BY THE NUMBERS:

The Home Appliance Industry in Europe, 2017-2018

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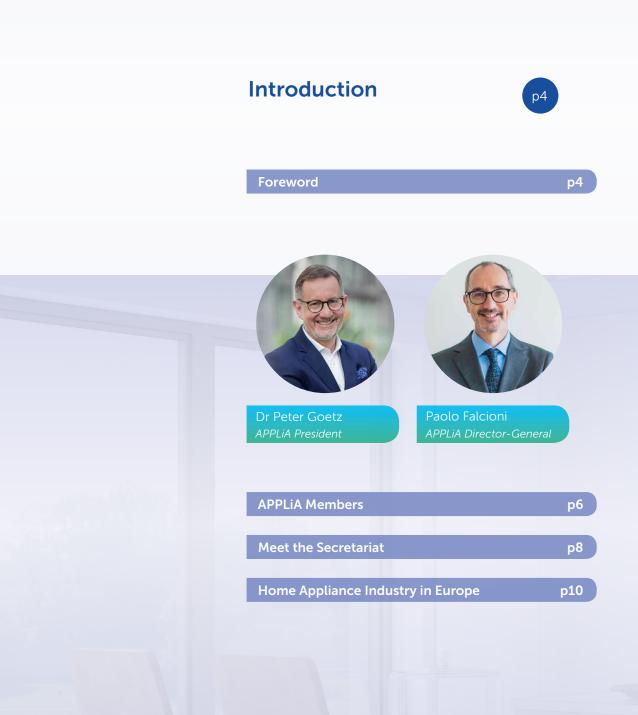
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BY THE NUMBERS:

The Home Appliance Industry in Europe, 2017-2018



APPLIN Home Appliance Europe

Pillar 1

Advancing Sustainable Lifestyles

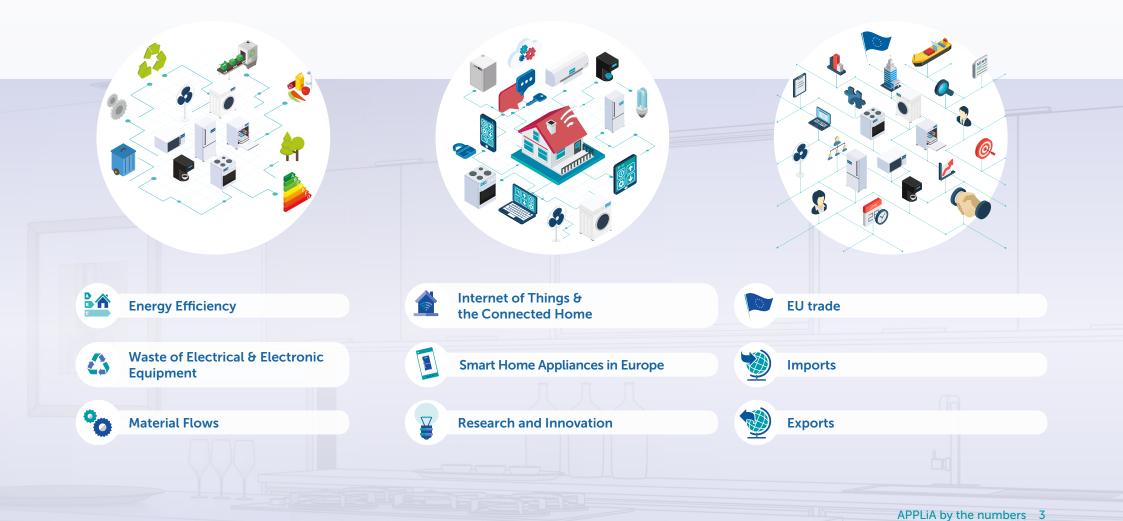
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Living the Connected Home



Accelerating Europe's Growth







The 3rd statistical report of the home appliance industry in Europe comes at a crucial time when the elected EU policy makers will have the mission to advance Europeans' lifestyles.

In our industry Manifesto, we are stating clearly that embracing all actors to improve circularity, establishing a smart energy market matching demand with supply, as well as offering high-quality job opportunities to Europeans could make a true difference. This report is a valuable tool to lead an evidencebased discussion and the facts in it are indispensable in setting the vision of our innovative, forwardlooking sector.



In 2018, home appliance manufacturers in Europe have kept on developing cutting-edge technology to further enable sustainable consumption and contribute to the climate goals of the Paris Agreement, simplifying the everyday tasks of consumers.

Every edition of the APPLiA report aims at enriching the data snapshot we provide for the sector. While in the previous version of the report, we illustrated the circularity of the material flows of the industry, the greatest novelty this year is the insight on how reparable home appliances actually are.

This set of comprehensible data is portraying how the evolution of the industry has been happening throughout the last years. If the numbers in this report give you food for thought, let us know.

APPLiA by the numbers 5

Paolo Falcioni APPLiA Director-General

APPLiA Membership

APPLiA has 21 Direct Members, which have at least one manufacturing facility in Europe and a direct presence in at least four European countries. All Direct Members are also a member of the relevant APPLiA National Associations in more than 50% of the countries in which the company has direct operations. APPLiA Direct Members subscribe to APPLiA's statutes, by-laws, all industry-established agreements, and are signatories of the APPLiA Code of Conduct on Corporate Social Responsibility to promote fair and sustainable standards for working conditions, social compliance and environmental performance.



Arcelik ARISTON THERMO GROUP B/S/H/ dyson DeLonghi DAIKIN ANDY Better Everyday gorenje Electrolux LIEBHERR **LG Electronics** Panasonic **PHILIPS** SAMSUNG Miele VESTELsesmeg **VORWERK** Whirlpool

26 National Associations in 24 countries



Meet the Secretariat



Paolo Falcioni Director-General



Candice Franck Executive Assistant



Diana Yordanova Communication Manager



Anna Rossignoli Communication Junior Specialist



Alice Bugli Communication Trainee



Candice Richaud Corporate Issues Manager



Matteo Rambaldi Energy Policy Director



Giulia Zilla Energy Policy Junior Specialist



Korrina Hegarty Environment Policy Director



Lara Carrier Environment & Energy Policy Specialist



Naomi Marc Environment Policy Junior Specialist



Michał Zakrzewski Smart Living & Competitiveness Policy Director



Lenka Jančová Smart Living & Competitiveness Policy Specialist



Eoin Kelly Smart Living & Competitiveness Policy Junior Specialist

The Home Appliance Industry in Europe, in 2017

Indirect value added 55.402 11.746 Direct value added € 67.148 m Direct & indirect value added to GDP









APPLiA by the numbers 11

884.224

€ 31.628*

Wages & salaries * 2016 data, per employee

Number of direct & indirect employees





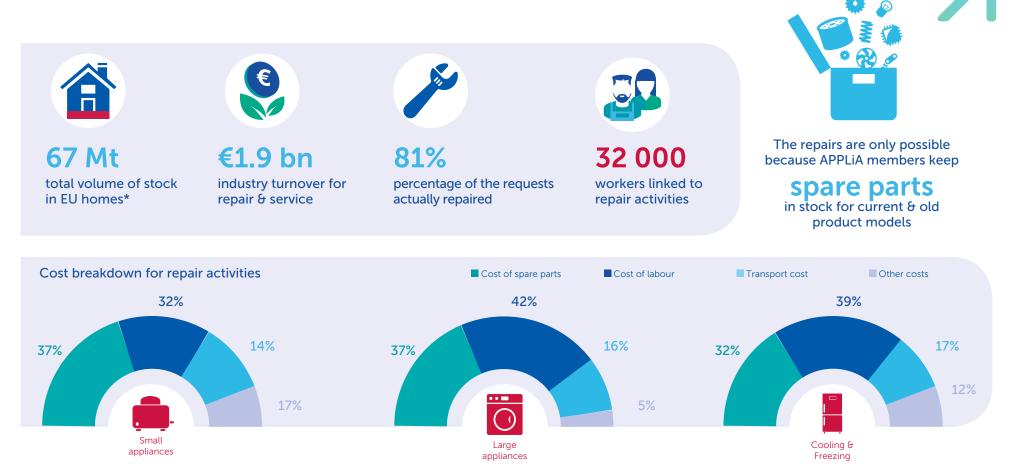
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The consciousness of the need to protect the environment has been on the rise all over Europe and beyond. In the same spirit, APPLiA has been successfully building on its Circular Culture initiative, engaging a wide variety of actors in the circularity challenge.

Back in 2016, more than 80% of Europeans' requests for a repair of a home appliance product resulted in actual repair. The repairs were only possible because European home appliance manufacturers keep spare parts in stock for current and old product models. What is more, repair often appears to be a valuable part of the aftersales strategies and remain a way for the different brands to compete to offer suitable services to the citizens.

While we see that repair activities are well-established all around Europe, we notice that the greatest challenge for the industry remains also in 2018. Two-thirds of precious resources remains undocumented and is not coming back into material loops as secondary raw material, making it unclear how this waste is collected and thereafter treated.

When it comes to repair, **#DontDespair**



According to data collected from APPLiA's membership, 81% of the requests to manufacturers for a repair of a product resulted in an actual repair in 2016. Breaking down the cost for repair activities, for large appliances for instance, the biggest chunk is the labour cost, representing 42%; 37% of the average price for repair is the cost of the spare parts; 16% goes to transport and 5% are listed as other costs.

As an observation, nearly 50% of the cost is linked to the work behind the repair and it is not surprising because around 32 000 workers are directly or indirectly linked to repair activities. Manufacturers already provide repair parts, documentation and software to repair services that are authorised to undertake repairs in a safe manner and securing the quality of repair and future safe operation of the appliances at the customer's satisfaction. For these repairs, manufacturers already provide all the spare parts that ensure the necessary maintenance and continued use of appliances and, in general, there is no shortage of spare parts.

* APPLiA snapshot of repair, reuse ϑ after-sales services

The home appliance sector plays a key role in enabling the saving of resources like energy and water



In some cases, the benefits of wider adoption of home appliances can increase the societal benefits at EU level in terms of energy consumption of resources preservation.

Source: APPLiA Dishwashers4all campaign

Potential savings from using a dishwasher compared to washing up by hand



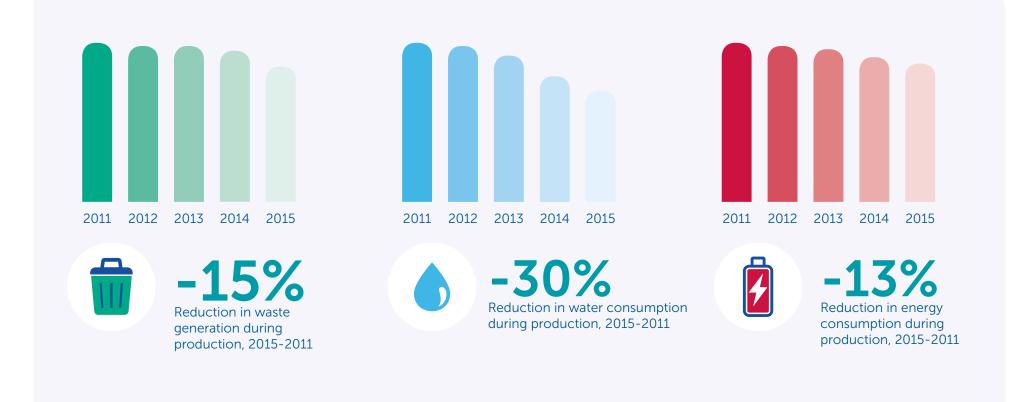


Considering energy consumption, assuming a penetration rate of 100% in EU28, rather than the current penetration rate of 47%, the potential savings from using a dishwasher compared to washing up by hand would be approximately 92 TWh/year, which is twice the electricity consumption of Portugal, and 3% of the total EU28 electricity consumption in 2015.

Source: APPLiA Dishwashers4all campaign

The home appliance industry continuously works to reduce the impact of production processes





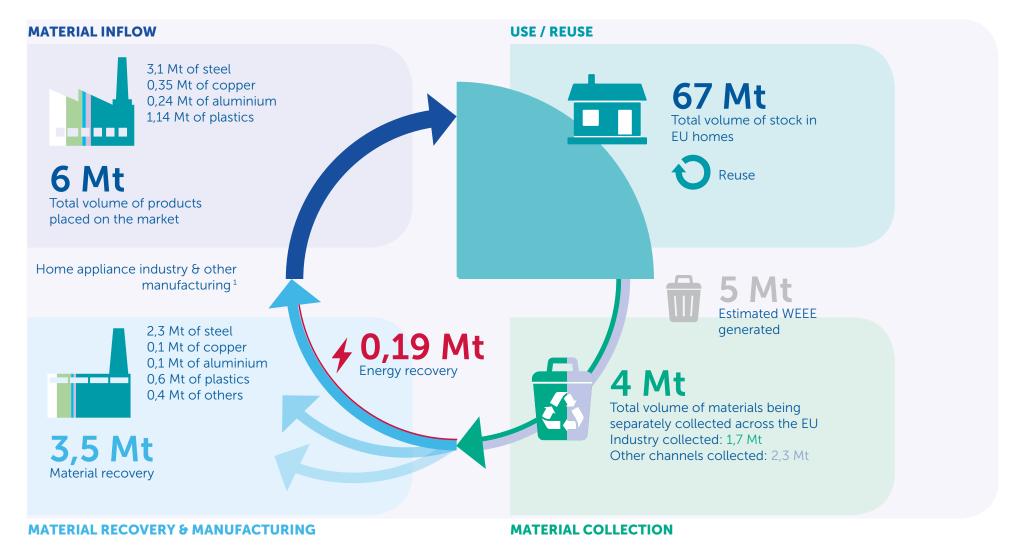
The home appliance industry continuously works to reduce the impact of production processes and particularly the consumption of energy and water as well as the reduction of waste during production processes. Benchmarking with the EU manufacturing industry shows that, in absolute consumption, the home appliance industry reduced water consumption by around 30% from 2011 to 2015. For waste generation the reduction was by 15% for the same period. The reduction in energy consumption also shows a positive trend, well above the improvements of other EU manufacturing industry.

Source: APPLiA members.

Waste of Electrical and Electronic Equipment (WEEE) in Europe



The circularity of the material flows of the home appliance industry, in 2017



1 Recovered materials may go to many manufacturing circles and not just back into producing new home appliances.

Pillar 2

Living the Connected Home



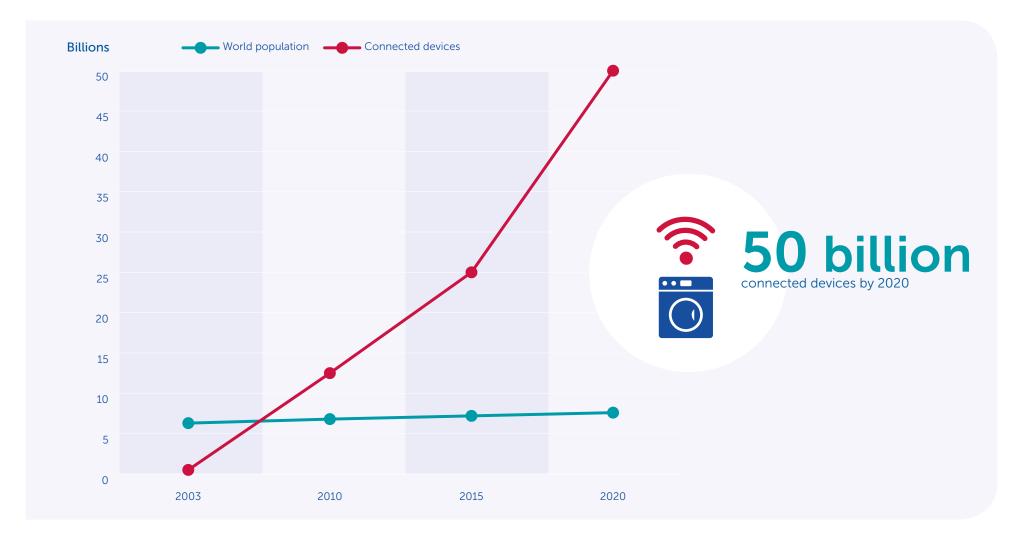
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Almost 80% of Europeans find the idea of living in a smart home appealing.

Today, an air conditioner can automatically adjust when it receives a signal from the grid that energy cost is at its lowest level. Energy consumption can be optimised when renewable energy becomes available, thereby increasing the penetration of renewable energy sources, lowering CO2 emissions and bringing us closer to the target of the Paris Agreement. Besides savings in resources and energy consumption, citizens in 21st century also feel the need of creating more comfort at home, having more time to spend with their loved ones and doing their favourite hobbies.

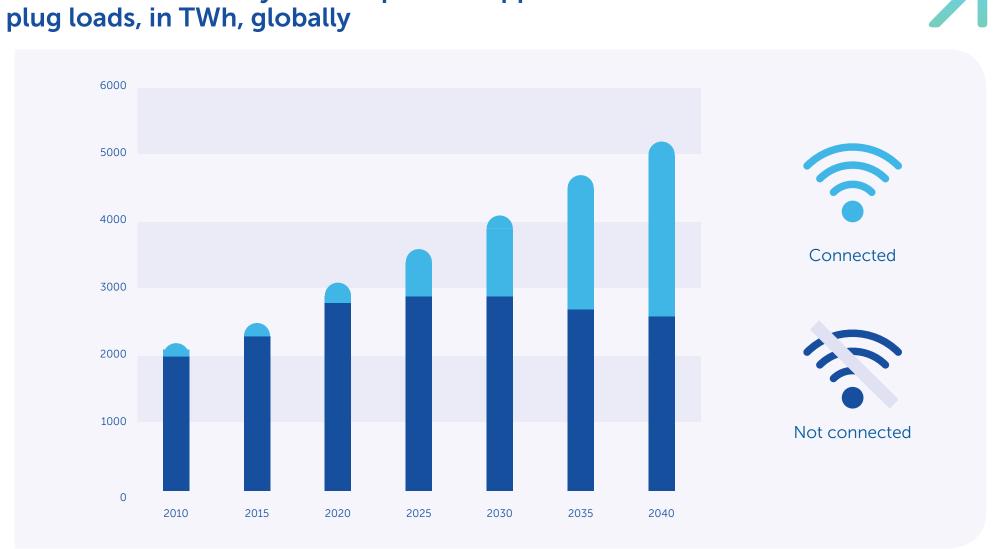
As more and more home appliances are connected to the Internet, the legislative framework for these products is rapidly changing. Data ownership and privacy, as well as cybersecurity, are topics that are of great importance for our manufacturers, to ensure the highest degree of product safety and security, and to ensure a responsible and transparent handling of the data related to these products.

The expected development of the Internet of Things



By 2020, it is estimated that there will be 50 billion connected devices, globally Source: Cisco IBSG

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The share of connected appliances in total household electricity consumption is set to grow rapidly, presenting opportunities for demand response Source: International Energy Agency

Household electricity consumption of appliances and other small

Energy consumption in households for the main energy products in Europe, in 2017

	100% Total Residential/ Households	64,7% Space heating	• 0,3% Space cooling	14,5% Water heating	\$,4%Cooking	O 13,8% Lighting & appliances	0 1,3% Other end uses
Electricity	24,4	3,6	0,3	2,8	2,7	13,8	1,2
Derived Heat	7,6	6,0	0,0	1,6	0,0	0,0	0,0
Gas	36,9	28,1	0,0	7,0	1,8	0,0	0,0
Solid Fuels	3,4	3,1	0,0	0,2	0,0	0,0	0,0
Oil & Petroleum Products	11,8	9,6	0,0	1,5	0,7	0,0	0,0
Renewables and Wastes	16,0	14,3	0,0	1,4	0,2	0,0	0,1
Total	100,0	64,7	0,3	14,5	5,4	13,8	1,3

Source: Eurostat

Smart Homes* in the European Union





The number of smart homes in the EU is expected to increase tenfold by 2021.

* Homes which use digitally controlled lighting, heating, ventilation, air conditioning, security, as well as home appliances.

Source: European Commission

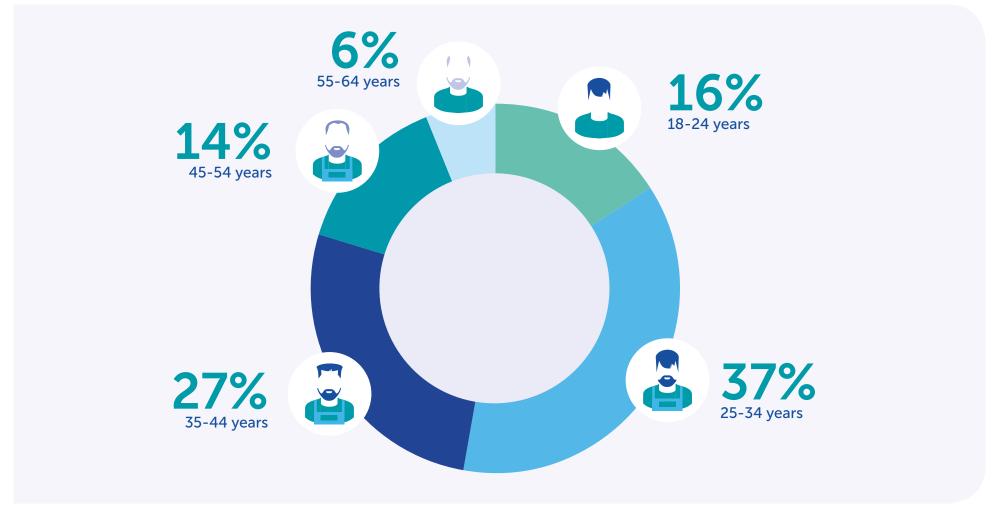
Smart appliances in Europe



Source: Statista

Users of smart appliances by age in 2017





Considering the use of smart appliances, those between 25 and 44 years constitute the vast majority of the users in 2017 with 64%. On the other side, only 16% of the 18-24 years and 20% of the 45-64 years are using smart appliances in 2017.

Source: Statista

Pillar 3

Accelerating Europe's Growth



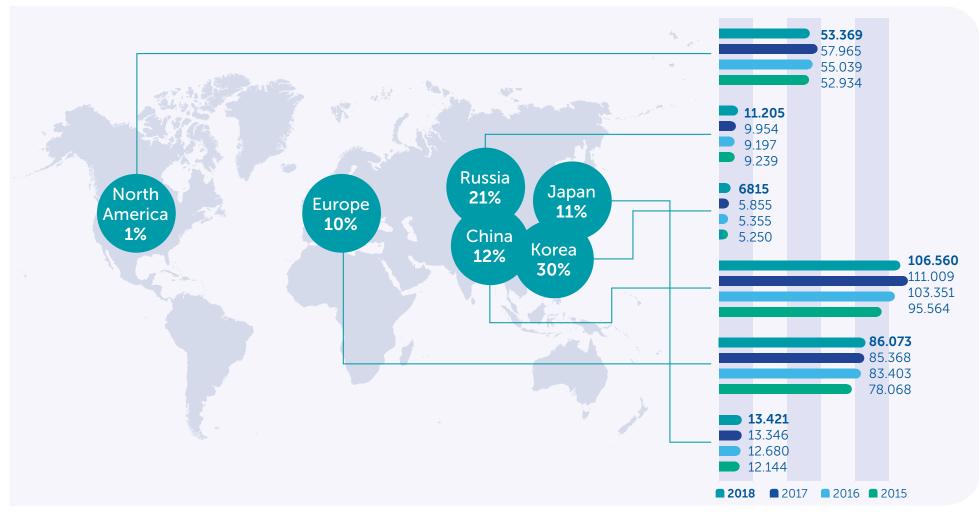
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Our industry thrives in a system based on free and fair trade, both among the EU's Member States and with third countries.

Looking at Europe in a geopolitical manner, we see that other parts of the world, such as the United States, China and India are carefully analysing and drafting the future of their industry sectors, to ensure they become competitive globally. So, the European Union would need to do the same. Considering the competitiveness of the EU industry in the global context, as well as making Europe a leading research and development area is the right formula to accelerating EU's growth.

Units traded globally, % growth in 2015-2018





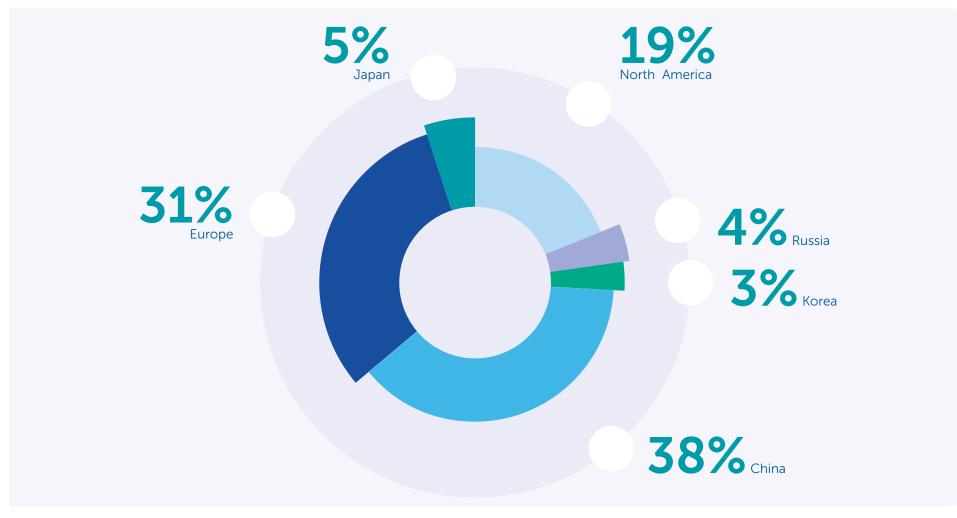
MDA7: fridges, freezers, dishwashers, washing machines, tumble dryers, hoods, microwave ovens

Note: Units are in thousands

Source: International Roundtable of Household Appliance Manufacturer Associations (IRHMA)

Units traded globally, % share by geographical area, in 2018





Source: International Roundtable of Household Appliance Manufacturer Associations (IRHMA)

Units traded in Europe, in 2017-2018 Large home appliances



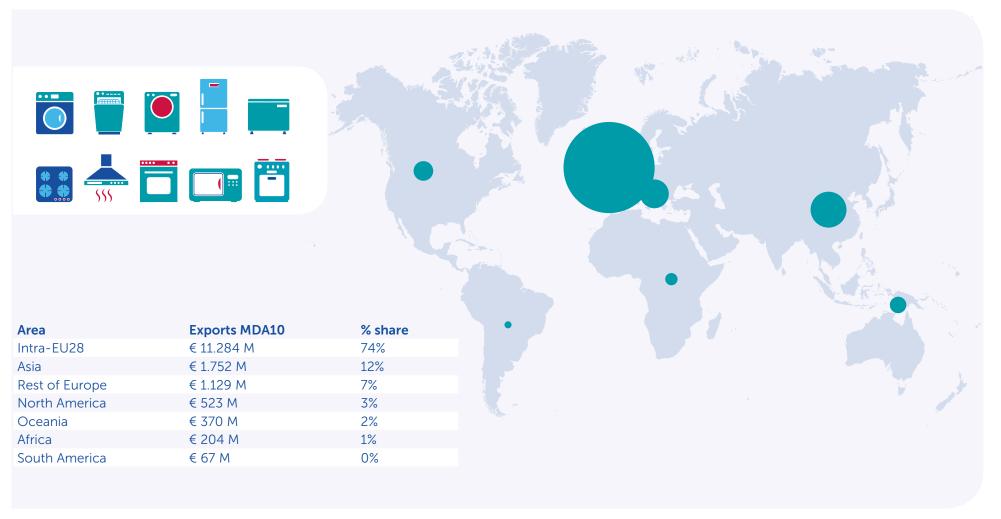
Note: Countries that are included in the calculations are EU28 + Albania, Bosnia, Serbia, Montenegro, Ukraine, Russia, Turkey and Norway Source: APPLiA Membership

Units traded in Europe, in 2017-2018 Small home appliances



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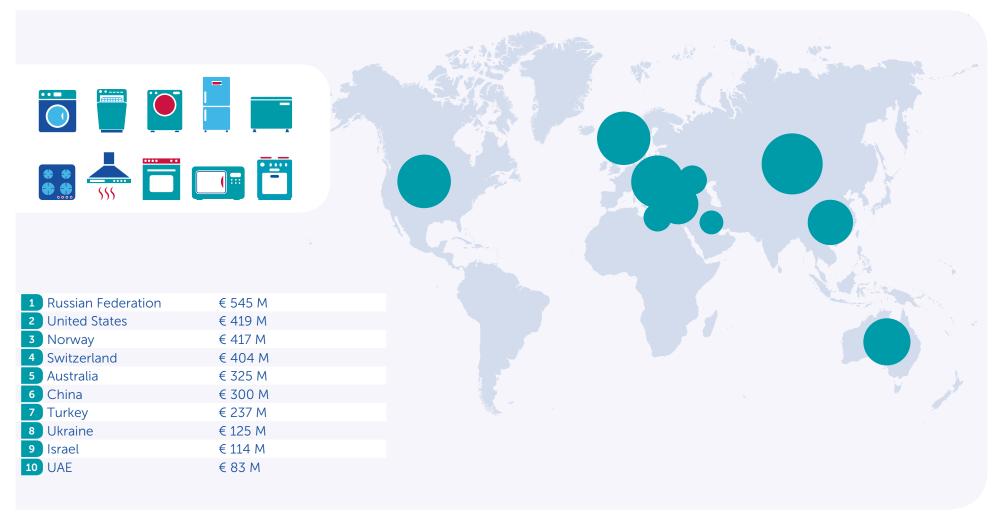
EU export destinations of large home appliances by continent in 2017



Value market share in 2017. MDA10 include refrigerators, freezers, dishwashers, washing machines, tumble dryers, free-standing cookers, built-in ovens, hobs, hoods and microwaves.

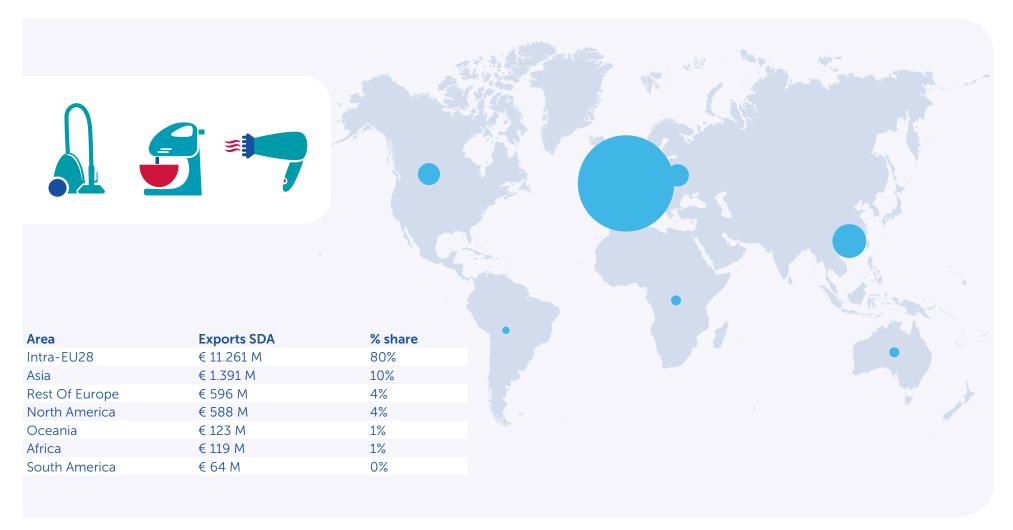
Source: Eurostat

Top 10 export destinations for large home appliances in 2017 (outside of Europe)



Source: Eurostat

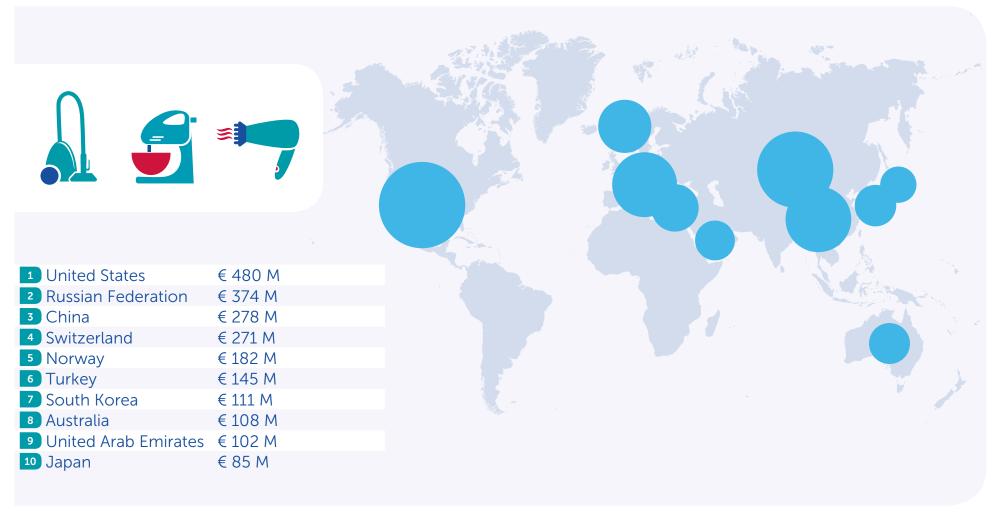
EU export destinations of small home appliances by continent in 2017



Value market share in 2017. SDA include vacuum cleaners, appliances for food and beverage preparation and personal care appliances. *Source: Eurostat*

Top 10 EU export destinations for SDA in 2017 (outside of Europe)

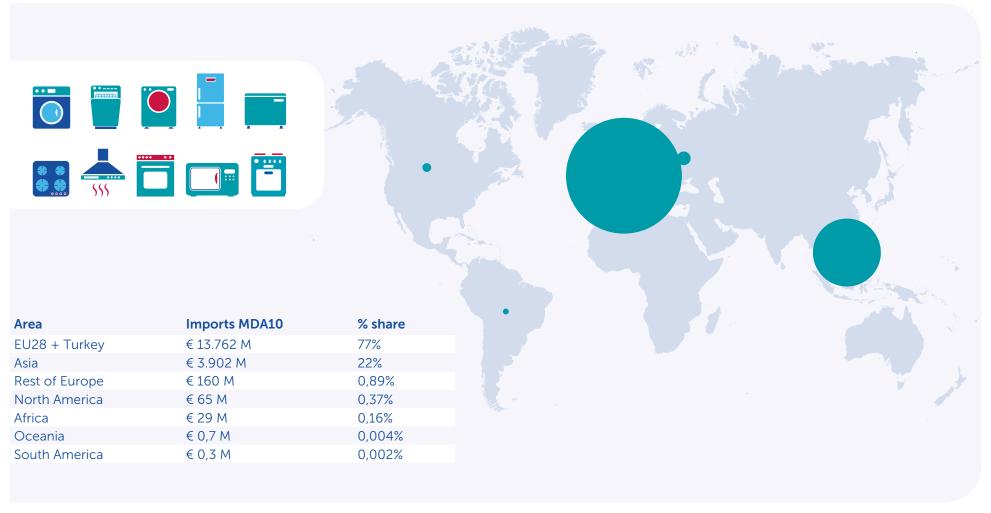




SDA refers to vacuum cleaners, appliances for food and beverage preparation, and personal care appliances

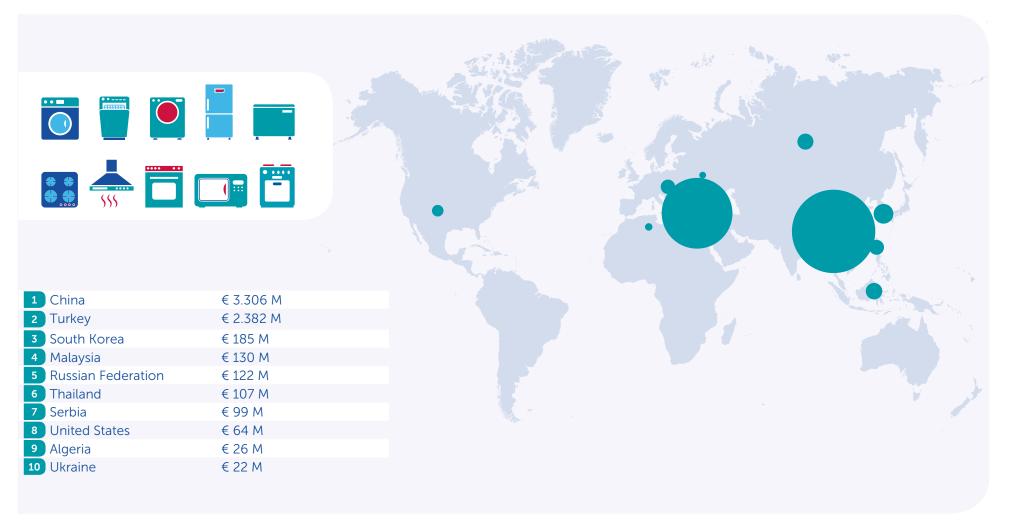
European imports of large home appliances by continent in 2017



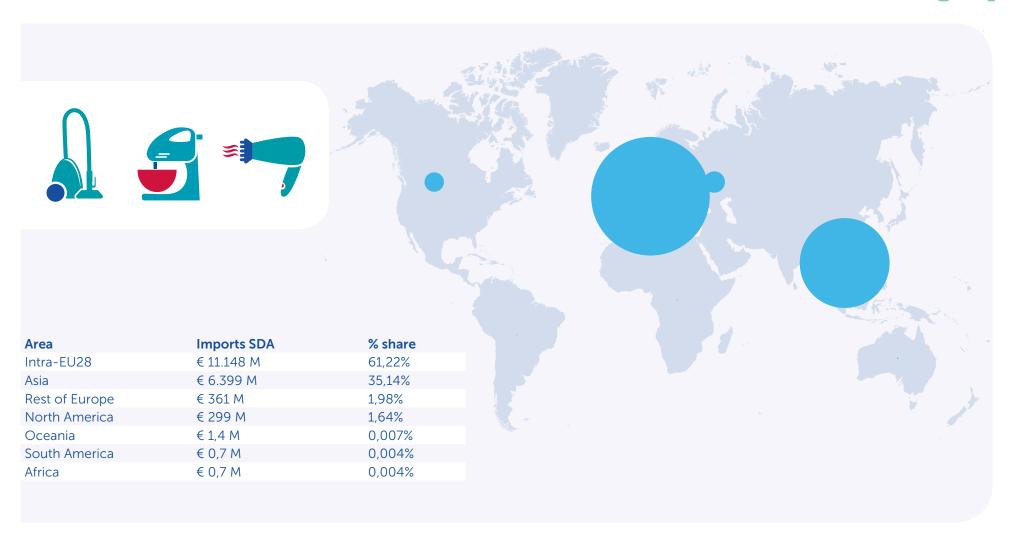


Value market share in 2017. MDA10 include refrigerators, freezers, dishwashers, washing machines, tumble dryers, free-standing cookers, built-in ovens, hobs, hoods and microwaves.

Top 10 countries of origin for large home appliances in 2017 (outside of EU28)



EU imports of small home appliances by continent in 2017

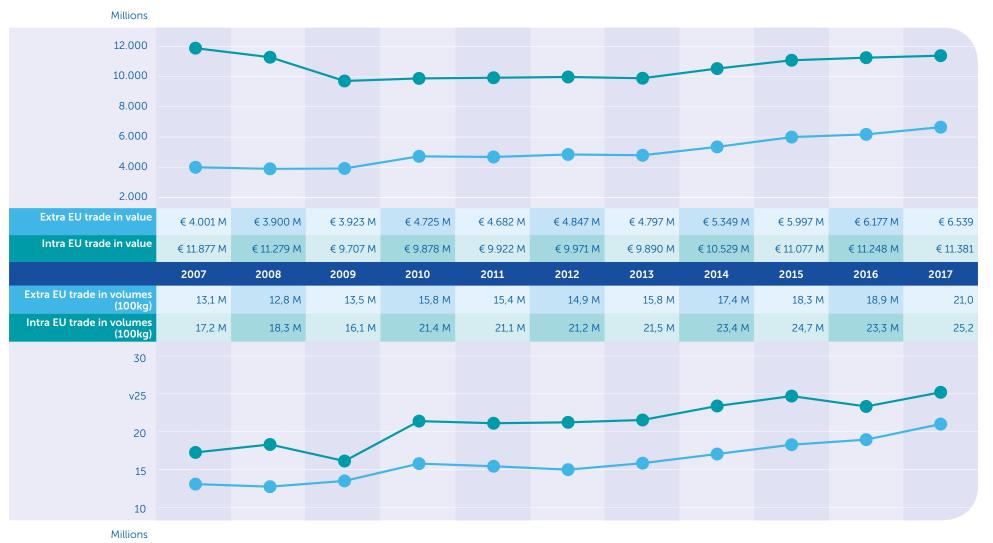


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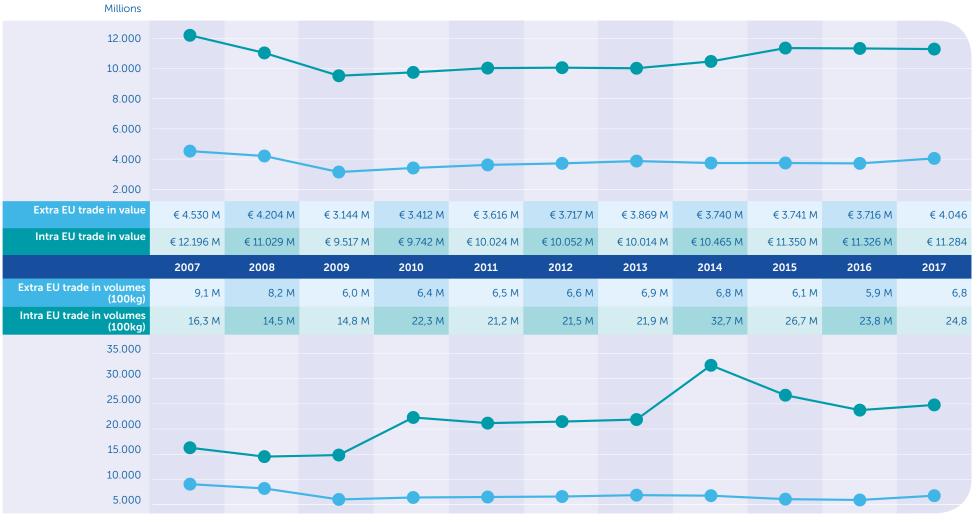
Top 10 countries of origin for small home appliances in 2017 (outside of Europe)



Import trends of large home appliances, 2007-2017



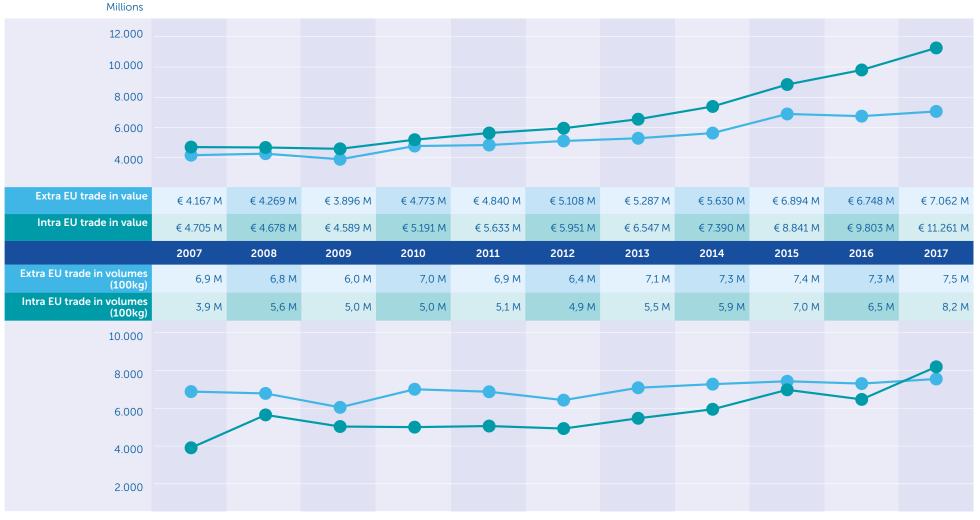
Export trends of large home appliances, 2007-2017



Thousands

Import trends of small home appliances, 2007-2017

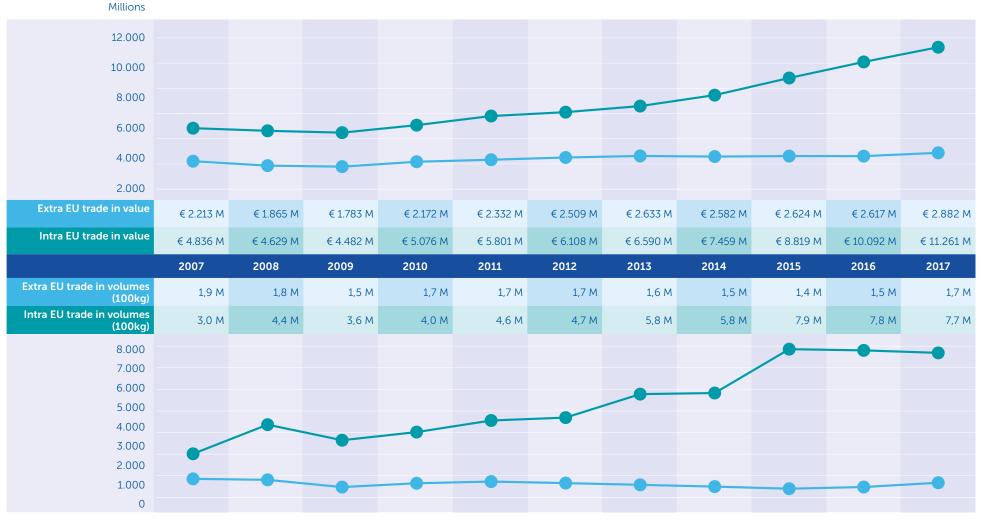




Thousands

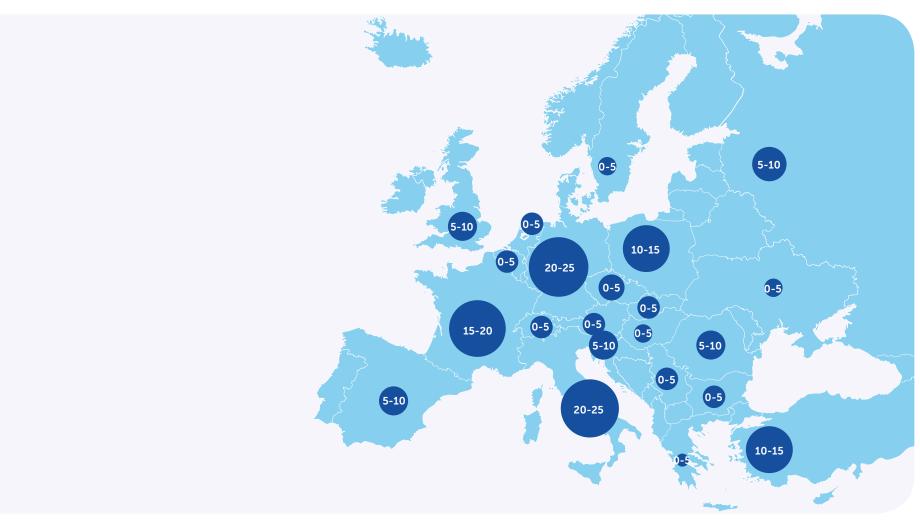
Export trends of small home appliances, 2007-2017





Thousands

APPLiA Direct Members' Manufacturing Sites in Europe in 2018



Source: APPLiA Membership

Notes



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