



Country Cooperation with Horizon 2020 | MeHSIP-PPIF

The case of
LEBANON

Horizon 2020: 4th Steering Committee Meeting

February 2011, Amman



Horizon 2020 Lebanon Cooperation

- **Through MeHSIP Facility – MeHSIP-PPIF**
- **Sector Focus:** Wastewater
- **Total Duration:** 13 months
- **Experts Input:** *approx: 700 man-days*
- **Contracting Authority :** European Investment Bank
- **Promoter:** CDR
- **Operator :** BMLWWE
- **Main Outcome:** Feasibility Study

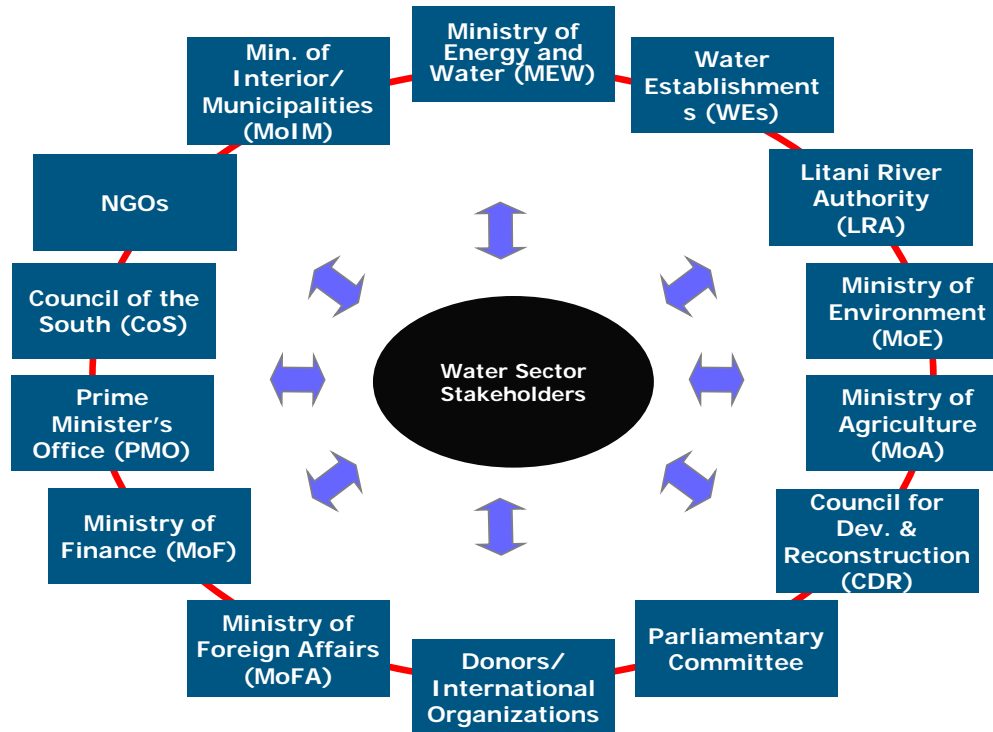


LEBANON

WATER SECTOR OVERVIEW

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Water sector stakeholders in Lebanon





International Donors supporting the Water/wastewater Sector

	Strategy/ Institutional	Financial	Technical	Legal / Regulatory
GTZ	✓		✓	✓
USAID	✓	✓	✓	
World Bank	✓	✓	✓	
ESCWA	✓			
EU		✓	✓	✓
AFD		✓	✓	✓
MED-EUWI		✓	✓	
EIB		✓	✓	
Arab Funds		✓	✓	



Wastewater Sector in Brief

Current Situation

1. Standards for wastewater discharge set in 2001 (MoE decision 8/1)
2. Coverage of wastewater network (~80 %) Wastewater treatment (~8%)
3. Draft standards for sludge reuse set in 2010
4. Draft standards for wastewater reuse in agriculture set in 2010

Initiatives to Improve

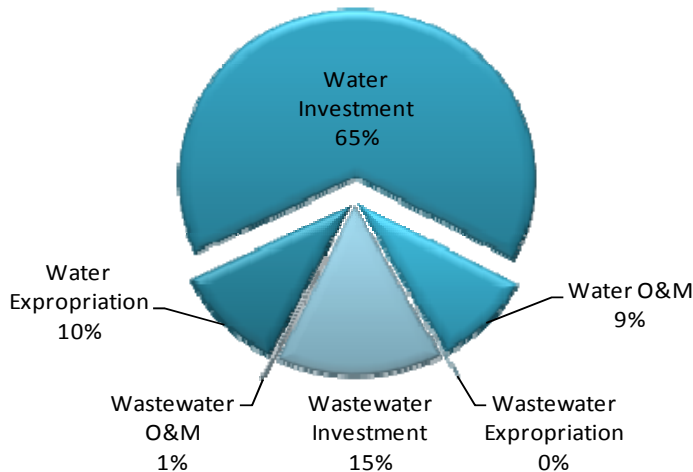
Improve wastewater quality through:

1. Review and update water quality standards for wastewater discharge
2. Review and adopt draft standards for wastewater reuse in agriculture & sludge reuse
3. Implement pollution control programs
4. Introduce service tariff as % of water bill

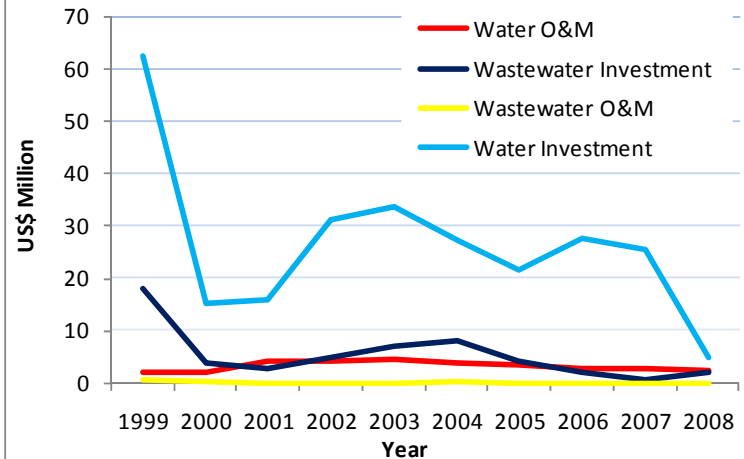
Annual MoEW Water & Wastewater Expenditure Share & Trends, 1999-2008

US\$ million 2008

Water & Wastewater Spending: \$ 35 Mn p.a.



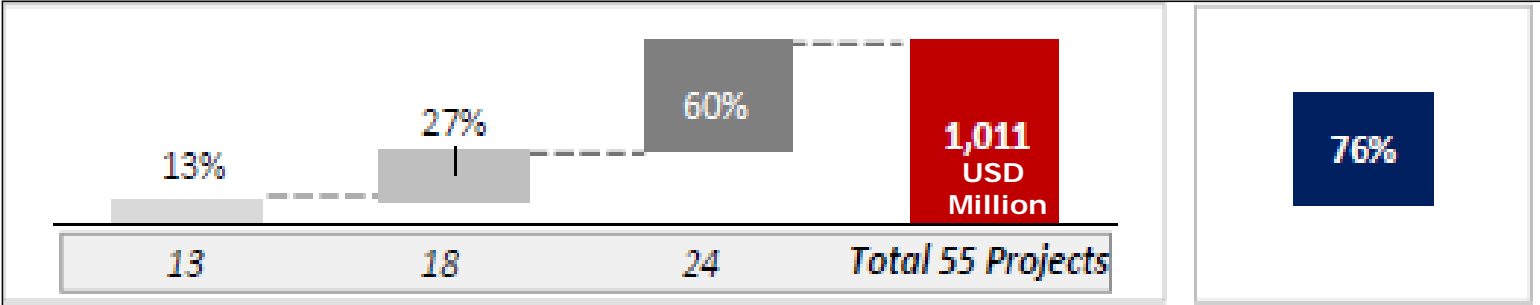
Water & Wastewater Spending Trend



Wastewater Collection & Treatment

Ongoing & planned projects

2001-2015



Official Due date by May 2010

Due after May 2010

Planned

Total Investments (2001-2015)

Average completion Rate of Projects Due by May 2010



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H2020 COOPERATION

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H2020 Cooperation Process

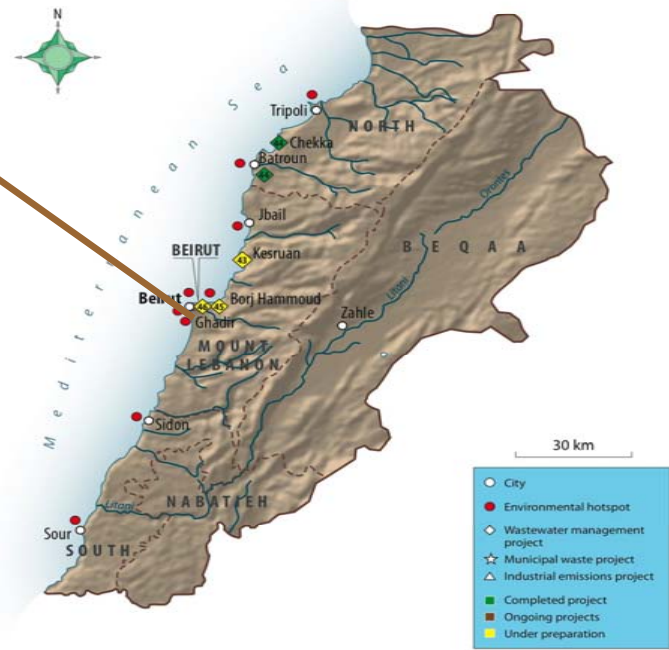
- H2020 Initiative revived through MeHSIP-PPIF Team for Investment Depollution projects through:
 1. Consultation with National Stakeholders
 2. Revision of Country NAP prepared under UNEP-MAP
 3. Follow up with directly concerned institutions
 4. Review updated National Priorities
 5. Identification of potential projects
 6. Selection criteria based in H2020 requirements
 7. Identification of national Priority project eligible for support under H2020
 8. Obtain Government confirmation on identified priority project
 9. Mobilize Team of experts (local & Int'l)
 10. Initiate Feasibility



H2020 Cooperation Focus

Al-Ghadir Project
Extension of WW Treatment Plant

Sector: Wastewater
Aim: Assessing technical, economic, environmental and financial viability of the project
Objectives: improve quality of coastal waters, quality of life and promote economic development of the area on the long run





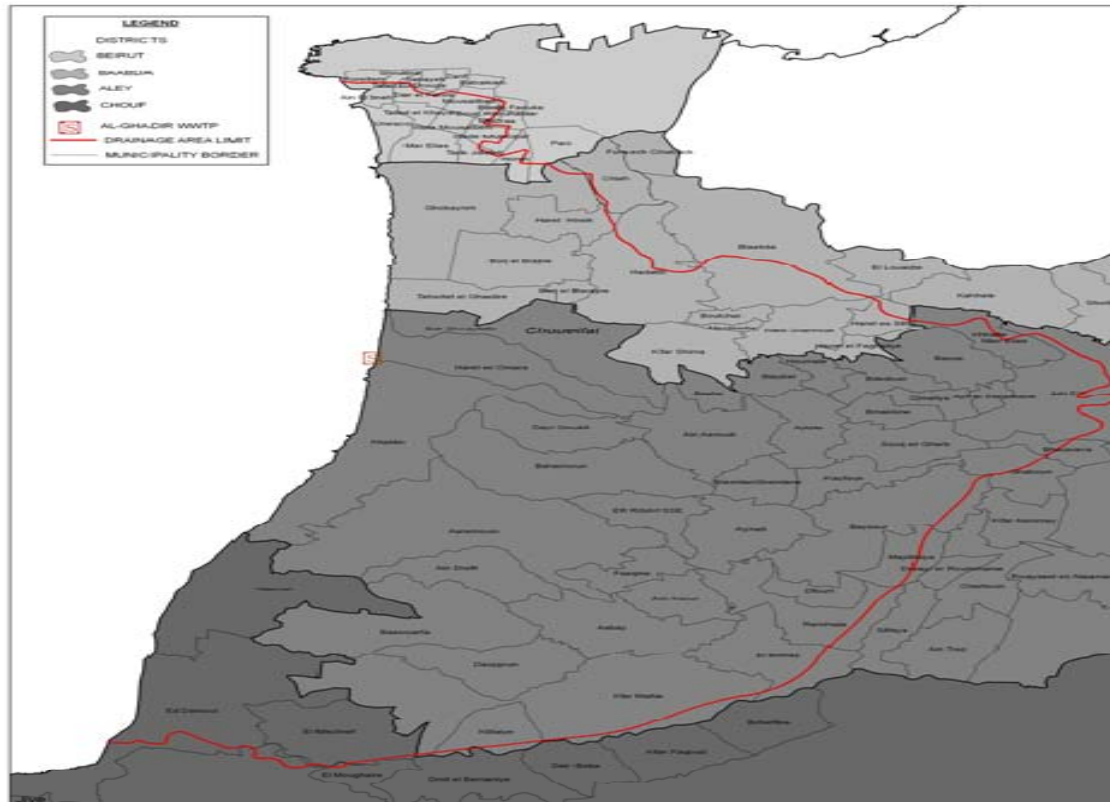
LEBANON – Al-Ghadir Project

H2020 PROJECT DESCRIPTION

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Al-Ghadir drainage area



AL-Ghadir Project Characteristics

- Listed as a pollution hot spot for the Mediterranean sea stated in Lebanon NAP;
- Responds directly to Med. Sea De-pollution initiative;
- Wastewater sector is a priority area of intervention for Lebanon;
- Existing plant provides inadequate level of treatment (**screening + Grit & Scum Removal**);
- Its upgrade was initiated some ten years ago (Feasibility Study, in 2000 no investment followed);
- Since 2000 the drainage area was subject to various changes (**networks, main collectors, and urban development**);
- WWTP serves a projected population of approximately 1 Million people



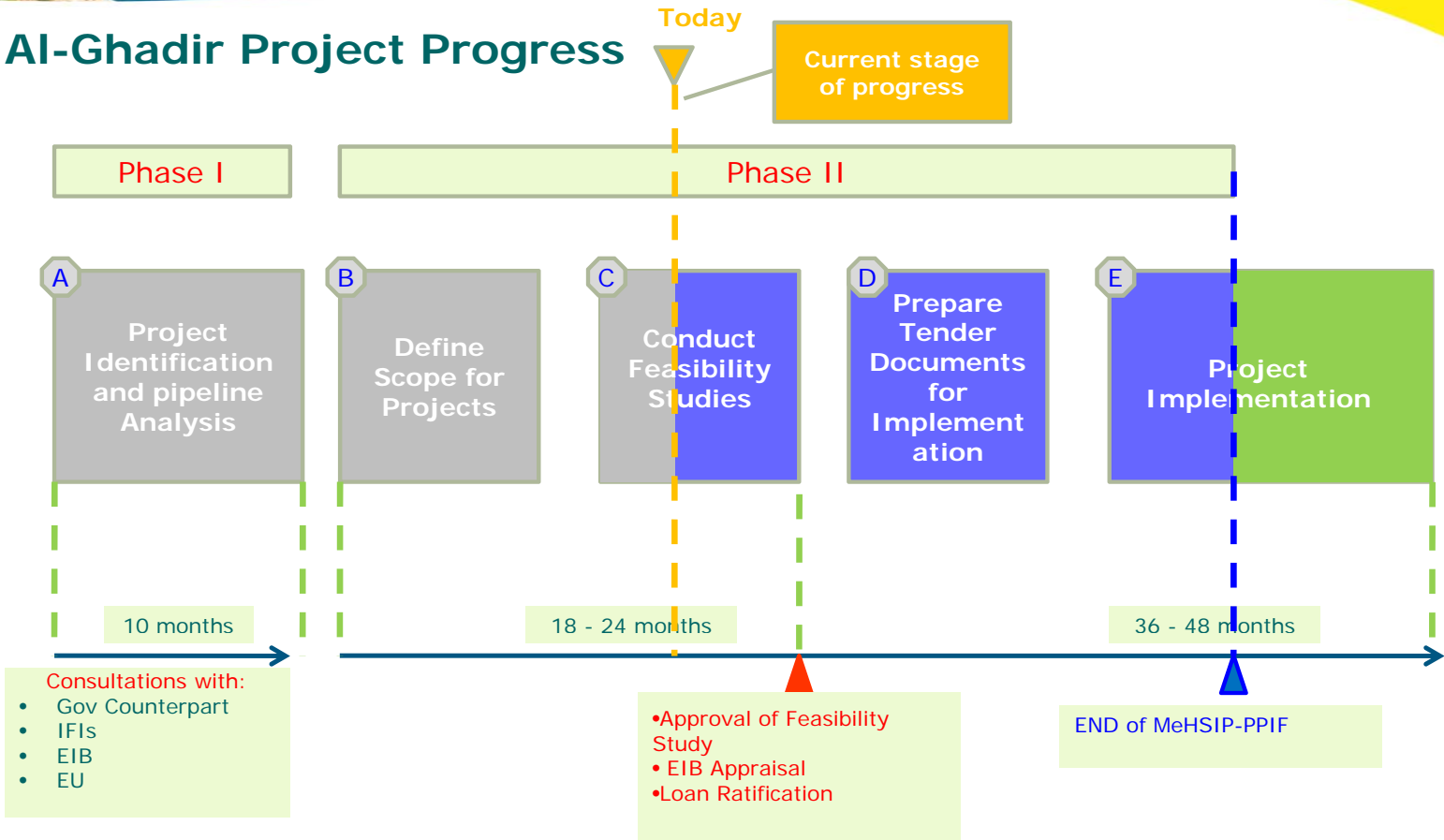


Al-Ghadir Project Preparation Scope

Technical	Financial	Institutional / Legislative
<ul style="list-style-type: none">▪ Review technical documents and assess data gaps and missing information▪ Perform a high level technical assessment of existing projects▪ Assess wastewater flows to WWTP▪ Propose alternative treatment solutions with capital infrastructure based on projected flow▪ Conduct Environmental and Social Impact Assessment	<ul style="list-style-type: none">▪ Develop financial and economic analysis▪ Assess revenue requirements from wastewater tariff▪ Assess financing requirements▪ Determine future Capex and Opex▪ Determine Internal Rate of Return	<ul style="list-style-type: none">▪ Assess existing legal and regulatory framework▪ Determine compliance of proposed best treatment solution with existing norms and standards▪ Conduct Institutional due diligence of relevant water utility to be running the plant▪ Prepare Tender Documents for Implementation & Supervision

Executed over a period of 13 months

Al-Ghadir Project Progress



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Cooperation Highlights

- Reviving H2020 Initiative in Southern Mediterranean Region
- Addressing historically identified Hotspots and NAP commitments
- Close collaboration with Donors and IFIs active at the country and regional level
- Responding strictly to Nat'l priorities and Med. Sea depollution Impact
- Close coordination among concerned institutions and stakeholders
- Addressing flagship sector with high beneficial Impact (25% of the population)
- Proper Project Preparation for IFI financing (Bankable Project)

Thank you for your attention