dams' projects. As well as the operation and maintenance of civil, mechanical and electrical works for dams and dams' installations.
19	General Authority for Irrigation and Reclamation Projects Implementation	the authority is responsible for coordinating with the relevant authorities and follow-up on the listing requirements for the projects, preparing the financial budget for the projects within the investment development, and announcing tenders for the implementation of projects.
20	Engineering Studies and Design Centre	It is responsible for preparing designs for irrigation and reclamation projects using modern methods of water transfer and maintaining its quality in accordance with international standards.
21	The Iraqi Marshlands and Wetlands Recovery Centre	is responsible for the revival of the ecological system in the marshes and the wetlands and for developing the technical frameworks to support its biodiversity and the local residents.
22	National Centre for Water Resources Management	the centre is responsible for preparing environmental studies related to water resources, including soil and water, conducting the necessary analyses for them, and studying and measuring changes in water salinity in the Tigris and Euphrates rivers. It also prepares all necessary maps, studies, reports, and plans for the control and operation water resources
23	Directorate of the Main Drainage	it is a major development project that transfers the saline water resulting from irrigating agricultural lands in central and southern Iraq through an interconnected network of secondary and main drains that eventually flow into the public estuary that transports sewage water and chemical residues widely used in Agriculture to the Arabian Gulf.
24	Alrafidain General Company for the implementation of dams	the company implements many contracts for the construction of large dams of various types, small dams, dams, and various irrigation facilities such as regulators, canals, and a large number of pumping stations throughout Iraq. The company has implemented many infrastructure projects such as water projects and sewage projects.
25	Iraq General Company for the implementation of irrigation projects	The company is formed by the Ministry of Water Resources and it implements land reclamation projects, excavation and disinfection of drains, the construction of dams, bridges and various irrigation facilities.
26	Alfaw General Company for the implementation of irrigation and drainage projects	the company executes land reclamation as one of the major companies in Iraq for over twenty years which was constructed to Increase the Agricultural Area in Iraq and support the National economy. It is also engaged in the implementation of Pump Stations Modern Irrigation Construction Buildings and Housing units.
27	Water Resources Studies Centre for the Northern Region	the centre is responsible for conducting water-related studies for projects in the northern region for the purpose of optimal utilization of water resources, whether surface or underground. In addition to conducting studies regarding river basins and valleys and modern techniques to develop irrigation methods and water rationing for irrigation projects.
28	General Survey Authority	An authority that is responsible for establishing and maintenance of ground control networks (horizontal and vertical) including works (triangulation, ribbing, elevation leveling, and linking the national network to the global network and for all governorates of the country) and producing and equipping state departments with updated maps of various scales and types.
29	Water resources studies centers for the northern region	Conducting water-related studies for projects in the northern region for the purpose of optimal utilization of water resources, whether surface or underground. Conducting environmental studies with regard to pollution of surface or groundwater and soil.
30	Administrative and Financial Department	Maintaining and updating records of staffing, promotions, and bonuses for employees, and records of service for workers, organizing monthly schedules for delegates and those enrolled in studies from among the employees of the Ministry
31	Ministry of Agriculture	A ministry that is responsible for food security and supply, managing farms, and supporting investment in the agriculture sector
32	Agricultural Directorate in each province	the directorates achieve agricultural development through conducting agricultural research and working on implementing agricultural reform laws and other agricultural legislation and implementing national development plans and agricultural programs emanating from them.
33	Veterinary Department	Provides veterinary services with preventive and curative aspects for livestock in the country. It provides protection from the danger of endemic and imported diseases, as well as its effective contribution to preserving human health.
34	Livestock Department	a department that preserves and develops livestock in Iraq, raises the level of their production and conducts qualitative control of imported and locally produced fodder materials, and ensures their conformity with Iraqi standard specifications.
35	Fish Department	This department is responsible for making plans to increase, develop and nurture the endangered fish in Iraq.
36	Marshes Department	This department is responsible for keeping the required quantities of water for marshes to flood, monitoring its quality and recycling to ensure its sustainability and keeping its biological diversity
37	Seed Inspection and Certification Department	Seed Inspection and Certification Department: a quality control device for locally produced seeds and control of imported seeds in terms of their suitability for cultivation.
38	Agricultural Land Department	Oversees the proper application of agricultural legislation for various activities related to the regulation of agricultural property rights and tenure, the stabilization of farming rights, orchards and lands, and the patterns of agricultural exploitation.
39	Agricultural Research Department	a fully funded unit that conducts agricultural research, both plant and animal, and finds the necessary solutions to the dilemmas facing Iraqi agriculture in line with the local environmental conditions.
40	Gardening Department	it supports horticultural and forestry activities through research and indirect and direct investment of land. It introduces and develops new breeds of horticultural and forestry trees.
41	Agricultural Training Department	an educational service department that provides agricultural extension services to farmers, farmers, and animal breeders, developing their knowledge and skills, and encouraging them to adopt modern scientific methods.
42	Department of Planning and Field Services	A department that is responsible for sending employees to the work field and collecting field service data.
43	Department of Production Planning and Agricultural Services	A department that is responsible for making agricultural policies, improving the economic income for farmers
44	Department of Forestry and Combating Desertification	it combats desertification through desert oasis projects, sand dune stabilization projects, and natural pasture development projects
45	Plant Protection Department	it aims to protect crops from increasing agricultural production in terms of quantity and quality by protecting it from being infected with agricultural pests.
46	Farmers' Association	A cooperative in which farmers gather their resources in a specific activity.

Location	Total	% of total	Climate change	% of total	Water	% of total	Agri-food	% of total	Economy	% of total
Federal Iraq	177	78%	84	37%	82	36%	62	27%	89	39%
KRG*	51	22%	17	7%	31	14%	25	11%	27	12%
SUM	228	100%	101	44%	113	50%	87	38%	116	51%

*KRG Kurdistan Regional Government - Iraq

47	Mesopotamia General Company for Seeds	A State-Owned Enterprise that secures seeds of agricultural crops of all kinds and provides high-ranking wheat seeds and fodder maize grains in accordance with the central plans and policies of the state
48	General Company for Agriculture Supplies	A State-Owned Enterprise that provides the agricultural requirements necessary for agricultural production, both plant and animal, through local markets and if available, importing from solid and well-known international sources
49	Sinahreeb Company for Irrigation Technologies	Conducting research and implementing scientific and engineering field activities of modern irrigation and its impact on soil and agricultural crops through a specialized research centre, developing modern sprinkler irrigation systems.
50	Ministry of Oil	A ministry that is responsible for managing the country's oil and gas resources and control the oil industry.
51	Production and Extraction	A unite that aims to develop land and sea exploration areas to increase oil and gas reserves and implement projects that Contribute to sustaining and increasing national production
52	South and North Refineries Companies	Refineries aims to process crude oil and distill it into usable petroleum products such as, gasoline, diesel and fuel
53	Oil Distribution Company	A company that responsible for distributing oil products for consumers.
54	Pipeline company	A company that responsible for distributing oil products for Oil Distribution Company and Power plant.
55	Oil Marketing company	A company that responsible for exporting crude oil and importing oil products.
56	Oil Exploration company	A company that responsible for exploring crude oil and gas reservoirs.
57	Iraqi Drilling company	A company that responsible for drilling crude oil and gas wells.
58	General company for gas filling and service	A company that responsible for operating gas plants, manufacturing gas cylinders
59	Ministry of Planning	A ministry that responsible for preparation of the annual strategy plans for the overall developments in the country and follow up the implementation.
60	Central Organization for Statistics	A reference for everything related to Statistical in Iraq, for example collecting statistical data with a guarantee of secrecy of information
61	Agriculture Planning Directorate	this directorate implements comprehensive agricultural censuses and periodic surveys to estimate the cultivated area, average productivity, and production of all agricultural crops according to the seasonal and geographical distribution and the method of irrigation using the proposed sample method, as well as estimating the production of orchards, the numbers of trees and their products according to the types of fruits and estimating livestock projects and their products, fish farms and poultry fields.
62	Department of Planning and Field Services	A department that is responsible for sending employees to the work field and collecting field service data.
63	Central Organization for Standardization and Control Quality	this organization provides its services and technical advice to all official and non-official agencies, including consumers, producers, and importers. It is responsible for any work related to economic activity and the security situation in the country.
64	Investment Directorate	A directorate that responsible for studying and investment budget for the projects and gives approvals.
65	Social Fund for Development	A department that cooperates with the World Bank for Living development and jobs opportunities.
66	International Cooperation directorate	Contribute to the review and approval of projects funded by donor countries and institutions
67	Local and regional Development directorate	Regional and local development Directorate works for tasks related to the spatial dimensions of the development process for the various economic sectors.
68	Economic and financial policies directorate	Contribute to developing the performance of the Iraqi economy and work to create a balanced and diversified economy in a way that enhances the position of the Iraqi economy.
69	Human Development directorate	The proposal of the overall objectives and indicators for social development programs. Establishment of a database and indicators for social development, laws and regulations related to social security, children and young people and women.
70	Sustainable Development Management	the Ministry of Planning began its work on the preparation of a plan within the framework of this global agenda represented by the formation of the National Commission for Sustainable Development.
71	Executive Management for the Reduction of Poverty Strategy	Updating the poverty line annually in light of inflation indicators and the results of ongoing annual surveys of the family's social and economic status. Preparing a national map showing poverty hotspots and executive management of the poverty alleviation strategy. Coordinate with the concerned ministries and governorates the distribution of annual allocations to support the activities of the poverty alleviation strategy.
72	Ministry of Environment	A ministry that is responsible for paying attention to the environment and environmental resources, collecting environmental permits
73	Technical Agent's Office	The technical agent got all the references (technical, administrative, financial, legal).
74	Iraqi Technical Support	The specialty that is concerned with helping people with many technical things that they can't solve.
75	Environment Protection Departments	These departments are responsible for suggesting annual work plans for the protection and improvement of the environment , studying the environmental problems in the governorate and suggest solutions to solve them in coordination with the concerned authorities and follow up and improve the safety of the environment by conducting examinations related to the environmental colorants and the factors affecting the safety and improvement of the environment in coordination with the concerned authorities.
76	Environment Departments in the Governorates	All the departments that related to Environment Ministry in the governorates.
77	Ministry of Health	A ministry that responsible for supervising and managing all the hospitals and clinics, and develop the health system in the country.
78	Water Pollution Department	A department that is responsible for finding causes and solutions for water pollution and spreading prevention and warnings about it.
79	Department of Public Health and Contagious Diseases	A department that is responsible for Finding solutions for a healthier society by developing public health knowledge through research and service, promotes health and prevents disease.
80	Department of planning and monitoring	Coordinate monitoring and evaluation of the health system and its performance and provide comprehensive health information for evidence.
81	Department of outreach and media	Documenting all media activities of the ministry, as well as providing awareness programs for citizens.
82	Protect and enhancement of the environment-Iraq	to improve and to protect the environment by handling the damages, protecting the public health and the natural resources.
83	International Health	is the coupling link between the Ministry of Public Health and the international organizations
84	Centre of Information Technology	Use the Ministry of Health database to find information about licensed medical and healthcare
85	Ministry of Finance	A ministry that responsible for preparing the general budget for the country and collect the revenues and distribute the employees' salaries.
86	Budget Directorate	A directorate that responsible for the financial planning for the federal budget.
87	Accounting Directorate	A directorate that responsible for implementing the federal budget and financial allocations.
88	Development Banks (Agriculture, industrial, Real-state)	Provide excellent and innovative services for all Iraqi people for the benefit of the national economy development and thrive to achieve economic development
89	State department of economic affairs	undertakes the planning and preparing reports related to the economic activities also publishing articles, developing training box for the ministry employees
90	Economic Directorate	Conducting reports on economic activities and the results of research, as well as issuing bulletins and periodicals on various economic topics, and preparing training and development programs for the staff.
91	Accounting Directorate	Organizing the supervision of the cash liquidity of the state's public treasury, implementing the budgets on monthly bases, and final financial statements of the government accounting system
92	Public Debt Directorate	Follow up on the implementation of loan and grant agreements and obtain legal approvals. Scheduling and paying old and new internal debts, following up on all legal matters and issues related to the subject of settling Iraq's foreign debts, and providing legal defenses against lawsuits filed abroad against the Iraqi government in the matter of foreign debts.
93	Ministry of Defense	A ministry that responsible for defending the boarders of the country and protecting the people from external and internal threatens
94	Operation Directorate	A directorate that responsible for supervising and controlling the military operations in the country.
95		
96	Housing Directorate	A directorate that responsible for housing the soldiers for all kinds of forces and situations.
97		1.
98	General Directorate of Contracts and Sales	A directorate that responsible for studying and issuing approvals for contracts and general sales.
99	General Directorate for Budget and programs	To pay the dues of the employees of the Ministry of Defense and the dues of the families of the martyrs and the wounded.
100	Ground Force Command	The most important and largest formations of the Iraqi armed forces formed in 1921.
101	Air Force Command	The Iraqi Air Force is the air branch of the Iraqi Armed Forces that responsible for protecting Iraq's skies, monitoring international borders and national property, and conducting air operations. Its foundation dates back to 1931.
102	Marine Force Command	The Iraqi Naval Force is one of the formations of the Iraqi Armed Forces. It was established on August 12, 1937. Its main responsibilities are protecting the coasts and the Iraqi maritime economic zone.
103	Iraqi Navy	A force that is responsible for defending the coastal water of the whole country and to prevent smuggling of oil, gas, people, and ... etc.
104	Ministry of the Interior	A ministry that responsible for the internal security of the country, law enforcement services, managing roads traffic, and firefighting services
105	Police Directorate of Environmental Protection	A security force that protects the (environment, hospitals, public places ... etc.) from pollution.
106		
107	Directorate General of Civil Defence	A directorate that gives protection for the citizens and avoiding dangers that threaten public safety

108	River Police Department	This department is responsible for protecting banks of rivers and people from drowning in the rivers and searching for them and retrieve their bodies
109	Ministry of Industry and Minerals	A ministry that responsible for the industrial development in the country and manage the relevant planets and factories
110	Department of Chemical and Engineering laboratories	A department that does researches to develop new and improved manufacturing processes, establish safety procedures for those working with dangerous chemicals, establish safety procedures for those working with dangerous chemicals
111	Information Department	A department that is responsible for providing information and details for researchers
112	Department of Geology	A department about the study of rocks and similar substances that make up the earth's surface
113	Remote Sensing Division	A division that gets remote information about earth's surface and water bodies by a recording device that does not touch earth's surface or water bodies, which is the process of collecting data in the wavelengths between ultraviolet to the radio band
114	The State Company of Fertilizers	the company is responsible for major projects for the fertilizer industry, including rehabilitating and establishing a new factory to enhance the company's position in its share of the market after covering all the country's needs of urea necessary to implement plans to develop the agricultural sector and enhance food security for the Iraqi citizens
115	The State Company for Petrochemical Industries	the company was established to produce raw materials that are used in the manufacture of plastic materials (polyethylene and polyvinyl chloride) and any other petrochemical products that depend on natural gas or other petroleum products
116	Al-Furat State Company for Chemical Industries Iraq	the company is formed by the Ministry of Minerals and Natural Resources and it owns two productive factories Caustic Soda factory and the Sulfuric Acid factory
117	Industrial Research and Development Authority	the authority is responsible for conducting research, surveys, and tests in the industrial domains, in addition to approving new industrial products. It also has a technological business incubator
118	State Company for Food Products	the company produces a wide range of fast-moving consumer products that aim to promote the local industry
119	State Company for Phosphate	The company has an interconnected chain of factories that produces all kinds of phosphate fertilizers, in addition to a concentrate plant, sulfuric acid plant, phosphoric acid plant, industrial services units, fertilizer plants, and an ammonia plant
120	State Company for the manufacture of cars and equipment	A company specializing in manufacturing and agricultural engineering industries.
121	State Company for Glass and Refractories	A state company recently formed after the merger of the Refractories Company and the Glass Company, specializes in various industries, including the manufacture of ceramics, the manufacture of sodium silicate, and thermal insulating bricks of all kinds in addition to refractory materials that are used in building furnaces and producing Basaltic bricks from its factories
122	Iraqi Geological Survey	Scientific research state company corresponding to the Iraqi academic research institutions in the field of earth sciences, and it is the scientific body that is responsible for the geology and mineral resources and works to implement the requirements of sustainable development
123	Ministry of Electricity	A ministry that responsible for supervising and managing all the Power planet, transmission lines and distribution the electricity for consumers
124	Hydroelectric Power Station	This station is responsible for generating unit maintenance works to return to service
125	Department of technical affairs	Responsible for the sector of production, transmission and distribution of energy in its technical aspects in general
126	Department of planning and monitoring	Preparing the annual report on energy efficiency and rationalization of consumption, compiling the approved standard specifications for the Ministry's sectors
127	Department of information and research	Advanced Grid Research and Development activities accelerate discovery and innovation in electric transmission and distribution technologies
128	Economic Directorate	Arranging the necessary funds to carry out the activities of the Ministry, its formations and departments, and drawing up financial policies
129	Technical Directorate	Work on preparing annual production plans for all sectors, plans, fuel activities, maintenance programs, rehabilitation plans, follow-up on their implementation, as well as follow-up and contribute to the preparation of strategic plans, in addition to managing the loan file, following-up projects, launching financial allocations, studying energy delivery, supervising and following-up the implementation of training plans
130	Planning and studies department	Preparing strategic plans according to future needs and based on scientific methodology, technical and economic studies, and load forecasting studies.
131	Transmission Companies	Transmission of energy through secondary stations and grids.
132	Distribution Companies	Operation and maintenance of electrical distribution networks and transformer stations to ensure the flow of electricity. Establishment, development and expansion of electric power distribution networks and transmission stations
133	Ministry of Trade	
134	Foreign Economic Relation Department	A directorate that responsible for internal and external economic policies and supporting external economic relationship
135	General Company for Food trading	the company was established to import and market various foodstuffs and exercise a limited export activity for some redundant local products
136	General Company for Grain Processing	the company is responsible for the import of wheat and rice for the purposes of the ration card, marketing, storage, purification, and packaging of grains such as local wheat and rice
137	General Foodstuff Trading Company	Approving the company's commercial plan and following up on its implementation. This includes the import plan, local sales and purchases, and services related to its implementation.
138	Administration and Financial Directorate	Organizing and preparing the staff and supervising the implementation of the laws of service, retirement, and discipline for the center of the ministry and its formations in accordance with the law. Following up the administrative services of the Ministry, including inquiries, means of transportation for employees, correspondence, and archives.
139	States Companies	An enterprise in which the State owns the entire capital and which is established, and whose management is organized and operations by the state
140	Plants and Factories	
141	Ministry of Construction, Housing, Municipalities and Public Works	A ministry that responsible for supervising, managing and build Strategic roads, bridges and housing
142	General Directorate of Municipalities	A directorate that is responsible for developing cities and villages around, lighting roads, plant trees and directional panels, implementing plans for citizens, organizing markets, draining rainwater and maintaining the cleanliness of the city
143	Department of Information Technology	Development the Strategic Performance to the applied Study in the Ministry.
144	General Directorate of Water Resources	The entity responsible for providing potable water and treating sewage and solid waste.
145	Sewage Department	A department that is responsible for discharge of liquid waste from buildings and factories to the treatment plant or places of disposal
146	Directorate of Housing	Implementation of public housing projects included in the annual housing plans, as well as proposing the necessary annual, interim and long-term plans for housing
147	Directorate of Roads and Bridges	Supervising the design and implementation of public road projects of all kinds, including highways, municipalities, all bridges, intersections and tunnels
148	Ministry of Higher Education and Scientific Research	A ministry that responsible for supervising the universities, scientific institution and research centres and transfer knowledge
149	Universities and Academic Institutions	All educational universities institutions related to this ministry whether they were public or private universities such as Baghdad College, Al-Mansour university college etc
150	Research Centres	A specialized centre in scientific research that aims to strengthen and develop multiple specialties scientific research culture in society
151	Ministry of Education	A ministry that responsible for supervising and managing all the schools and develop the education system in the country
152	General Authority for pedagogical planning	Responsible for assessing the needs, capabilities and priorities for the development of education and for implementing and evaluating the plan as well as directing and coordinating the work between the general directorates
153	Education Directorates (all provinces)	1. Responsible for education at all levels within the levels of the Ministry of Education
154		
155	General Directorate of Curricula	This directorate is responsible for preparing curricula for the various stages and types of education and submitting them for publication and doing research and studies to develop work in the general directorate... etc
156	Ministry of Science and Technology	A ministry that responsible for supervising and managing the scientific centers and technology transfer in the country
157	Department of Environment and Water	This department is responsible for making research and doing seminars to detect pollution in water and environment and treat it
158	Ministry of Transportation	A ministry that is responsible for public and private transporting inside the country
159	General Company for Maritime Transport	This company aims to do all maritime and river transporting for goods, people and related works whether it is inside or outside Iraq
160	General Company for Ports of Iraq	This company is specialized with works of managing Iraqi ports, navigation in the regional waters , maintenance work and drilling in navigation channels
161	General Directorate for Civil Aviation	A directorate that responsible for managing and controlling the civil aviation
162	General Directorate for Railways	A directorate that responsible for managing and controlling the Railways
163	Iraqi Metrological organization and Seismology	presents technical consultancy, which play a major role in economic projects and social changes more than its services in the field of weather forecasting and seismic monitoring
164	Planning and Follow up department	Responsible for planning and follow-up work related to land, water and air transport, transportation and storage
165	General Company of Water Transport	Carry out all sea and river transport of goods, people, and related works, whether inside or outside Iraq, in addition to the work of maritime agencies in Iraqi ports.
166	General Company for Transportation	A directorate that responsible for managing and controlling the governmental transportation media

167	Ministry of Culture and Media	A ministry that is responsible for disseminating knowledge and culture among the people, introducing the Arab and Islamic civilization, spreading its message, and providing the possibilities to meet with major global civilizations using various media
168	Ministry of Foreign Affairs	A ministry that responsible for the diplomatic relations with the world countries and the international community
169	Permanent Representative of the United Nations	Is the head of diplomatic mission to the UN
170	Diplomatic Missions	is a group of diplomatic representatives sent by a sovereign country or an international or regional organization for the purpose of representing it in another country
171	National Investment Commission	A governmental commission that responsible for supervising, managing and issuing licenses for all investment projects in the country
172	Central Bank of Iraq	Governmental Entity responsible for the Iraqi treasury and currency
173	Chamber of commerce	A non-governmental organization concerned with economic and commercial activities
174	Economic/Financial Directorate	A directorate that responsible for distributing the Ministry budget, products prices, and economic and financial consulting
175	Technical Directorate	A directorate that responsible for issuing technical approvals, following up projects, and technical consulting
176	Studies/Planning Directorate	A directorate that responsible for projects studying, planning, follow up projects' implementation, and consulting
177		
178	Kurdistan Regional Government	All provinces, Ministries and governmental entities in Kurdistan
179	Council of Ministers	the council of ministers is responsible for inter-ministerial work, including the organization of the relationship with the Prime Minister, as well as overseeing the administrative, financial, and legal matters of Kurdistan Regional Government
180	Department of Non-Governmental Organization	this department is responsible for registering, organizing, supervising, and monitoring all NGOs in KRG
181	Kurdistan Parliament	A parliament of the region that examines proposals for new law, shapes government policy and administration, and debates the major issues of the day
182	Ministry of Agriculture and Water Resource	is responsible for developing government policy on food security and supply, and supporting investment in agriculture as a key sector of the economy. It is also responsible for the increase of water resources and canals
183	General Directorate of Research and Development	is responsible for conducting agricultural research and guidance of farmers, in addition to conveying research results into the farms
184	General Directorate of Planning	is responsible for proposing the ordinary, strategic, and investment plans in addition to the preparation of designs for engineering projects and the follow up with the implementation of the plans and governing the statistics, the human resources, IT systems and supervise and monitor the responsibilities of the directorate of agriculture services in the other ministries and provinces
185	General Authority for Dams and Reservoirs	is responsible for preparing the requirements of large and small dams projects, as well as execution, monitoring, and supervision, operations, and maintenance
186	Dam Projects in the Region	It is responsible for constructing of dams and projects that is related to water in the region
187	General Directorate of the Provinces of Kurdistan	It is responsible for preparing the basic legal provisions common to all public jobs and implementing them in accordance with the legislation in the field of public office and preparing special texts that govern the career path of its employees in partnership with the concerned public institutions and administrations
188	General Directorate of Agriculture	It is responsible for preparing and implementing extension programs related to all aspects of plant production and plant protection
189	Orchards and Forestry Department	It is responsible for creating green belts and windbreaks and protect fields and orchards
190	Ministry of Interior	Responsible for serving citizens by providing security and stability, protecting their lives and property, and combating crimes of all kinds
191	Ministry of Finance and Economy	It works on laying down the general foundations of administration, regulating economic and financial income and public spending, and determining the general budget and financial plan for the region
192	Ministry of Natural Resources	The Ministry of Natural Resources supervises oil operations by setting general policies, exploration, extraction, follow-up, planning, auditing, marketing and everything related to this aspect
193	General Directorate for Minerals Investment	Granting work licenses for mineral investment
194	General Directorate for Economic and Contract Affairs	completing contracts for investment in natural resources
195	Ministry of Health	The Ministry of Health supervises and monitors the health situation in the region
196	Ministry of Construction and Housing	sets general plans for the construction and housing policy in the region in the areas of housing, real estate and roads
197	Ministry of Municipalities and Tourism	It works on developing cities, districts, districts, and villages in terms of roads, water, sewage, cleaning, tourism and antiquities
198	Ministry of Planning	is responsible for planning and prioritizing government investments in coordination with relevant ministries
199	General Directorate of Strategic Planning	is responsible for the process that starts when any ministry submits a proposal for a project that they wish to implement. The directorate reviews the project plan, applies its technical suggestions and returns it to the concerned ministry for review. The concerned ministry will then decide whether or not to
200	Standardization and quality control authority in the region	Responsible for standardization and quality control in the provinces of the region
201		
202	General Directorate for Development Coordination and Cooperation	Follow up on the affairs of donor countries and countries' organizations also Formulating policies to encourage the private sector and investment
203	Ministry of Higher Education and Scientific Research	supervises the institutions of higher education in Kurdistan Region, develops strategies to organize studying processes, and develops indigenous scientific research
204	Ministry of Education	is mandated to develop the education sector in KRG, to foster the growth of scientific and technical expertise, and to create conditions in which people of all backgrounds can play an active role in social progress
205	Ministry of Trade and Industry	is responsible for drawing up general trade and industrial policy in KRG with the aim to advance economic and social development
206	General Directorate for Companies	Registering new companies and granting permission for import, export and factory licences
207	Trade Directorate	Developing key industries by granting work permits to new factories, evaluating domestic products through quality control and brand services.
208	Ministry of Health	is responsible for overseeing and monitoring healthcare provisions in KRG for ongoing development of medical scientific expertise and capability
209	Ministry of Finance and Economy	is responsible for setting the general budget for the KRG, as well as for financial planning and administration of public incomes and expenditures
210	Ministry of Transport and Communications	A ministry that is responsible for public and private transporting inside the country
211	General Directorate of Planning	deal with planning, research, surveys and studies; statistics; in addition to the complementary role of monitoring, follow-up and evaluation.
212	Meteorological Organization and Seismology	Providing weather and earthquake forecasting services with up-to-date technology.
213	Ministry of Municipalities and Tourism	This ministry is responsible for developing cities, districts, districts and villages in terms of roads, water, sewage, cleaning, tourism and antiquities
214	Ministry of Culture and Youth	The Ministry of Culture and Youth is interested in building the required infrastructure to enhance the fields of culture, art and sports and to develop youth fields in the region
215	The General Directorates of Culture and Arts in the governorates of the region	Managing all cultural events within the Kurdistan Region
216	Directorate General of Information	Responsible for media issues related to youth and civil society
217	Ministry of Electricity	It works to provide citizens with electric power, works on economic infrastructure projects in Kurdistan, and develops the electricity system
218	General Directorate of Project Management	This directorate is responsible for managing and implementing portfolios, programs and projects and preparing a governance and framework for project management
219	The General Directorate of Water and Sewage	This directorate is responsible for participating to develop the ability to track progress towards internationally agreed goals, relying on improved information systems and enhanced monitoring frameworks and inclusion of the human settlements dimension in the World Water Development Reports
220	Board of Environmental Protection and Improvement	It is responsible for making annual, medium and long-term plans for the protection and improvement of the environment and presenting them to the council for approval, proposing determinants and controls for environmental pollutants, monitoring the safety of their implementation and submitting them to the
221	Board of Investment	is responsible for promoting and supporting investment opportunities in KRG, assisting investors, and authorizing licenses across all sectors
222	Department of Environmental Awareness and Press	is responsible for helping the individual to discover environmental problems around him and work to find appropriate solutions to them and to enhance the role of positive behaviour among individuals in their dealings with the elements of the environment
223	Supreme Economic Council	is responsible for achieving the highest standard of living, economic and social progress, solving international social, economic and health problems, respect and observance of human rights and fundamental freedoms of society
224	National Investment Commission	A governmental commission that responsible for supervising, managing and issuing licenses for all investment projects in the country
225	Economic/Financial Directorate	A directorate that responsible for distributing the Ministry budget, products prices, and economic and financial consulting
226	Technical Directorate	A directorate that responsible for issuing technical approvals, following up projects, and technical consulting
227	Studies/Planning Directorate	A directorate that responsible for projects studying, planning, follow up project's implementation, and consulting
228	Private Sector	Is a private institutions and companies that do not belong to the government but owned by individuals or companies

Annex_F Climate Change Security and Ripple Effect Matrix

Challenges (Management)
<i>Climate change and water</i>
Droughts/ floods
Poor integrated water management
Dams Impact
<i>Climate change and agrifood</i>
Desertification
Pollution Impact
Food insecurity
<i>Climate change and economy</i>
Industry and agricultural regression
Increasing adaptation cost
Solid waste impact
<i>Water and agrifood</i>
Lean water supply system
Traditional irrigation
Agricultural pollution
<i>Water and economy</i>
Freshwater overused
Improper oil production
Natural resource depletion
<i>Agrifood and economy</i>
Inadequacy infrastructure
Insecure value chain
Financial and resource deficit
Challenges (Governance)
<i>Climate change and water</i>
Fuzzy system
Riparian non-cooperation
Unsustain strategies
<i>Climate change and agrifood</i>
Absence resilience policies
vulnerable agriculture plans
Unclear food governing system
<i>Climate change and economy</i>
Inadequate green economic policies
Governmental regulations failure
Lack of incentives using green technology
<i>Water and agrifood</i>
Agricultural maladaptation
Limited water rationing action plan
Absence of farming quality control
<i>Water and economy</i>
Budget allocation deficit
Ineligible water tariff

Bureaucracy suspends projects
<i>Agrifood and economy</i>
Outdated agriculture law
Abandoned Agri-Economic policies
Decentralize custom tariff
Solutions (Management)
<i>Climate change and water</i>
Updating irrigation system and infrastructure
Modern meteorological monitoring system
Long-term national awareness program
<i>Climate change and agrifood</i>
Launching national capacity building program
Usage of resilient plants
Adopting technology: closed system and wastewater recycling
<i>Climate change and economy</i>
Support innovation in renewable energy
Climate change adaptation budget
Green construction system
<i>Water and agrifood</i>
Fostering riparian cooperation
Adopt integrated water resources management
Adopt climate water-smart technologies
<i>Water and economy</i>
Plan investment riparian strategy
Develop seawater supply policy
Plan riparian Agri-Food-Water security
<i>Agrifood and economy</i>
Develop agribusiness national initiative
Establish agriculture land protection law
Develop the quality control system
Solutions (Governance)
<i>Climate change and water</i>
Establishing climate change legislation
Analyze stakeholders maps
Decision-making optimization
<i>Climate change and agrifood</i>
Adopt climate- agrifood risk strategy
Embrace a national resilience plan
Enforce modern technology
<i>Climate change and economy</i>
Adopt carbon offset policy
Develop lean energy policy
Legislate environmental penalties and incentives
<i>Water and agrifood</i>
Sustainable farming system

Water-Wells drilling monitoring system
Ban flooding irrigation
<i>Water and economy</i>
Nexus impact forecasting model
Increasing water and agriculture ministry's budget
Develop water tariff policy
<i>Agrifood and economy</i>
Reform supply chain policies
Protect agriculture market with an anti-dumping policy
Reform environment, water Resources, and agriculture ministries