

# RETAIL SECURITY IN ITALY

*A study on thefts, robberies  
and new security solutions*

## EXECUTIVE SUMMARY

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## Aim and methodology

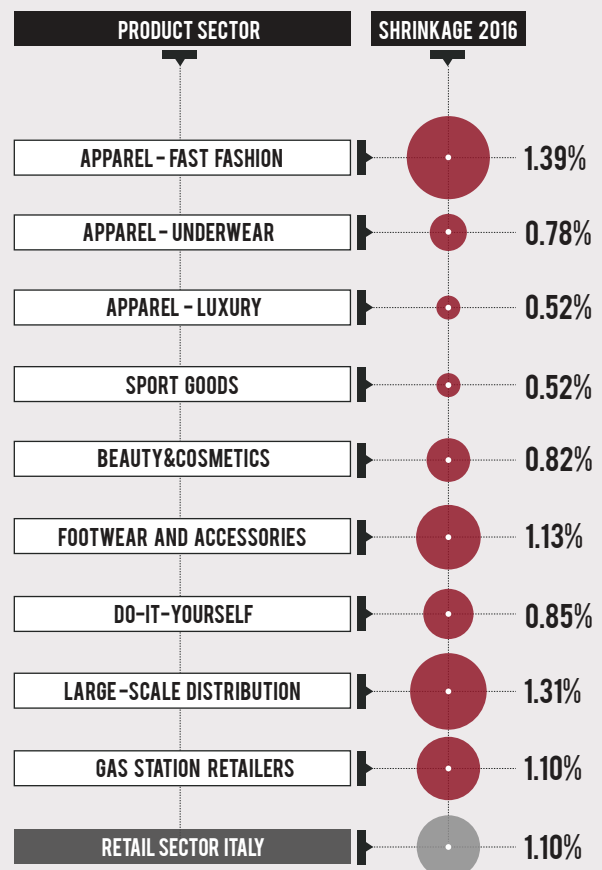
- ▶ This study has been carried out by **Crime&tech**, spin-off company of Transcrime – Università Cattolica del Sacro Cuore, with the collaboration of **Laboratorio per la Sicurezza** and the support of **Checkpoint Systems**.
- ▶ It focuses on the analysis of thefts, robberies and security solutions in the retail industry in Italy. The study analyses:
  - **Shrinkage** as a percentage of the turnover;
  - Differences among **regions, sectors** and **location** (shopping malls vs commercial streets);
  - **Socio-demographic, economic** and **criminal** contextual factors related with shrinkage;
  - The most recurrent **modi operandi** and **offenders** involved in **external thefts**;
  - The most common types of **internal thefts** (i.e. committed by dishonest employees);
  - **Prevented thefts** by area and store location;
  - **Security solutions** adopted among the different sectors.
- ▶ The study combines **two different** but complementary **sources of information** and two methods of **data collection**.
  - **Method 1**: quantitative and qualitative information at company level collected through an online questionnaire (coverage: 30 companies, 8,140 estimated stores, 11.5% of total turnover of the Italian retail sector);
  - **Method 2**: quantitative and qualitative information at a single point of sale level, shared directly by companies (coverage: 12 companies, 1.088 stores, 2.9% of total turnover of the Italian retail sector).

## The results

### Shrinkage, *modi operandi* and most stolen items

- ▶ In 2016, shrinkage accounted for **1.1% of turnover** for retail companies in Italy on average. A figure that is worth about **2.3 billion euros**.
- ▶ A few product sectors (e.g. Apparel – Fast fashion, Large-scale distribution, Footwear and accessories) recorded figures higher than the mean; whereas other sectors lower figures (e.g. Apparel – Underwear, Do-it-yourself, Sport goods) (Figure A).

Figure A – Shrinkage by product sector, mean % of turnover. Year 2016



- ▶ The results generally indicate a **decrease of shrinkage** in recent years. However, for some sectors shrinkage is increasing for the years 2014-2016 (i.e. Luxury, Footwear, Beauty&Cosmetics).
- ▶ **Campania** is the region with the highest value (1.4%), followed by **Apulia** (1.4%) and **Emilia Romagna** (1.3%).
- ▶ Some territorial clusters have been identified: for instance, the **lower Padana road** between Alessandria and Bologna, **Bari** and **Brindisi** provinces and the area between **Naples** and **Cosenza**. These are large-scale interregional areas crossed by important roads and motorways (Figure B).
- ▶ On average, **shrinkage is higher** in stores located in less densely populated areas, in smaller municipalities with lower GDP per capita and a higher unemployment rate and incidence of young people aged between 11 and 20 years.
- ▶ Shrinkage tends to be higher in **stores within shopping malls**. This emerging pattern may depend on certain characteristics of shopping malls, for instance: greater crowding, lower customers/visitors conversion rate, and more complex surveillance activities.
- ▶ The main cause of shrinkage is **external theft**, followed by internal theft by dishonest employees and supplier fraud along the supply chain. The least relevant cause was administrative/accounting errors.
- ▶ Organised thefts committed by micro-gangs of 2-3 persons and by more organised criminal groups are increasing (especially for night-time intrusions).
- ▶ The majority of external thefts are committed by **men aged 18-25** and **26-40** (especially for Gas station retailers and those specialised in DIY, Sport goods and Apparel – Luxury) and **women aged 26-40** (especially for Beauty&Cosmetics, Footwear and Apparel in general). Concerning nationality, offenders are mainly from Eastern European countries.
- ▶ Shoplifting committed with **booster bags** (crafted with aluminium foil or similar to circumvent anti-shoplifting barriers) seems to be the most recurrent *modus operandi*.
- ▶ The **most stolen items** vary according to the product sectors. The most desirable are those **small** products with a **high value** per volume, which have a **single size** and **greater popularity** among consumers (Figure C, p.14).

Figure B – Shrinkage by province, mean % of turnover. Top 10 provinces. Year 2016

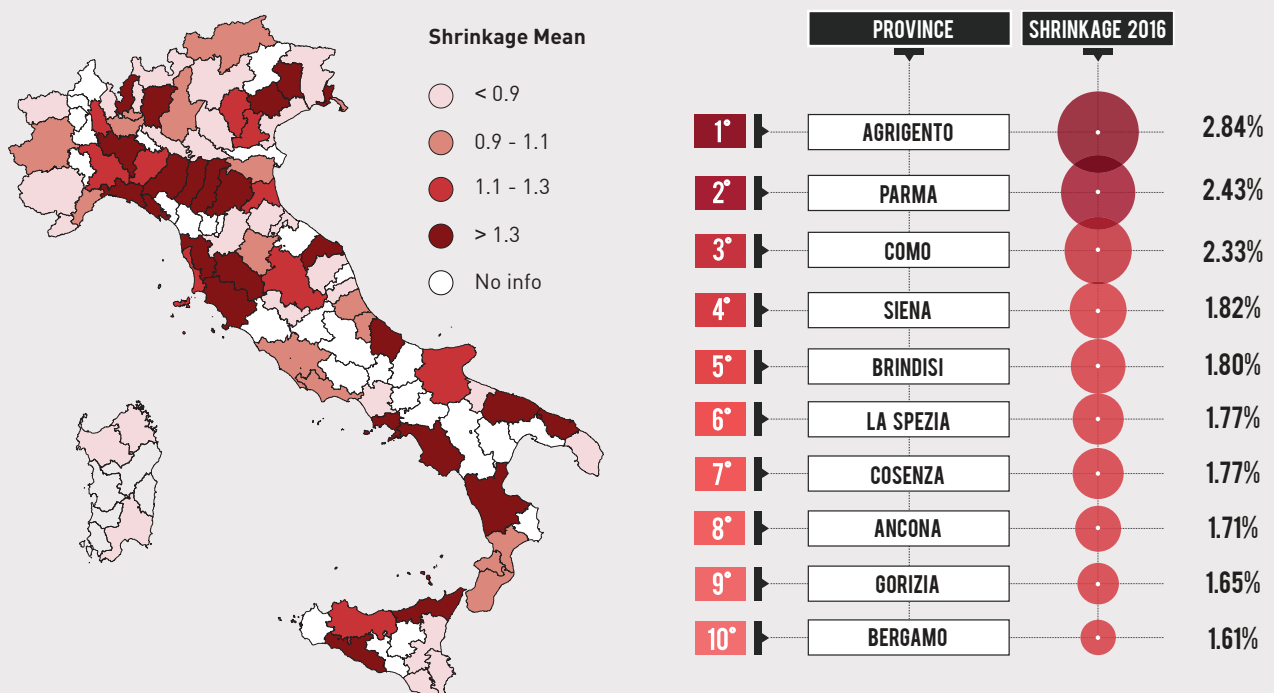
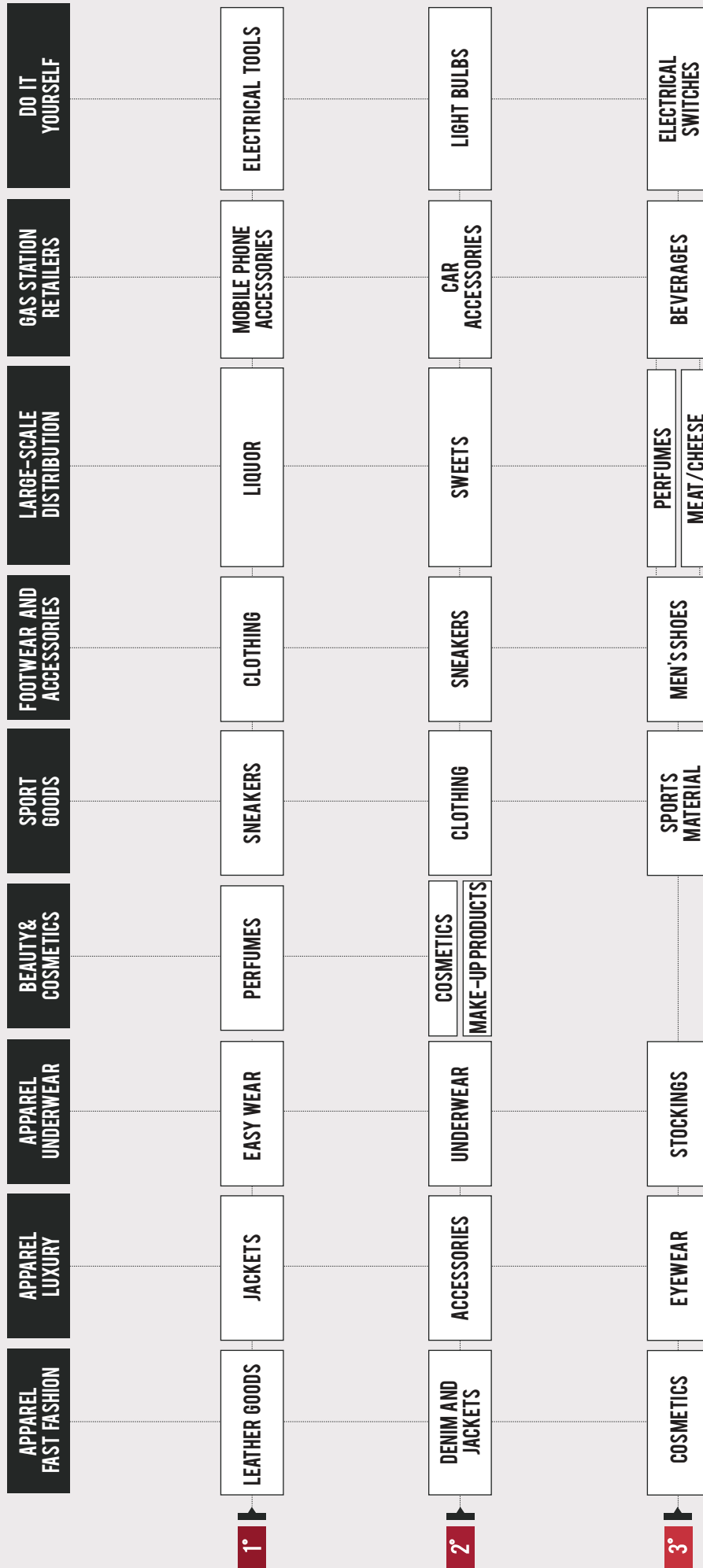


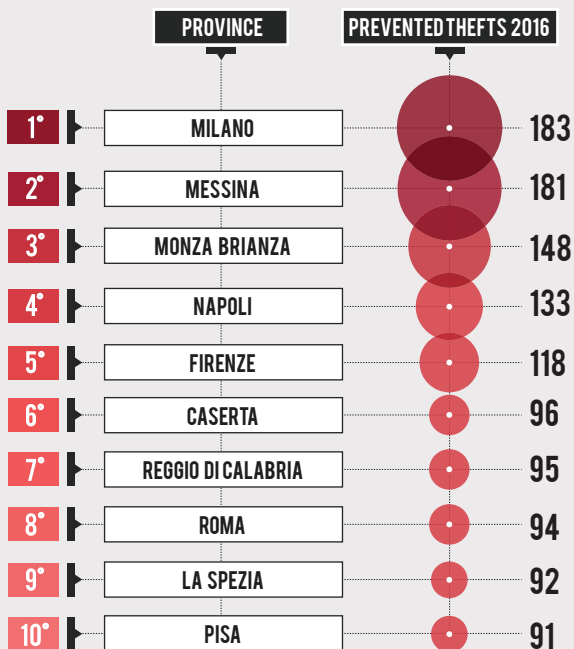
Figure C - Top 3 most stolen items by incidence on the economic value of shrinkage. Year 2016



## Counter measures and loss prevention system

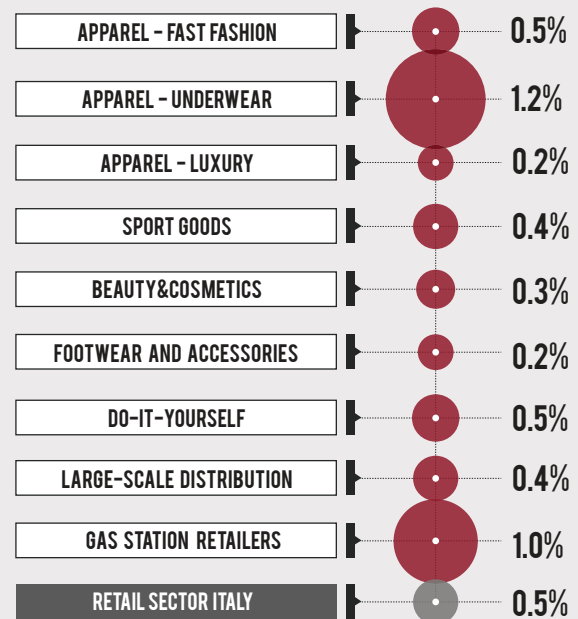
- ▶ In 2016 Italian retail companies scored **83 prevented thefts per shop on average**.
- ▶ The North-West of Italy scored the highest mean of prevented thefts. Among regions, **Lombardy** is at the first place (134 prevented thefts per shop) and among provinces **Milan** registered the highest figure (183) (Figure D).

Figure D – Prevented thefts in the retail sector by province. Mean value per store. Year 2016



- ▶ Different from the pattern observed for shrinkage, prevented thefts are more numerous in shops located in larger and richer municipalities **close to bigger urban areas**: it seems that those shops concentrate the majority of investments for security and loss prevention solutions.
- ▶ There are **more prevented thefts in shops located in commercial streets of cities** (104 every year on average) than in those located in shopping malls (67).
- ▶ Italian retail companies spend about the **0.5% of the turnover** on security and loss prevention solutions. There are remarkable differences among product sectors (Figure E).

Figure E – Total expenditure on security and loss prevention by product sector. Mean % of turnover. Year 2016



- ▶ According to the responding security managers, only a **combination of different security solutions** in the same shop can provide a more effective protection.
- ▶ Among the most widely used solutions there are **CCTV** (100% of respondents), followed by **third-party alarm monitoring** (89%), anti-shoplifting **hard tags and labels – EAS** (83%) and unarmed security guards (83%).
- ▶ If anti-shoplifting solutions favour the deterrence mainly against **occasional thieves** and are quite cheap compared to other solutions, security guards have a higher **detering effect** but also maintenance costs. CCTV is very useful to trace thefts after the event but entails higher costs and difficulties in terms of privacy and data confidentiality.
- ▶ New **innovative solutions** are emerging, such as anti-shoplifting devices able to detect booster bags, 'selling guards' and predictive software to detect, in real time, which are the shops most exposed to risk.

### The economic impact on companies and citizens

- ▶ The total economic cost of losses (obtained as the sum of shrinkage cost and security and loss prevention cost) for the retail sector in Italy is equal to **1.6% of the turnover** (Figure F).
- ▶ It can be estimated at **3.4 billion euros**. If this value indicated company revenues, it would rank fifth among those of Italian retail companies.
- ▶ This figure corresponds to **26 million euros** per each of the top 50 Italian retail companies considering turnover and **56 euros per capita** for Italian citizens (Figure G).

### The implications for research and private and public sector

- ▶ This study is only the first step towards a deeper understanding of the **risks** of losses in the Italian retail sector and **countermeasures**.
- ▶ In order to improve the analysis, it would be useful to have data with the **highest level of detail** and **better quality** (for instance information on shop characteristics, visitors, staff and security solutions adopted in each store).
- ▶ On the other hand, it would be necessary to set a **continuous collaboration** among universities, retailers, providers of security solutions and the public sector: a **shared knowledge** about security.

Figure F – Total cost of losses by sector, Mean % of turnover. Year 2016

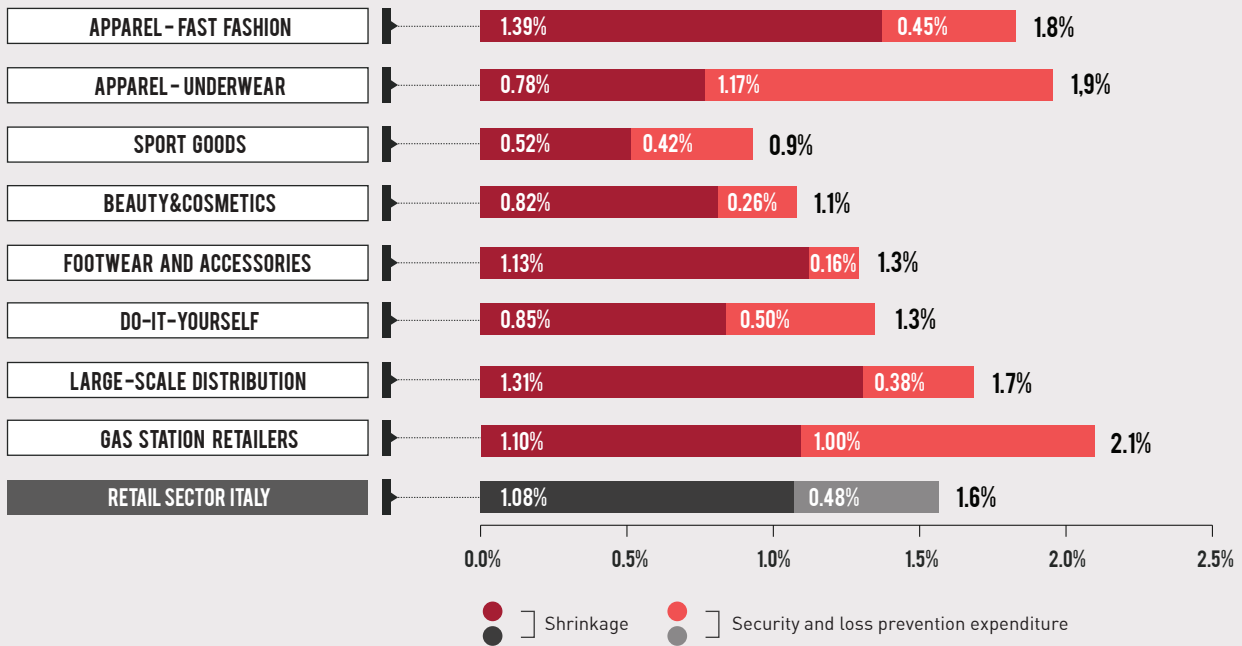


Figure G – Total economic cost of losses in the retail sector in Italy

