







# **SMART PRODUCTS REPORT 2020:** TOP 15 INSIGHTS

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Recent developments in the fields of robotics and artificial intelligence resulted in fundamental changes of today's household products; they are becoming increasingly "smarter". This study deals with the prevalence and perception of smart products in Switzerland. Smart products are defined as products for private usage that have the ability to collect and process data in order to react to their environment. Smart products are thus increasingly able to operate and undertake tasks autonomously. The study distinguishes five product categories: household, entertainment, health and sports, home automation, and mobility (the smartphone is excluded from the entire study). Smart products provide novel amenities, but they also carry risks. In addition, the relationship of consumers and products changes fundamentally, as the results of the study show. For example, the assignment of nicknames and the description of interactions with smart products as "collaboration" indicates that, as technology develops, the relationship between humans and technology is also changing. Overall, the results of the study show that these changes have already been well received in Switzerland and will continue to do so.

- 1. 72% of Swiss people already own smart products (hereafter "users").
- Swiss people are showing great interest in buying smart products in the future. 59% of respondents stated that they could imagine buying at least one smart product within the next 12 months. It is expected that 81% of the Swiss population will own at least one smart product by the end of 2020.
- The most common smart products in Switzerland are smart TVs (30% of Swiss people), smartwatches (28%), smart navigation systems (25%), and robotic vacuum cleaners (20%).
- 4. Differences in terms of willingness to buy:
  - 70% of users,
  - 46% of Swiss people who have only tested smart products, and
  - 27% of Swiss people who have never tested a smart product

indicate that they can well imagine buying at least one smart product within the next 12 months.

- Smart products that Swiss people plan to buy in the next 12 months are smart lights (15% of Swiss people), robotic vacuum cleaners (15%), smart speakers (13%), and smartwatches (13%).
- In general, the majority of the Swiss population holds a rather positive attitude towards smart products.
- Almost a quarter [24%] of users assign **nicknames** to their smart products.
- The interaction with smart products is perceived as "collaboration", whereby users are more likely to have the impression that product and person work together than non-users. Furthermore, the participants indicate that the person rather leads the activity than the product.
- The three **major advantages** of smart products are:
  - a. A high convenience factor
  - b. Following trends and technology
  - c. Saving time for other activities
- 10. Swiss people have the impression that using smart products in tendency leaves more time for other activities. On average, it is estimated that 2h/week can be saved. The respondents state that they would use the time gained mainly for their leisure time, to relax, and with their family.

- 11. The three major disadvantages of smart products are:
  - a. The collection of personal data
  - **b.** High **costs** (acquisition, maintenance, etc.)
  - c. Concerns that life is becoming too focused on smart products
- 12. Trust is a very important aspect for Swiss people when it comes to smart products. Factors that increase trust in smart products are:
  - a. To have the opportunity of intervention at any time
  - b. Data released by the smart product will only be used for the intended purpose
  - c. A certification of the smart product
- 13. In general, Swiss people tend to prefer smart products to act autonomously. Nevertheless, the opportunity for intervention is very important to them. They also want smart products to be interconnected and able to communicate with each other.
- 14. Swiss people prefer to become aware of smart products primarily through personal recommendations, retail stores or the homepage of the manufacturer/ distributor.
- 15. The German-speaking part of Switzerland indicates a greater fascination for smart products. In contrast, Western Switzerland expresses greater anxieties, such as fear with regard to smart products.

### Study design

- · Quantitative online survey in French, German, and Italian
- Representative Swiss sample (N = 1004)
- Online panel of the intervista institute
- Data collection: September 12 to September 30, 2019
- Mean age: 48 years
- Gender: 52% female, 48% male

Swiss people	
User	Non-User
Mean age: 46 years	Mean age: 52 years
• 49% female, 51% male	• 58% female, 42% male
• 66% German-speaking	• 75% German-speaking
26% French-speaking	21% French-speaking
8% Italian-speaking	4% Italian-speaking

### Access to detailed report

http://www.smartproducts.org | http://www.swissconsumerstudies.ch

Zimmermann, Jenny L., Melanie Clegg, Emanuel de Bellis, and Reto Hofstetter (2020), Smart Products Report 2020, University of Lucerne and University of St. Gallen.

## Further reading

de Bellis, Emanuel and Gita Venkataramani Johar (2020), "Autonomous Shopping Systems: Identifying and Overcoming Barriers to Consumer Adoption," Journal of Retailing, forthcoming.

Porter, Michael E. and James E. Heppelmann (2014), "How Smart, Connected Products Are Transforming Competition," Harvard Business Review, 92 (11), 64-88.

Rijsdijk, Serge A. and Erik Jan Hultink (2009), "How Today's Consumers Perceive Tomorrow's Smart Products," Journal of Product Innovation Management, 26 (1), 24-42.