

Smart Appliances in Europe

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APPLiA
Home Appliance Europe





APPLiA - Home Appliance Europe represents home appliance manufacturers from across Europe.

By promoting innovative, sustainable policies and solutions for EU homes, APPLiA has helped build the sector into an economic powerhouse, with an annual turnover of EUR 47.6 billion, investing over EUR 1.4 billion in R&D activities and creating nearly 1 million jobs.

Large Home Appliances



Small Home Appliances



Home Comfort Appliances



Direct Members



Arçelik

 **ARISTON**
THERMO GROUP

 **GROUPE
ATLANTIC**

B/S/H/

CANDY

 **DAIKIN**


Better Everyday

dyson

 **Electrolux**

gorenje

 **LG Electronics**

LIEBHERR

Miele

PHILIPS

Panasonic

SAMSUNG


GROUPE
SEB

VESTEL


VORWERK

Whirlpool
CORPORATION

25

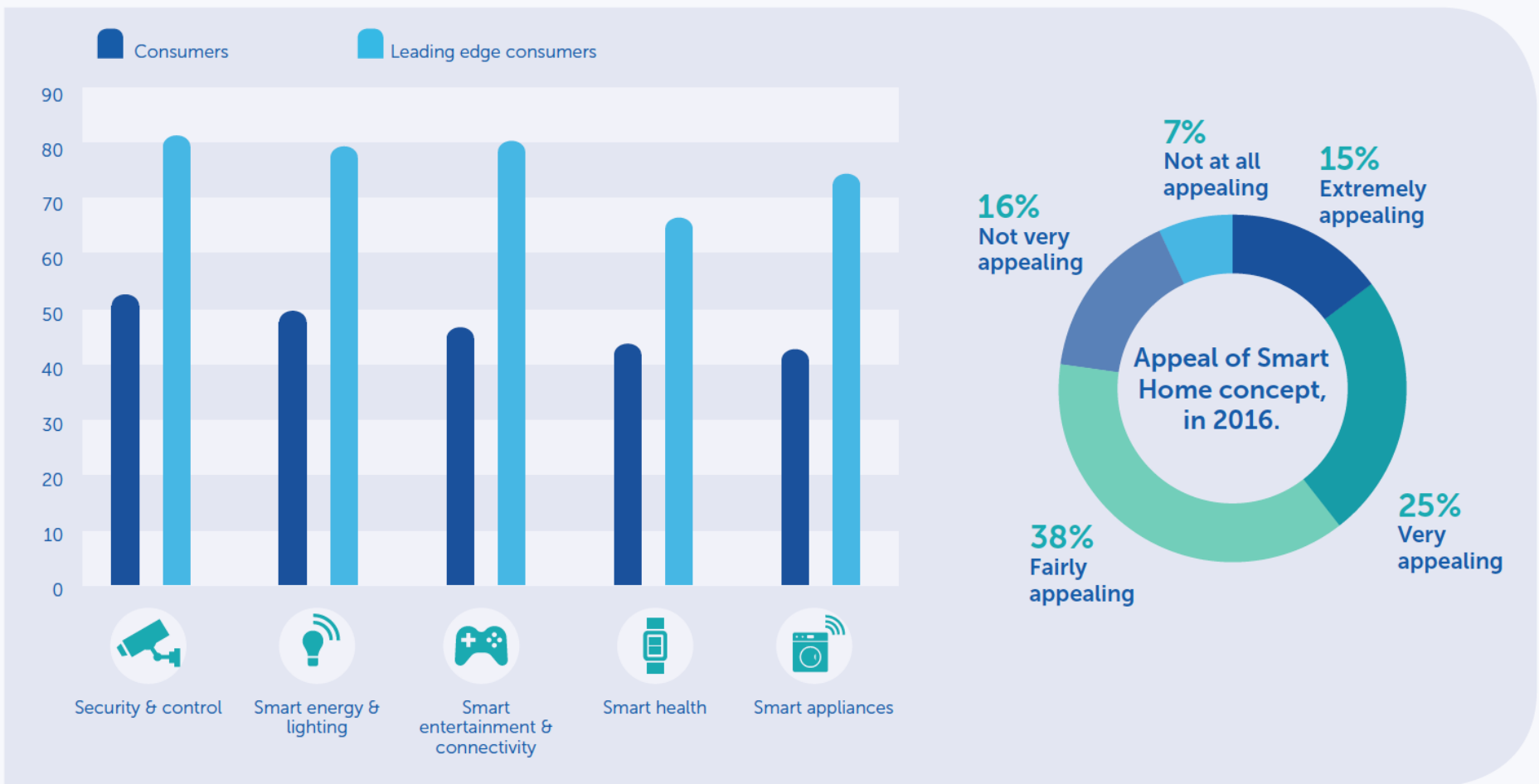
National Associations
in 24 countries



Smart Appliances – by the numbers



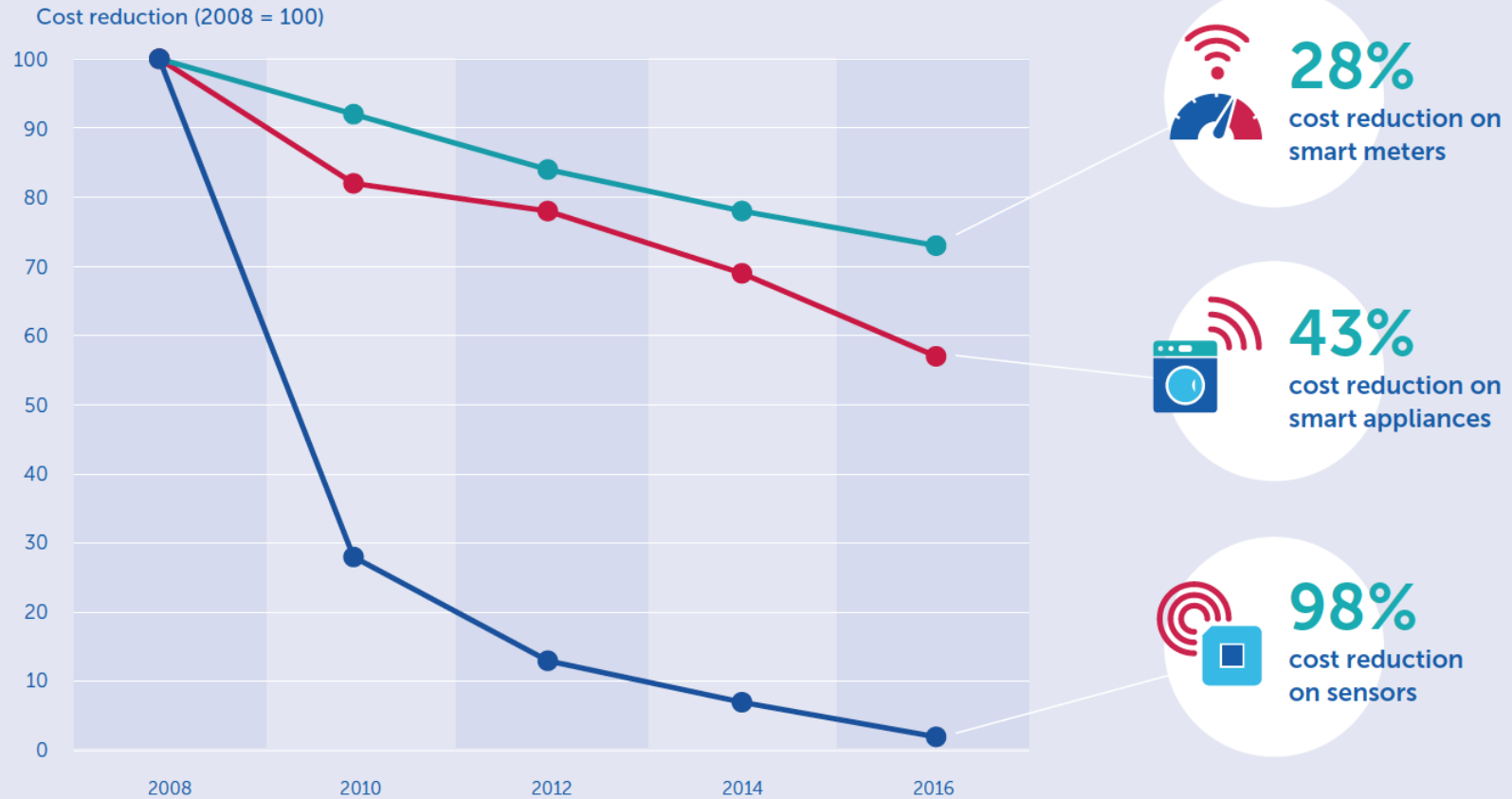
Appeal of Smart Home products



Appeal of Smart Home products categories, in 2015, in 7 markets (Brazil, China, Germany, Japan, South Korea, UK and USA). Leading edge consumers indicate market evolution.

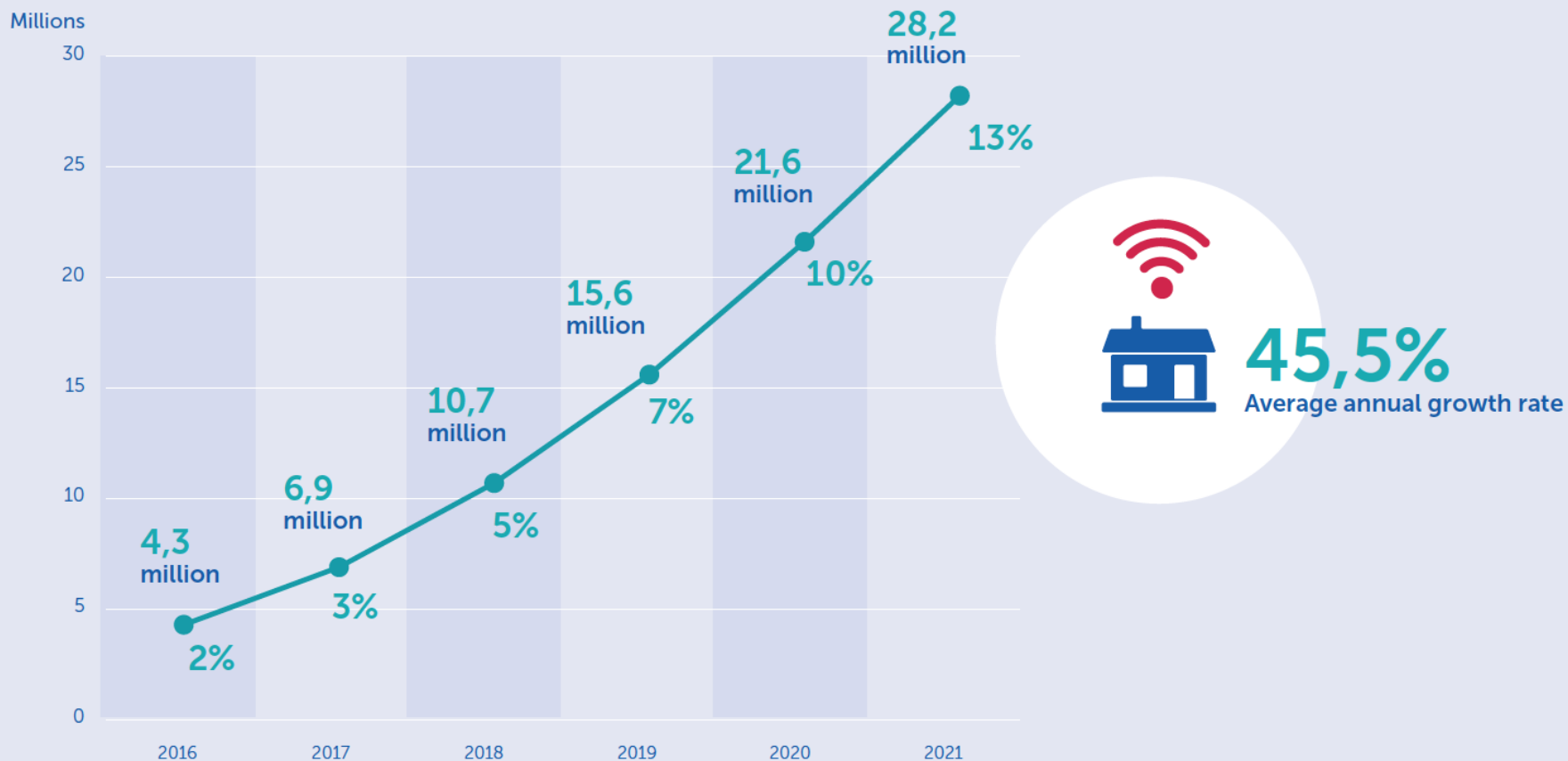
Source: GfK

Unit cost of a smart devices

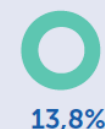
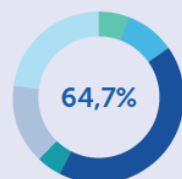
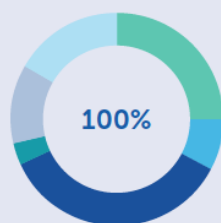




Number of Smart Homes, in Europe



Energy consumption in EU households



Total
Residential/
Households

Space heating

Space cooling

Water heating

Cooking

Lighting &
appliances

Other end uses

Electricity	25,1	3,9	0,5	2,8	2,8	13,8	1,4
Derived heat	7,8	6,0	0,0	1,8	0,0	0,0	0,0
Gas	35,3	27,4	0,0	6,1	1,8	0,0	0,0
Solid Fuels	3,4	3,1	0,0	0,3	0,0	0,0	0,0
Petroleum products	12,0	9,8	0,0	1,5	0,7	0,0	0,0
Renewables	16,4	14,6	0,0	1,4	0,3	0,0	0,1
Total	100,0	64,7	0,5	13,9	5,7	13,8	1,5

Revenue from Energy Management in a Smart Home



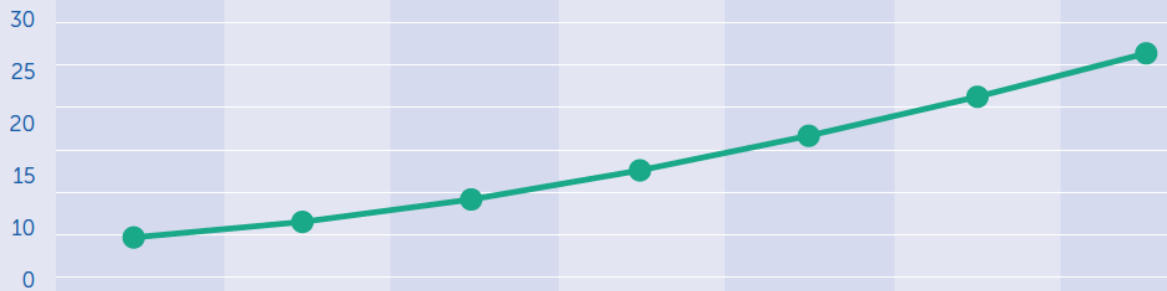
Revenue of smart appliances in Europe, in million Euro



35,72%

Average annual growth rate

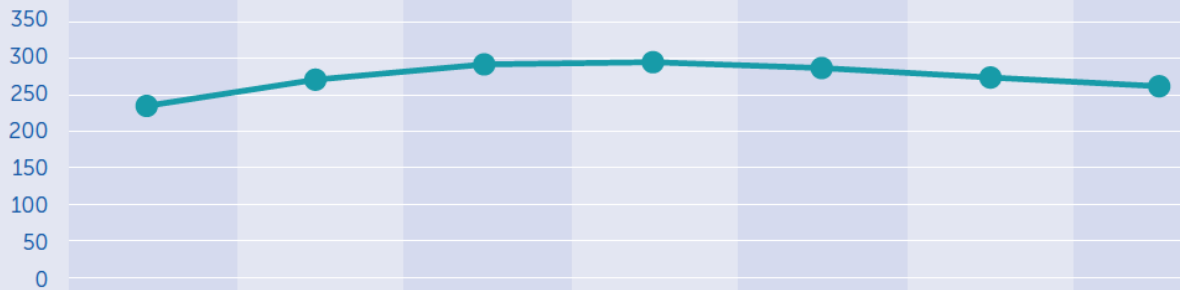
Users of smart appliances in Europe, in millions



33,29%

Average annual growth rate

Average revenue per user, in Europe, in million Euro



1,82%

Average annual growth rate

2016

2017

2018

2019

2020

2021

2022



EU Regulatory Framework

- **Definition of Smart Appliance**
- **Market Design**
- **Ecodesign for Smart Appliances**
- **Interoperability**
- **Data economy**

Definition of Smart Appliances



- Always related to Demand Side Management:

Capable of automatically changing and optimising consumption patterns in response to external stimuli, with the aim to improve the environmental impact of energy use over the whole energy system

10 priorities

01



A new boost for jobs, growth and investment.

02



A connected digital single market.

03



A resilient Energy Union with a forward-looking climate change policy.

04



A deeper and fairer internal market with a strengthened industrial base.

05



A deeper and fairer Economic and Monetary Union (EMU).

06



A reasonable and balanced free trade agreement with the United States.

07



An area of Justice and Fundamental Rights based on mutual trust.

08



Towards a new policy on migration.

09



Europe as a stronger global actor.

10



A Union of democratic change.



Market Design



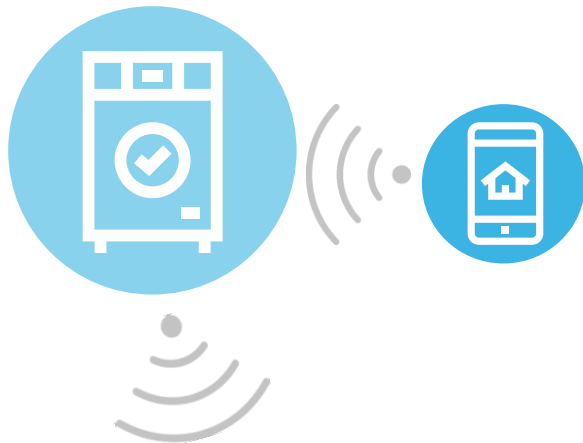
- Electricity Market Regulation + Electricity Market Directive
- To update the European electricity market, for increased electrification + renewables
- Includes clear and consistent provisions to empower consumers to participate in residential demand side management → open for any actor
- Flexible demand must be granted the same rights as energy production → remove barriers to the roll-out of initiatives to exploit residential DSF
- Financial compensation at the real market value of the service provided
- Ownership and privacy of consumer data

Ecodesign for Smart Appliances



- Since 2014: preparatory study on Ecodesign for Smart Appliances
- New term: Energy Smart
- For appliances covered by existing Energy Labelling Regulation: Energy smart icon on the energy label if the product complies with the criteria for energy smart functionality
- For appliances covered by existing Ecodesign Regulation: Energy Smart icon attached if the product complies with the criteria of energy smart functionality
- Preliminary conclusions: more work is needed, before any measures

Interoperability



Interoperability = the capability of the appliance to interact with third parties to enable Demand Side Flexibility Use Cases

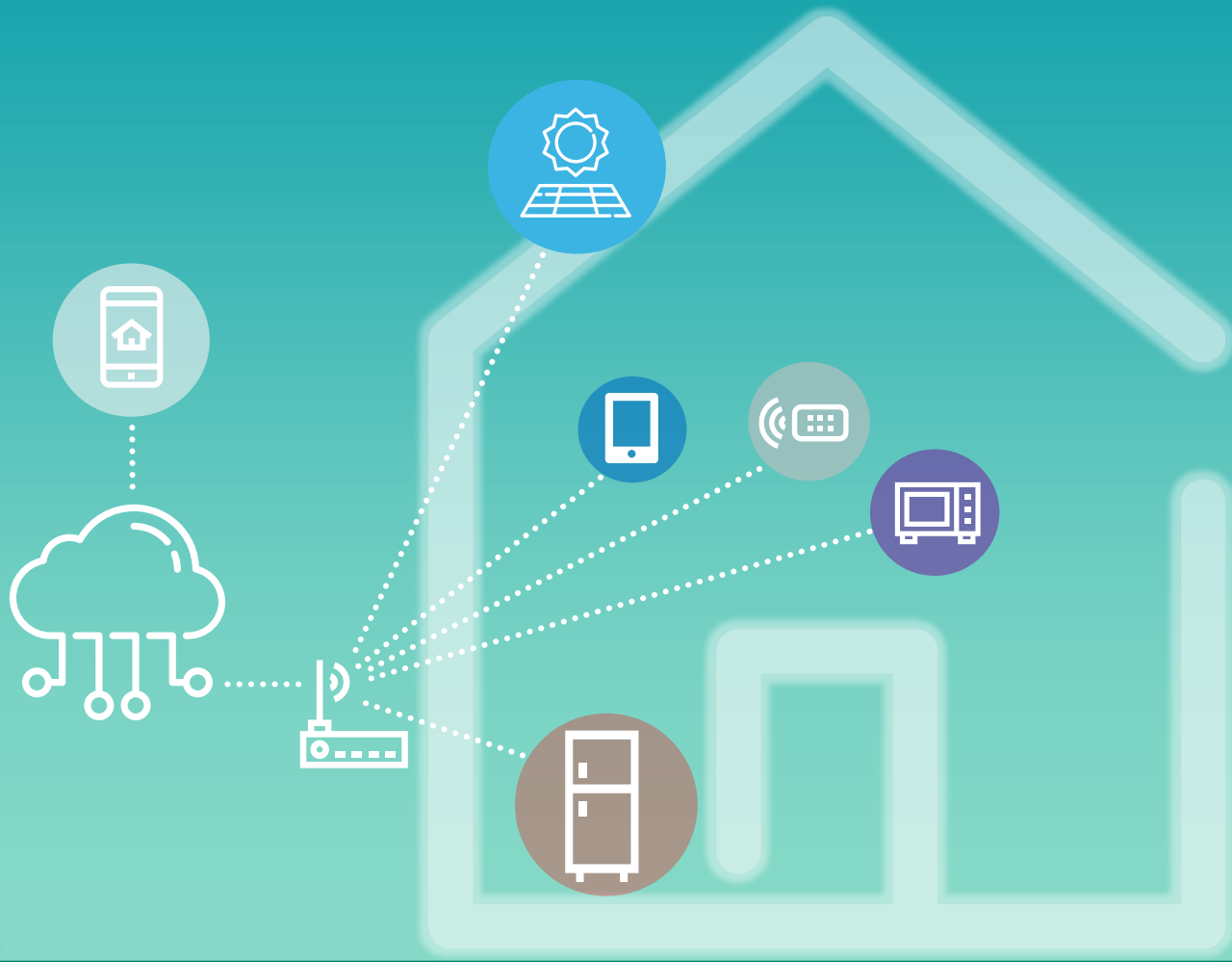
This definition is agreed within APPLiA and shared with all external stakeholders



Interoperability = **not** about giving others full control of the product!

CONSUMERS EXPECT SMART APPLIANCES TO BE PART OF A HOME ECOSYSTEM, AND TO HELP SAVE RESOURCES

“I want to control my different devices with a simple and central application, preferably also on the move”



How?



- Manage home consumption with the least effort from the consumers' side
- Reward and engage consumers to have an active role in the energy market
- Smart meters, smart appliances, EV, HVAC able to be coordinated by a single entity: the energy manager



Data Economy



- General Data Protection Regulation (GDPR) → 25 May 2018
- E-Privacy Regulation → draft
- Cybersecurity Act → draft

Thank You

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