H2020/NAP indicator assessment Waste

Israel

Version: 1.0 Date: 10/07/2020

Organisation: EEA

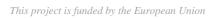


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Ministry of Environmental Protection

Thematic area Waste	Date: 10/07/2020 Author(s): Dr. Daniel Madar, Dr. Moshe Yanai, Dr. Orna Matzner
Policy theme 1. Municipal Waste Generation	
Indicators: 1.1 Total Municipal Solid Waste (1.A Municipal waste composition 1.B Plastic waste generation per c 1.C % of population living in Coa 1 D % of Time of Tourist visitors	apita

Key policy question:

IND1: What is the status of municipal waste generation in your country?

Key messages

- The average annual MSW generated per capita is slowly (but constantly) increasing by ~0.3% per year to reach 6,668 thousand tonnes, equal to 760 kg/capita/year, in 2017. The key drivers of MSW generation, including plastic waste, are high population growth rate and steady growth of standard of living, reflected inter alia by an increase in the use of packaging material.
- In the period 2003-2017, the organic fraction of MSW decreased from 41% to 31%, while the fraction of plastic waste increased from 12% to 21%).
- Israel's annual MSW plastic generation per capita almost doubled in the period 2003-2017, from 85 to 156 kg per capita/year.
- These data challenge decision makers. It is necessary to bring a change in our lifestyle that will include reduction in the amount of waste generated (reduction at source), as well as a decrease in the use of disposable plastic products.
- The Ministry of Environmental Protection and local authorities have set regulation and plans to decrease plastic use in order to protect the terrestrial and marine environment. The NGO's have also initiatives in this area. Examples include the Plastic Bag Law, the Clean coast program, and Awareness Raising Campaigns.

Key figures/Tables

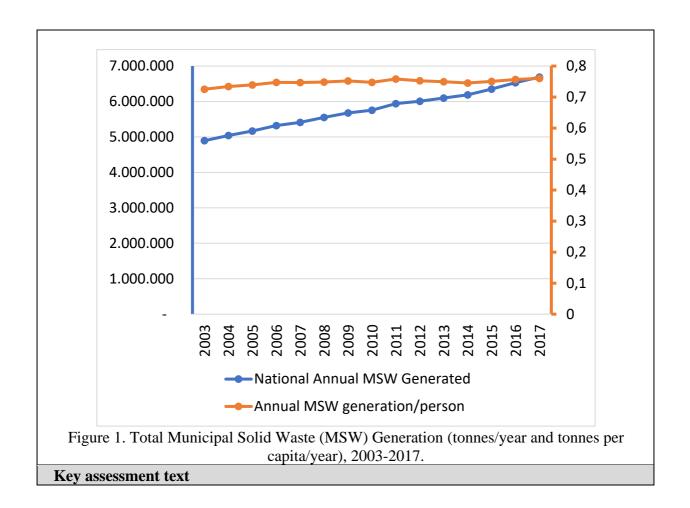
















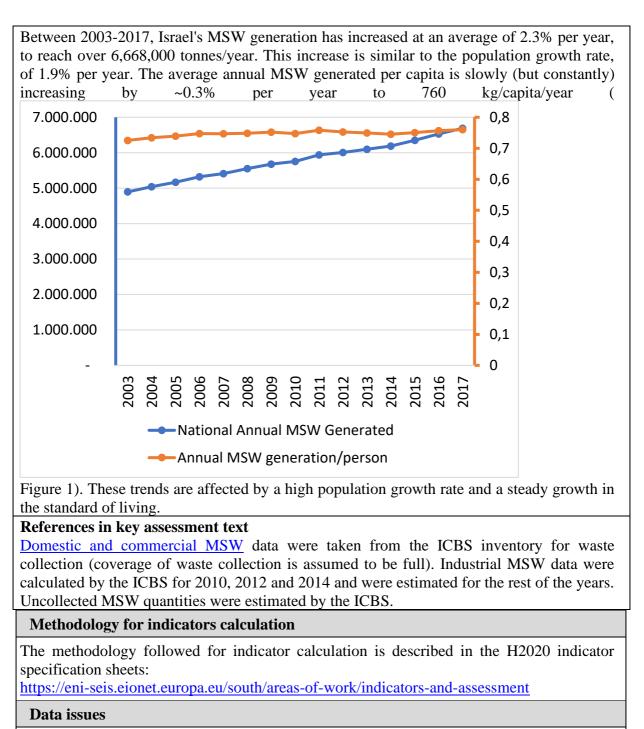




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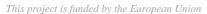


Data on MSW collection and generation are assumed to be equal.

Specific policy questions: *IND1.A:* What is the composition of municipal solid waste in your country? Specific figure(s)



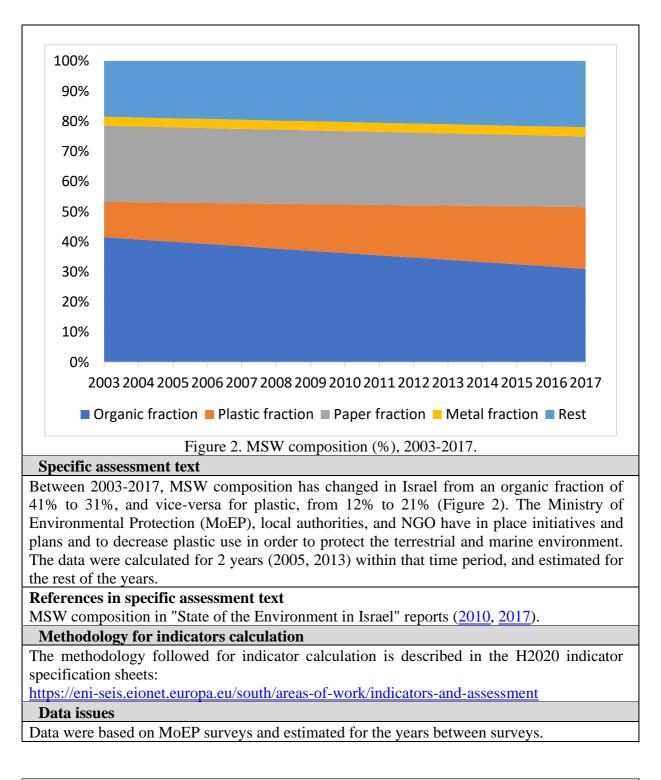












Specific policy questions:

IND1.B: Is generation of plastic waste per Capita decreasing? Specific figure(s)



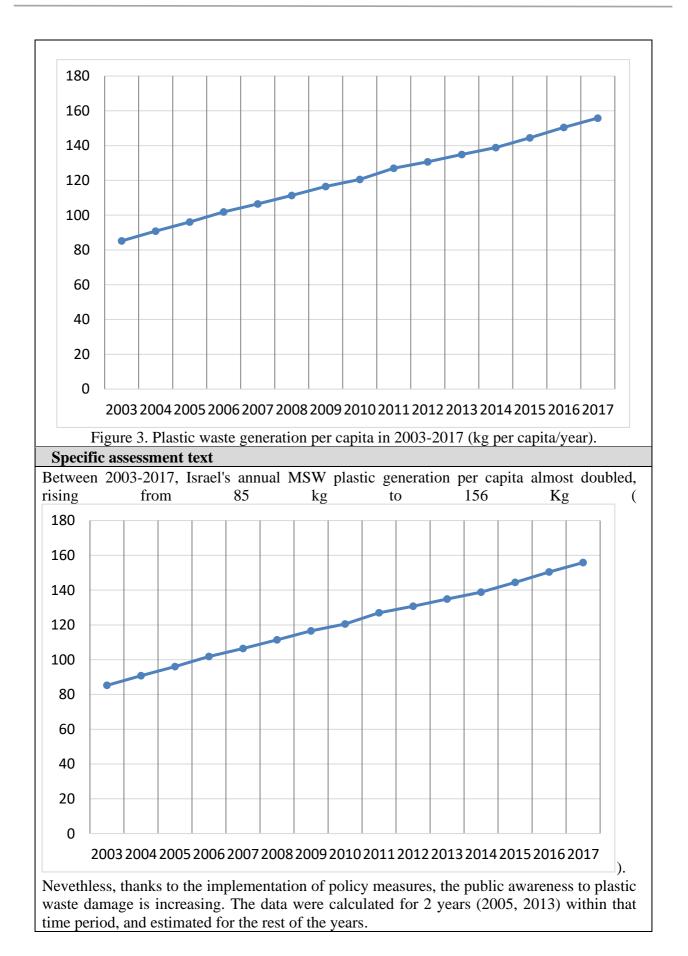




















References in specific assessment text

MSW composition in "State of the Environment in Israel" reports (2010, 2017). ICBS population inventory.

Methodology for indicators calculation

The methodology followed for indicator calculation is described in the H2020 indicator specification sheets:

https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment

Data issues

Specific policy questions:

IND1.C: What is the percentage of people living by the coast? Vs total population. Specific figure(s)

Specific figure(s)

Specific assessment text

For the purpose of this report, Israel was considered as a single coastal Mediterranean area. Therefore, the fraction of the population within the coast buffer zone is constant at a 100%.

References in specific assessment text

ICBS population inventory.

Methodology for indicators calculation

Data issues

Specific policy questions:

IND1.D: Is the number of tourists increasing?

Specific figure(s)

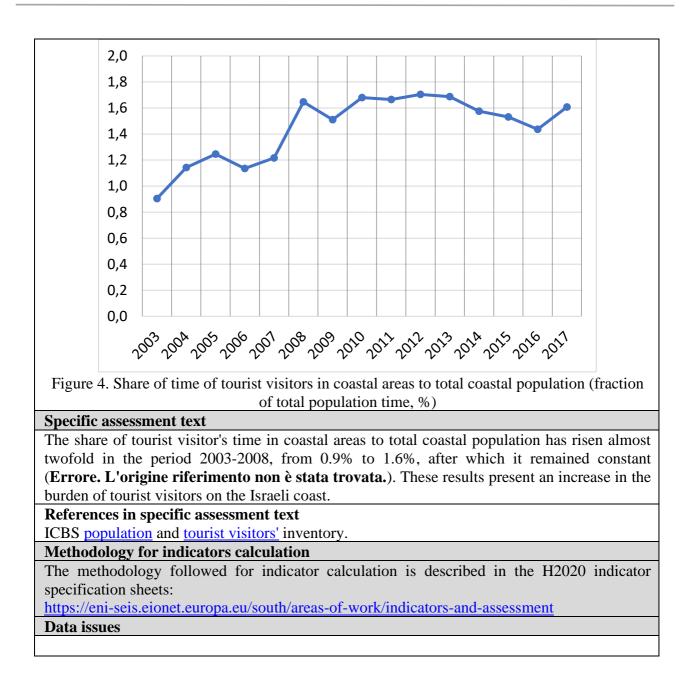




















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H2020 / NAPs Indicators		
Thematic area WASTE	Date: 10/07/2020 Author(s): Dr. Daniel Madar, Dr. Moshe Yanai, Dr. Orna Matzner	
Policy theme 2. "Hardware" of waste management		
Indicators: 2.A Waste collection		
2.A.1 Waste Collection Coverage2.A.2 Waste Captured by the system2.B Environmental control		
2.B.1 % of waste to uncontrolled dumpsites2.B.2 Uncontrolled dumpsites in Coastal Areas2.B.3 Waste going to dumpsites in Coastal Areas		
2.C Resource recovery 2.C.1 % of plastic waste generated that is recycled		

Key policy question:

IND2: Is municipal solid waste management improving?

Key messages

- MSW collection coverage in Israel has been very high in the last decades, serving over 99% of the total population, and over 99.74% of the generated MSW. All the MSW collected is delivered to official facilities for treatment.
- There are no officially uncontrolled dumpsites in Israel's coastal area since 2003. No waste was dumped in uncontrolled dumpsites. Measures for the prevention of illegal waste dumping are being implemented.
- Between 2003-2017, the fraction of MSW recycled and reused doubled to reach 24% of all MSW captured, while the total amount of annual MSW recycling and reuse more than tripled to reach 1,680,000 tonnes in 2017. This fraction is expected to increase in the future, as in late 2017 Israel's 1st Refuse-Derived Fuel (RDF) facility was inaugurated, new MSW incineration facilities are promoted, and circular economy projects are being implemented.
- The Ministry of the Environmental Protection developed a national strategy in order to increase recycling and decrease landfilling. This stategy includes investment in infrastructure, as well as in establishing incinerations plants.
- Even though the amount of plastic that is recycled has tripled between 2003-2017, the fraction of recycled plastics has remained virtually the same throughout this period, at ~4.4%. Israel is facing growing challenges in this area as the international plastic recycling market is currently shrinking.

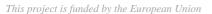
Specific policy questions:

IND2.A.1: What is the progress of municipal solid waste collection? How much solid waste is collected?

Specific figure(s)











100			
90			
80			
70			
60			
50			
40			
30			
20			
10			
0			
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017			
Figure 5. Waste collection coverage as percentage of total national population.			
Specific assessment text			
MSW collection coverage in Israel has been almost full for decades; it currently stands at over 99% of the population (Errore. L'origine riferimento non è stata trovata.).			
In the period 2003-2017, MSW collection coverage dropped slightly from 99.61% to 99.17%. The main reason for this drop is the relative growth of the population living outside localities, where collection services are poor, compared with the growth of the population within localities.			
References in specific assessment text			
ICBS population and MSW inventory			
Methodology for indicators calculation			
The methodology followed for indicator calculation is described in the H2020 indicator			
specification sheets:			
https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment			
Data issues			
Uncollected MSW data were estimated based on the share of waste generated by population			
living outside localities.			

Specific policy questions:

IND2.A.2: Amount of municipal solid waste captured by the management system and delivered to an official facility for treatment.

Specific figure(s)

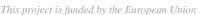
Specific assessment text

All the collected MSW captured by the management system is delivered to official facilities for treatment; therefore, the data for MSW delivered are identical to the data presented in Figure 5. The Ministry of Environmental Protection is responsible to enforce waste treatment.

References in specific assessment text <u>Ministry of Environmental Protection</u>.













Methodology for indicators calculation

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https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment Data issues

Specific policy questions:

IND2.B.I.: What are the quantities of municipal solid waste going to uncontrolled dumpsites?

Specific figure(s)

Specific assessment text

In the period 2003-2017, no waste was sent to uncontrolled dumpsites, as these dumpsites had been closed before this period. The Ministry of Environmental Protection is responsible to enforce MSW treatment.

References in specific assessment text Ministry of Environmental Protection.

Methodology for indicators calculation

Data issues

Specific policy questions:

IND2.B.2.: How many uncontrolled dumpsites in the coastal area-relevant to Mediterranean?

Specific figure(s)

Specific assessment text

There are no uncontrolled dumpsites in Israel. The last uncontrolled dumpsite was closed in 2003.

References in specific assessment text

Ministry of Environmental Protection.

Methodology for indicators calculation

Data issues

Specific policy questions: IND2.B.3.: How much MSW is dumped in uncontrolled dumpsites in the coastal arearelevant to the Mediterranean Sea? Specific figure(s)













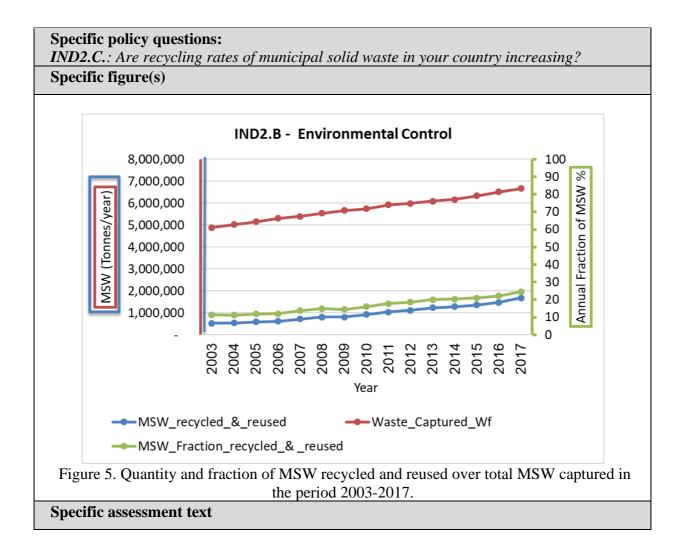
Specific assessment text

No waste is dumped in uncontrolled dumpsites in the coastal area-relevant to the Mediterranean Sea.

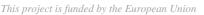
References in specific assessment text Ministry of Environmental Protection

Methodology for indicators calculation

Data issues



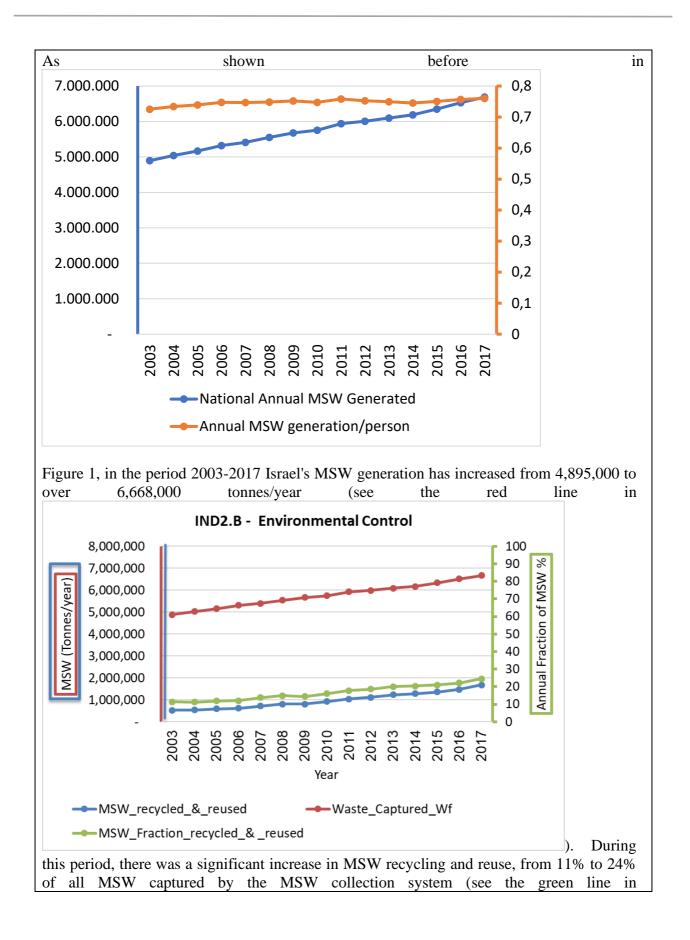










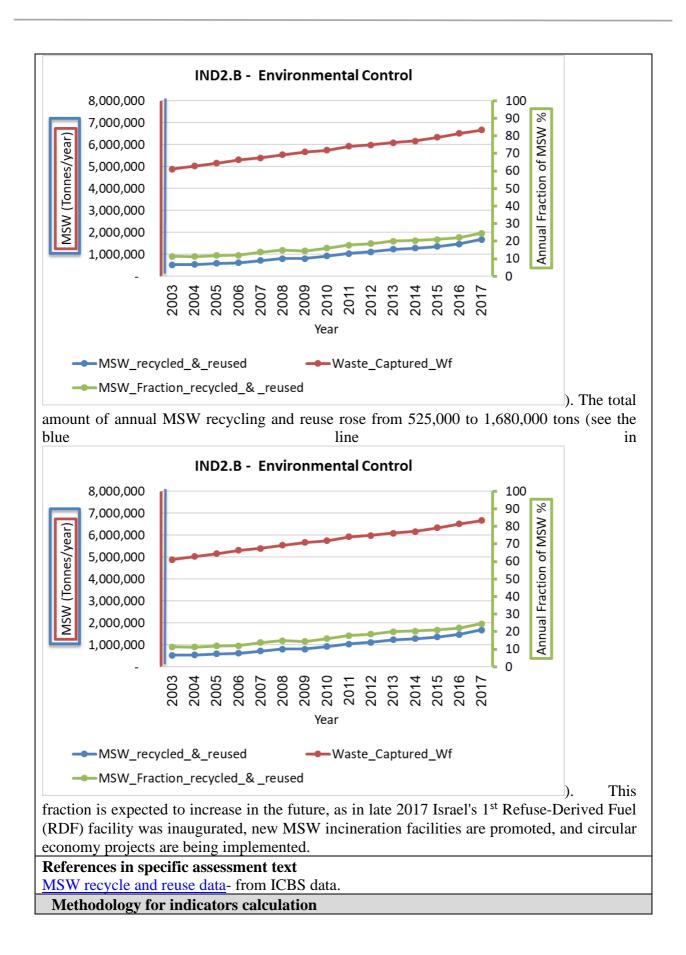




















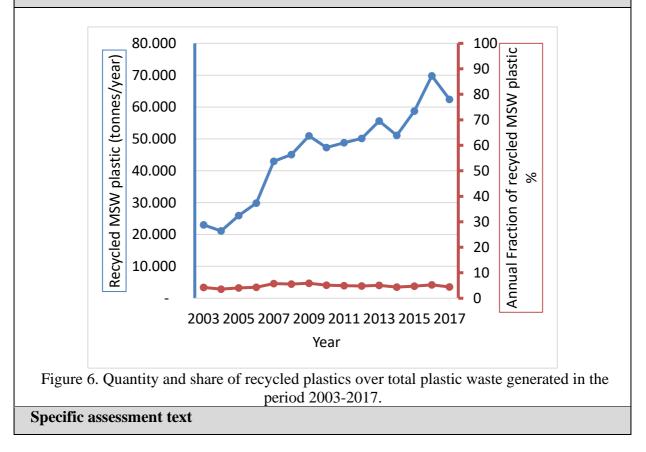
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https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment Data issues

Specific policy questions:

IND2.C.: What is the progress in plastic waste generated and that is recycled (formal and informal)?

Specific figure(s)





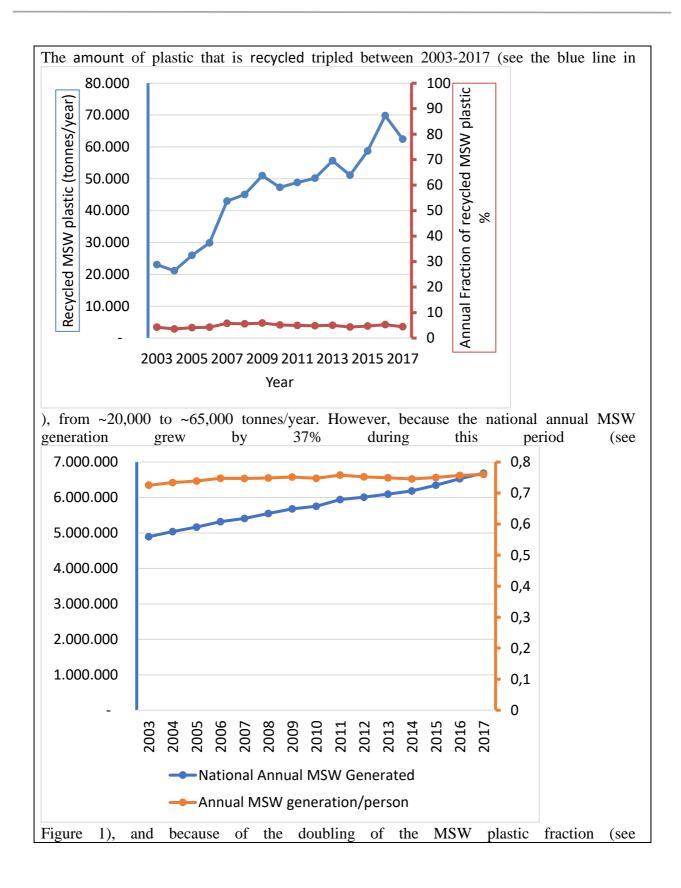


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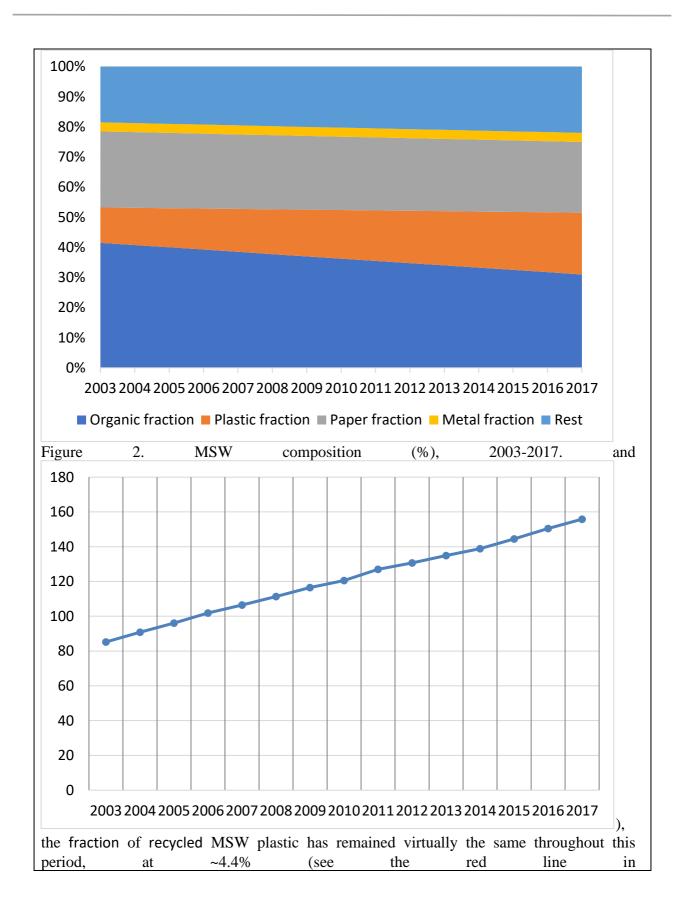










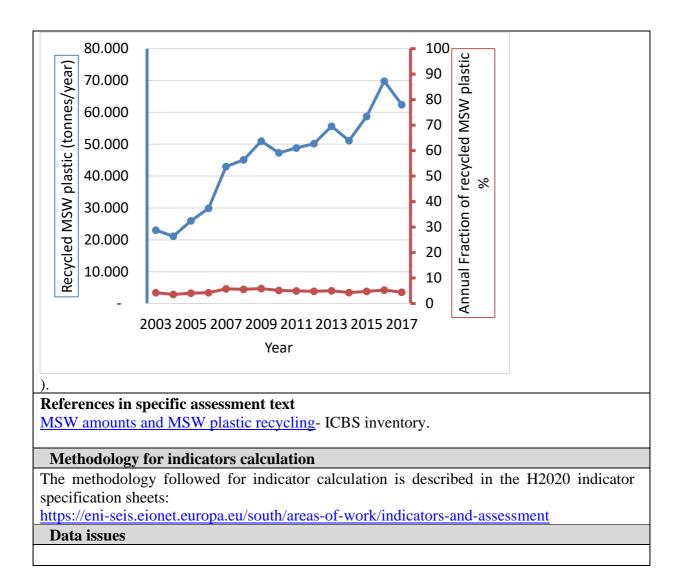






















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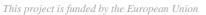
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Thematic area WASTE	Date: 10/07/2020 Author(s): Daniel Madar, Emanuele Bigagli	
Policy theme IND Q "Software of waste manag	gement" (Policies)	
Questions:		
IND Q.A Marine Litter and Waste Management Framework		
IND Q.B Resource Recovery		
IND Q.C Sustainable Consumption	on and Production	

Question	Answer (Yes / No)
IND Q.A.1.: Is there a National Assessment for ML and its impacts?	YES
Comments: Under the Mediterranean Sea monitoring program. https://www.sviva.gov.il/English/env_topics/marineandcoastalenvironment MonitoringProgram.aspx#GovXParagraphTitle1	t/Pages/Marine
IND Q.A.2.: Is there a National plan or strategy for ML?	YES
Comments: Under the Clean Coast program. https://www.sviva.gov.il/English/env_topics/marineandcoastalenvironment Coast/Pages/CleanCoastProgram.aspx	t/Protecting-the
<i>IND Q.A.3.</i> : Is there a National plan or strategy for waste management?	YES
Comments: See (in Hebrew): https://www.gov.il/he/departments/policies/strategic_plan_for_waste_treat	ment by 2030
IND Q.A.4.: Is there a National law on waste?	YES
Comments: See: https://www.sviva.gov.il/English/Legislation/Pages/WasteAndRecycling.as	spx_
IND Q.A.5. : Is there a National plan or target to close the dumpsites before 2030?	NO
Comments: There are no illegal dumpsites	
IND Q.A.6. : Is there a National information system for waste management in place?	YES
Comments: See: https://www.gov.il/he/departments/guides/waste_facts_and_figures?chapte Hebrew)	rIndex=4 (in







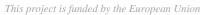




IND Q.B.1. : Is there a National plan or strategy for waste prevention?	NO		
IND Q.B.2. : Are there mandatory targets for recycling-recovery of packaging waste?	YES		
Comments: Mandatory targets for recovery of packaging waste <u>https://www.sviva.gov.il/English/env_topics/Solid_Waste/Extended-Produ</u> <u>Responsibility/Packaging-Waste/Pages/PackagingWaste.aspx</u>	<u>cer-</u>		
IND Q.B.3. : Are there EPR or deposit-return schemes for packaging waste?	YES		
Comments: See: <u>https://www.gov.il/en/departments/guides/extended_producer_responsibilithttps://www.sviva.gov.il/English/env_topics/Solid_Waste/Extended-Producer_responsibility/Pages/default.aspx#GovXParagraphTitle4</u>			
IND Q.B.4. : Are there national policies to eliminate or reduce single- use plastics?	YES		
Comments: Beverage containers & Single-use carrier bags reduction law: <u>https://www.gov.il/en/departments/guides/extended_producer_responsibility</u> <u>https://www.sviva.gov.il/English/env_topics/Solid_Waste/Pages/Supermarket-Bags.aspx</u>			
IND Q.B.5.: Are there financial recovery activities?	YES		
Comments: deposit on beverage containers https://www.sviva.gov.il/English/env_topics/Solid_Waste/Extended-Produ Responsibility/Pages/default.aspx	<u>cer-</u>		
IND Q.C SUSTAINABLE CONSUMPTION AND PRODUCTION			
IND Q.C.1. : Are there sustainable consumption and production plans or strategies?	YES		
Comments: Program plan for circular economy in the industrial sector <u>https://www.gov.il/he/departments/news/circular-economy-plan-30062019</u> (in Hebrew)			
IND Q.C.2. : Are there green procurement rules for the public sector in place?	YES		
Comments: See: <u>https://www.sviva.gov.il/English/env_topics/Sustainable%20Development/Sustainability-</u> <u>in-the-Public-Sector/Pages/Green-Procurement.aspx</u>			
IND Q.C.3.: Are there policies to support sustainable tourism?	YES		
Comments: In Hebrew: <u>https://www.gov.il/he/departments/policies/sustainable_tourism</u>			
IND Q.C.4. : Are there policies to support eco-labelling and eco-design?	YES		
Methodology for indicators calculation			











The methodology followed for indicator calculation is described in the H2020 indicator specification sheets:

https://eni-seis.eionet.europa.eu/south/areas-of-work/indicators-and-assessment

Data issues









