

המשרד להגנת הסביבה היחידה הארצית להגנת הסביבה הימית

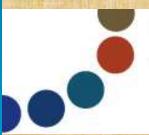
ISRAEL

MARINE ENVIRONMENT PROTECTION DIVISION

State of Israel

Ministry of Environmental Protection

Addressing Pollution to the Marine Environment from LBA



MEDITERRANEAN ACTION PLAN
for the Barcelona Convention





Special activities by MEDPOL (LBS Protocol):

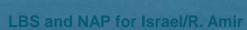
Marine Monitoring Programs; ECAP and IMAP; HOTSPOTS;

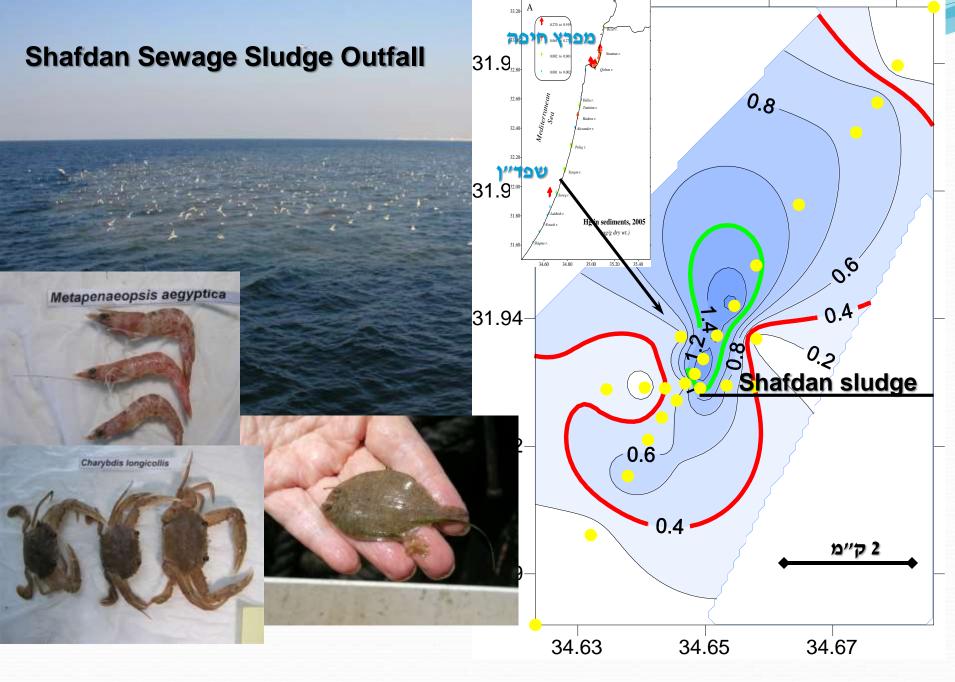
SAPMED and NAPs; Regional Reduction Plans; 160 technical documents in various subjects: pollution reduction, compliance and enforcement; cleaner production;

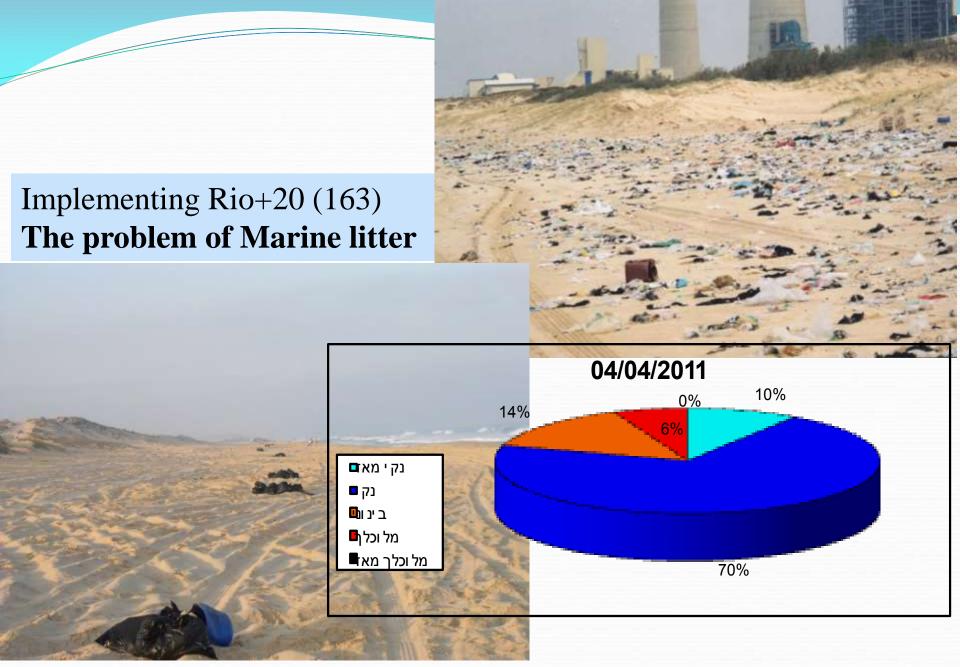




Implementing Rio+20 (163) **Reducing land-based pollution**









Protocol for the Protection of the Mediterranean Sea Against Pollution From Land-Based Sources and Activities, Siracusa, Italy, 1996

GENERAL PROVISION

TO PREVENT, ABATE, COMBAT AND ELIMINATE POLLUTION FROM LAND-BASED ACTIVITIES

GENERAL OBLIGATIONS

To elaborate, adopt and implement national and regional action plans, programmes and measures for the elimination of pollution from landbased activities

COVERAGE

- The Mediterranean Sea properThe hydrologic basin
- · Waters on landward side of territorial boundaries
- Communicating brackish waters

MONITORING

- To assess the levels of pollution along the coasts
- To evaluate the effectiveness of action plans, programmes and measures

REGULATORY SYSTEM

- To provide for national systems of inspections to assess compliance
- To establish sanctions in case of non-compliance

REPORTING

 To submit reports to **Contracting Parties Meetings of measures** taken and results achieved



United Nations Enviror

SAP – Strategic Action Program for reducing marine pollution from land-based activities

MAP

A part of MEDPOL phase III derived from (new) LBS protocol.

Action oriented, timetabled

20 year plan, 109 Hot Spots, 51 sensitive areas

NAP – running by end 2005

New NAP - 2015

27 March 2018



HOT SPOTS 2001

Identification of pollution sources



Quantification of calculated loads - based on emission factors



Marine discharge reduction targets and rehabilitation of contaminated sites

National Baseline Budget (NBB) 2008

Quantification of calculated loads - based on emission factors

National Budget of Pollutants (NBP) 2012

Improved quantification of loads - based on PRTR data

Midterm Benchmark Assessment Report

Review of achievements since 2006 NAP and current state of the Mediterranean

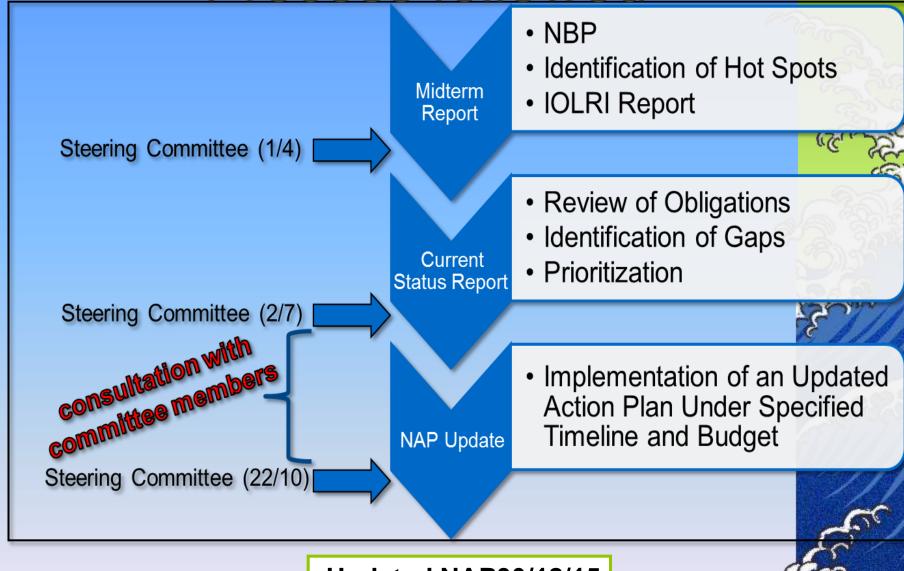
Current Status Report

Review of implementation status with regard to MAP, SAP, ECAP, and RPs

Steering Committees

Cooporation with public and stakeholders in determining goals of the updated NAP

Process followed



Updated NAP30/12/15

Main Components of Focus Areas

EO5 (Eutrophication) – RP on BOD, Reduction of Nutrients

EO9 (Contaminants) - RP on Mercury

EO10 (Marine litter) -RP on Marine Litter

So, what has been done? (in a nutshell...)







Ashdod Municipal Sewage-STOPED (2008)



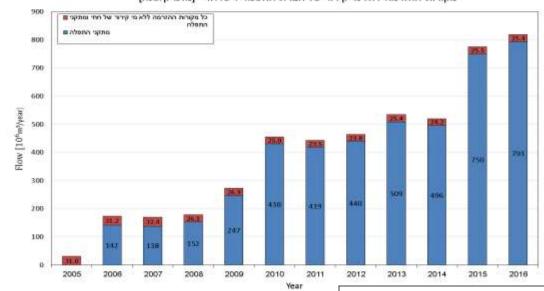
27 March 2018

LBS and NAP for Israel/R. Amir



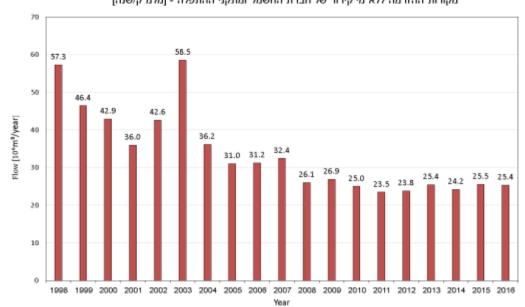
ספיקות ההזרמה לים התיכון 1998-2016

מקורות ההזרמה ללא מי קירור של חברת החשמל לישראל - [מלמ"ק/שנה]





מקורות ההזרמה ללא מי קירור של חברת החשמל ומתקני ההתפלה - [מלמ"ק/שנה]

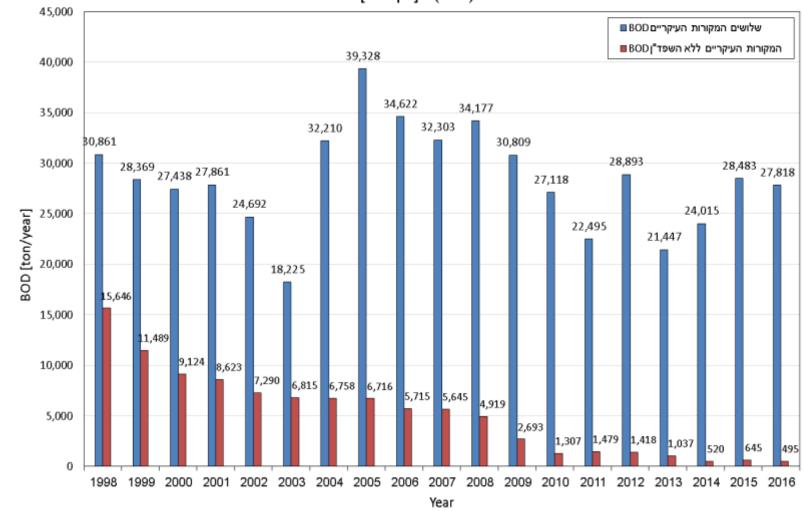


27 March 2018

LBS

BOD Discharge to the Sea

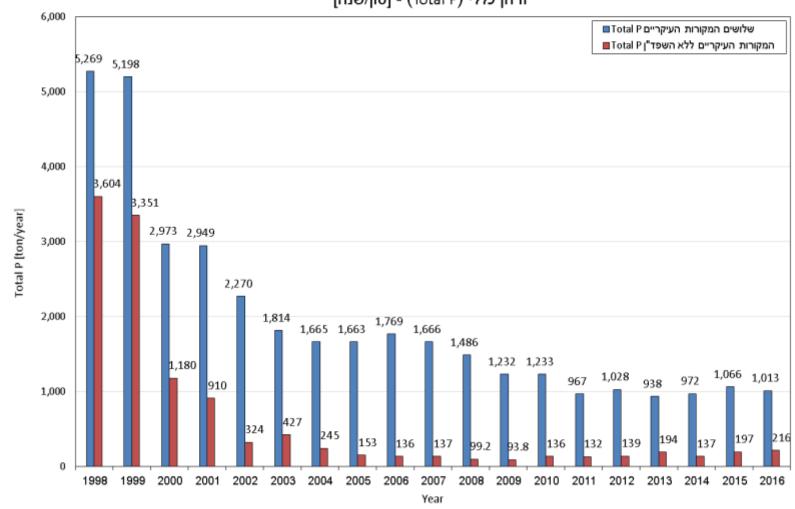
1998-2016 [טון/שנה] - (BOD) צח"ב



P Discharge to the Sea

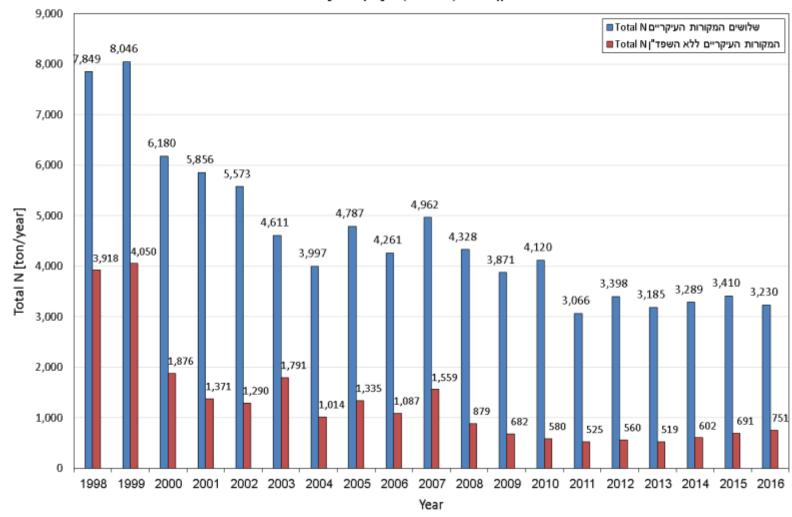
1998-2016

זרחן כללי (Total P) - [טון/שנה]



Total N Discharge to the Sea

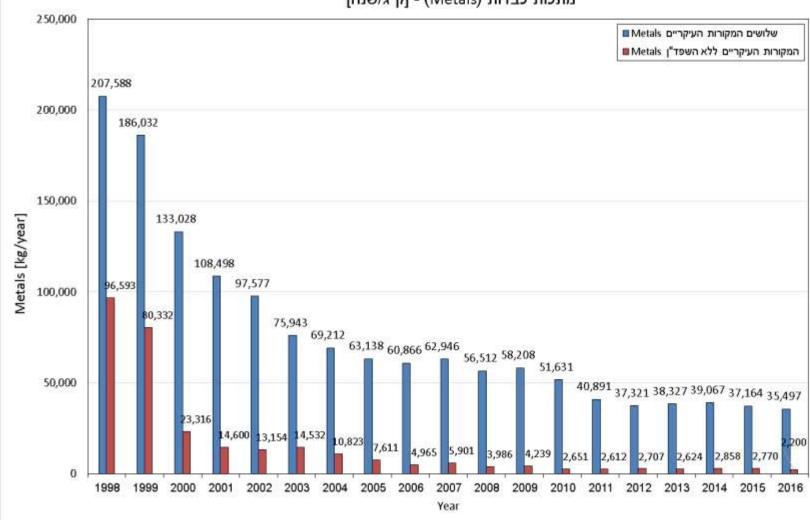
1998-2016 [סוו/שנה] - (Total N) חנקן כללי



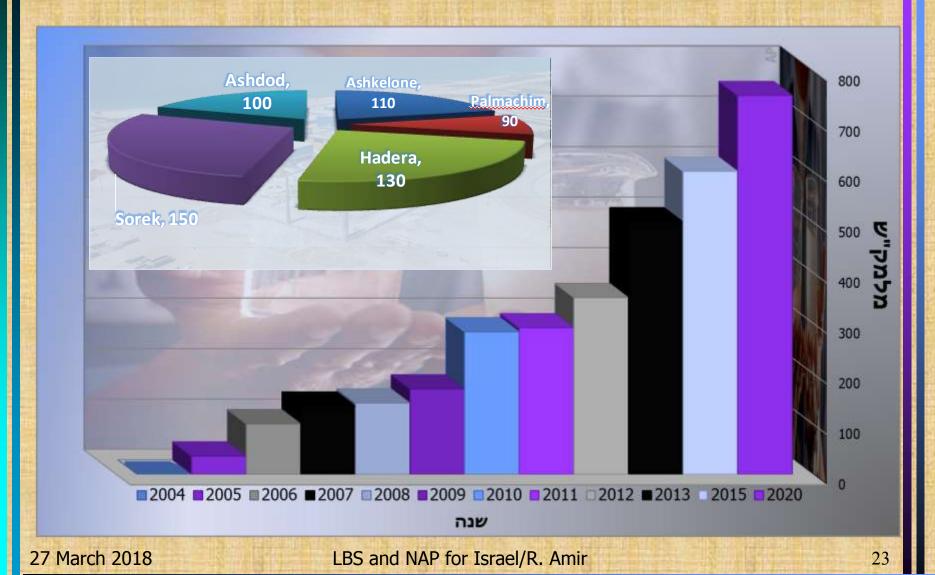
Heavy Metals (7) Discharge to the Sea

1998-2016

מתכות כבדות (Metals) - [ק"ג/שנה]



Desalination Development in Israel







Summary:

1.Dramatic reduction of loads directly discharged to the sea, including rivers and streams, for the period 2000-2017

2.Out of 7 identified HOTSPOTS in 2001, only 2 left.

"Shafdan" sewage sludge ceased to be discharged

- 3. Main airborne pollution sources to the marine environment are power plants and transportation
- 4. Chronic problem with increasing ML, mainly plastics
- 5. Urban runoff becomes a main pollution challenge
- 6. Possible desalination impacts must be monitored

Future Activities in MEDPOL (LBS Protocol related)

- Adoption of the NAP's, implementation and control vis-à-vis ECAP indicators to achieve GES Special attention:
 - Marine litter monitoring and abatement; New challenges such as polluted run-off waters
- 2. IMAP Restructuring the national monitoring program to include ECAP indicators and to cover EEZ of Israel
- 3. Develop and update further guidelines (desalination)
- 4. Active Participation in trainings, meetings, working groups and forums

