

**Qualifications:**

Proven record with a broad background in project management, business development, marketing and economic-financial consulting in the fields of engineering infrastructure development and institutional strengthening; Extensive international experience in planning and development projects for multilateral organizations, public bodies and private entities; Highly experienced in teamwork management; Good writing and presentation skills; Fluent in English and Spanish; Fully computer-literate. European national, American GC.

**Education:**

M.Sc. (with distinction) in Management and Agricultural Economics, Hebrew University.

Ph.D. in Agricultural Economics and Operations Research, Pennsylvania State University.

Course in Project Management; Training in computer office software.

**Experience:**

**2013 - Present: Independent Consultant**

**1984-2012: TAHAL GROUP.** Engaged in planning and execution of numerous projects including water supply and civil works, sewage, water treatment, energy, desalinization, irrigation, agriculture and regional development, organization and water resources management in more than 30 countries in Latin America, Asia, Africa and Europe (see attached list of projects).

Activities during this period comprised managerial, professional and marketing duties:

- Leading and managing large-scale international projects. Planning implementation and time tables; preparation of project studies and quality control monitoring; responsible for contract follow-up and budget administration.
- Business development. Preparation of proposals, drawing up of business plans and DD investigations; coordinating client negotiations and liaison with subcontractors, legal advisors and international financing organizations; promoting privatization issues of water and sewage corporations.
- Managing Director of a company subsidiary.
- Feasibility and economic viability studies in the framework of multidisciplinary teams. Benefit/cost appraisals, cash flow preparation, accounting and economic-financial analyses, ranking of alternatives, agricultural planning and system organization.
- Economic adviser to the water and sewage boards of local municipalities in Israel.

**1980-1984: WHARTON ECONOMETRIC FORECASTING (Affiliated with the University of Pennsylvania), USA.**

Responsible for developing forecasting models for macroeconomic policy scenarios, energy demand and tariff projections.

**Lecturer** in Economics, Water Resources Planning and Allocation, Project Evaluation, International Marketing and Agricultural Planning at the following institutions in Israel: College of Management (2008); Center of International Cooperation for Agricultural Development (2001); Ruppin College (1997); Settlement Study Center (1984-1986); Faculty of Agriculture of the Hebrew University (1984-1985, 1993).

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## TZR – PROJECT LIST

COUNTRY & YEAR	PROJECT DESCRIPTION	ROLE & ACTIVITIES	CLIENT / FUNDING
<b><i>Irrigation &amp; Agricultural Development</i></b>			
Peru & Ecuador (2011-2012)	Feasibility Study & Detail Design of Puyango-Tumbes bi-national Irrigation Project	Project Director	UCB / Gov. of Peru and Ecuador
Botswana (2010)	Zambezi integrated agro-business multipurpose project (irrigation, water supply and agro-commerce)	Economic & Regional development Analyst	Ministry of Ag. / Gov. & PPP funds
Ethiopia (2009-2010)	Feasibility studies and detailed designs of irrigation and drainage sub projects in the Lake Tana sub-basin (Megech, & Ribb)	Project Desk Manager	Ministry of Water Resources / WB
Romania (2007)	Feasibility study and detailed design for infrastructure rehabilitation and energy saving options for irrigation schemes in Braila, Galati and Arad	Agricultural Economist	Min. of Forestry and Rural Dev. / EBRD
El Salvador (2006)	Feasibility study on the reduction of energy costs in the Zapotitán and Atiococho-Norte irrigation districts	Project Director	Ministerio de Agric. y Ganaderia / IDB
Mexico (2005)	Establishment of a joint venture for the exportation the production of 120 ha peppers farms in Sonóra state	Agricultural Economist	Private Initiative
Portugal (2004)	Establishing a joint venture for the production of olive oil from 500 ha plantations, including extraction and packaging plants	Agricultural Economist	Private Initiative
Honduras (2003-2004)	Feasibility Study of agricultural development under Irrigation in the Jesus de Otoro Valley	Project Director	Ministry of Agriculture / IDB
Honduras (2003)	Feasibility Study of Irrigation in the Jamastrán Valley	Agricultural Economist	Ministry of Agriculture / IDB
Panama (2003, 1997)	Arco Seco integrated irrigation development project - production and commerce of agriculture exports . Implementation impact assessment	Economist	MIDA / BOT Initiative
Dominican Republic (2000)	PROMATREC irrigation development project	Irrigation options based on priority based MCA	INDRHI / IDB
Argentina (1998)	Feasibility of technology transfer for developing 5,000 irrigated ha in Carmen de Patagones	Agricultural Economist	Private Initiative
Ethiopia (1998)	Gidabo irrigation project for development of 5,000 ha irrigated agriculture and agro-industries	Project Manager	MIDROC Ethiopia PLC
Nepal (1998)	Feasibility study for a 5,000 ha tubewell operated area within the Rupandehi district	Development Economist	HMGMR / WB
Ecuador (1997)	Pre-investment studies in the fields of agro-industries and marketing for Pichincha province	Setting up a prioritization scheme	CMP / private
Ghana (1997)	Dove agricultural development project	Team Leader	Private Initiative
Egypt (1996)	Forage Production Study for the Dallah Farm in Nubaria	Agricultural Economist	Private initiative
Guatemala (1996)	Agricultural planning (vegetables, fruit & dairy herd) of water resources for rural communities	Agricultural Planner and Financial Analyst	FONAPAZ / private
Panama (1996)	Feasibility study of El Salto export-oriented irrigation project	Agricultural Economist	MIDA / Turnkey
Nepal (1995, 1992, 1988)	Bairhawa-Lumbini groundwater irrigation project - Feasibility and assessment of stages I & II deep tubewell performance	Ag. Economist & analyzer of farmers' participation	HMGMR / WB
Ethiopia (1994)	Gode irrigation and agro-industrial project	Agricultural Economist and planner	Private
Brazil (1993)	Salitre irrigation project of Bahia state	Performing Incremental Analysis	CODEVASF / WB
Venezuela (1993)	Development of water resources in Lara state	Evaluation of improved irrigation methods	MARNR / WB
Nigeria (1991)	Feasibility study for the Kano River irrigation project	Econ. & Financial analyst	FMWR-HJRBDA / WB
Colombia (1989)	Venado-Cabrera soil adaptation project for irrigating 7,000 ha in the province of Huila	Agricultural Planner & Development Economist	HIMAT / WB
Peru (1987)	Alto Piura project of regulating water resources for the irrigation of 45,000 ha and generation of hydroelectric energy	Evaluating engineering alternatives	DEPECHP / WB
USA (1987)	Agricultural planning of a demonstration farm in Laredo, Texas	Economist & Ag. Planner	Private
Cameroon (1986)	Agro-industrial planning of 3,000 ha of maize and groundnut farms in the Central and Eastern provinces	Agricultural Economist	Private
Mexico (1985)	Master plan for economic and rural development of Yucatán state	Planning, classification, evaluation & ranking	Gov. of Yucatan / WB
Uruguay (1985)	VERNO irrigation project in the northwestern region	Economic evaluation and market analysis	Vertice Noroeste / IDB
Costa Rica (1984)	Arenal-Tempisque irrigation project for the development of 75,000 ha in the Guanacaste region	Agricultural Economist	SENARA / IDB
Peru (1984)	Economic feasibility of asparagus farming in the Pisco area	Econ. & market Analyst	Private

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<b>Water Supply &amp; Sewage Regulation</b>			
Dominican Republic (2005)	Design, procurement, installation and construction of water supply system to Santo Domingo & rural vicinity	Prioritization and ranking of aqueducts	CAASD / IDB
Uruguay (2005)	Pre-feasibility study of sewage works of 75 local municipalities	Prioritize sanitation works	OSE / IDB
Venezuela (2005)	Design of desalinization plant at Punta Cordón, Falcón state	Economist	PDVSA / Gov't of Venezuela
Ethiopia (2004/5)	AAWSA's water supply plan IIIA	Econ. & financial analysis	AAWSA / WB
Venezuela (2002)	Optimization plan of water and sanitary services for Falcón state	Fin. framework for tariff	HIDROFALCON / IDB
Russia (2002)	Rehabilitation of water supply system in southwestern St. Petersburg	Economist	St. Petersburg Municipality / EBRD
Venezuela (2001)	Margarita island development plan of water supply system	Financial set-up	HIDROCARIBE / IDB
Ecuador (2000)	Guasmo sewerage project of Guayaquil	Economist	ECAPAG
Venezuela (2000)	Optimization of the HIDROCENTRAL regional system of water supply	Econ. & Financial Analyst	HIDROCENTRAL
Israel (1999)	Feasibility of reuse of treated effluents for municipal gardening	Project Director	Sewage Boards
Venezuela (1998, 1999)	Projects MERBAR I , II - master plan of water supply & formulation of water companies to localities within the states of Mérida and Barinas	Tariff evaluation scheme, outline plan for PSP	Aguas de Merida / HIDROVEN
Ecuador (1996)	Integrated master plan of potable water and sewerage rehab. for Quito	Economic & Financial Analyst	Emap-q / IDB
Peru (1996)	Planning of water supply for 8 municipalities within national potable water and sewerage program	Tariff analysis & Investment plan	IDB
El Salvador (1995)	Feasibility of mains connection to the primary sewerage system in the San Salvador metropolitan area	CB analysis of preferred solution	ANDA / IDB
Morocco (1995)	Feasibility study for reuse of treated sewage from the city of Oujda	Setting up entrepreneurs' implementation Bus. Plan	Private
Uruguay (1995)	Feasibility of constructing a fifth pressure main to improve water supply and distribution to Montevideo	Financial Analyst	OSE / IDB
Colombia (1994)	Feasibility study of wastewater reuse from Cúcuta	Evaluation of treatment alters. & privatization	EMC / WB
Dominican Republic (1994)	Feasibility study of sewage treatment from the La Zurza sector in Santo Domingo	Economist	SEOPC / CAASD
Venezuela (1993)	Master plan of water supply and sewerage for Trujillo state	Tariff study & evaluating engineering alternatives.	HIDROANDES / HIDROVEN
Honduras (1992)	Master plan for Tegucigalpa sewerage system	Tariff structure policy, EIA, and loan application	SANAA / IDB
Costa Rica (1989)	Master plan for sewerage in the San José metropolitan area	Financial projection & policy	AyA / IDB
Mexico (1988)	Reuse of urban wastewater from Hermosillo (Sonóra) & Torreón (Coahuila)	Economist	IMTA / IDB
El Salvador (1986)	Río Lempa project of expanding the potable water supply system of the San Salvador metropolitan area	Financial Analyst	ANDA / IDB
<b>Water Resources Management</b>			
India (2010-2011)	Planning of water resources for the state of Rajasthan	Economist & Planner	Gov. of Rajasthan / WB
Ethiopia (2006)	Identifying irrigation and drainage projects in the Blue Nile Basin	Stakeholder and Multi Criteria Analysis (MCA)	Ministry of Water Resources / WB
Kenya (2006)	Nzoia and Yala multipurpose flood protection works	Resource Economist	Min. Public Works / WB
India (2001)	Tamil Nadu water resources consolidation project	Develop. economist, equitable rationalization	Gov. of Tamil Nadu
Dominican Republic (2000-2001)	PROMASIR reorientation program of the irrigation subsector	Project Director	INDRHI / IDB
Ethiopia (1999)	Master plan of water resources management for catchment areas surrounding Addis Ababa (Legadadi, Geffersa, Dire)	Development Economist	AAWASA / WB
India (1999)	Haryana state water plan	Deficit Irrigation water	Gov. of Haryana / WB
Moldova (1997)	National water management strategy project	Financial aspects of rural water supply and payment	APELE / WB
Peru (1997)	Feasibility study for optimizing the supply of surface and ground water of Chillón River to northern Lima	Economist & Financial Analyst	BID
India (1995)	Master plan of water resources development and management for the state of Gujarat	Evaluating strategies of water resources dev.	Gov. of Gujarat / WB
Israel (1984)	Formulation of a multi-period capital allocation model for water development projects	Economic Modeler of investment strategies	Gov't of Israel

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Institutional Strengthening			
Lesotho (2007-2008)	Consultancy services on the institutional and regulatory framework for water supply and sanitation services	Team Leader	Water Commission / WB
Lesotho (2006-2007)	Tariff policy study within the framework of nationwide water sector improvement project	Team Leader	Water Commission / WB
Israel (2004)	Preparation of sewage tariff regulation for local municipalities	Team Leader	Water & Sewage Board
Uruguay (1996)	Decentralization and rehabilitation of the national water and sewerage sectors	Project Manager	OPP / WB
Ecuador (1995)	Reorganization of the financial and accounting system of the Ministry of Public Works	Institutional development	MOP / IDB
Israel (1994)	Turnkey/BOT/BOO options for the management of municipal water supply and sanitation services	Team Leader	Water and Sewage Board
Venezuela (1992)	Water tariffs structure and policy study for HIDROLAGO of Maracaibo	Team Leader	HIDROLAGO / HIDROVEN
Israel (1989)	Cost of water supply to the agricultural sector in municipalities with a mixed distribution network	Team Leader	Water Commission
Business Development			
Panama (2008-2009)	El Alto hydroelectric project. PPA planning and execution. Setting up of SPC, EPC negotiation, and financial closing	Project Manager	BOT Initiative
Congo DR (2007)	Identifying business opportunities options for agricultural farming development	Team Leader & Financial Analyst	Private marketing initiative
Russia (2006)	Ttrans-regional (Volgograd - Astrakhan) water supply scheme	Setting up financial framework and BP	Rosstroy / Turnkey funds
Serbia (2006)	Feasibility and preparation of loan application documents for Svilajnac & Vrbas water supply systems	Economist	ORET
Venezuela (2002)	Viability of a concession for using surface and ground water resources in the Yacambu-Quibor System, Lara State	Team Leader & Financial Analyst	Sistema Hidraulico Yacambu-Quibor
Nigeria (1990-1991)	Managing Director of Tahal Consultants Nigeria	Responsible for overall company operations – financial, technical y contractual related project development	
Transportation			
Ecuador (1995)	Planning and decentralization of the state’s road management system	Institutional development	MOP / IDB
St. Kitts and Nevis (1995)	Feasibility study for expansion of the New Castle airport and construction of the main island road	Economist	Private
Ghana (1988)	Cocoa feeder road spot improvement and rehabilitation project	Transport Economist	GHA / WB
Israel (1987)	Feasibility study for the siting of airport in Eilat	Economist & Regional Planner	Ministry of Planning
Ghana (1986)	Priority analysis of transportation and bridge rehabilitation programs	Transport Economist	GHA / WB
Market Studies			
El Salvador (1986)	Technological assistance program aimed at analyzing marketing services for small enterprises	Project Director	CENAP / IDB
Israel (1985)	Economic feasibility of wineries	Economist	Private
Israel (1984)	Market survey of interlocking concrete block pavement	Market Analyst	Private
Environment			
Kazakhstan (2009)	Water protection and remediation of industrial groundwater contamination in the city of Ust-Kamenogorsk	Economist	Vodokanal / WB
Israel (1985)	Evaluation of environmental, economic and organizational aspects of industrial park in the Negev region	Project Manager	Ministry of Interior