



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



ISRAEL

Land Area: 22,000 sq.km

Coastline Length: 190 km

Territorial waters: 4,060 sq.km

EEZ: 26,000 sq.km

Levantine Basin

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;

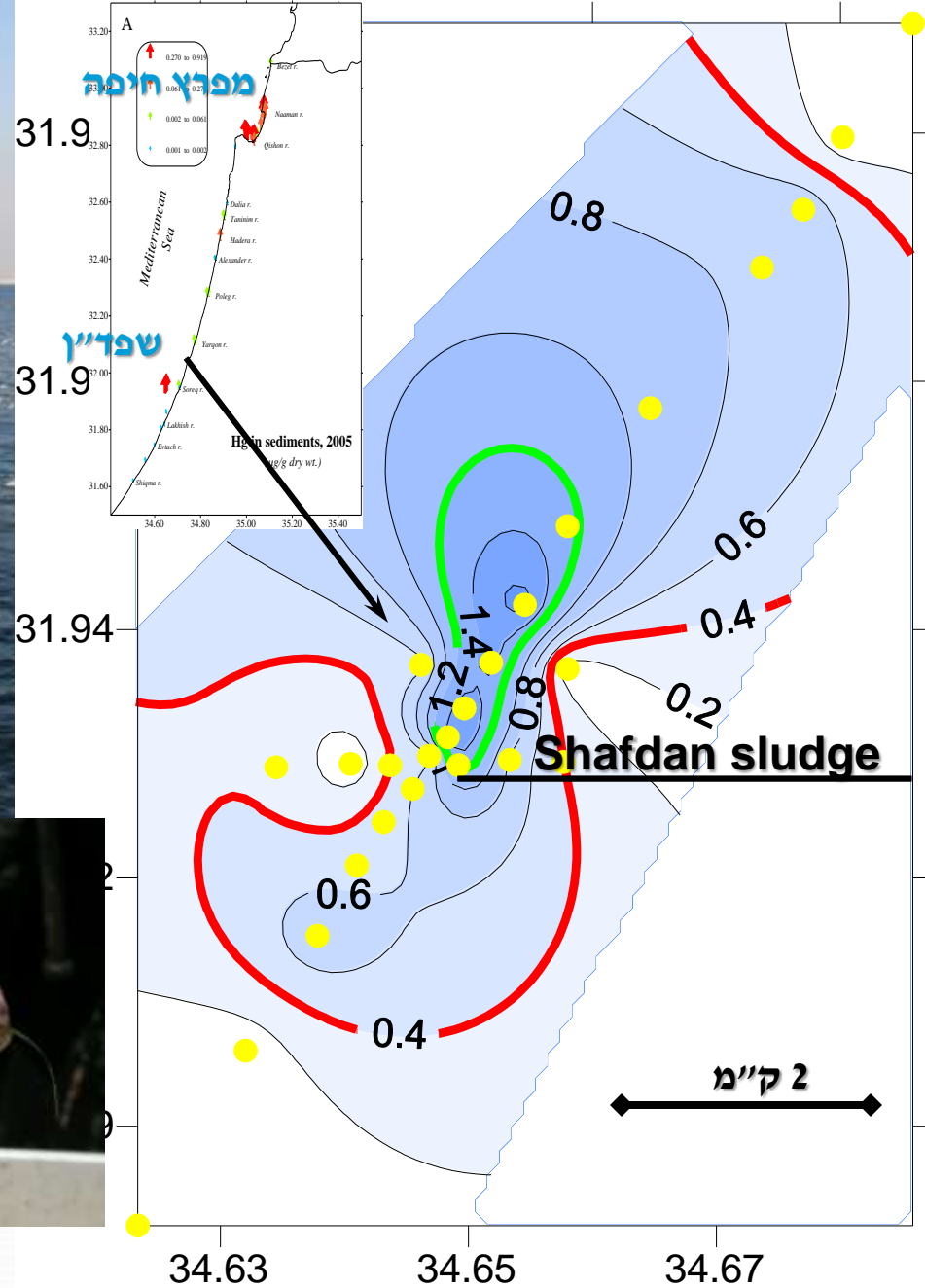




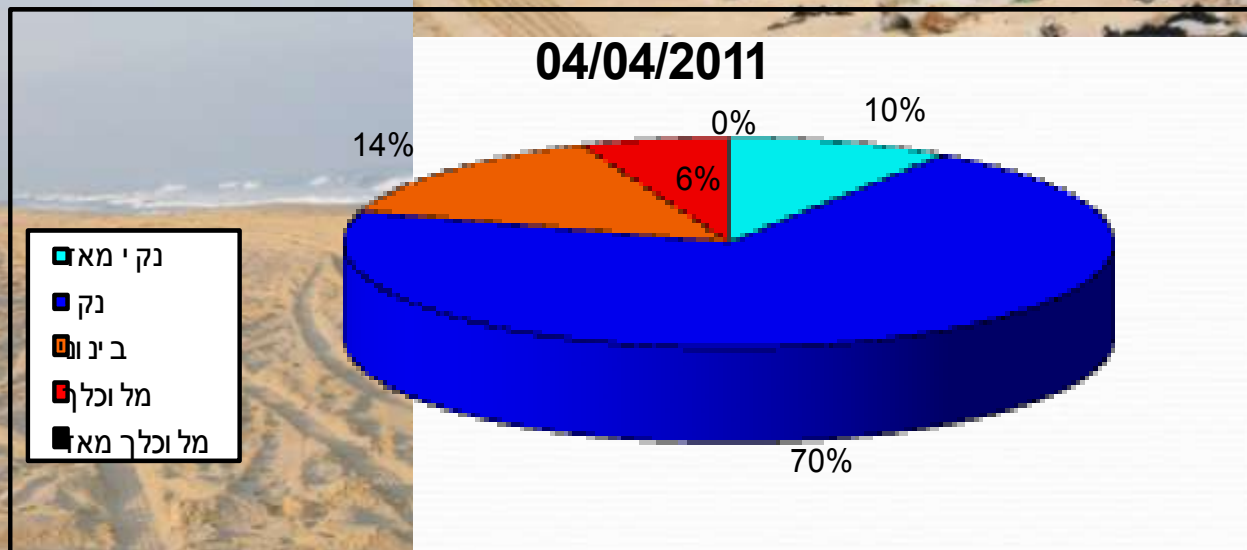
Implementing Rio+20 (163) **Reducing land-based pollution**



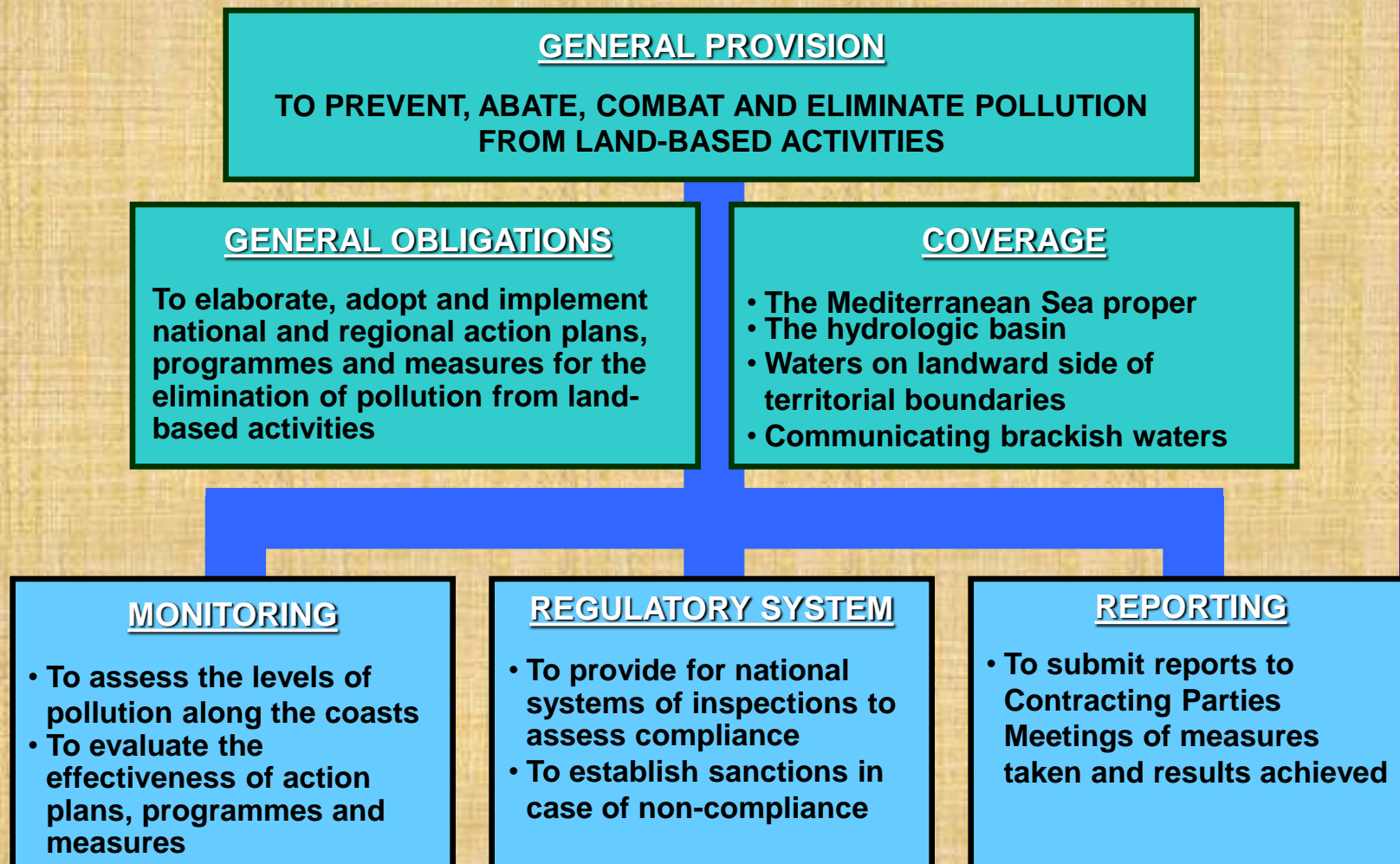
Shafdan Sewage Sludge Outfall



Implementing Rio+20 (163) The problem of Marine litter



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



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



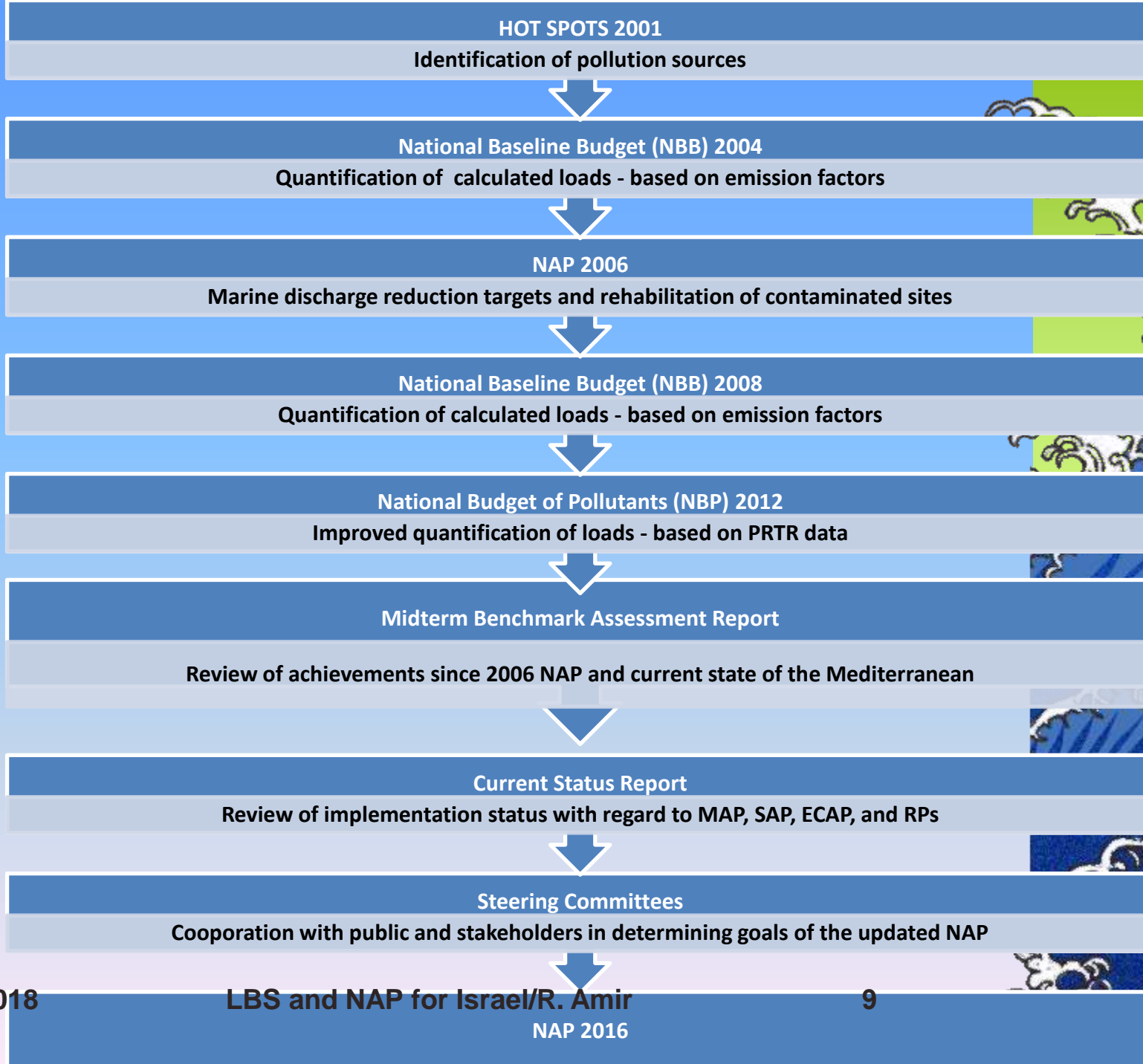
A part of MEDPOL phase III derived from (new) LBS protocol.

**Action oriented, timetabled
20 year plan, 109 Hot Spots,
51 sensitive areas**

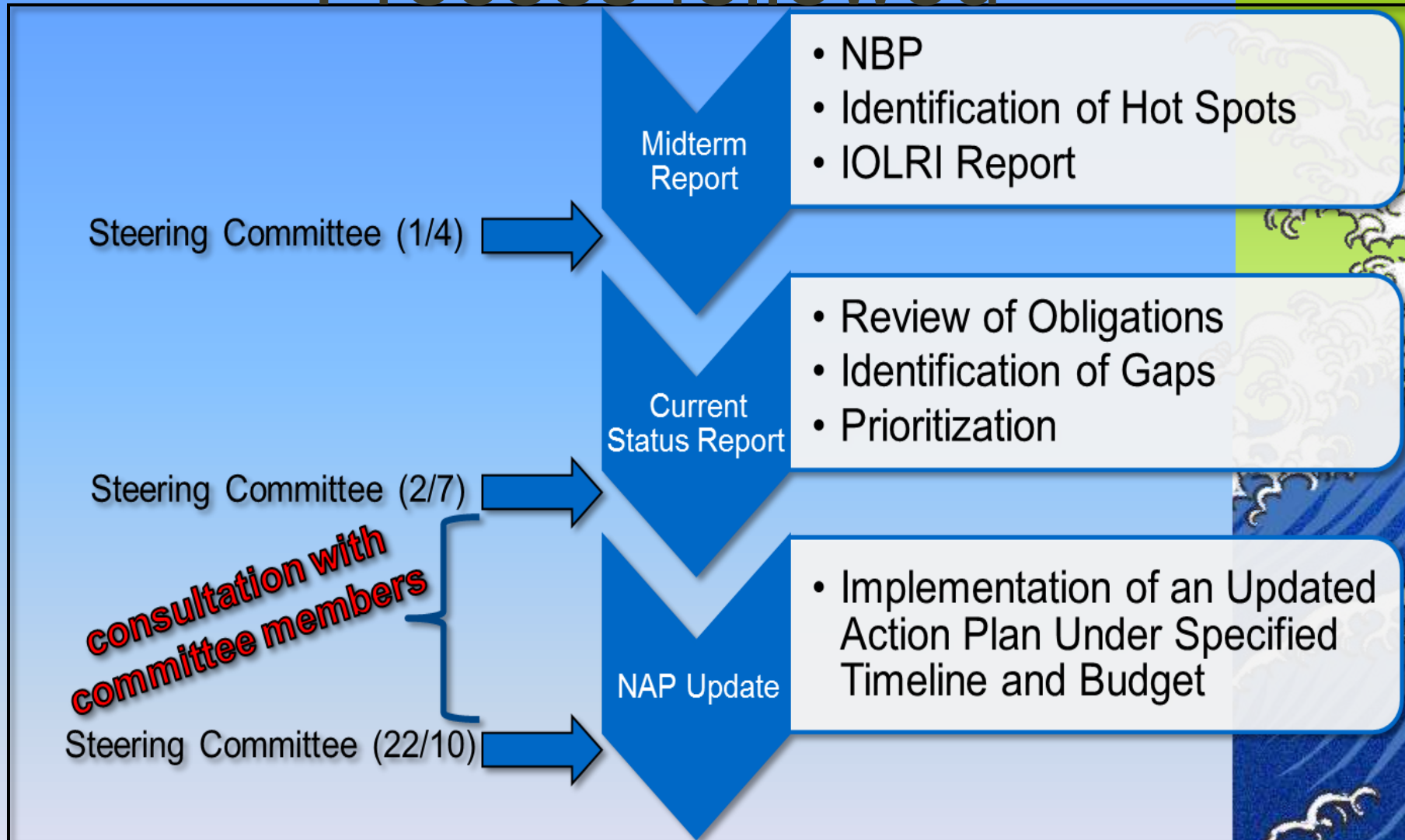
NAP – running by end 2005

New NAP – 2015





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...)



30 10 2002

Naharia Municipal sewage- STOPPED (2006)



Akko Municipal sewage- STOPPED (2006)



27 March 2018

LBS and NAP for Israel/R. Amir

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Ashdod Municipal Sewage–STOPPED (2008)

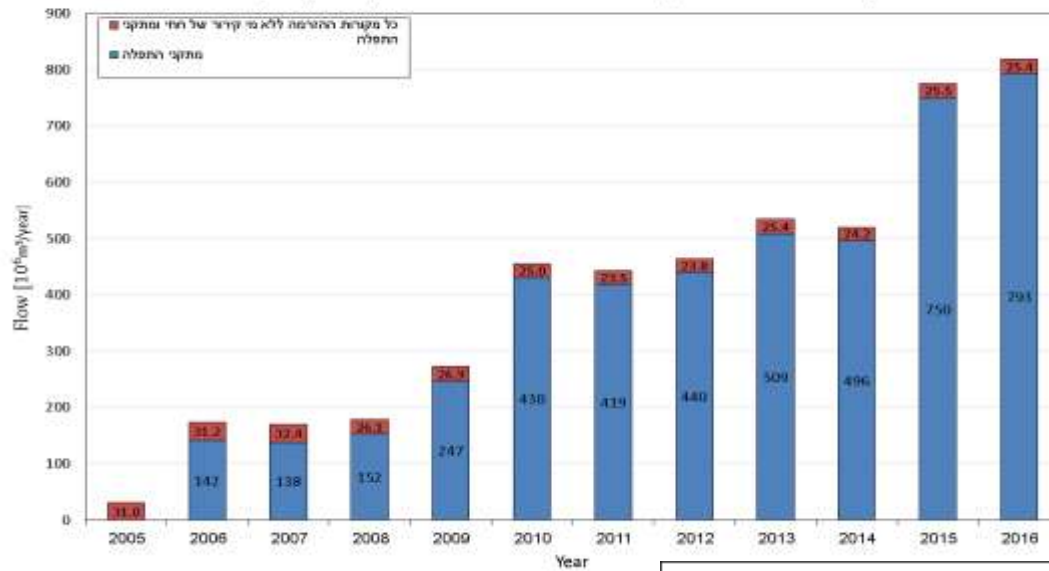


Argaman Textile – STOPED (2005)



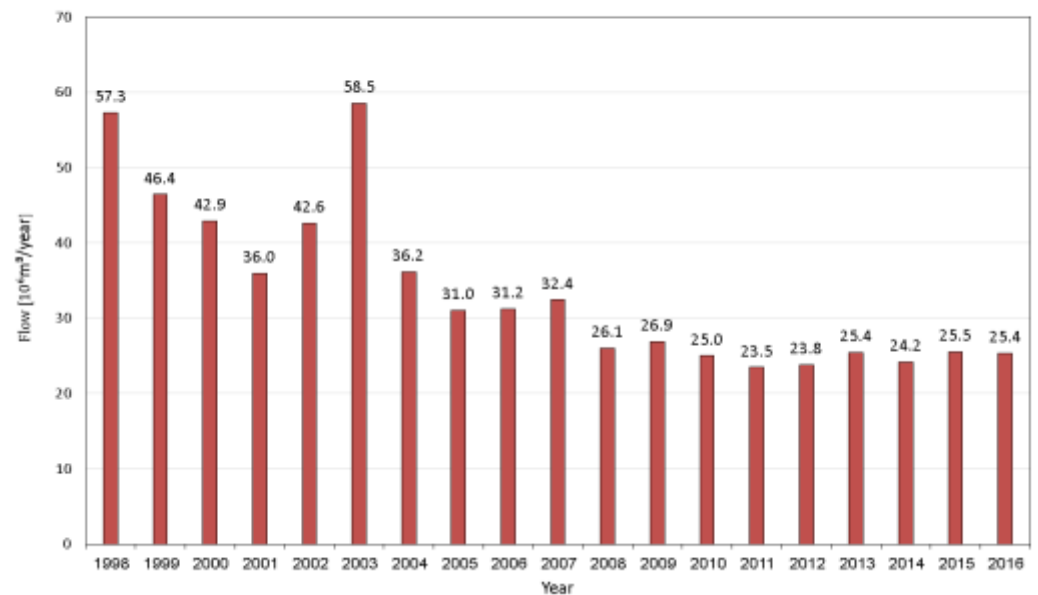
ספיקות ההזרמה לים התיכון 1998-2016

מקורות ההזרמה ללא מי קירור של חברת החשמל לישראל - [מל"מ³/שנה]



ספיקות ההזרמה לים התיכון 1998-2016

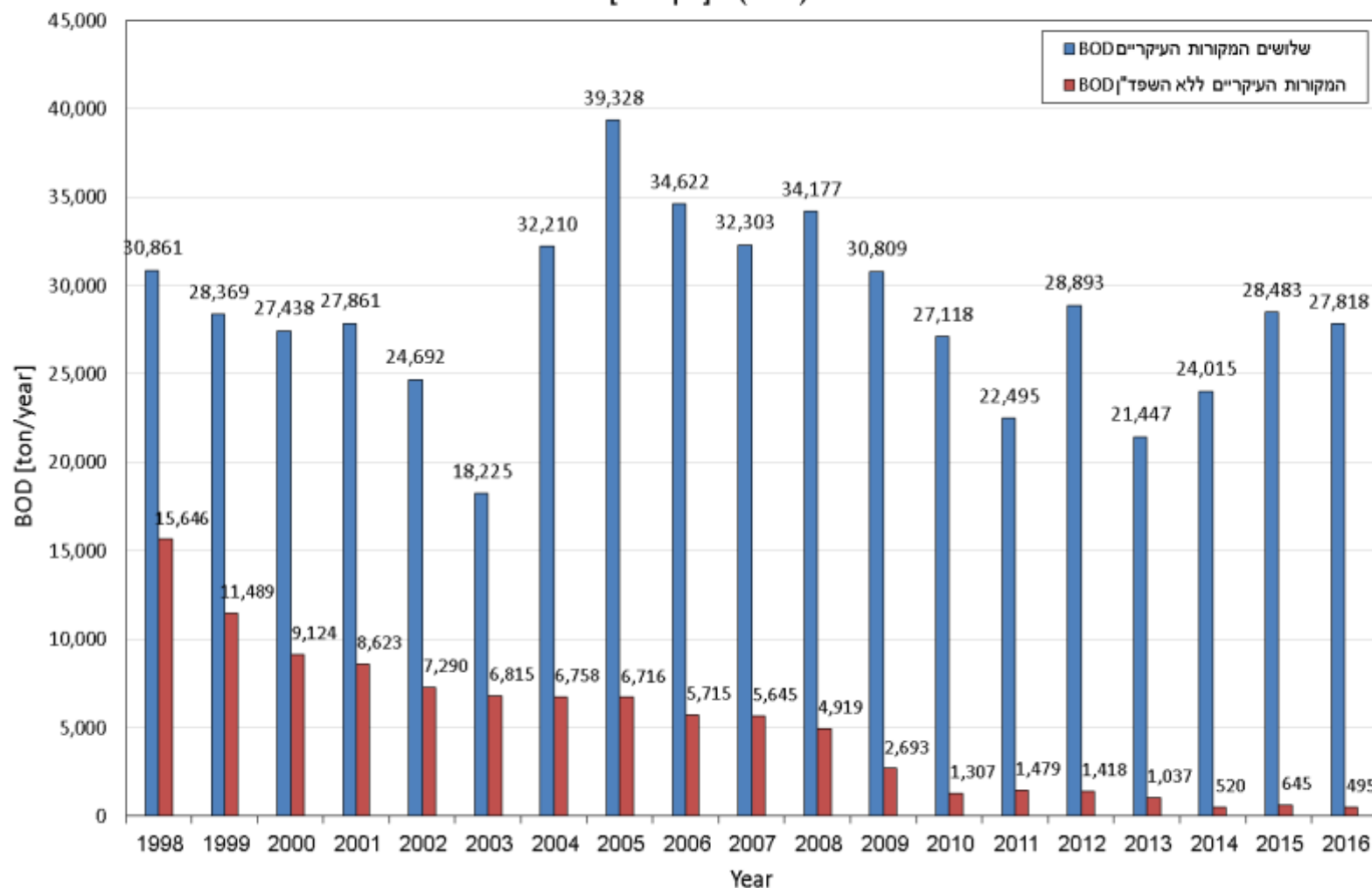
מקורות ההזרמה ללא מי קירור של חברת החשמל ומתקני ההתפלה - [מל"מ³/שנה]



BOD Discharge to the Sea

1998-2016

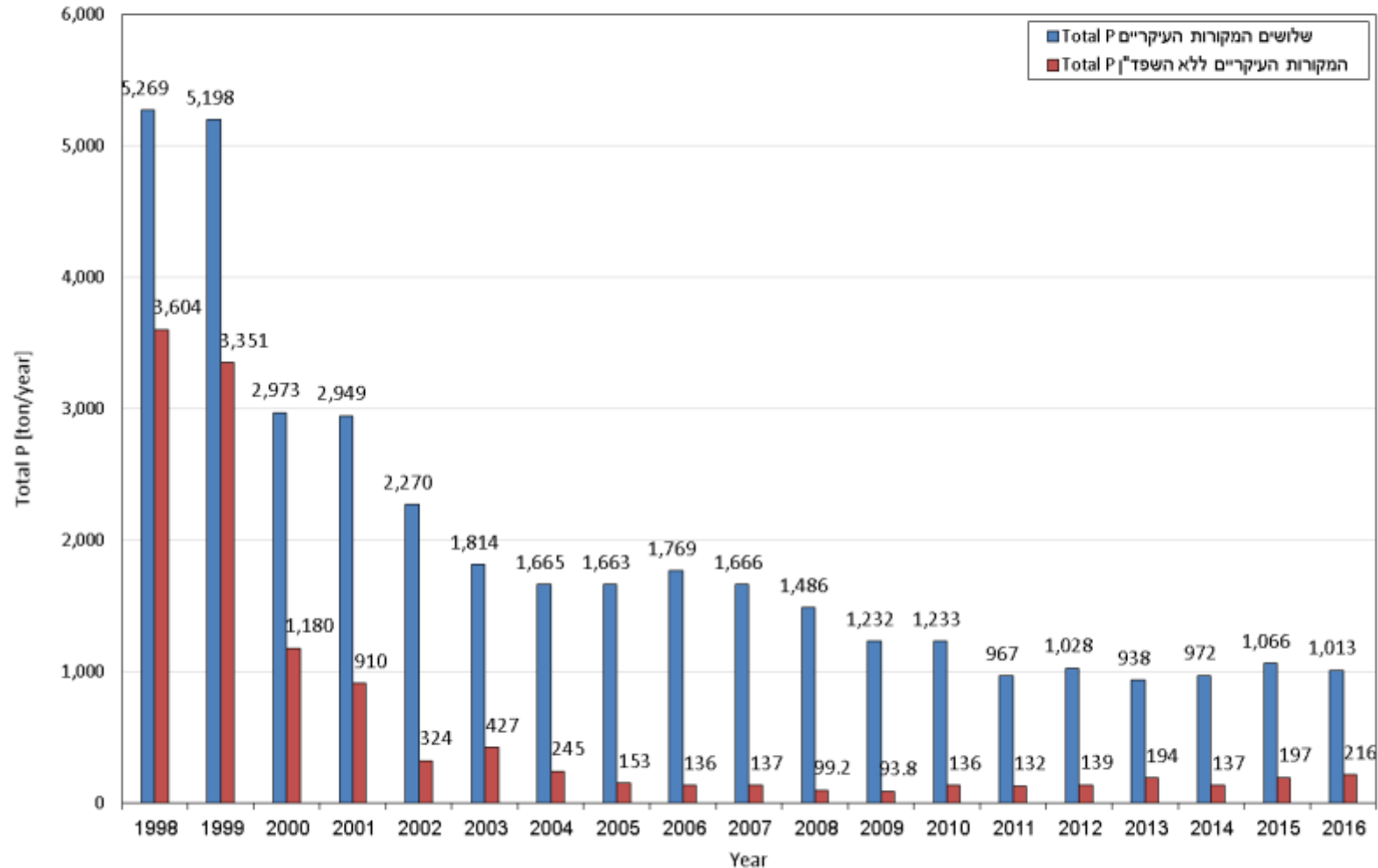
צח"ב (BOD) - [טון/שנה]



P Discharge to the Sea

1998-2016

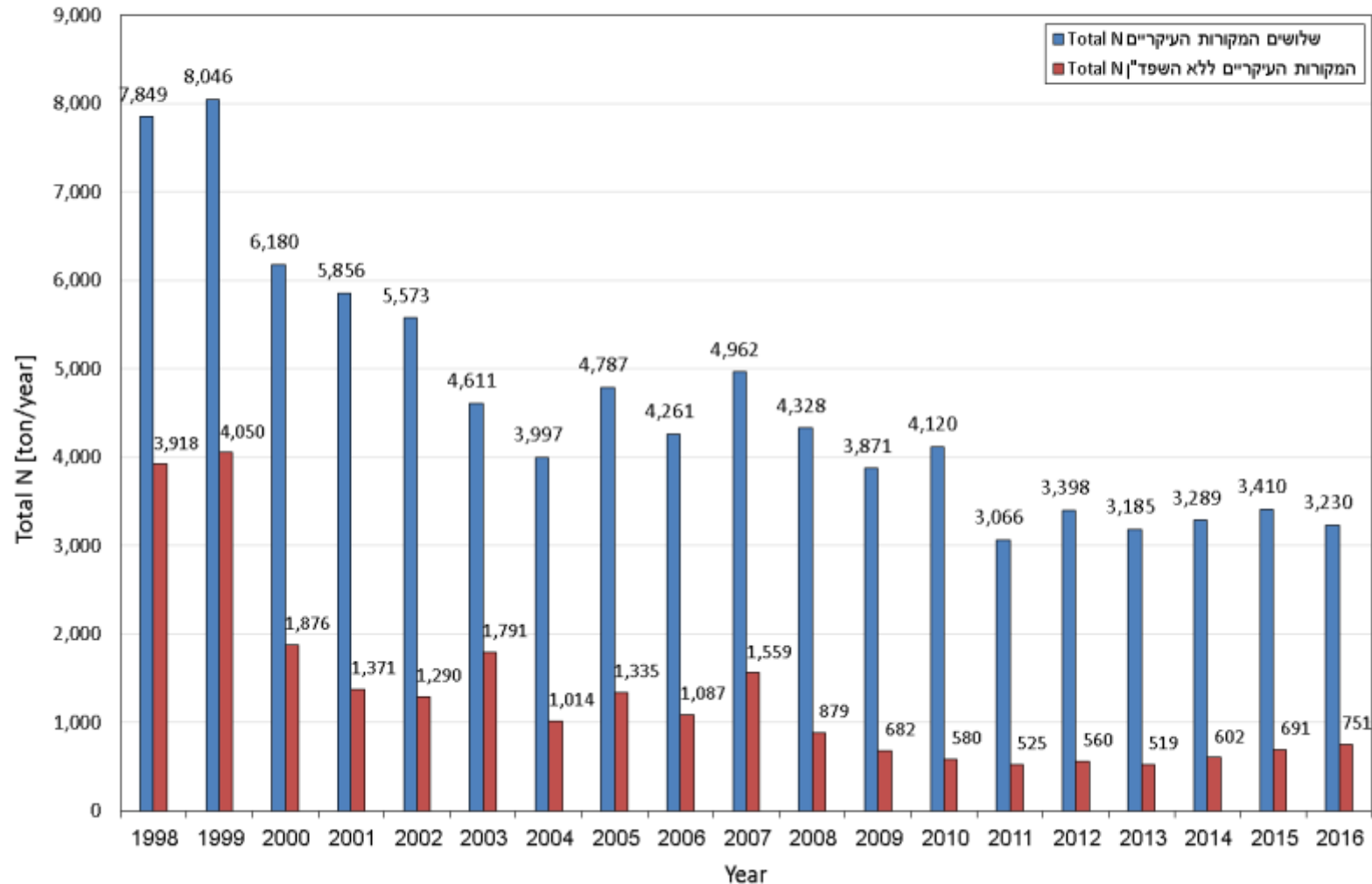
זרחן כללי (Total P) - (טון/שנה)



Total N Discharge to the Sea

1998-2016

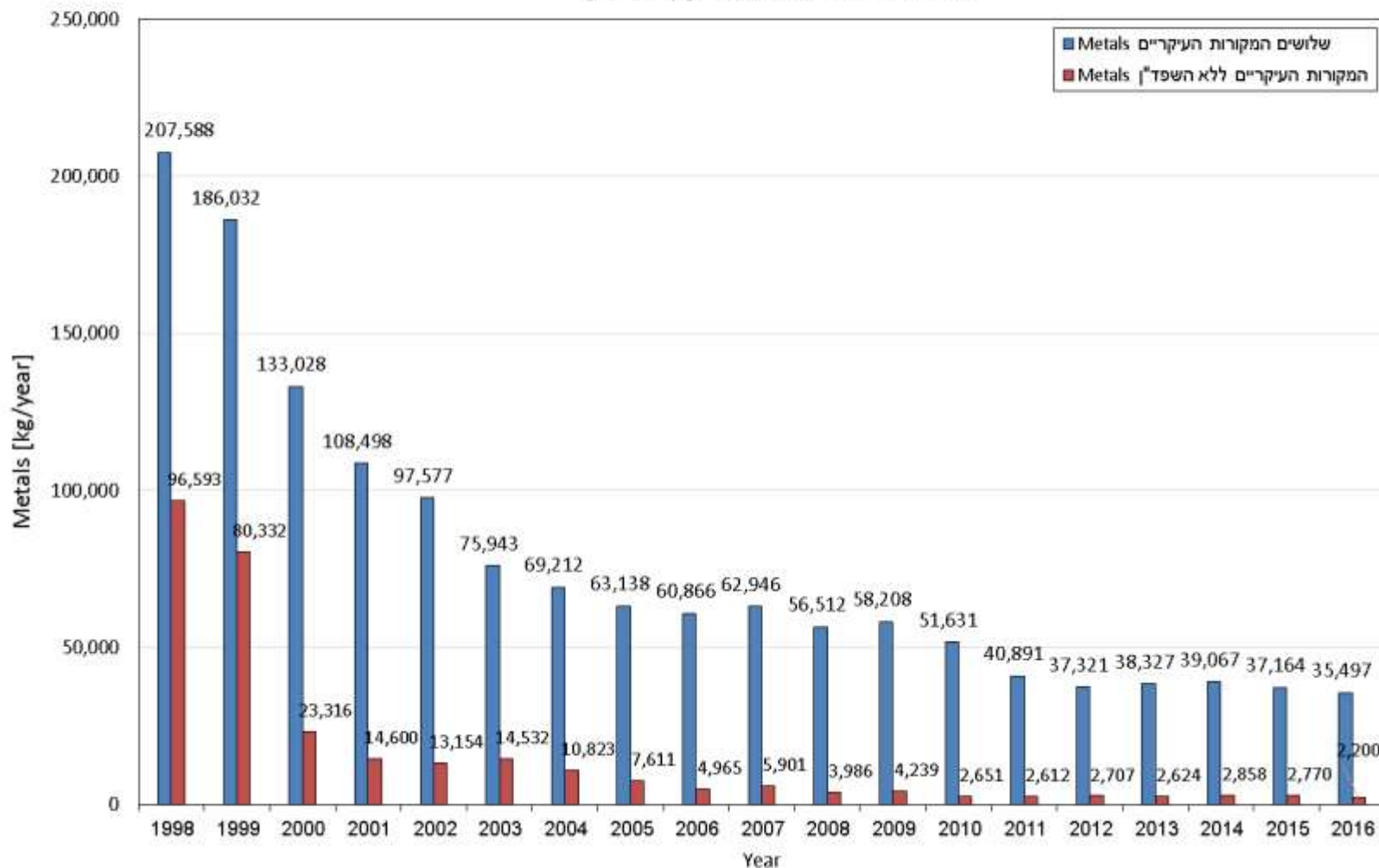
חנקן כללי (Total N) - [טון/שנה]



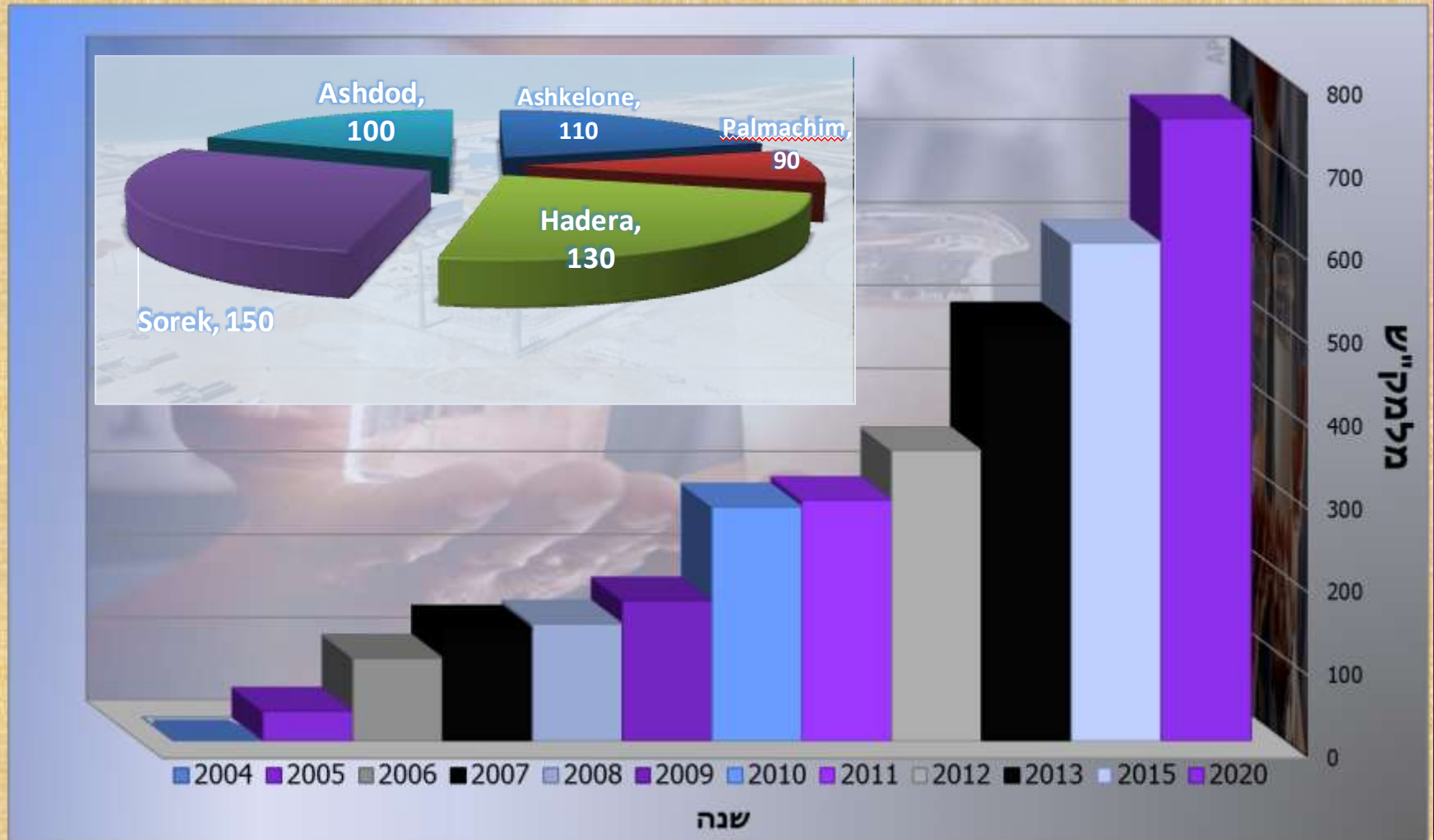
Heavy Metals (7) Discharge to the Sea

1998-2016

מתכות כבדות (Metals) - [ק"ג/שנה]



Desalination Development in Israel





Hadera – H2ID



27 March 2018

LBS and NAP for Israel/R. Amir

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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)

1. 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



