

The children's apparel, toys and hardware (ATH) markets in Poland, Romania and Ukraine

Study extract



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A. Introduction



The ATH markets (0-14-year-old children) in all three countries are growing strongly and exhibit similar development paths

Executive summary (1/2)

1 Market overview

- > **Measured by the key ATH market drivers of annual spend per child and disposable income, Poland, Romania and Ukraine** are significantly behind Western European countries in their development and therefore continuous strong growth is expected to catch up with more developed countries
- > **ATH market growth in local currency** in all three countries is **forecast to accelerate through 2022** in comparison to the last five years – Similar positive trend expected in EUR currency, except for Ukraine, as a result of the considerable local UAH devaluation due to the political/economic crisis in 2014-15
- > Forecast **real GDP growth and decreasing unemployment rates in all the countries** are expected to **positively impact disposable income**. As a result, **annual spend per child is forecast to grow significantly** in all three countries – at c. 6% CAGR in Poland, c. 8% in Romania, c. 9% in Ukraine
- > The **number of children is forecast to continue increasing in Poland** thanks to government-led pro-birth legislation, while in the other countries the number of children is forecast to fall slightly
- > **In Poland, the narrowing gap between disposable income in larger and smaller cities drives future opportunities** beyond the big cities. In other countries, the income gap is widening (in Romania this trend is expected to reverse). Consequently, in Poland there is an **expectation of further growth in medium-size and smaller cities**. In Romania, several brands have started exploring **larger store formats, with a focus on big cities**. Ukraine is still at the **beginning of this trend, with comparatively fewer shopping malls** and shopping mall rollout driving the market
- > **In all three countries, children's apparel is the largest category in ATH**, accounting for 58% in Poland, 63% in Romania and 62% in Romania, **followed by toys and hardware**. Age structure is a key market driver for hardware and some subcategories within toys
- > **Online players, children's one-stop shop chains and fashion chains are forecast to have the highest growth in share**, with gains coming from "other players" as well as the decline in the gray and second-hand market
- > In the **ATH market**, key customer selection criteria for retailers include wide product assortment, brand awareness and convenience in shopping experience, including omnichannel, with growing importance of Click & Collect services. This has **led to the increasing importance of one-stop chains in the market**
- > The **ATH online sales channel is becoming more and more important and is expected to have a significant share of the market in the future**, driven by the **increase of Internet penetration, key players' online strategy and customer preference for omnichannel availability**. This channel type offers convenience – families with children lack time and seek a broad offering and availability, expectations which are mainly met by large shops with omnichannel capability. In all three markets, the online sales channel is dominated by one large pure online player (i.e. Allegro as a marketplace in Poland, eMag in Romania, Rozetka TOV in Ukraine) with key players expected to challenge their position through omnichannel expansion. Currently, there is no evidence that global online players, like Amazon, are planning to enter these markets

Children's one-stop chains and online retailers have been and are forecast to be the fastest growing segments in the three countries

Executive summary (2/2)

2

Players in the market

- > One-stop shop specialists, grocery retailers and online players generally **cover all three ATH product categories**, while children's specialist chains and fashion chains are generally focused on only one main product category
- > The **Polish market is relatively consolidated** (top 5 players hold c. 42%) **and dominated by two large players** – a children's one-stop chain (Smyk, c. 12% market share) and a pure online player (Allegro as a marketplace provider, c. 12% market share). Both have experienced high growth over the past five years equal to c. 15%. The remaining market is split between many smaller players or big companies that generate low revenues from ATH sales, like grocery chains that are strong in toys and hardware categories and fashion chains that lead the apparel category
- > **Romania's market is moderately consolidated** (top 5 players hold 27%), **led by one large player** – a grocery chain (Carrefour with over 7% market share) and four medium-size players – a grocery chain (Auchan), a pure online player (eMag), and two children's one-stop chains (Jumbo, Noriel) with c. 5% share
- > The **Ukrainian market is the least consolidated** (top 5 players hold 14%) **and dominated by two large players** – a children's one-stop chain (Antoshka, 6% market share) and a grocery hypermarket chain (Auchan, 4% market share)
- > **Players cover the full market spectrum in terms of breadth of product assortment and level of child focus** – The largest share of ATH revenues comes from chains with high SKU number. In Poland and Romania, in the apparel market, modern retailers position themselves at the high and low end of the price/fashion spectrum leaving limited space for independent shops, but in Ukraine they are mainly in the upper range leaving room for independents at the low end

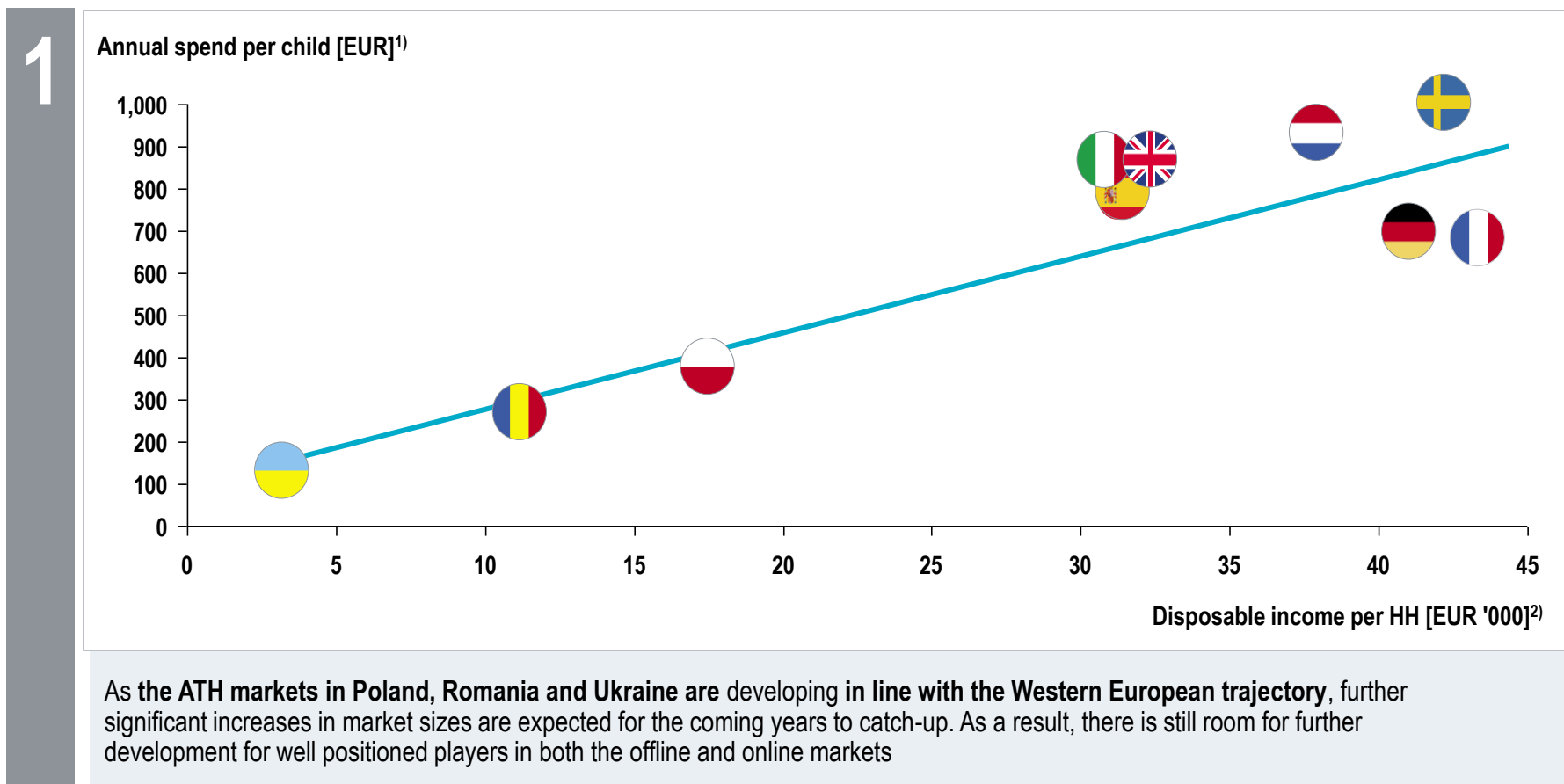
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Market segment development

- > **Online players, children's one-stop shops and fashion chains are expected to continue on their high-growth** trajectory in all three countries (annually between 11% -19% for online players; 8% - 12% for one-stop shops; 7% - 12% for fashion chains)
- > **Future growth of grocery stores is expected to slow down**; their strong position seems to be higher in the countries with comparatively low disposable incomes (Romania, Ukraine)
- > **Online players' and the online omnichannel players' revenue share** is expected to record **high growth in all countries** of between 15.5% and 22% CAGR
- > The market share of **children's specialist chains is expected to erode over the coming years** in all countries, mainly due to customers' preference for wide SKU offerings from chains
- > Other traditional players are **expected to lose their market share** in all three countries as they become less competitive in price, quality and location
- > Growth of modern retail chains is expected to be supported by **growing number of shopping centers and retail parks in all three countries**

The three countries are heading towards Western European levels, but they are at different stages of ATH market development

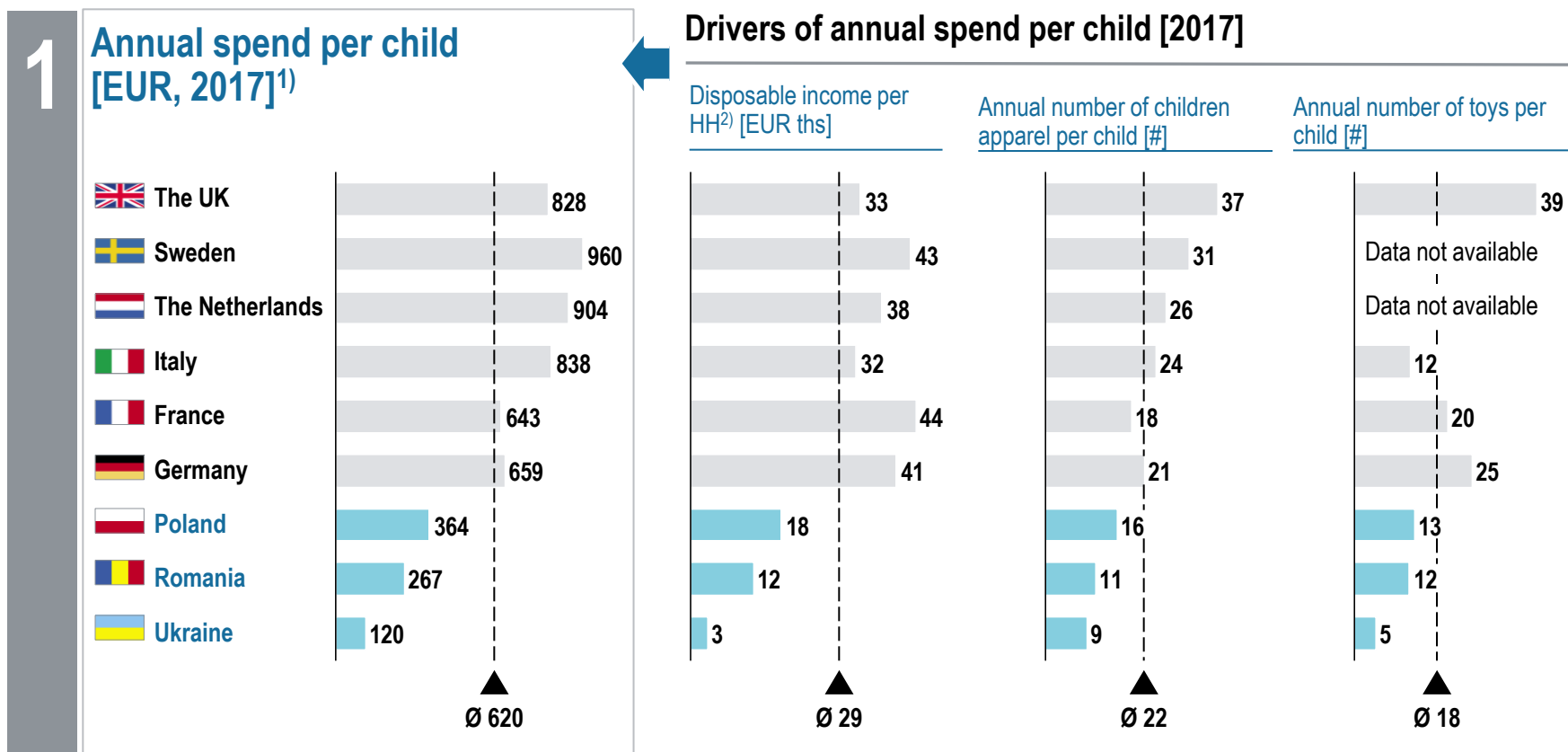
ATH market development in the market maturity cycle



1) On ATH products 2) HH: household

Annual spend per child in Poland, Romania and Ukraine is below the average of selected Western European countries

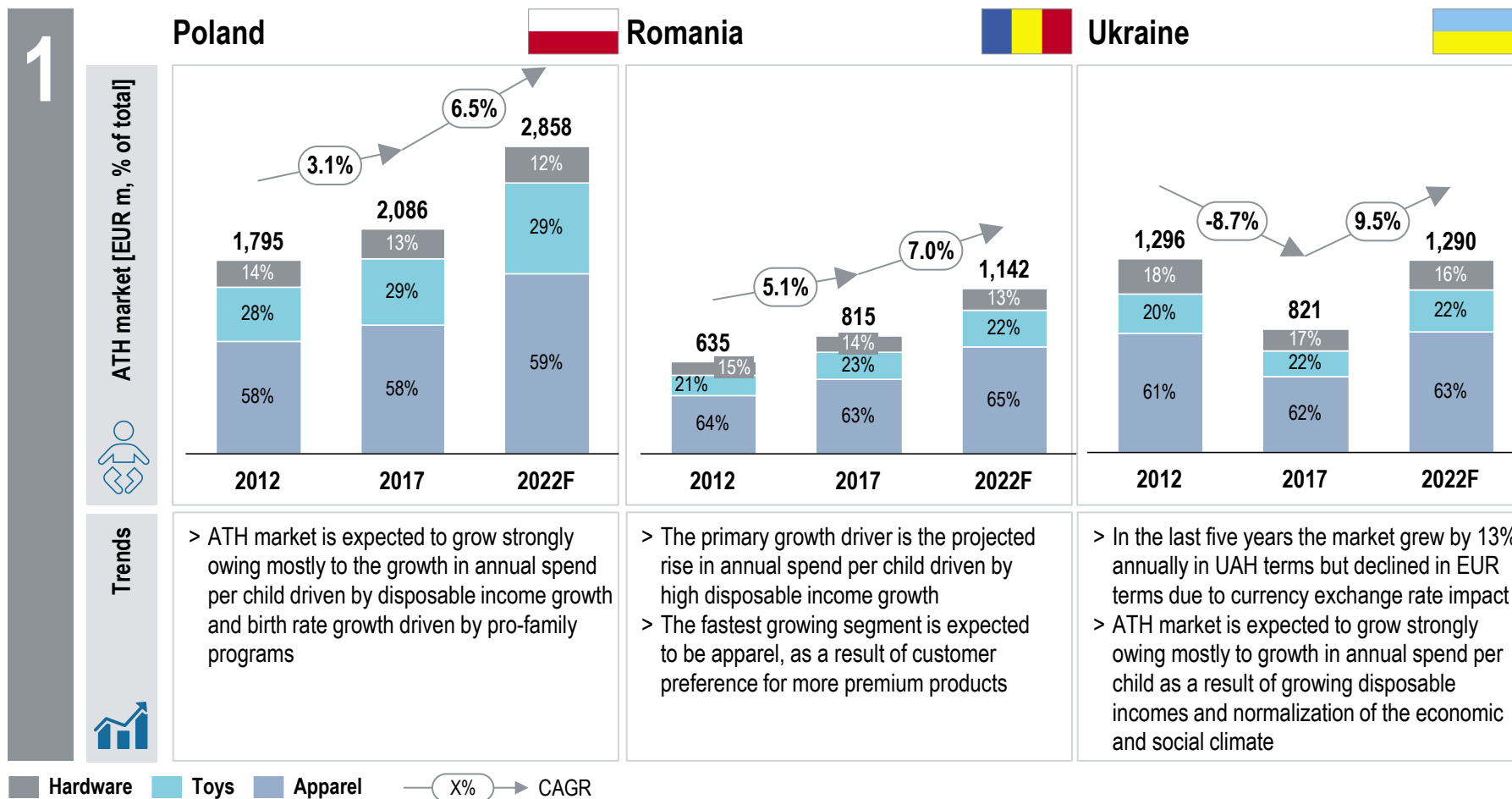
Comparison of selected indicators to those for selected Western European countries



1) On ATH products 2) HH: household



























ATH market is forecast to accelerate through 2022 in Poland and Romania and recover after the crisis in Ukraine

ATH market value, dynamics and trends



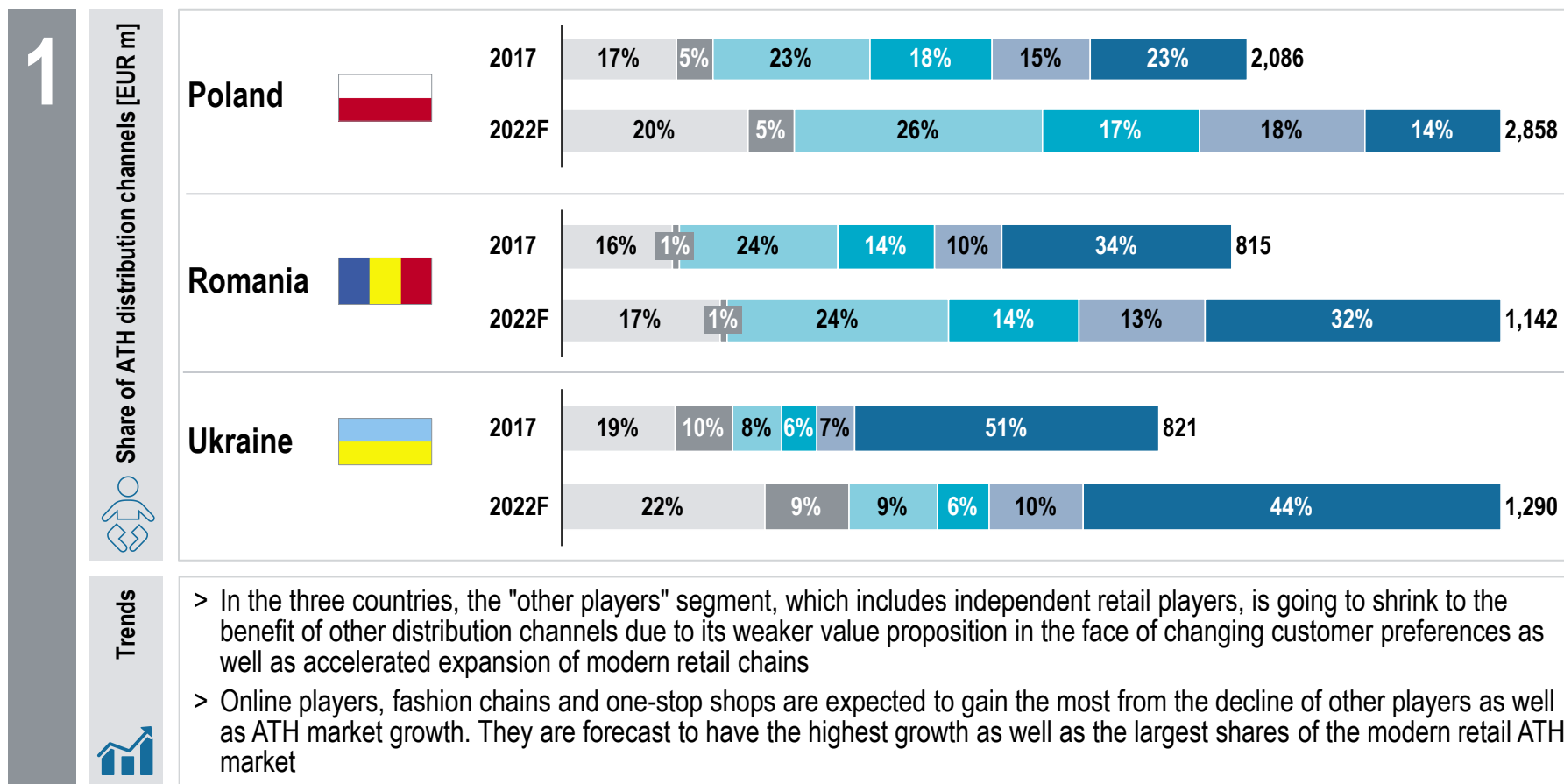
In all three countries, consumers prefer ATH one-stop shop retailers with a strong online presence, broad SKU range and moderate prices

Key trends and customer criteria

1	Key trends and customer criteria 	Poland 	Romania 	Ukraine 			
		<p>Key positive trends</p> <p>Omnichannel Location</p>	<p>Main criteria for choosing retailers</p> <ul style="list-style-type: none"> Multichannel availability  One-stop shopping  Wide SKU range  Retail brand  Price  Sales counseling/advice  Commercials/marketing  	<p>Key positive trends</p> <p>Omnichannel SKUs Product brand Location</p>	<p>Main criteria for choosing retailers</p> <ul style="list-style-type: none"> Multichannel availability  One-stop shopping  Wide SKU range  Retail brand  Price  Sales counseling/advice  Commercials/marketing  	<p>Key positive trends</p> <p>Omnichannel SKUs Product brand Location Private label</p>	<p>Main criteria for choosing retailers</p> <ul style="list-style-type: none"> Multichannel availability  One-stop shopping  Wide SKU range  Retail brand  Price  Sales counseling/advice  Commercials/marketing 
		<p>Trends </p> <p>> One-stop shopping, availability of a wide range of SKUs and omnichannel presence are crucial for choosing retailers. For consumers, a strong retail brand increases the perceived quality of products sold by the respective retailer. Increasing marketing spend seems not to be as important to customers</p>	<p>> SKU range, one-stop shopping and multichannel availability appear to be the most important characteristics for ATH retailers</p> <p>> The growing preference for higher quality products strongly contributes to market development</p>	<p>> Consumers favor branded products, at the same time price is still the most important purchasing criterion across the board, resulting in a key role for own brands</p> <p>> As in the other countries, SKU range, one-stop shopping and omnichannel availability appear to be important for ATH retailers</p>			

Online players, children's one-stop shops and fashion chains are forecast to see the highest market share growth resulting from other players' decline

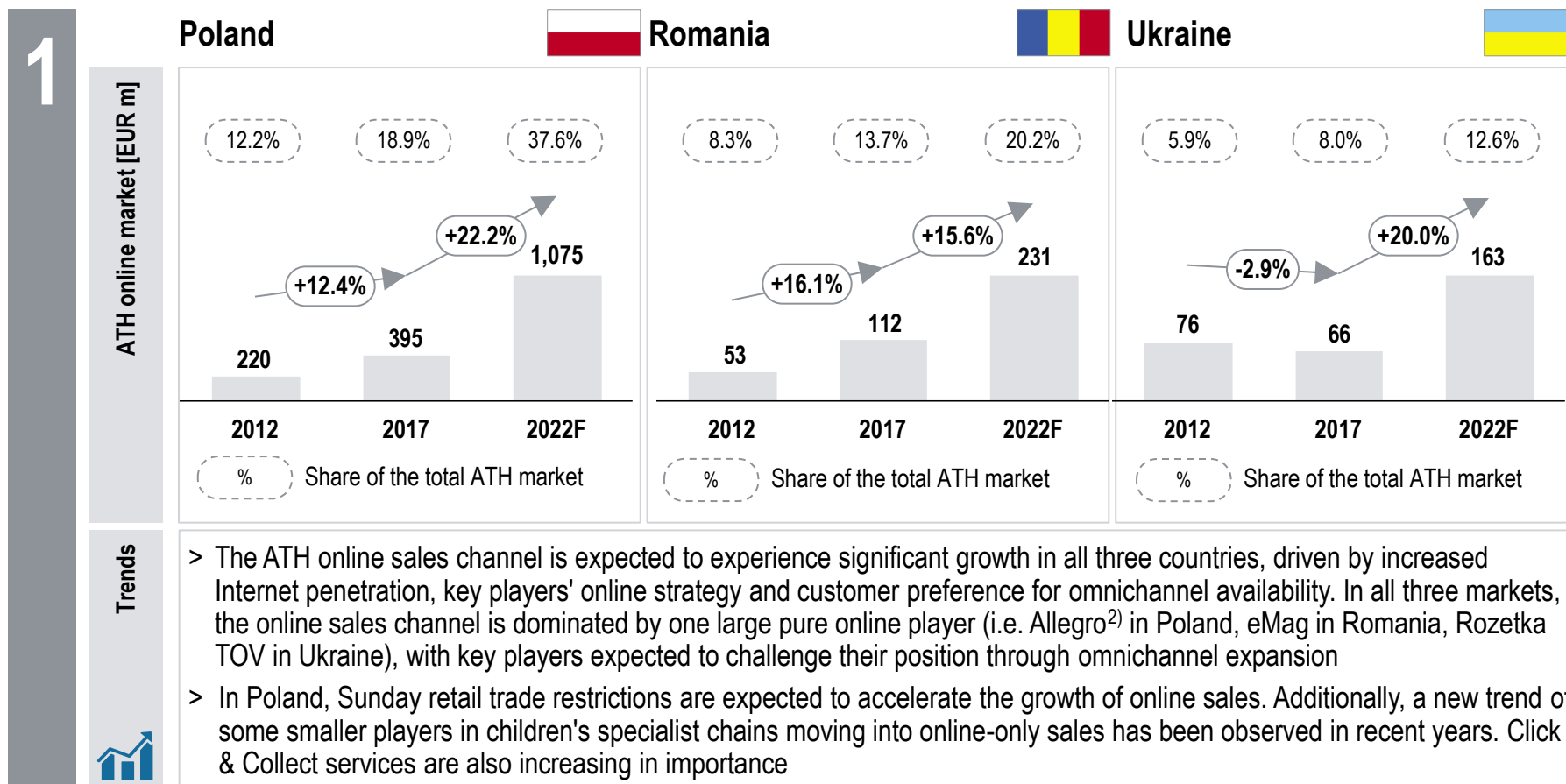
Share of ATH distribution channels, 2017-2022F [EUR m, % of total]



Children one-stop chains Children specialist chains Fashion chains Grocery chains Online players Other players

ATH online market¹⁾ in all three countries is forecast to grow due to both total e-commerce market and total ATH market growth

ATH online market¹⁾ value, dynamics and trends



1) Including pure online players and online revenues of other players 2) Allegro as a marketplace — X% —> CAGR

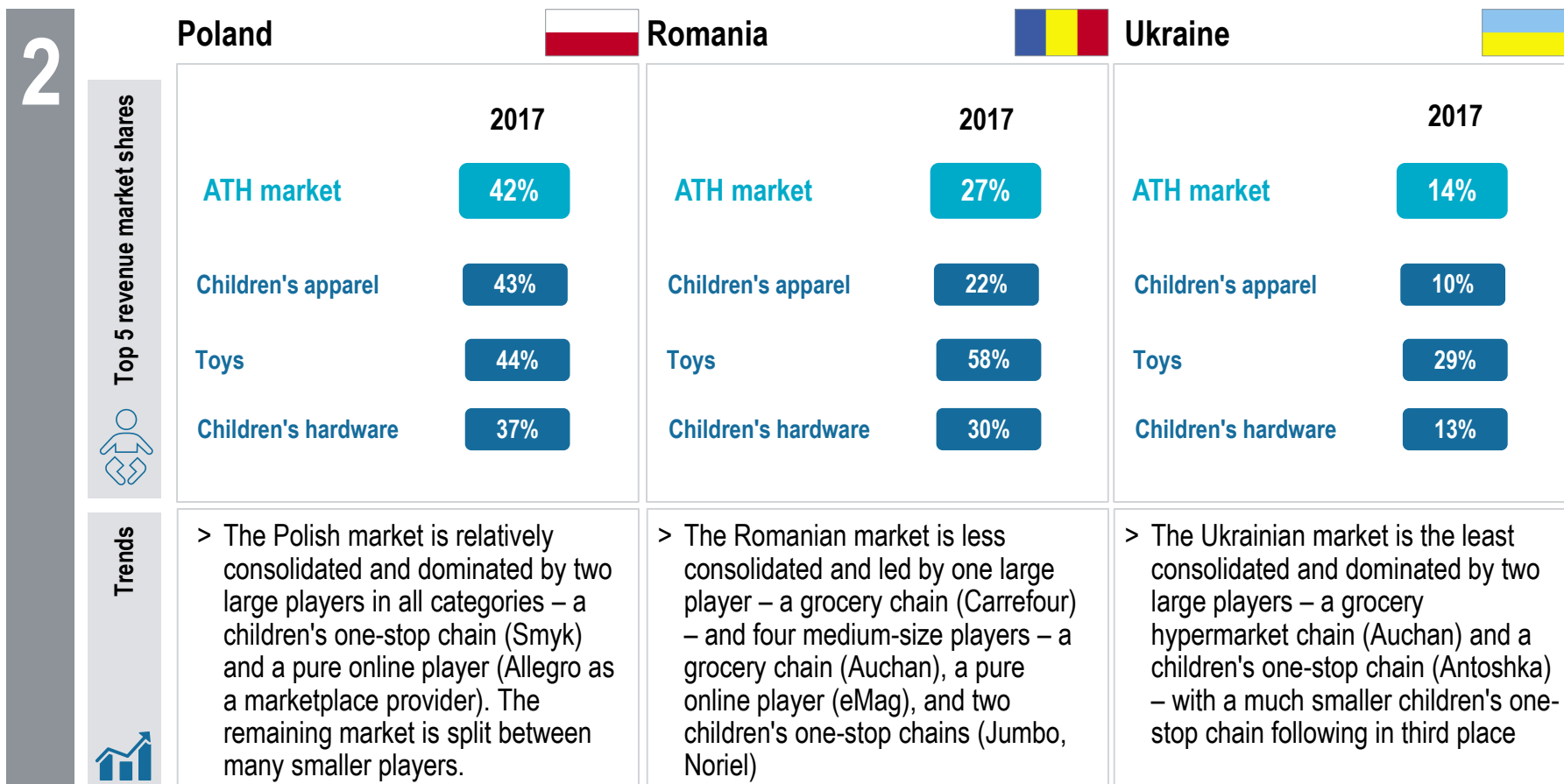
Decrease in the gray and second-hand market creates opportunities for ATH market growth in the medium to long term

Gray and second-hand ATH market value and trends – On top of the ATH market

1	Poland			Romania			Ukraine		
	Since 2012	Estimated % of total market 2017	Through 2022F	Since 2012	Estimated % of total market 2017	Through 2022F	Since 2012	Estimated % of total market 2017	Through 2022F
Gray ATH		5-7%			10-15%			30-40%	
Second-hand ATH		<5%			<5%			20-30%	
Trends	<ul style="list-style-type: none"> > Tightening tax system is expected to lead to decline of the small gray market > Growing disposable incomes, high availability of cheap products and preference for new products contribute to the decline in the second-hand market 			<ul style="list-style-type: none"> > Tightening tax system is expected to lead to decline of the gray market, which will stimulate the growth of the ATH market > Second-hand markets are expected to decline in the long term (after 2022) 			<ul style="list-style-type: none"> > Both gray and second-hand markets are relatively large and are forecast to be steady in the medium term > Long term, beyond five years, their size creates an opportunity for high ATH market growth 		

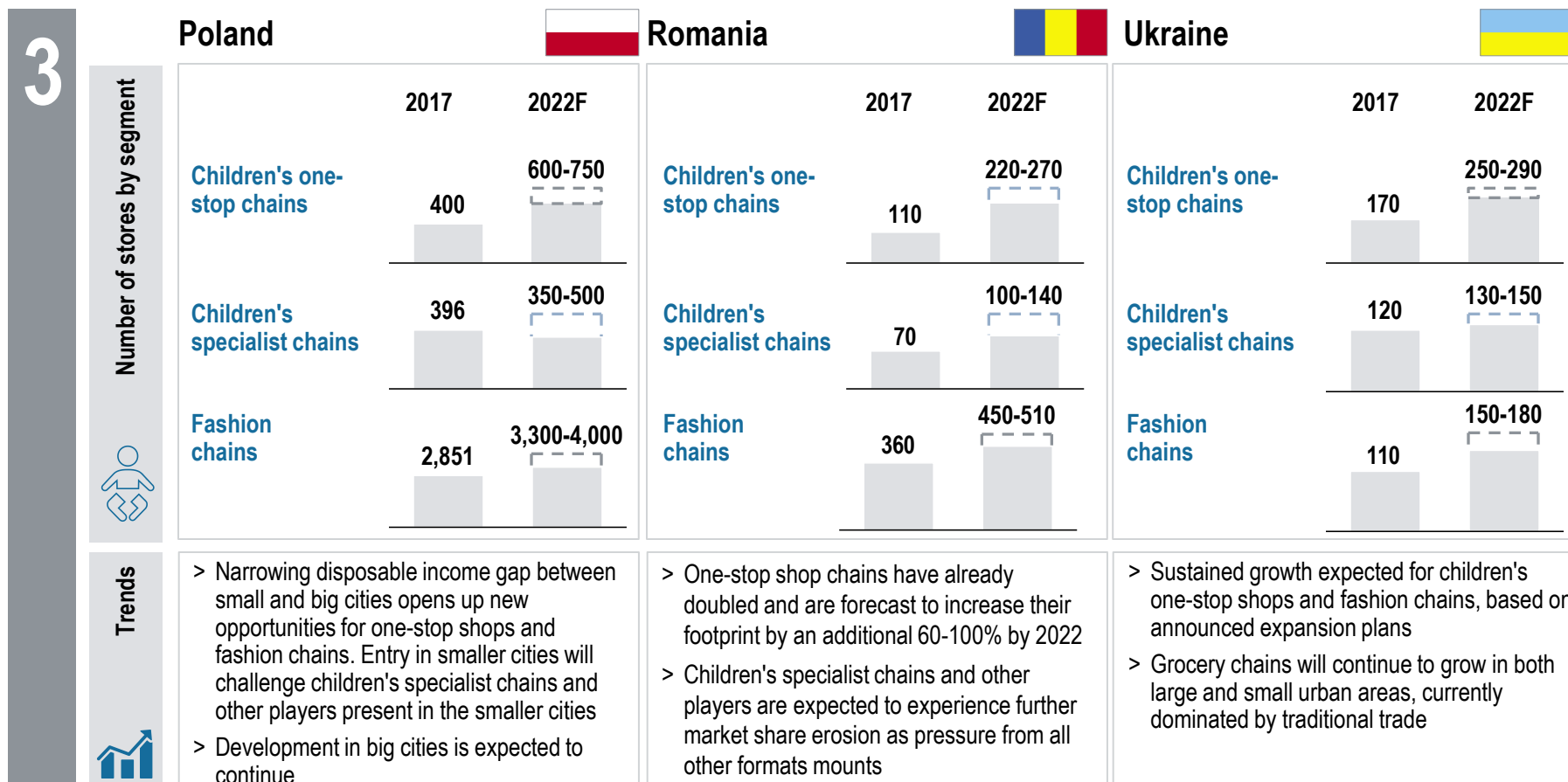
Share of top 5 players differs between countries, indicating potential for further consolidation growth in Romania and Ukraine

Revenue market shares of 2017's top 5 ATH players [% of total ATH market value]



In all three countries, the ATH markets in respect of children's one-stop chains are expected to see rapid growth in number of stores

Development of retail distribution by ATH market segment¹⁾ [# of stores]



1) Methodology used is described in slide 136

Growth of modern retail chains is expected to be supported by a growing number of commercial parks in all three countries

Overview of shopping malls and retail parks

3

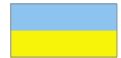
Poland



Romania



Ukraine



Key information

- > Warsaw has a shopping mall density ratio of c. 450 sqm/1,000 population
- > Total of 569 commercial centers¹⁾ and c. 56 new ones planned as of 2018, and total of 837 estimated for 2022
- > Cities statistics:

# of cities above 500,000 population:	5
# of cities 200,000-500,000 population:	11
# of cities 50,000-200,000 population:	70

- > Bucharest has a shopping mall density ratio of c. 310 sqm/1,000 population
- > Total of 95 commercial centers¹⁾ and expected to exceed 100 in 2018
- > Cities statistics:

# of cities above 500,000 population:	1
# of cities 200,000-500,000 population:	10
# of cities 50,000-200,000 population:	35

- > Kiev has a shopping mall density ratio of c. 340 sqm/1,000 population
- > 273 commercial centers¹⁾ and 31 new ones planned in 2018 in the 12 biggest cities only²⁾
- > Cities statistics:

# of cities above 500,000 population:	9
# of cities 200,000-500,000 population:	22
# of cities 50,000-200,000 population:	66

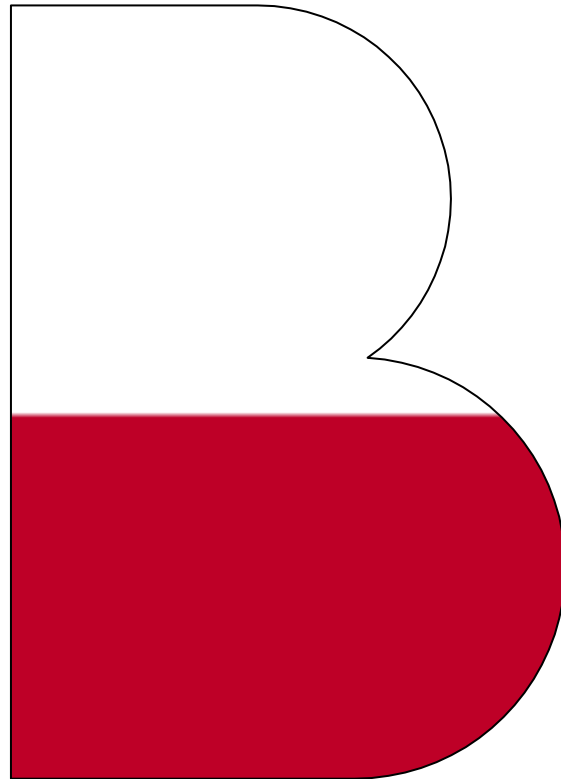
Trends

- > Most of the modern chains open their stores in shopping malls as well as in retail parks, so their rollout is dependent on the supply of new developments. Shopping malls in all three countries are located in city centers and close to the center, rarely outside cities
- > Shopping malls are becoming very popular among customers in the analyzed countries. Growth is observed in terms of sqm as well as number of new developments, although the density ratio of the biggest cities in the analyzed countries is higher than or close to Western European countries' average density of shopping malls in big cities (c. 360 sqm/1,000 population). However, a number of new developments are likely to be small-scale projects and retail parks in Poland. Romania and Ukraine are expected to follow
- > Customers' preference for shopping malls over high street stores is not only driven by a preference for a wide range of stores under one roof, but also about the multifunctional and sometimes cultural role they play, with increased dining, leisure and entertainment offerings, and even medical and public services within a shopping mall. The importance of shopping malls for the inhabitants of big cities as well as for communities in smaller cities is expected to increase over time
- > It is important for offline present retailers to be located in many shopping malls as one of the main drivers of their multichannel strategy. Online retailers are expected to open physical stores as a way to complement their existing omnichannel strategy. Shopping malls play an important role as showrooms and collection points
- > A growing number of commercial centers are expected in all three countries, which will have a positive effect on growth of modern retail chains



1) Including shopping malls, retail parks, outlets, mixed use, retail street 2) Current number and plans of commercial centers in the following cities Kyiv, Kharkiv, Dnipro, Odessa, Khmelnytskyi, Zaporizhia, Lviv, Poltava, Mykolaiv, Zhytomyr, Vinnytsia, Symy

B. Poland



Real GDP growth, rising birth rate and high employment rates will contribute to market growth in Poland

Executive summary (1/2)

1

Market overview

- > The ATH market had a value of approximately EUR 2.1 bn in 2017, with a CAGR of c. 3% in the past five years – The **market value** is forecast to **grow at an accelerated CAGR of c. 7%** due to favorable macroeconomic conditions and is anticipated to reach EUR 2.9 bn by 2022
- > The **major ATH market growth driver** is expected to be **GDP growth with a CAGR of c. 4%** – Real GDP growth is tightly correlated to strong disposable income and annual spend per child growth
- > The **500+ program, together with the other government's pro-family politics**, is forecast to continue **positively influencing birth rates** in the future
- > In the past five years, the **gaps between disposable income for large versus smaller cities and rural areas further narrowed**, driving new opportunities for development beyond the big cities. A **new trend is observable whereby more retail space is being built** (smaller shopping malls and retail parks) in **smaller and medium-size cities**, where selected ATH-focused chains are entering the market
- > **ATH product segments are dominated by apparel** in value terms (58% of the market), followed by toys (29%) and hardware (13%). Apparel is also the fastest growing category (6.9% CAGR) due to the modern retail focus on the segment as well as the potential entry and development of players like KiK or Takko
- > Owing to **baby booms** in the corresponding years, **sales of products for 0-4-year-old and 10-14-year-old children will grow faster** by 2022 than those for 5-9-year-old children
- > **Customer preference** analysis suggests **one-stop shopping, availability of a wide range of SKUs and omnichannel presence** are crucial for retailer choice. For consumers, a **strong retail brand** increases the perceived quality of products sold by the respective retailer. Marketing seems not to be as important to customers
- > **Online sales are forecast to grow strongly** by 22% annually through 2022, both for omnichannel and pure online distribution channels, at a faster rate than offline sales, owing both to increased Internet penetration and changes in customer behavior and partially due to restrictions in trade on Sundays. Click & Collect services are expected to increase in importance

The market is forecast to develop in new locations and through omnichannel growth, with market leaders expected to grow market share

Executive summary (2/2)

2

Players in the market

- > **Top 5 players make up c. 42% of the ATH market in 2017**, up from c. 25% in 2012. The Polish market is dominated by two large players in all categories – a children's one-stop chain (Smyk) and a pure online player (Allegro as a marketplace provider), which have experienced high growth over the past five years. **The remaining market is split between many smaller players or those that generate low revenues from ATH market**, like grocery chains that are strong in toys and hardware categories as well as fashion chains that lead the apparel category
- > **Players cover the full market spectrum in terms of breadth of product assortment and level of child focus** – The largest share of ATH revenues comes from chains with high SKUs. Modern apparel market retailers position themselves at the high and low end of the price/fashion spectrum leaving limited space for independent shops
- > Most players have **cover the entire age range** for the ATH selection they offer
- > The ATH market retail leader, Smyk (156 stores), has a wide range of store formats, depending on location, with an average of 700 sqm. Other large ATH-focused chains – Coccodrillo (250 stores) and 5.10.15 (220 stores) – have typical store areas of 70-100 sqm

3

Market segment development

- > **The share of independent shops is expected to decrease** due to the expansion of chains with broader product assortment and better product placement compared with the situation in other retail markets, e.g. food discounters (Biedronka, Lidl), drugstores (Rossmann), non-food discounters (Pepco) – In the ATH market there is **potential for one or two dynamic leaders to gain most of the market share in each segment**
- > The **children's one-stop chain segment** is good at addressing the **customer preference for one-stop shopping and omnichannel**, and is expected to continue its high growth, mainly in small and medium-size cities; the segment outpaced the average ATH market growth in the past
- > The **children's specialist chain segment** is **developing sluggishly**, with some players moving to shop-in-shop and online
- > The **fashion chain segment** **expected to remain the leading segment** in children's apparel over the forecast period
- > The **grocery chain segment** does not develop in hypermarkets and **most of the growth is in discounters**
- > The **online player segment** is expected to **grow at a relatively high rate** compared to the other segments
- > **In 2022**, the total number of stores is expected to reach **up to 750 of children's one-stop chain stores, 500 children's specialized chain stores and 4,000 fashion chain stores**

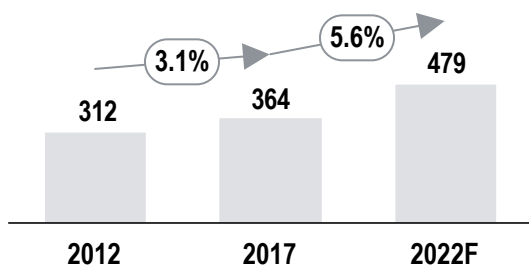
B.1 Market overview



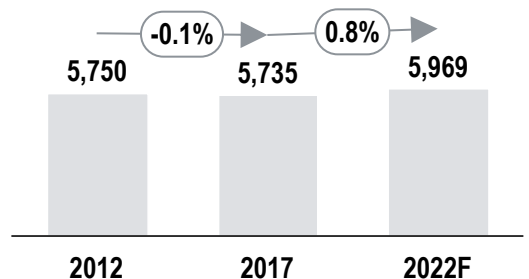
ATH market is expected to grow strongly owing mostly to the growth of annual spend per child

ATH market value and key drivers

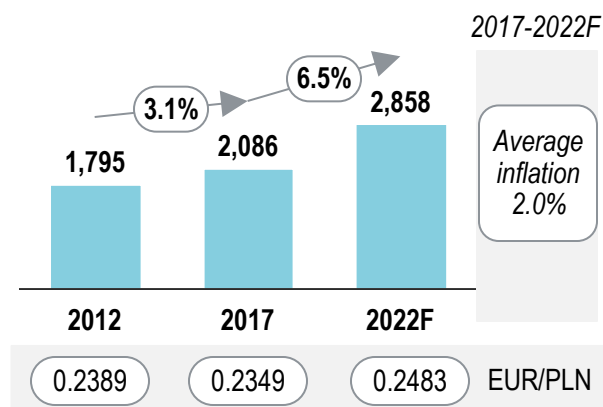
Annual spend per child [EUR]



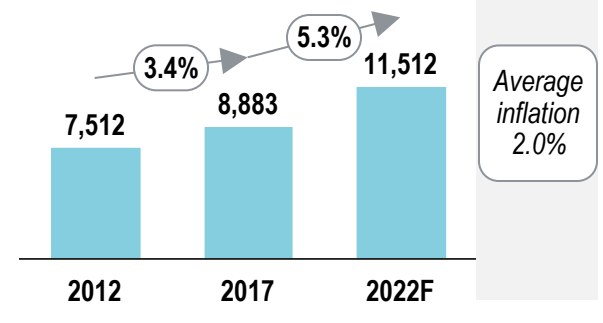
Number of children ['000]



ATH market value [EUR m]



ATH market value [PLN m]



ATH market drivers and trends



Macroeconomic drivers

- > Annual spend per child is more than 50% below the average of selected Western European countries, leading to a catch-up linked to disposable income growth
- > Increasing birth rate



Country consumption drivers

- > High GDP growth, 500+ program and closing gap between larger and smaller cities' wealth spurs the ATH market size



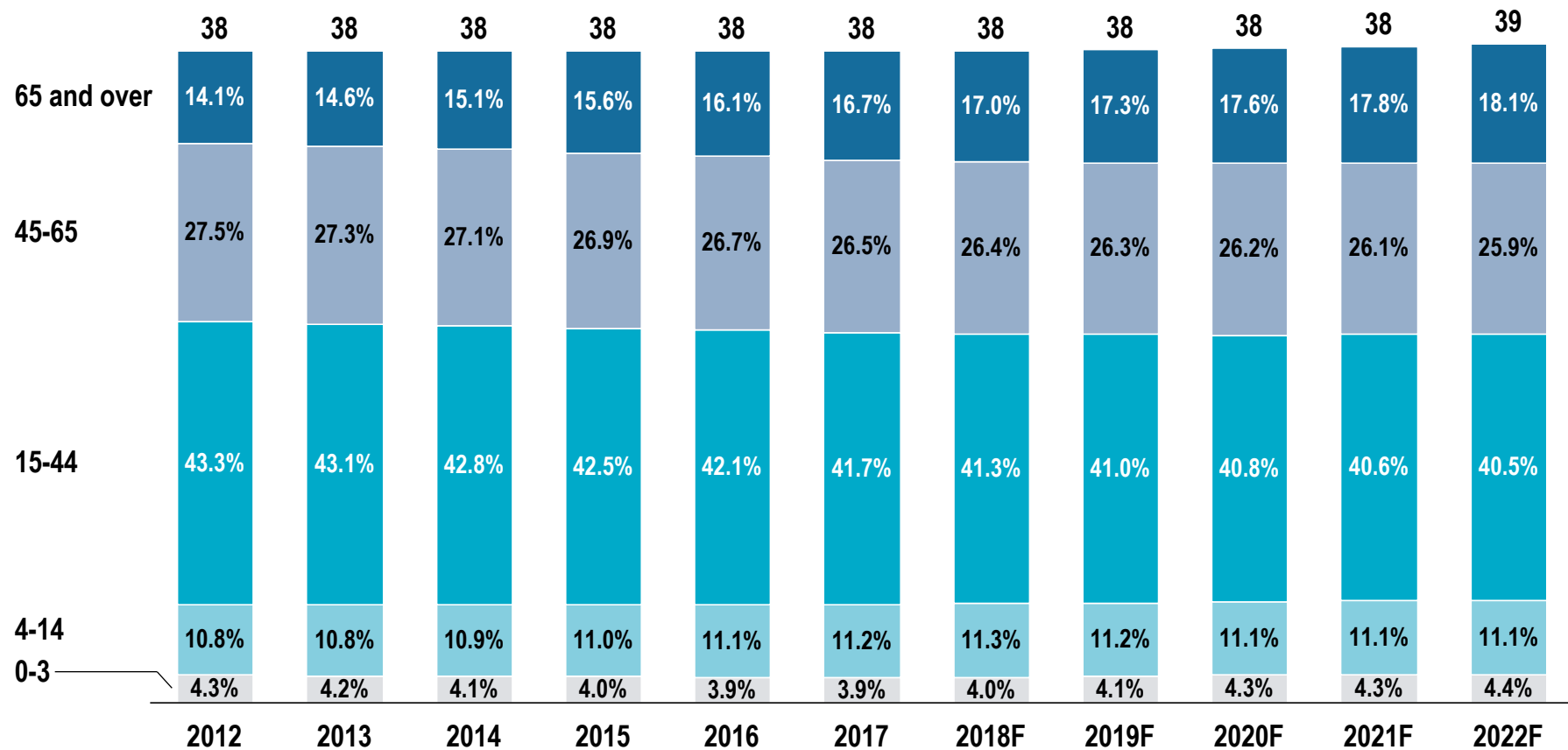
ATH market trends

- > Customer preference for one-stop ATH shops and omnichannel, as well as new opportunities in chain rollout in medium-size and small cities are what's developing the market

X% → CAGR

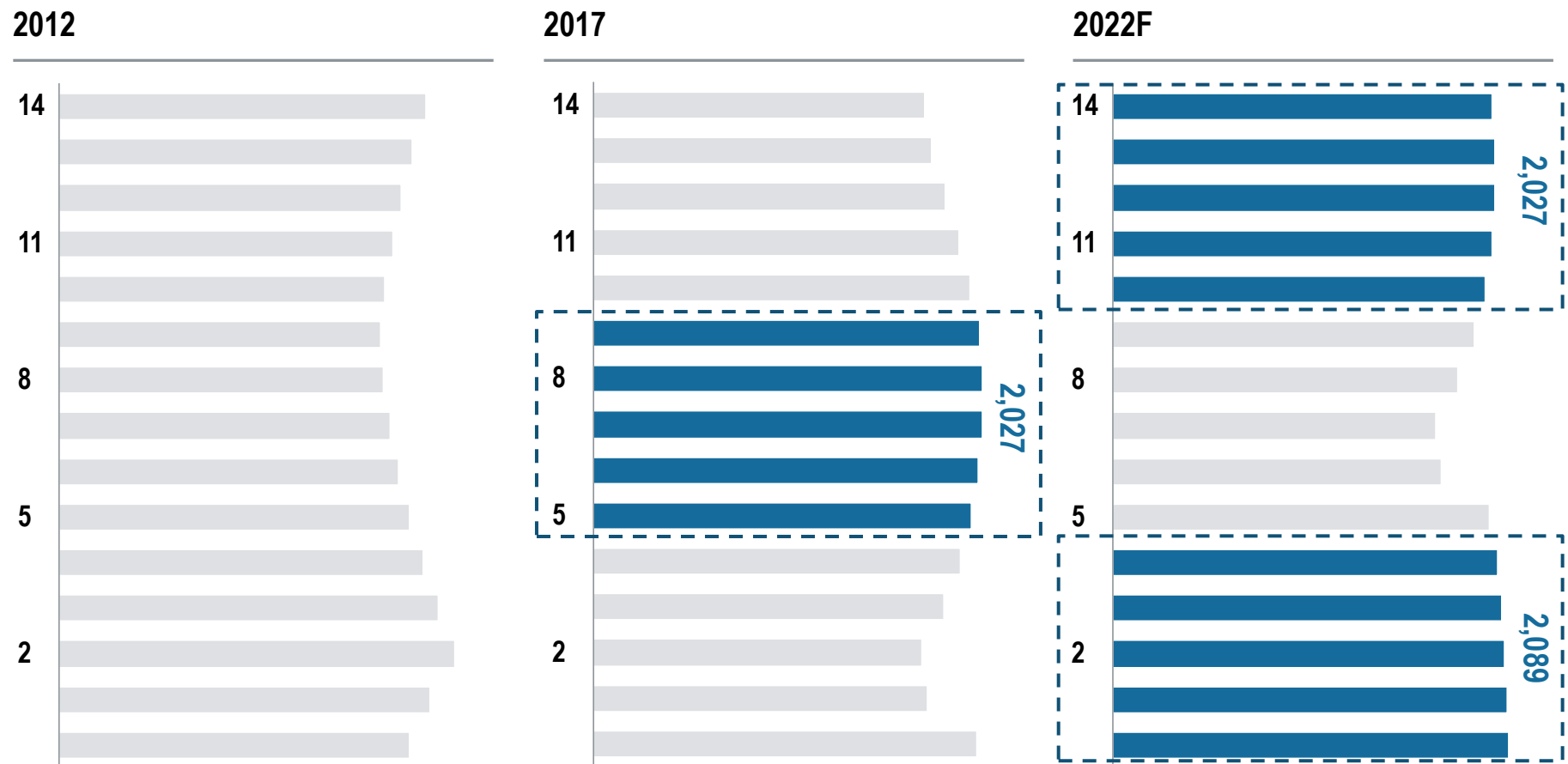
The total population and share of 0-14-year-old children is forecast to grow slightly, especially in the 0-3 age group, through 2022

Population structure by age [total in m, % by age]



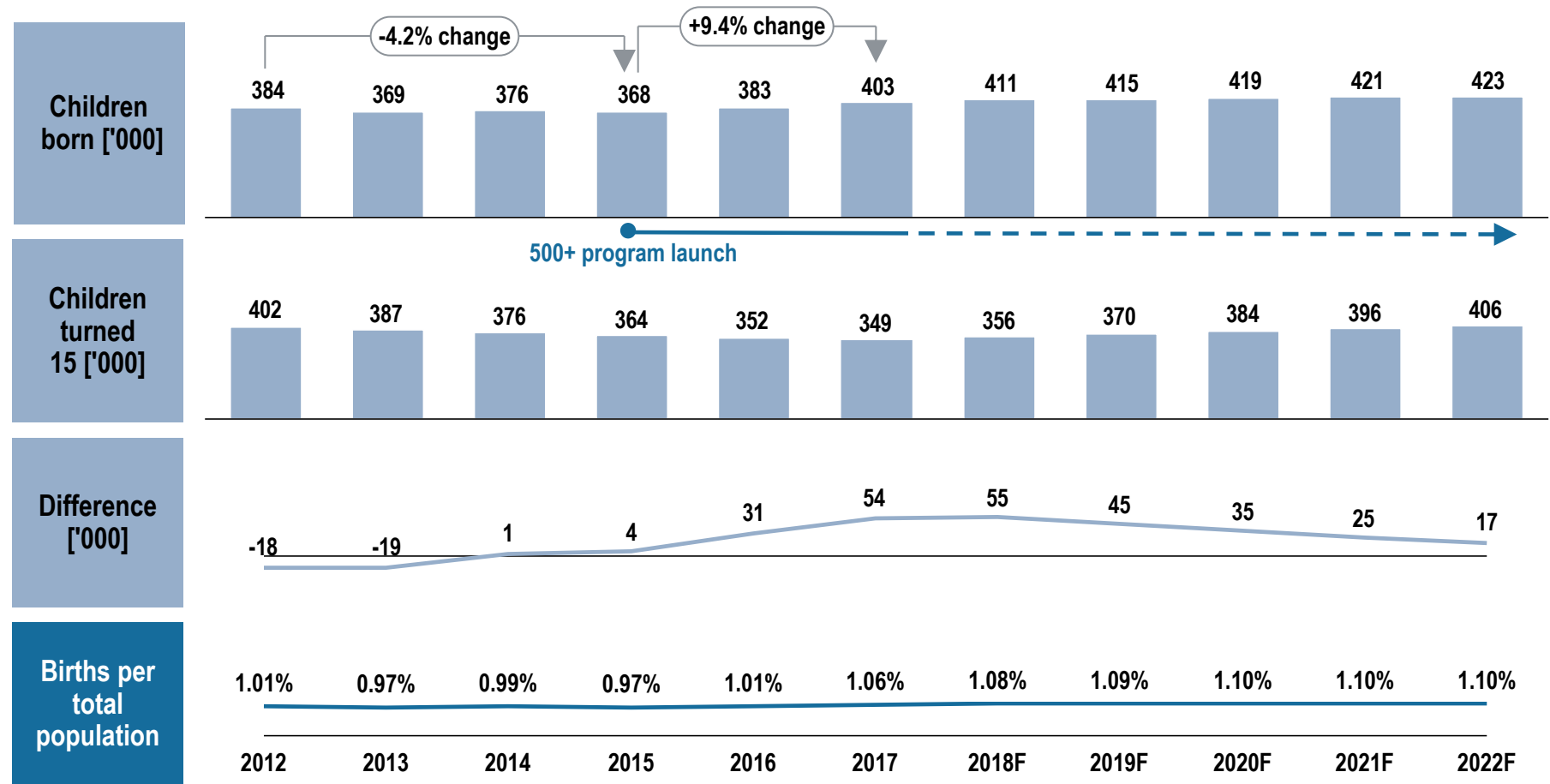
By 2022, two baby booms are expected to contribute to a comparatively high number of 0-4 and 10-14-year-old children

Number of children by age ['000]



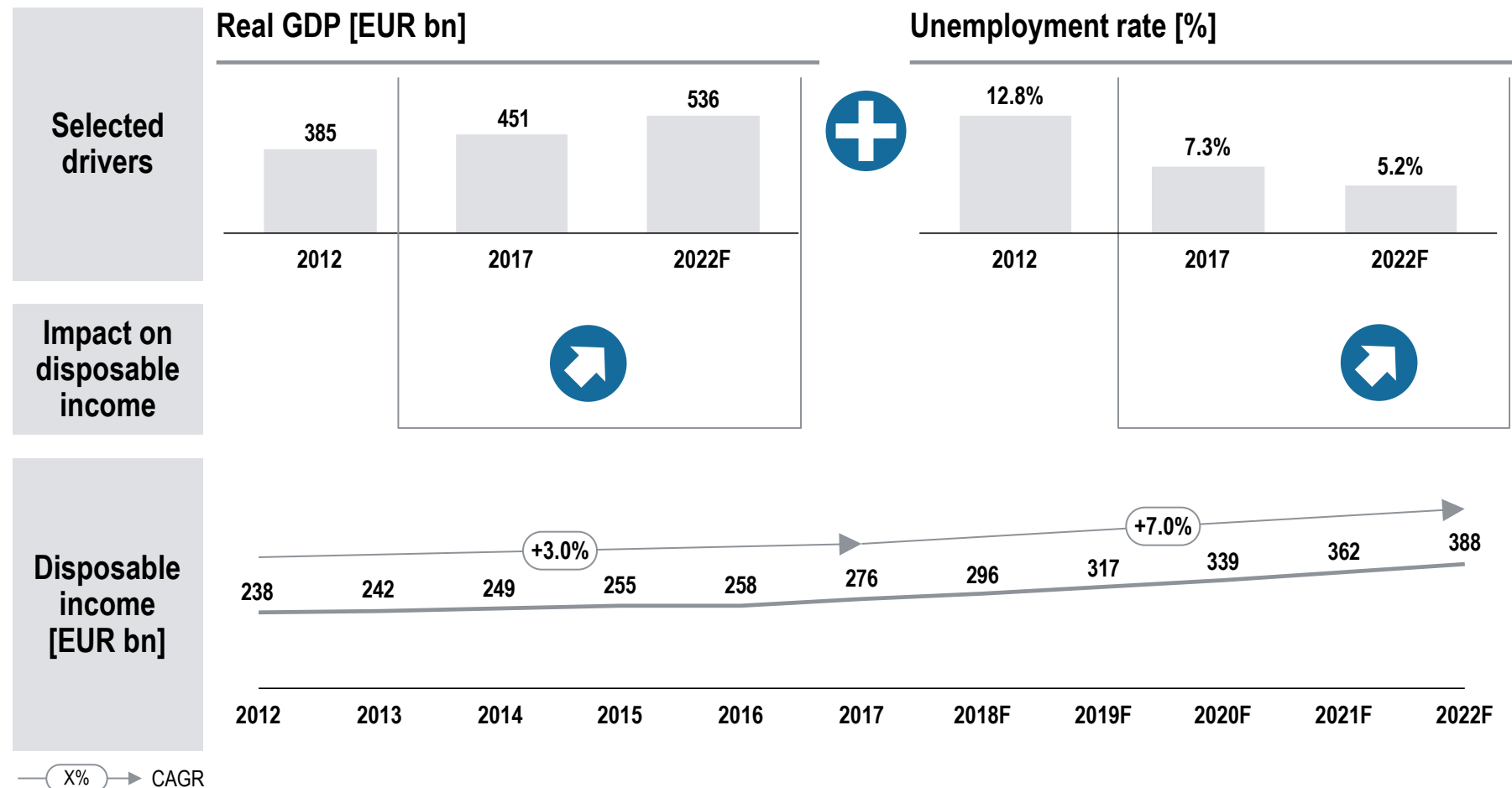
The number of children is expected to continue to grow over the coming years owing to a positive trend in the birth rate driven by pro-family programs

Children's group entries, exits and birth rates



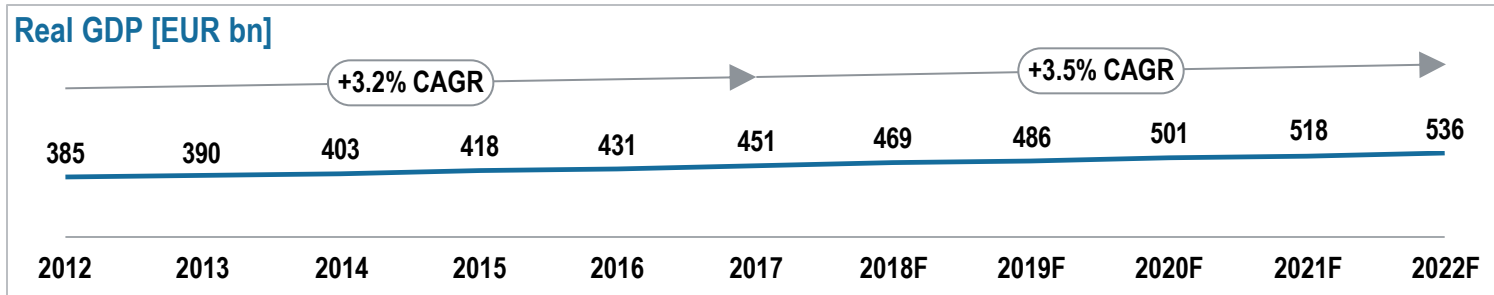
Forecast development of real GDP and unemployment rates are expected to strongly drive disposable income growth

Disposable income and its selected drivers

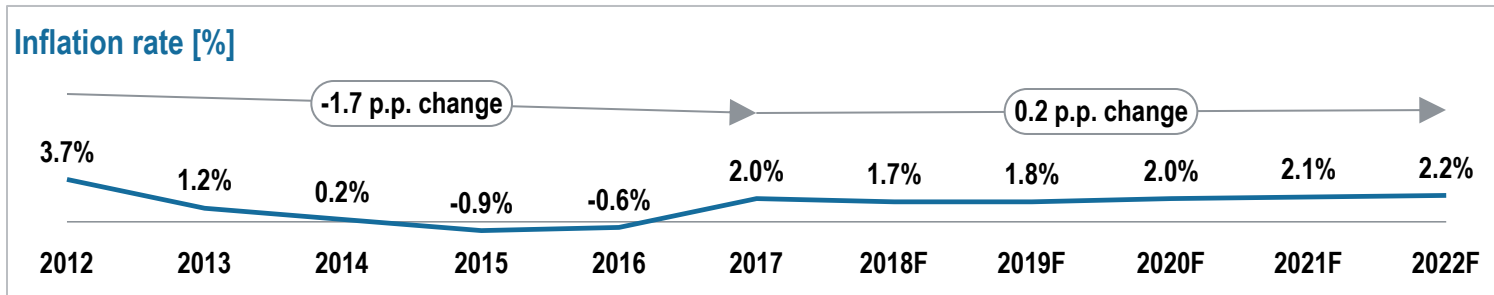


Real GDP growth is forecast to accelerate – Stable inflation and decreasing unemployment rate forecasts provide positive signs

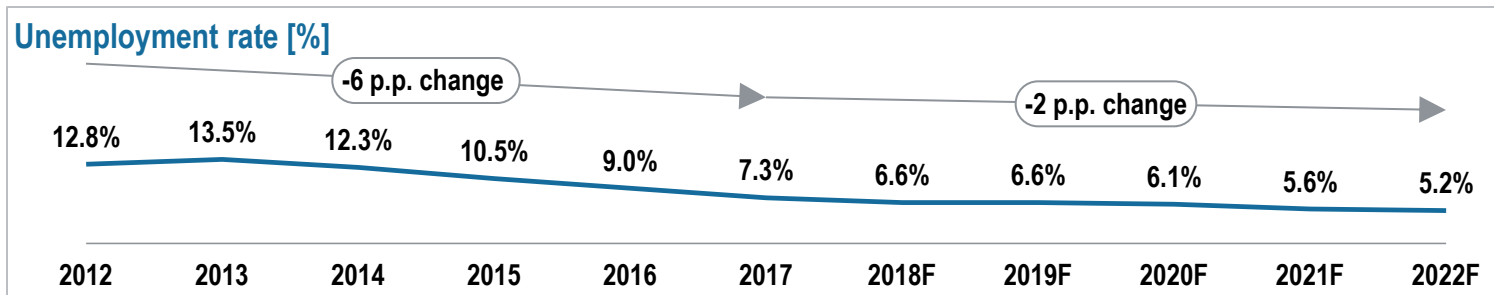
Macroeconomic indicators, 2012-2022F



Real GDP growth is forecast to grow slightly faster in 2017-2022F than the growth rate in 2012-2017



Inflation rate is forecast to stay at a level similar to 2017 through the entire period to 2022



Unemployment rate is forecast to keep falling through 2022, though the fall is expected to slow down

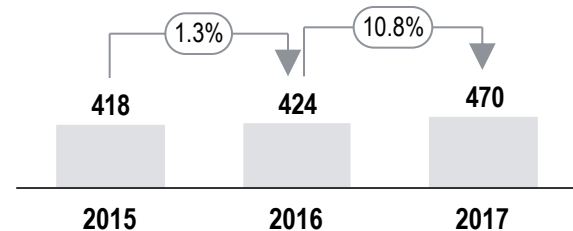
Favorable macroeconomic development along with government programs have supported ATH market growth

Country-specific consumption drivers and trends (1/2)

500+ program and other pro-family government programs

- > The "500+": PLN 500/month for every second and subsequent child and in some cases also for the first child, launched in 2016
- > Some other programs like extension of maternity leave, pro-life, tax allowance

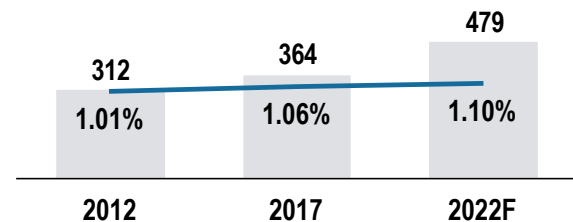
Minimum monthly wage development [EUR]



Limitations of retail trade on Sundays

- > Since March 2018, Sunday retail is limited to twice a month in 2018, once a month in 2019, and seven times per year in 2020 and thereafter

Annual spend per child [EUR] and births per total population

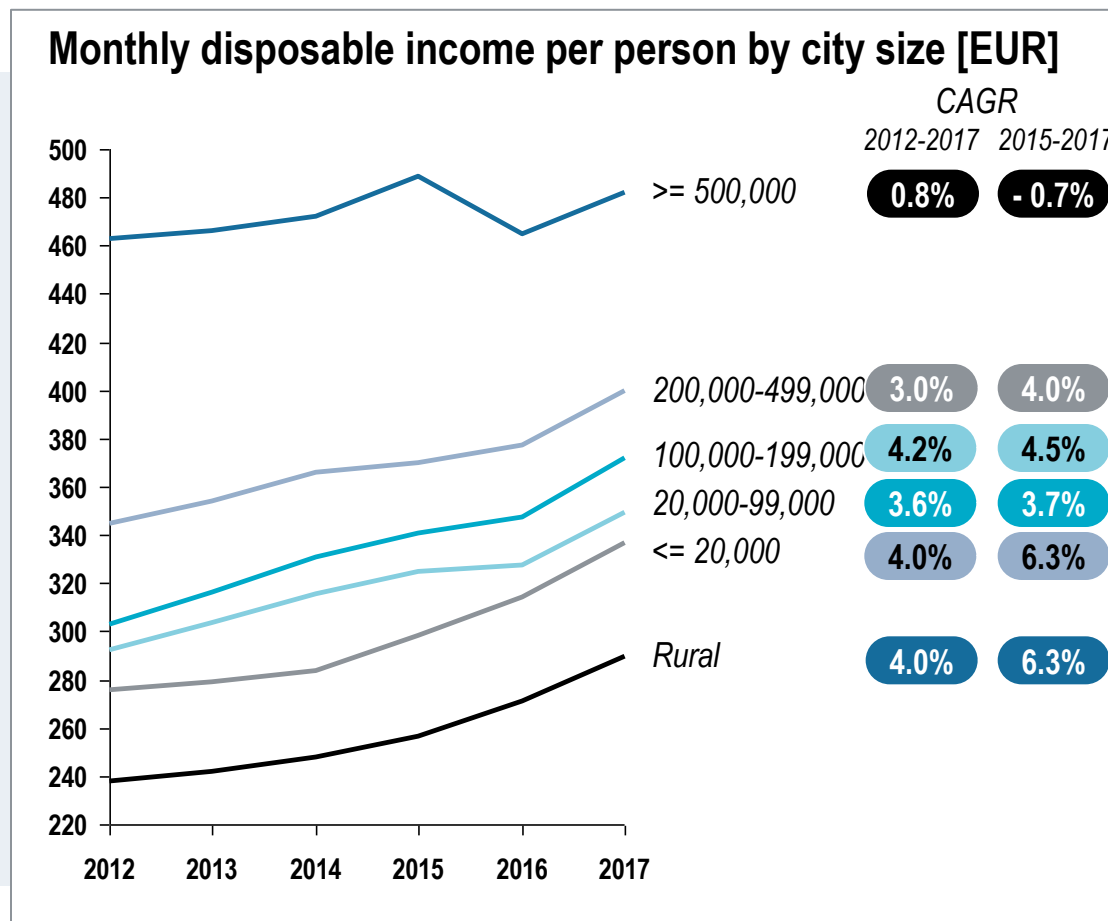


- > **The 500+** and other pro-family programs were introduced to increase the birth rate in PL and were the key driver of the surge in the birth rate (9.4% more children born in 2017 vs. 2015). This is expected to continue to have a positive effect along with the government's pro-family politics
- > Rising disposable income was positively influenced by the yearly **minimum wage increase**. In 2017, new legislation applied the minimum wage not only to permanent contracts, but also to order contracts¹⁾, which make up a significant share. This change is supposed to eliminate the very low hourly rates used in order contracts
- > **Sunday retail trade restrictions** are expected to have a negative effect on retail trade in the short term. In the medium term, experts agree that a change in consumer shopping habits will minimize the impact as they will adapt to the circumstances (shopping on other days). They also estimate limited influence of the restrictions on the ATH market, because in most cases purchase decisions are needs rather than impulse based. Offline toys sales may be impacted the most, as part of sales is driven by emotional, unplanned purchase during store visits. On the other hand, part of the impact is expected to be offset by higher online sales
- > Overall, **country-specific consumption is growing** – Annual spend per child and the birth rate will drive market value growth

1) Order contracts are commonly used in Poland, the minimum hourly remuneration was implemented

The gap in disposable income between larger and smaller cities has been narrowing

Country-specific consumption drivers and trends (2/2)

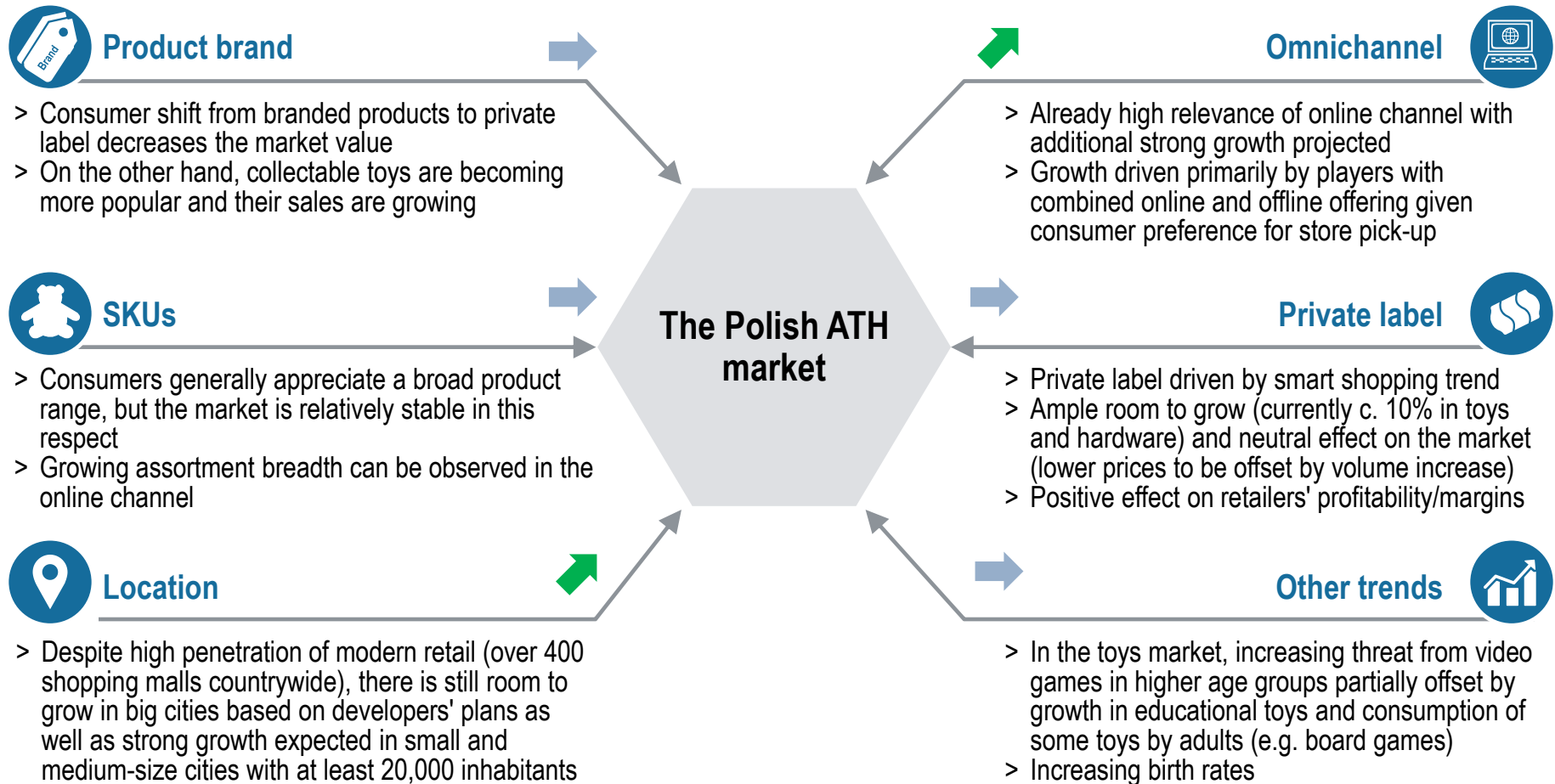


Income development trends

- > Disposable income gaps between large, medium-size and small cities have been closing
- > Cities with over 500,000 inhabitants have seen very moderate average disposable income growth
- > Cities below 500,000 inhabitants experienced considerable disposable income growth
- > The highest growth of disposable income was evident in cities with up to 200,000 inhabitants
- > Declining gap between small and big cities creates opportunities for modern retail expansion in smaller cities

Key trends exert a positive influence on the ATH market – Especially related to penetration of smaller cities and growth of omnichannel

Key trends and market characteristics



Overall impact on the ATH market value: Positive Negative Neutral

We have gathered significant insights into key Polish ATH market trends by interviewing local industry experts

Selected quotes from interviews with market participants

It's difficult to stay in business with a narrow product range, especially in toys, which have two peaks throughout the year. Retailers need to broaden their assortment to ensure a stable business.

Sales Director, children's specialist retailer



Online retailing is booming. The total e-commerce market for children's products will be twice as large in 2020 as in 2016.

Channel Manager, children's specialist retailer



In Poland we don't have the culture of high-street shopping. Polish people shop in malls because it's more convenient – you find everything you need and you get easy parking.

Sales Manager, toy specialist retailer



People are increasingly focused on value for money. For example, parents prefer to buy private labels over branded products in the 0-3-year-old assortment.

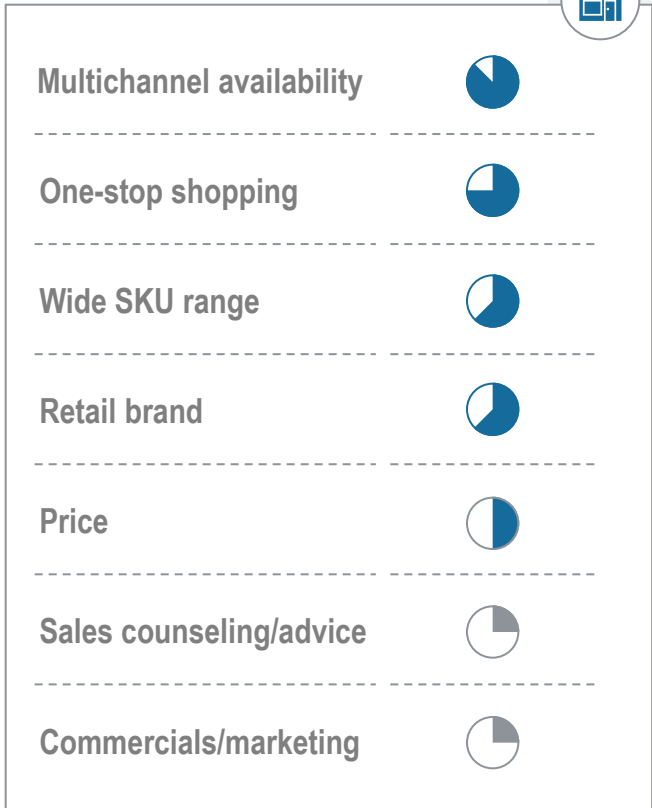
Buying Director, children's specialist retailer



Polish consumers seem to prefer one-stop shop ATH retailers with a strong online presence and a broad SKU range

Customers' retailer selection and product purchasing criteria

Main criteria for choosing retailers



Customer purchasing criteria – Children's apparel



- > When purchasing children's apparel, Polish consumers primarily focus on the quality of the **fabrics and materials** used in the garment
- > **Price** also plays an important role, especially for items in the lower age groups, while **design** is important for selected customer segments

Customer purchasing criteria – Toys



- > Toy **safety** is a key criterion for Polish consumers buying traditional toys
- > **Commercials/marketing** sometimes encourage children who saw a toy advertised on TV (e.g. on children's stations) to ask their parents to buy it
- > **Price sensitivity** appears to be highest for toys among the three markets

Customer purchasing criteria – Children's hardware



- > **Functionality** and **safety** are key purchasing criteria for products in the hardware category, as many parents want to ensure they get the best available products for their babies
- > **Price sensitivity** is lowest for hardware compared to apparel and toys

Overall importance of criterion in choosing a retailer ○ Low ● High

ATH consumer preferences in Poland have been derived based on in-depth interviews with local industry experts

Selected quotes from interviews with market participants

Retail is all about "Location. Location. Location". This is extremely important to us, so we've tried to be in the best malls in Poland.

Sales Manager, children's apparel retailer



Customers tend to shop in stores they are already familiar with. That's why brand plays such an important role in Poland.

Sales Manager, toy specialist retailer



I would say a strong store brand is important to the rate of 60-70% in terms of attracting customers. The most important in toys market is TV commercials.

Sales Manager, toy specialist retailer



People with children are busy working so they prefer shopping malls where they can find everything they need in one place. This is why you see so many children's product retailers in shopping malls.

Non-Food Manager, grocery retailer



Online is becoming critical as customers demand a full omnichannel experience. For us, the integration of online and offline resulted in the growth of both channels.

Channel Manager, children's specialist retailer



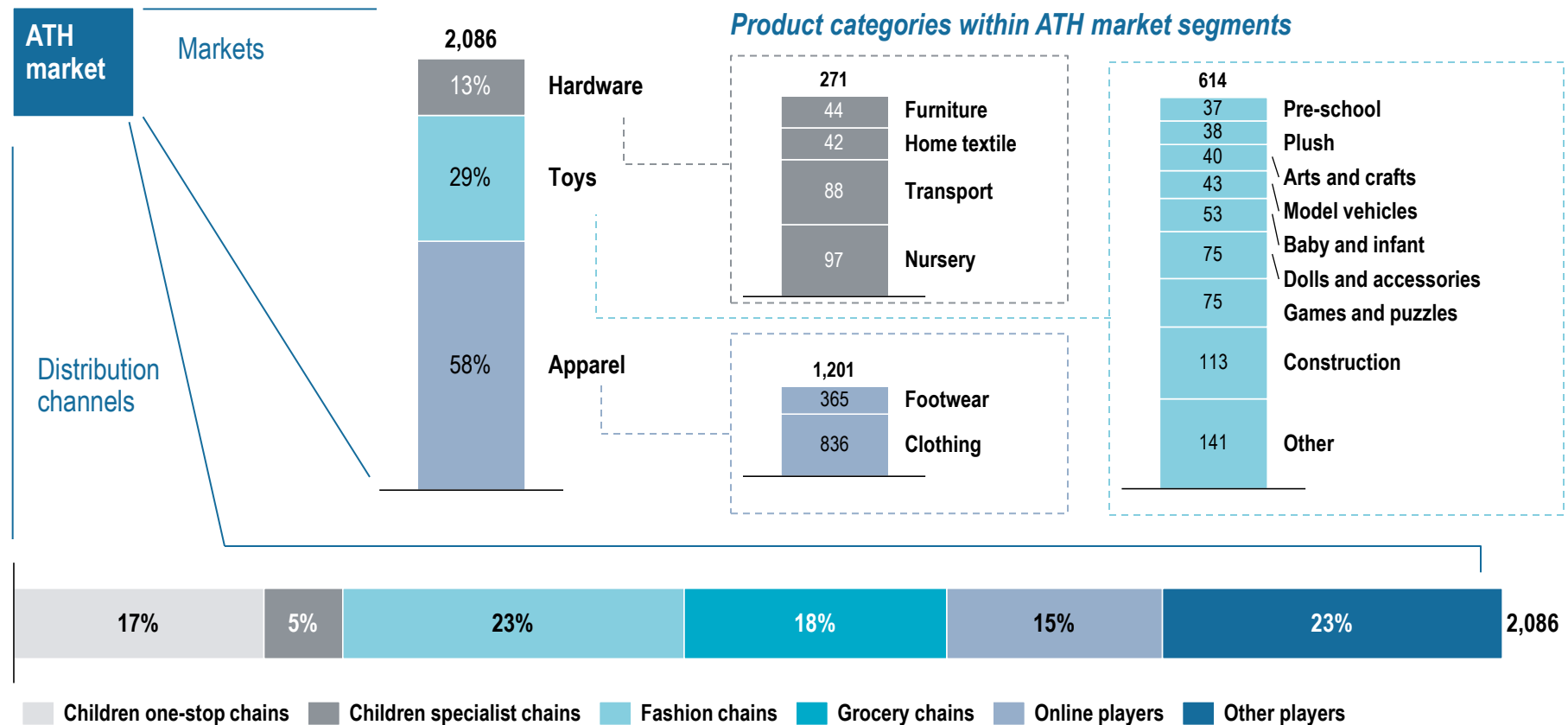
Consumer preferences in the toy market are shifting: Demand for board games as well as educational and interactive toys is growing.

Consumer Insights Manager, toy specialist retailer



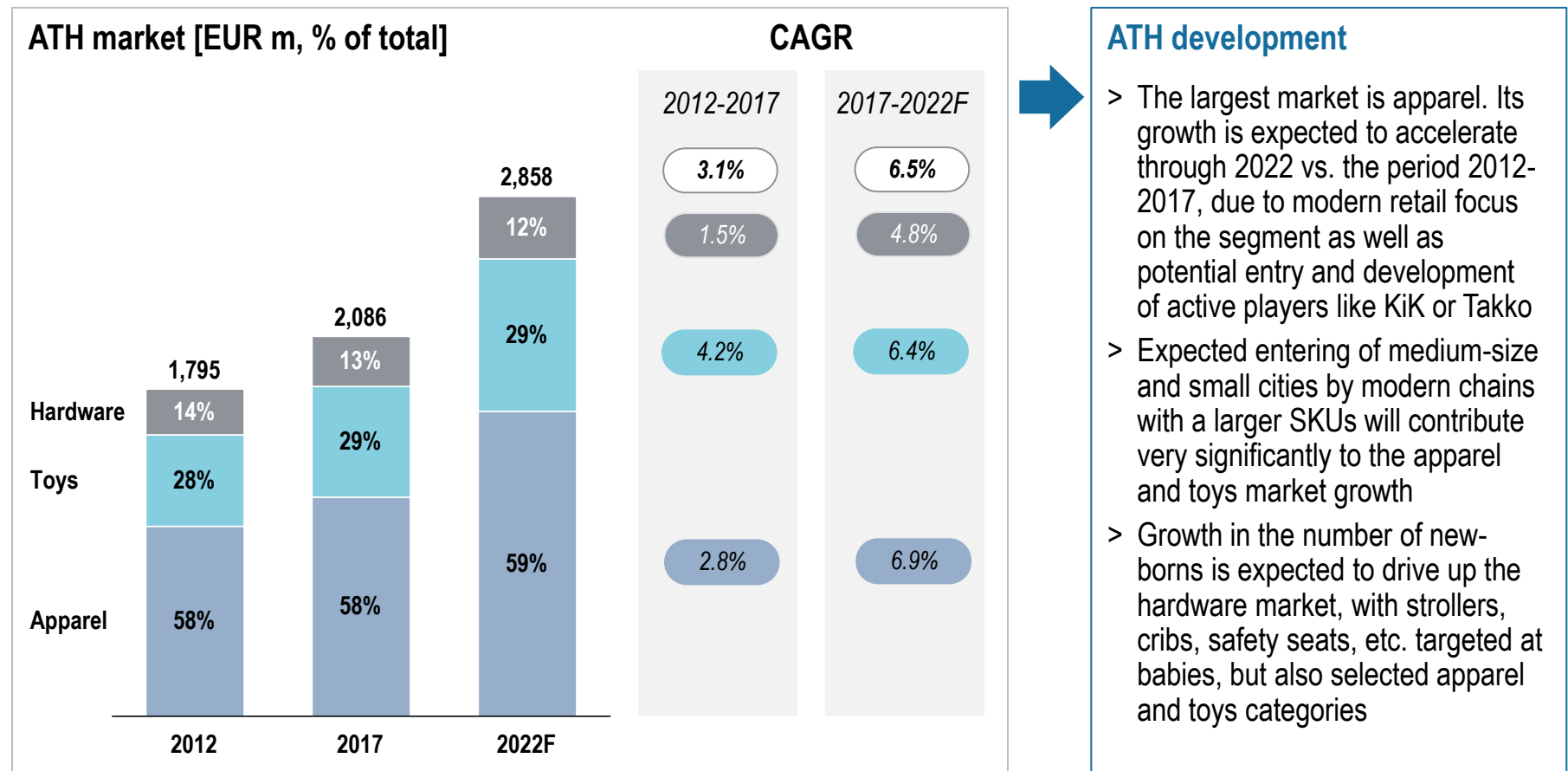
Within the ATH market, apparel is the largest market – Fashion chains constitute the largest of the chain distribution segments

ATH market structure, 2017 [EUR m, % of total]



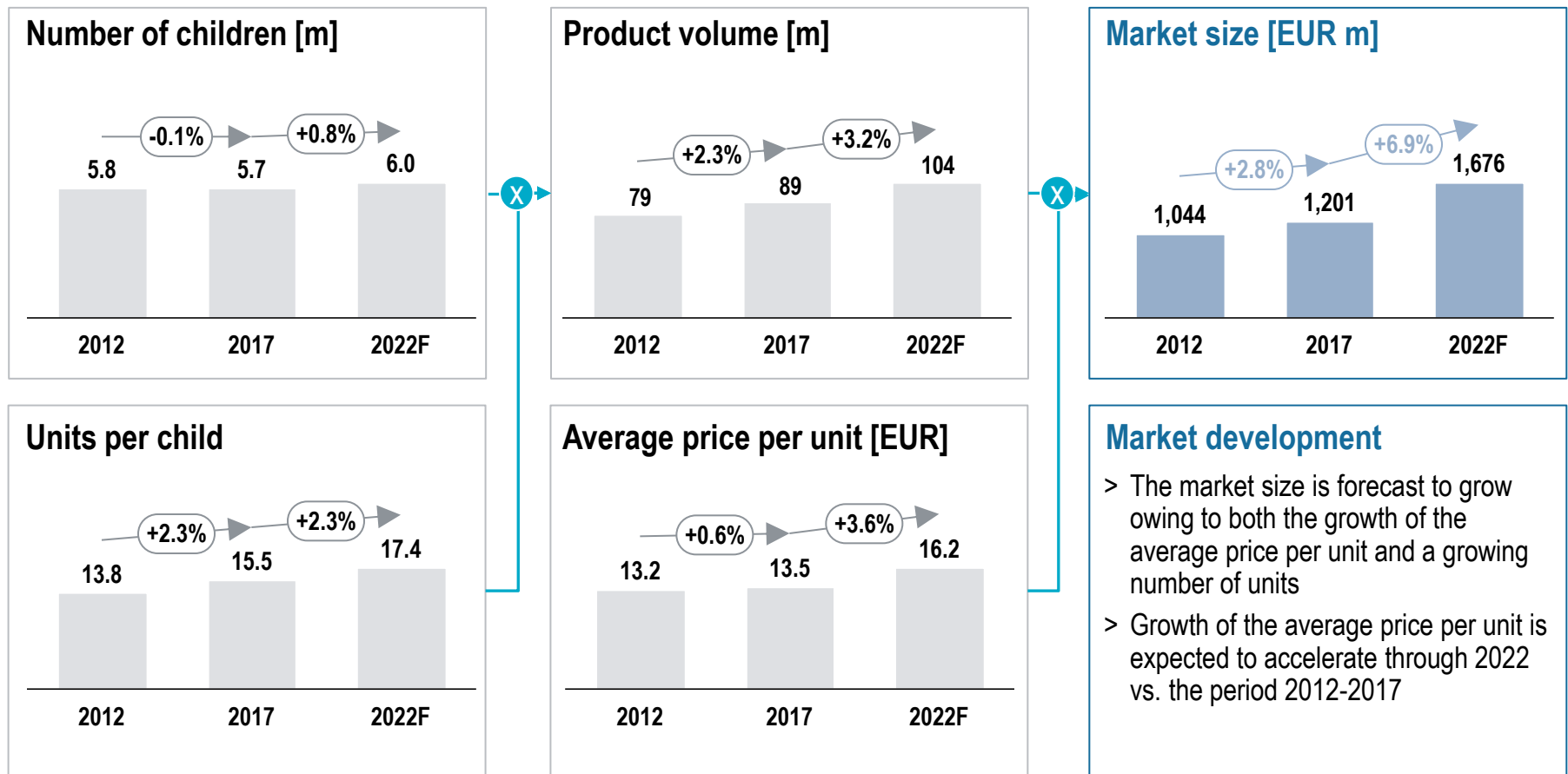
Apparel is forecast to have the largest value and average growth within the ATH market through 2022

ATH market overview, 2012-2022F



The major driver of children's apparel market growth is forecast to be the price per unit, with units per child also expected to increase

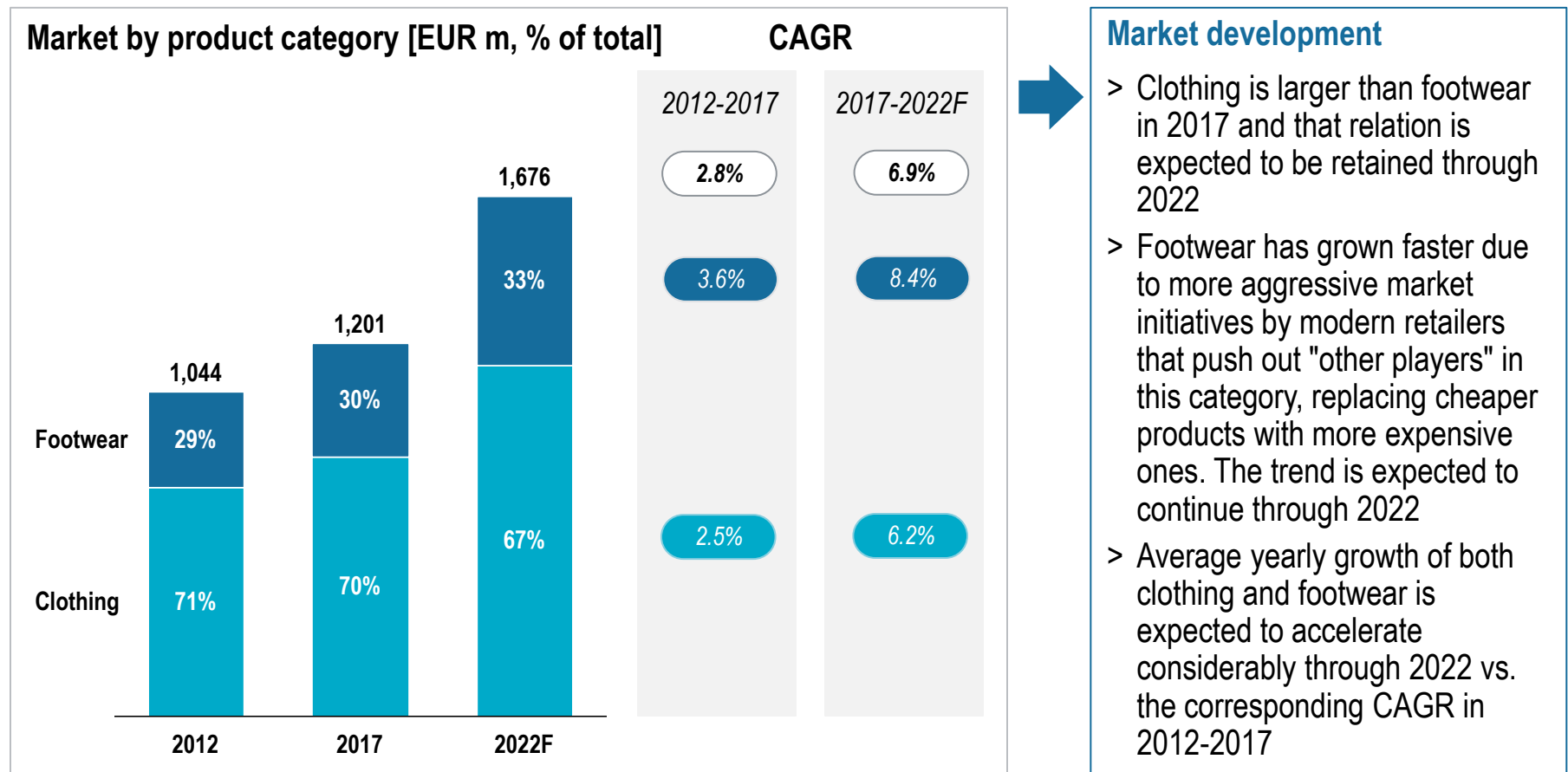
Children's apparel market value drivers, 2012-2022F



Source: Market model based on National Statistics Institute, World Bank, desk research, mystery store checks, expert interviews

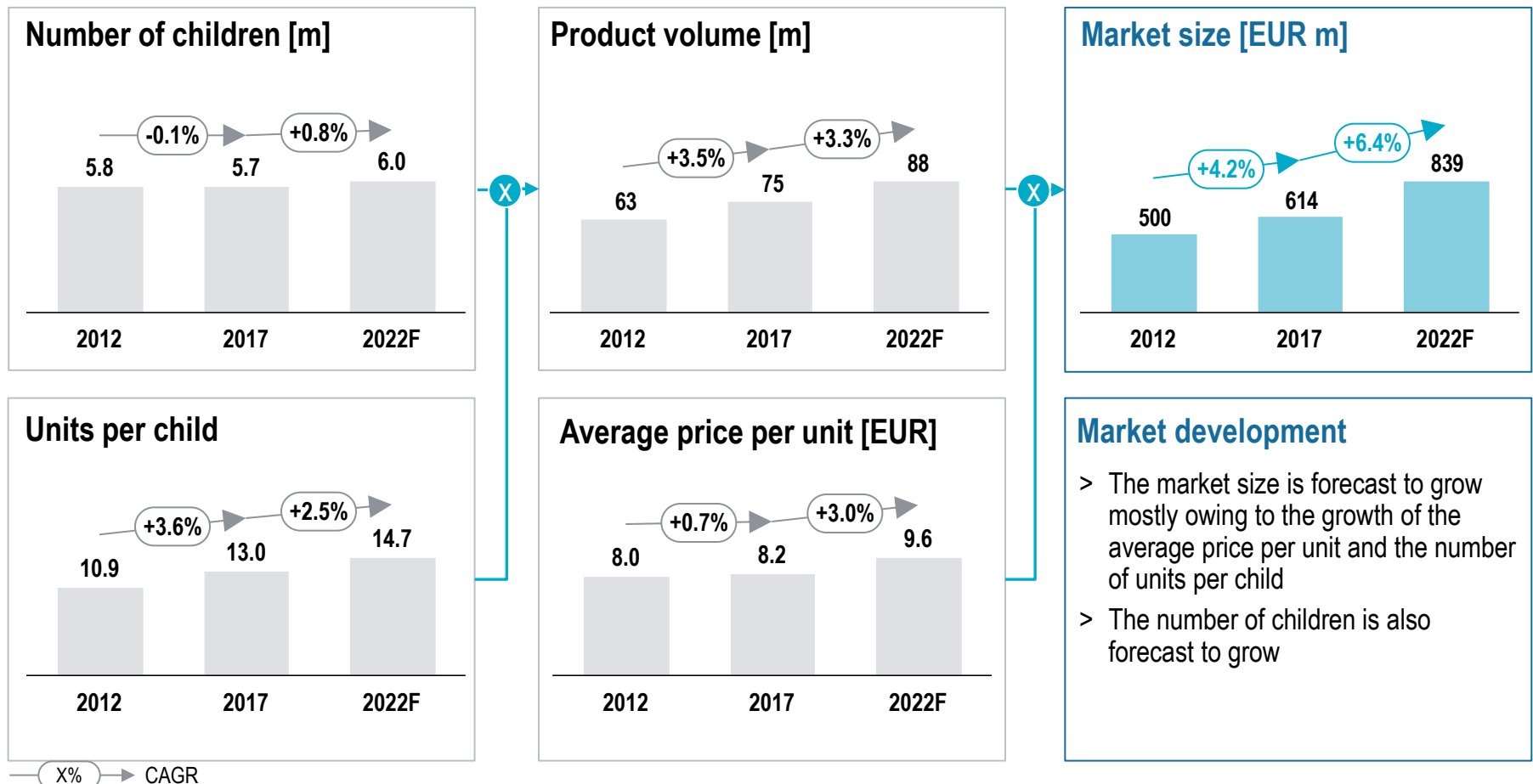
Footwear is forecast to grow faster than clothing within the children's apparel market through 2022

Children's apparel market by product category, 2012-2022F



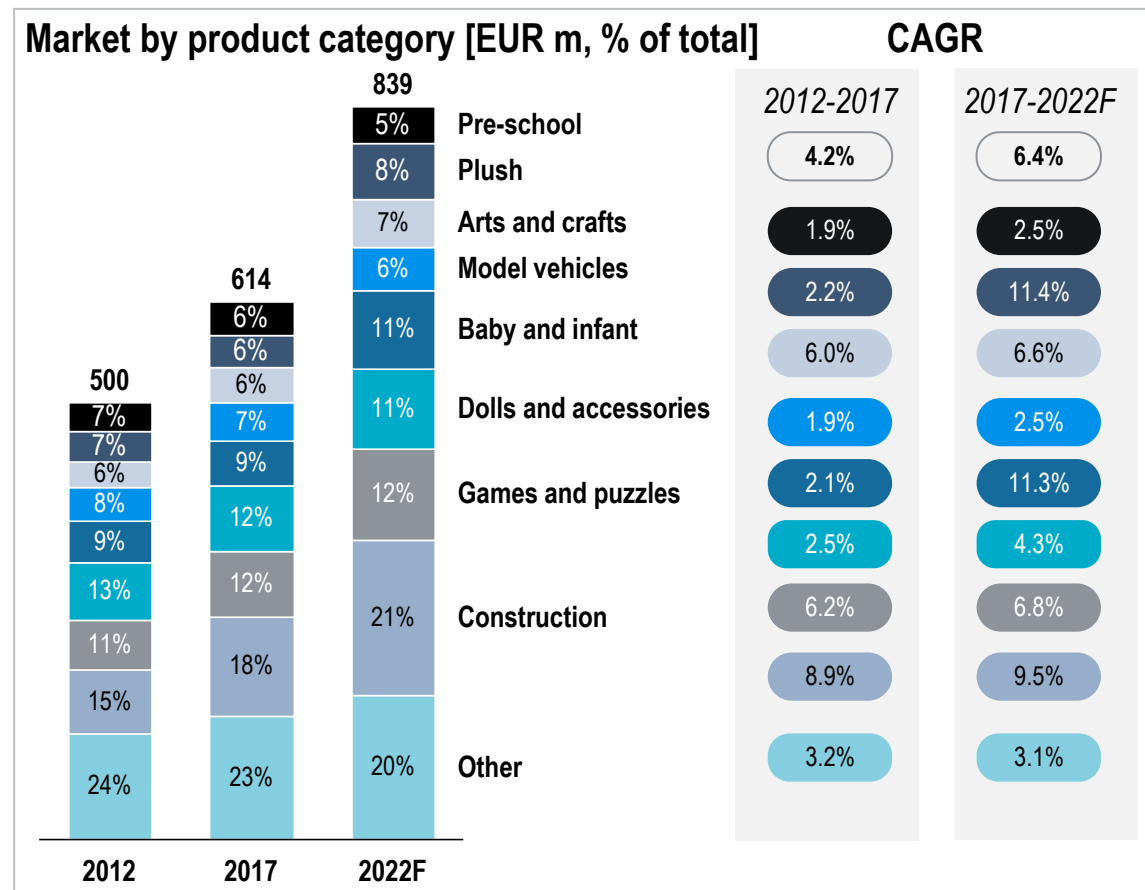
The major driver of the toys market growth is forecast to be the increase in both the average price per unit and units per child

Toys market value drivers, 2012-2022F



Construction toys are forecast to continue having the largest value within the toys market by 2022 as the number of older kids grows

Toys market by product category, 2012-2022F

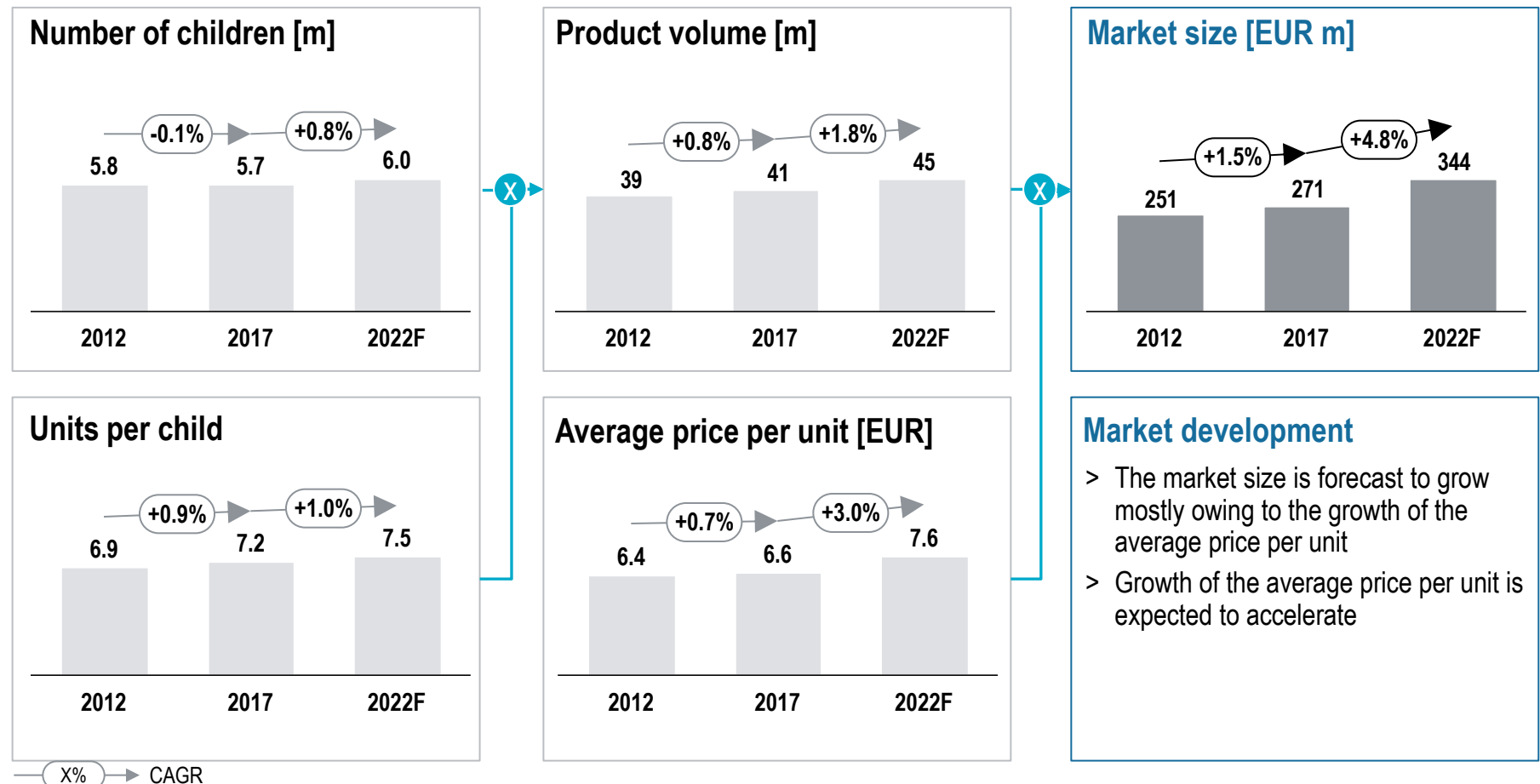


Market development

- > The largest product categories within toys are construction toys, games and puzzles, and dolls and accessories in 2017
- > Construction toys, games and puzzles, and dolls and accessories are forecast to remain the largest product categories within toys by 2022 as the number of older kids grows
- > The fastest growing product categories are expected to be plush toys and baby and infant toys due to an increase in the number of births in the next five years

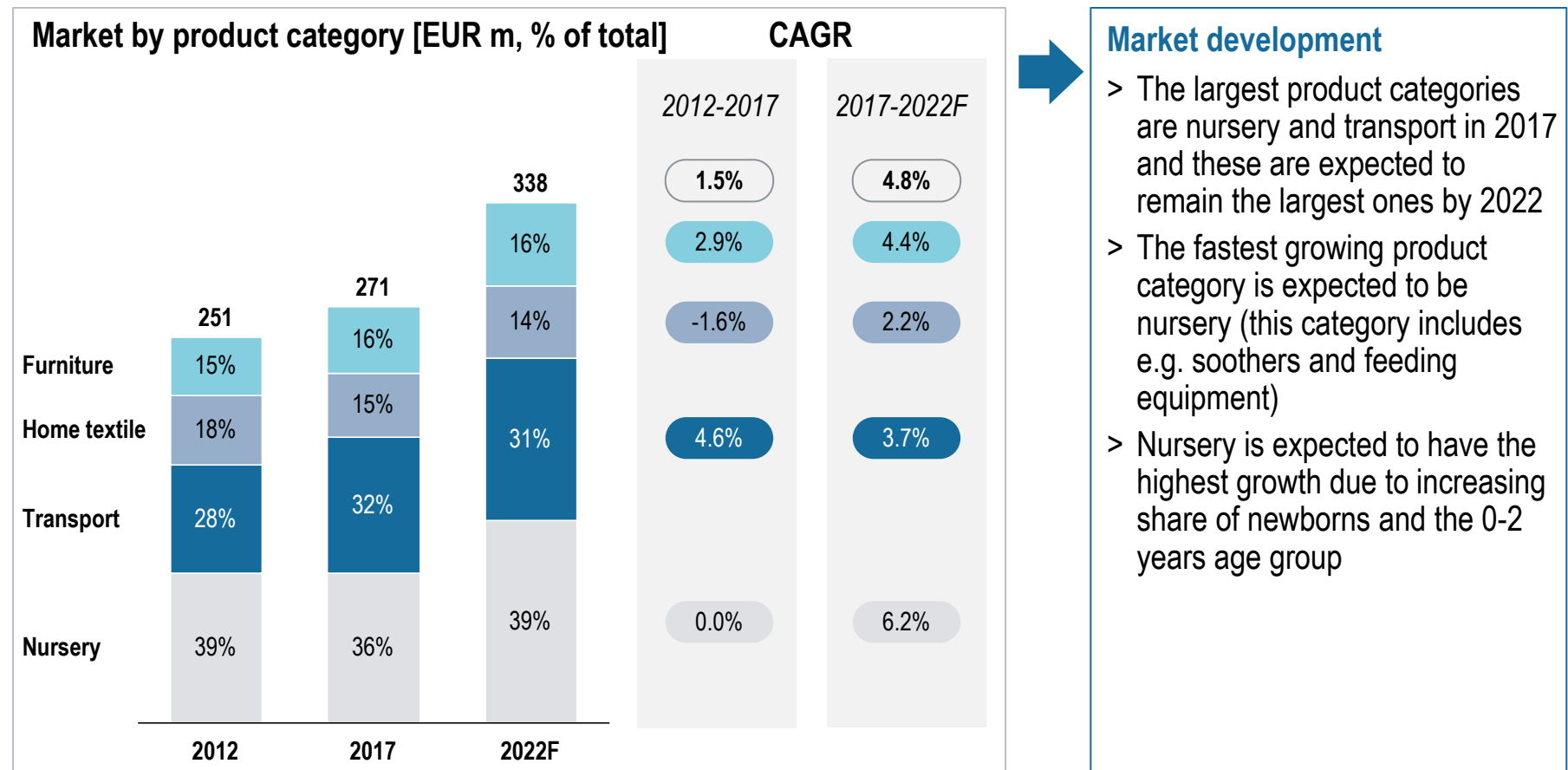
The major driver of children's hardware market growth is forecast to be the average price per unit, with units per child also growing

Children's hardware market value drivers, 2012-2022F



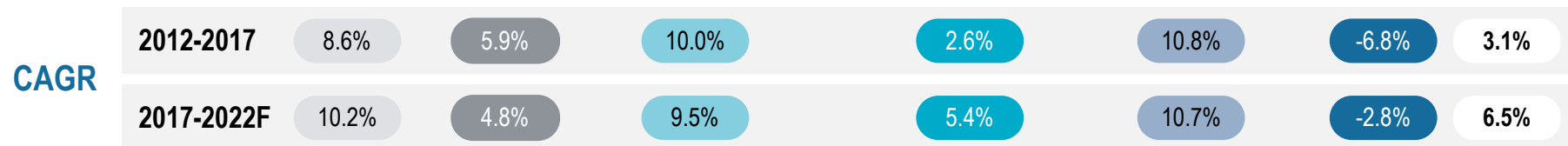
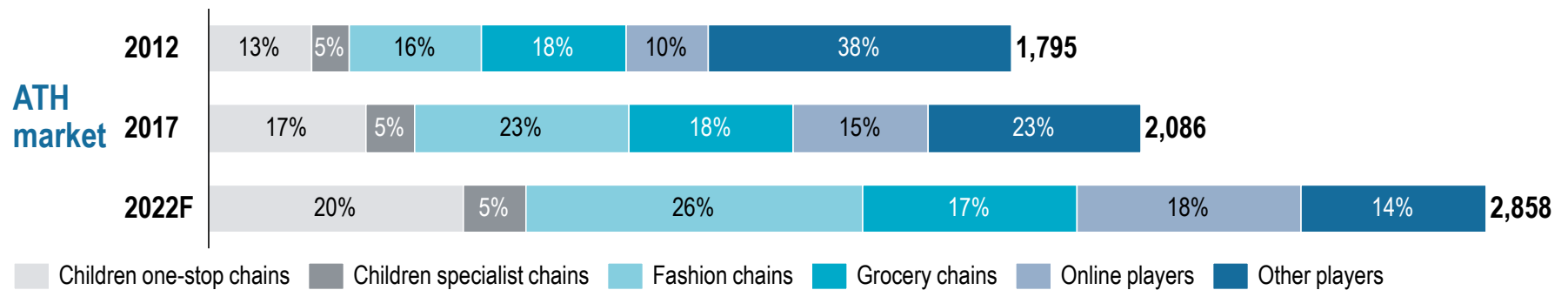
Nursery is forecast to continue to account for the largest value within the children's hardware market by 2022

Children's hardware market by product category, 2012-2022F



Fashion chains and one-stop shops are forecast to have the largest shares in the ATH market by 2022, with online growing the fastest

Share of ATH distribution channels, 2012-2022F [EUR m, % of total]

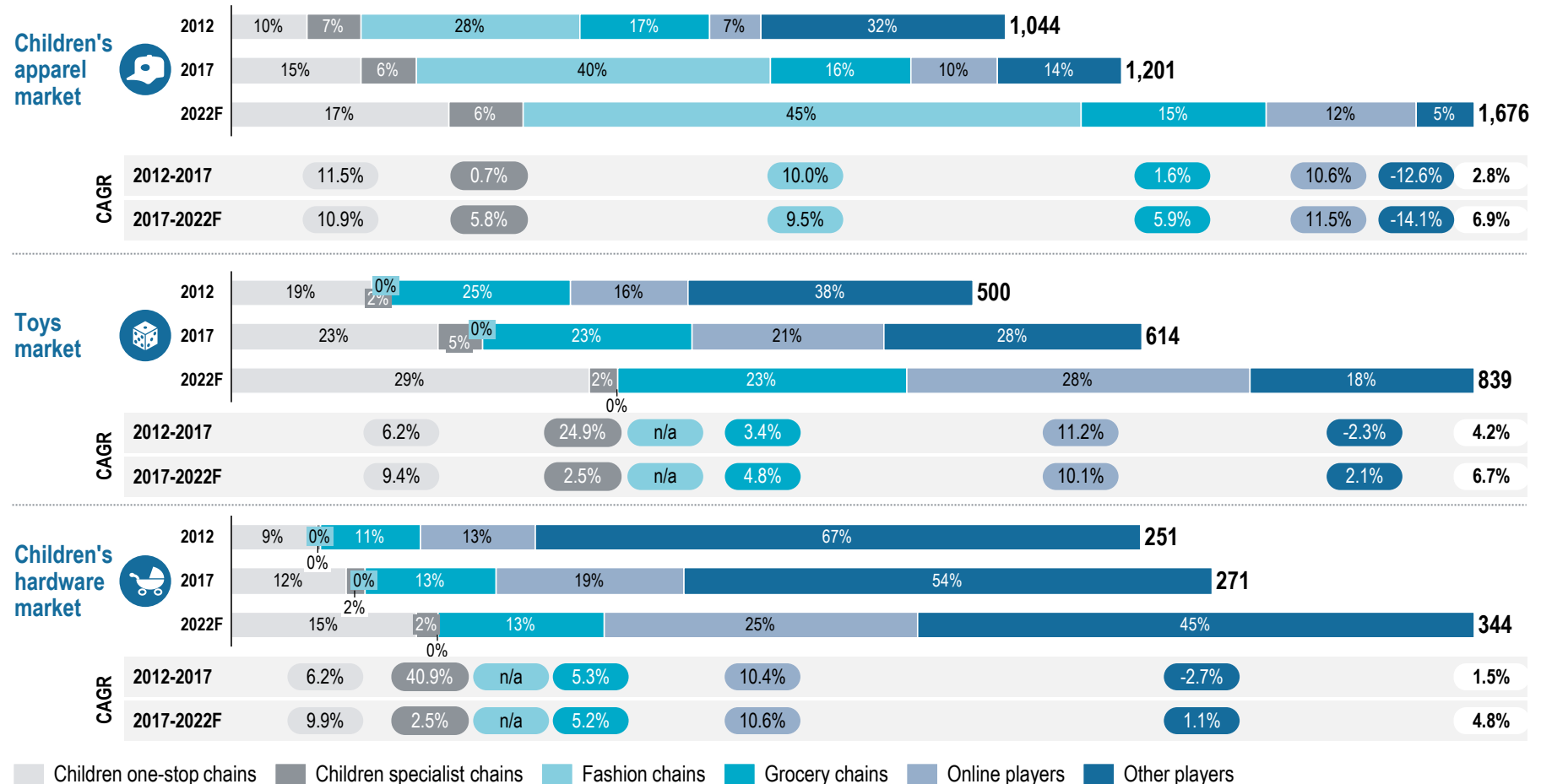


Distribution channel development

- > Fashion chains are expected to grow to become the largest distribution channel in 2022, closely followed by one-stop shop chains, while the online channel is expected to grow the fastest of all channels. Comparably high growth rates for one-stop chains, fashion chains and online players of c. 10% CAGR are aligned with customer preferences
- > The other players segment is expected to further lose market share in line with the typical "shake-out" of smaller and weaker players as the retail market consolidates over time

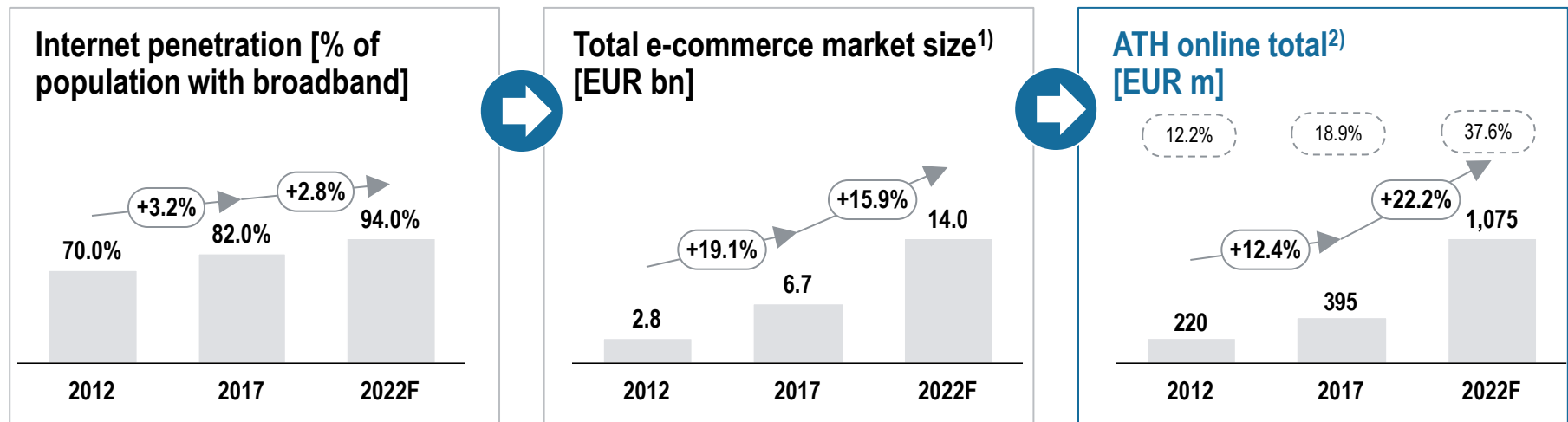
Other players segment expected to decline across all three categories – Online players and one-stop shops are the biggest beneficiaries

Share of distribution channels in ATH market, 2012-2022F [EUR m, % of total]



ATH online is forecast to grow owing to growth of both the total e-commerce market and the total ATH market

ATH online distribution channel



Market development

- > Growth of Internet penetration is expected to slow down but the penetration rate will reach almost 100%
- > Internet penetration is expected to drive the increase in the total e-commerce market, together with the customer preference towards omnichannel experience supported by Click & Collect services that is also becoming important. Although in Poland C&C is a relatively new service, in Western Europe it is estimated that on average c. 40% of e-customers have already purchased products this way – It is convenient for customers as they decide when and where to pick goods up without additional delivery costs or waiting in for a courier
- > ATH online will profit from both the total e-commerce growth and general ATH market growth
- > Smaller players are expected to move to shop-in-shop and online sales only, while bigger players push to develop multichannel sales

1) The market excludes digital media, digitally distributed services (e.g. plane tickets), B2B markets, resale of used goods (reCommerce) and sales between private persons

2) Including pure online players and online share of other players

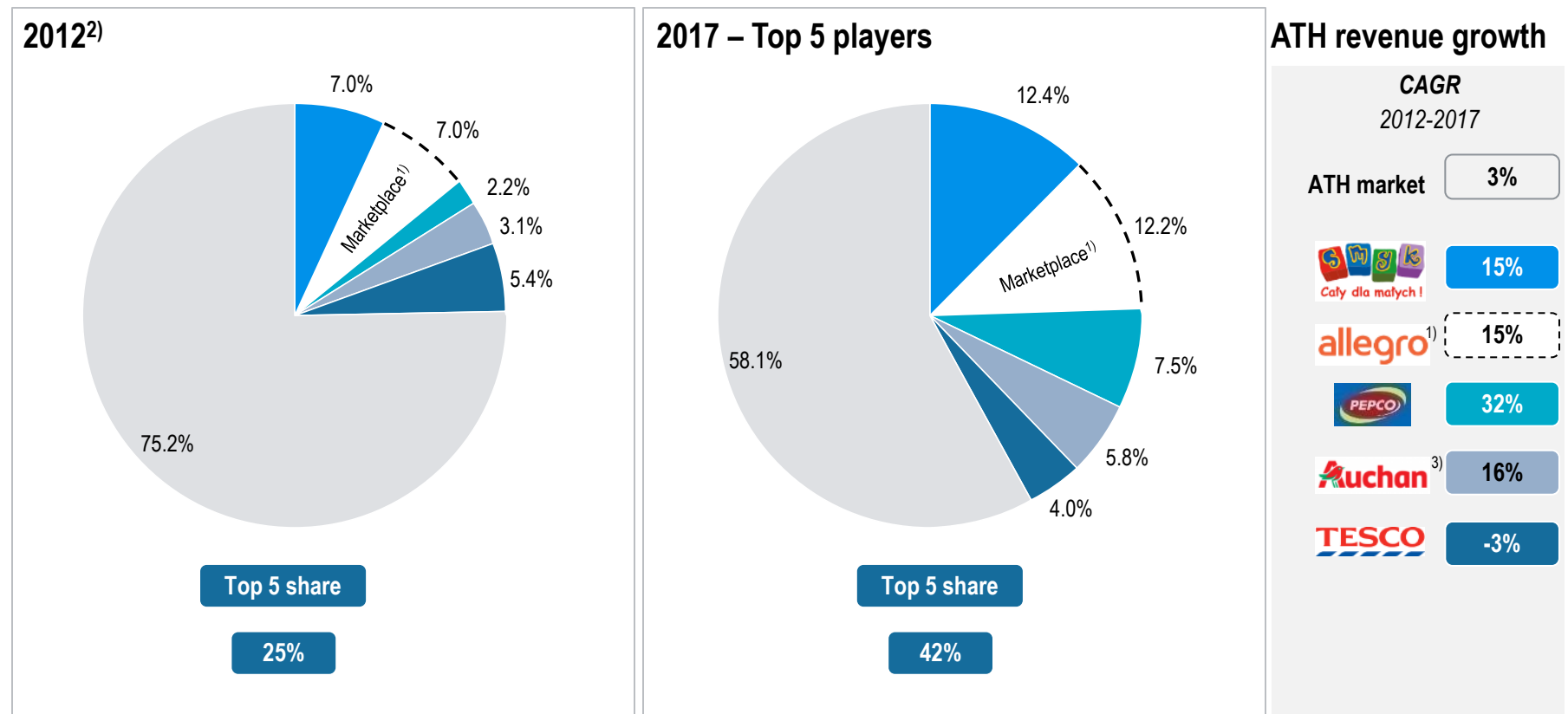
Source: Market model based on desk research, mystery store checks, expert interviews

B.2 Players in the market



In sum, 2017's top 5 ATH players experienced higher growth than the market average in 2012-2017, especially high for Smyk and Allegro¹⁾

Revenue market shares of 2017's top 5 ATH players [% of total ATH market value] Indicative



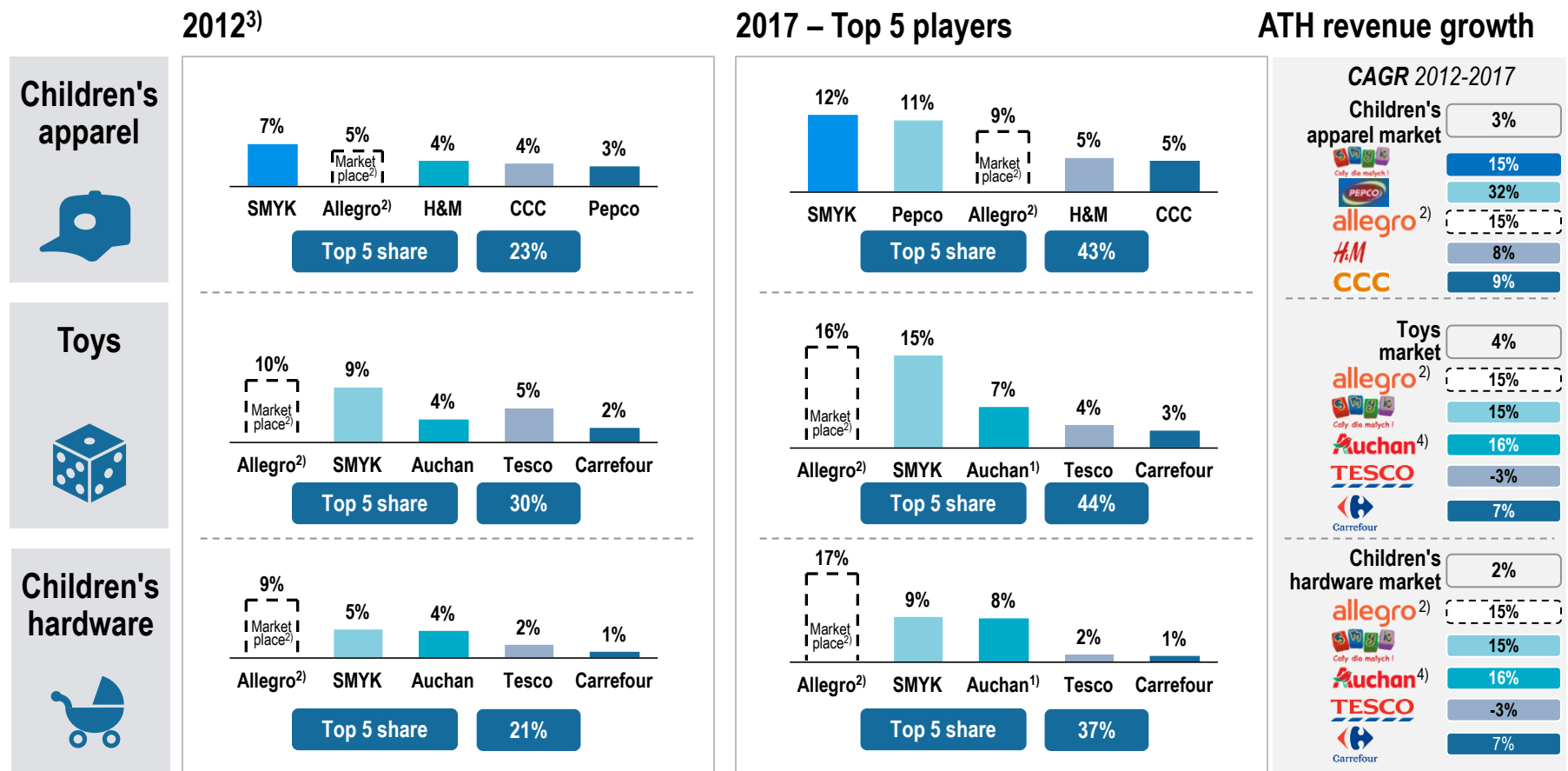
■ SMYK □ Allegro ■ Pepco ■ Auchan ■ Tesco ■ Others

1) Based on ATH value of transactions generated by Allegro as a marketplace 2) Based on ranking of 2017's top 5 players 3) Includes effect of merger with Real

The top 5 players of 2017 by product category also experienced high growth over the past several years

Revenue market shares of 2017 top 5 ATH players [% of group value]

Indicative

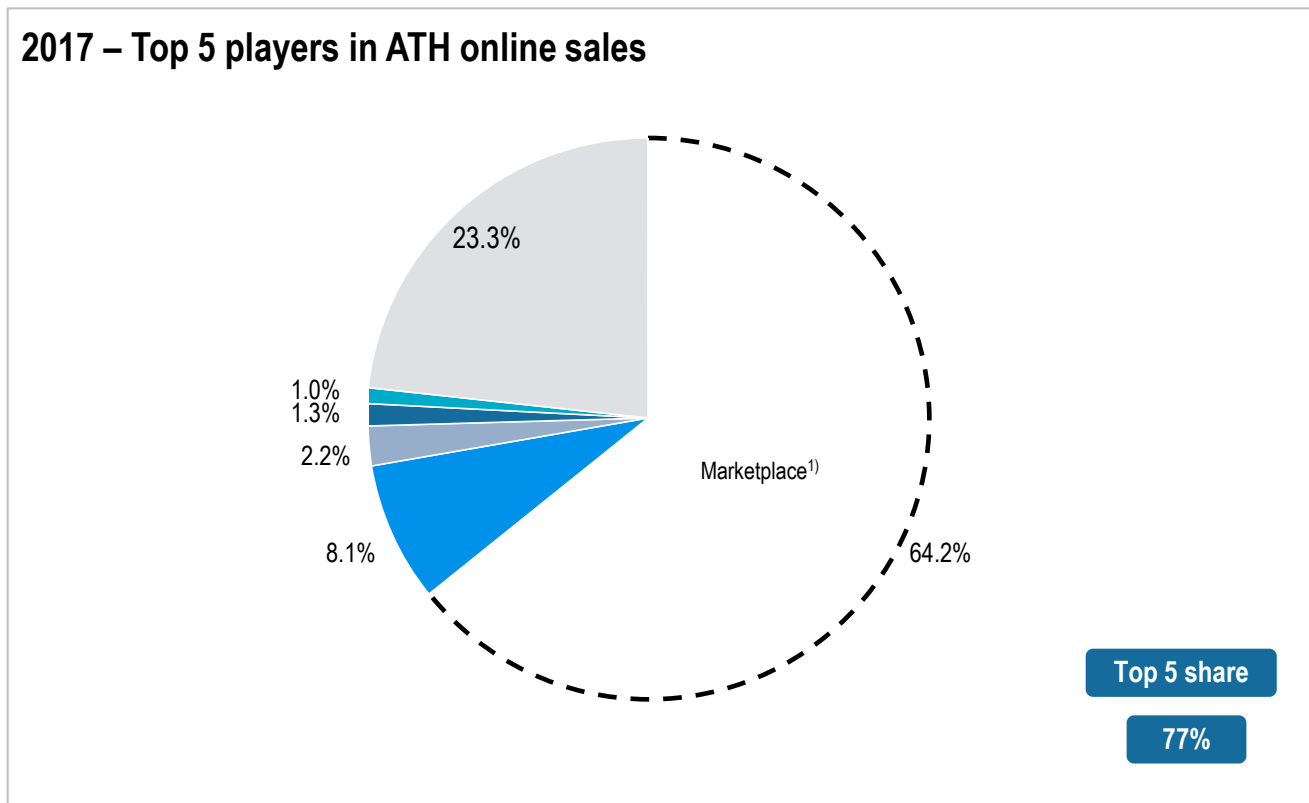


1) Includes growth driven by 2014 acquisition of Real 2) Based on ATH value of transactions generated by Allegro as a marketplace 3) Based on ranking of 2017's top 5 players 4) Includes effect of merger with Real

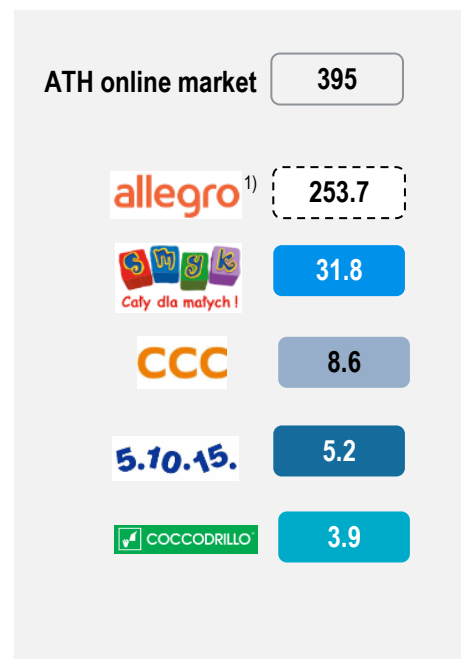
ATH online market is more consolidated as c. 77% of the market is generated by the Top 5 players - mainly by market place provider

Online revenue market shares of top 5 ATH players in 2017 [% of total online ATH market value]

Indicative



ATH online revenue [EUR m]



■ SMYK ■ CCC ■ 5 10 15 ■ Coccodrillo ■ Others







1) Based on ATH value of transactions generated by Allegro as a marketplace

Players cover the full market spectrum – Largest share of ATH revenue from generalists

ATH market segments and selected segment players [% share in ATH market revenue]¹⁾

Breadth of product assortment [generalist vs. specialist]

















 Bubble size represents % share in ATH market revenue
 Children's one-stop chains  Children's specialist chains  Online players  Grocery chains  Fashion chains

1) As of 2017 2) % share based on ATH value of transactions generated by Allegro as a marketplace

One-stop children's chains cover all ATH categories, whereas specialist children's chains concentrate either on apparel or on toys

ATH product category coverage of selected market players (1/2)

		 Children's apparel	 Toys	 Children's hardware
	 Smyk	✓	✓	✓
	 5.10.15.	✓	✓	✓
	 Swiat dziecka	✓	✓	✓
	 Cocodrillo	✓	✗	✗
	 Toys R Us	✗	✓	✓
	 Bartek	✓	✗	✗
	 Okaidi	✓	✗	✗
	 Tup Tup [Kanz]	✓	✗	✗
	 Toy Planet	✗	✓	✓

✓ Company has such products

✗ Company does not have such products

Large hypermarkets and the online players offer a wide ATH range – Fashion chains concentrate mostly on children's apparel within ATH

ATH product category coverage of selected market players (2/2)

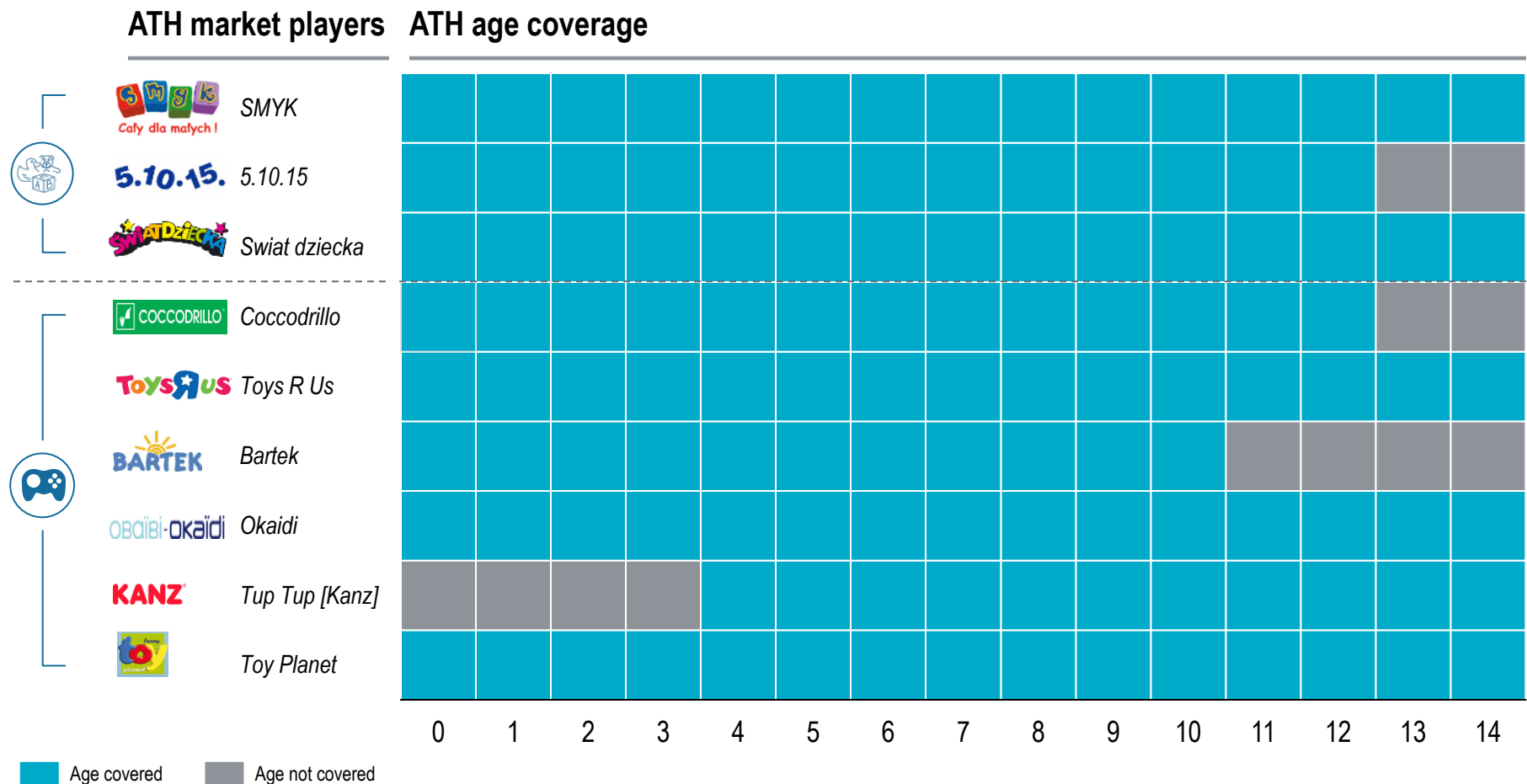
			 Children's apparel	 Toys	 Children's hardware
		H&M	✓	X	X
		CCC	✓	X	X
		Reserved	✓	X	X
		Pepco	✓	✓	X
	ZARA kids	Zara Kids	✓	X	X
		C&A	✓	X	X
		TXM	✓	X	X
	REPORTER	Reporter	✓	X	X
		Deichmann	✓	X	X
		Auchan	✓	✓	✓
		Tesco	✓	✓	✓
		Lidl	✓	✓	X
		Carrefour	✓	✓	✓
		Kaufland	X	✓	X
		Allegro	✓	✓	✓

✓ Company has such products

X Company does not have such products

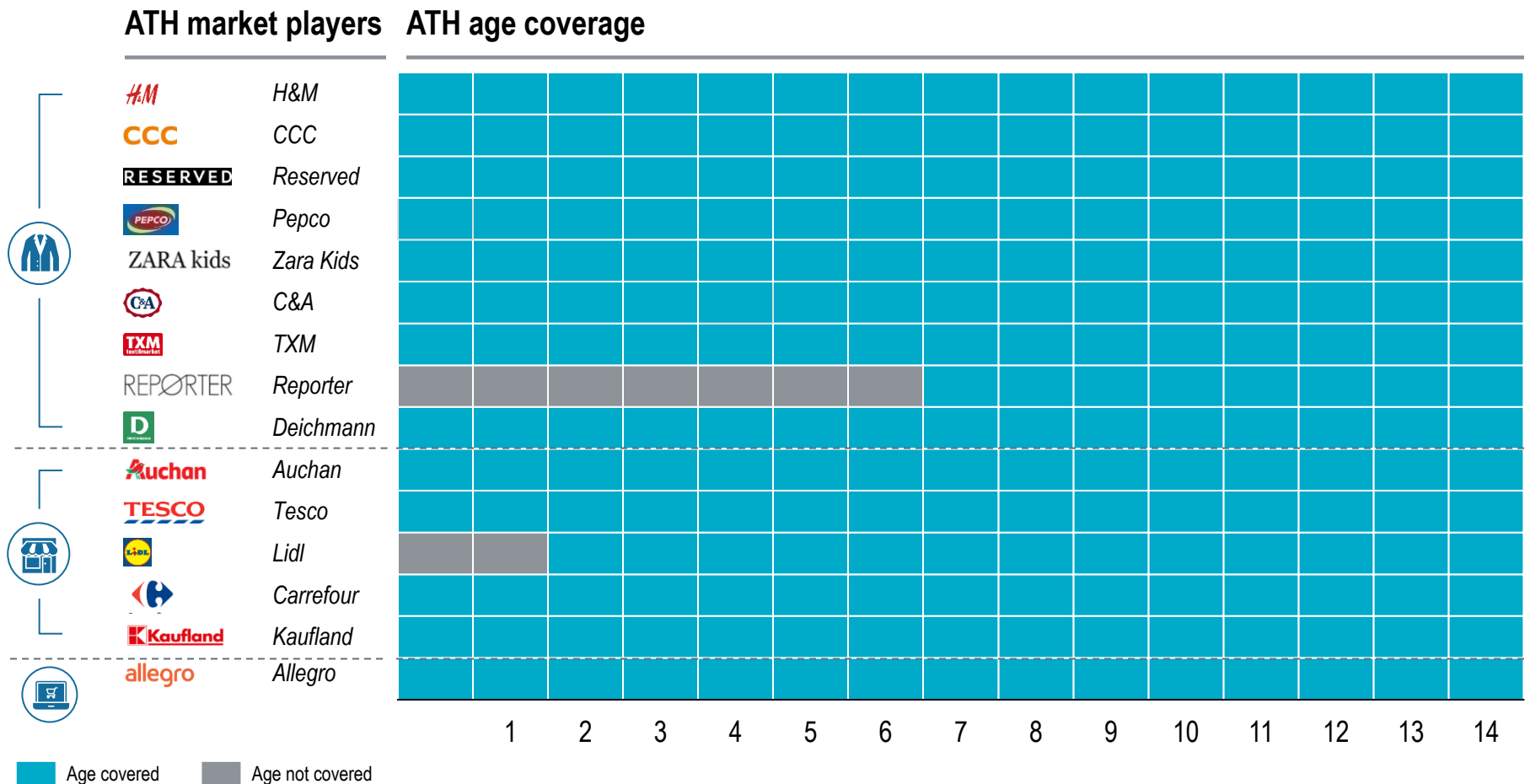
Most key chains focused on ATH markets cover all ages of children

ATH age coverage by selected market players (1/2)



Key fashion and grocery chains as well as online players cover all ages of children within their ATH offerings

ATH age coverage by selected market players (2/2)



Source: Mystery store checks

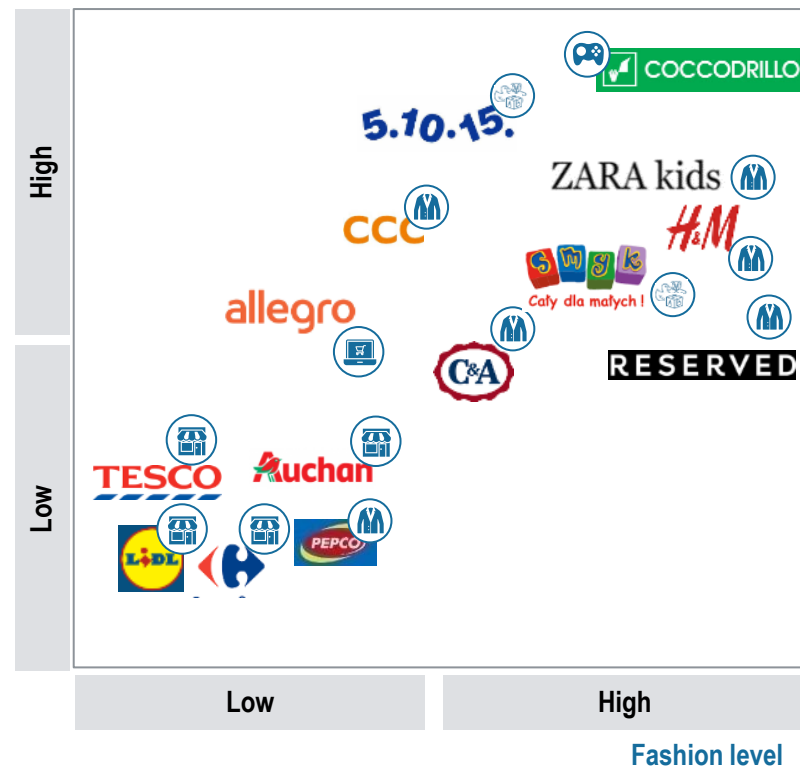
Grocery chains and discounters are at the low end, while fashion chains & children-focused chains lead in terms of fashionable apparel

Competitive positioning of selected children's apparel market players, 2018

Indicative

Competitive positioning






Price level



Approaches to competitive positioning

- > Coccodrillo, 5.10.15 and Zara Kids are among the chains with the highest positioning in terms of price
- > At the opposite end of the spectrum, Lidl, Tesco and Auchan are positioned to attract a large customer base sensitive to price

Comments on competitive positioning

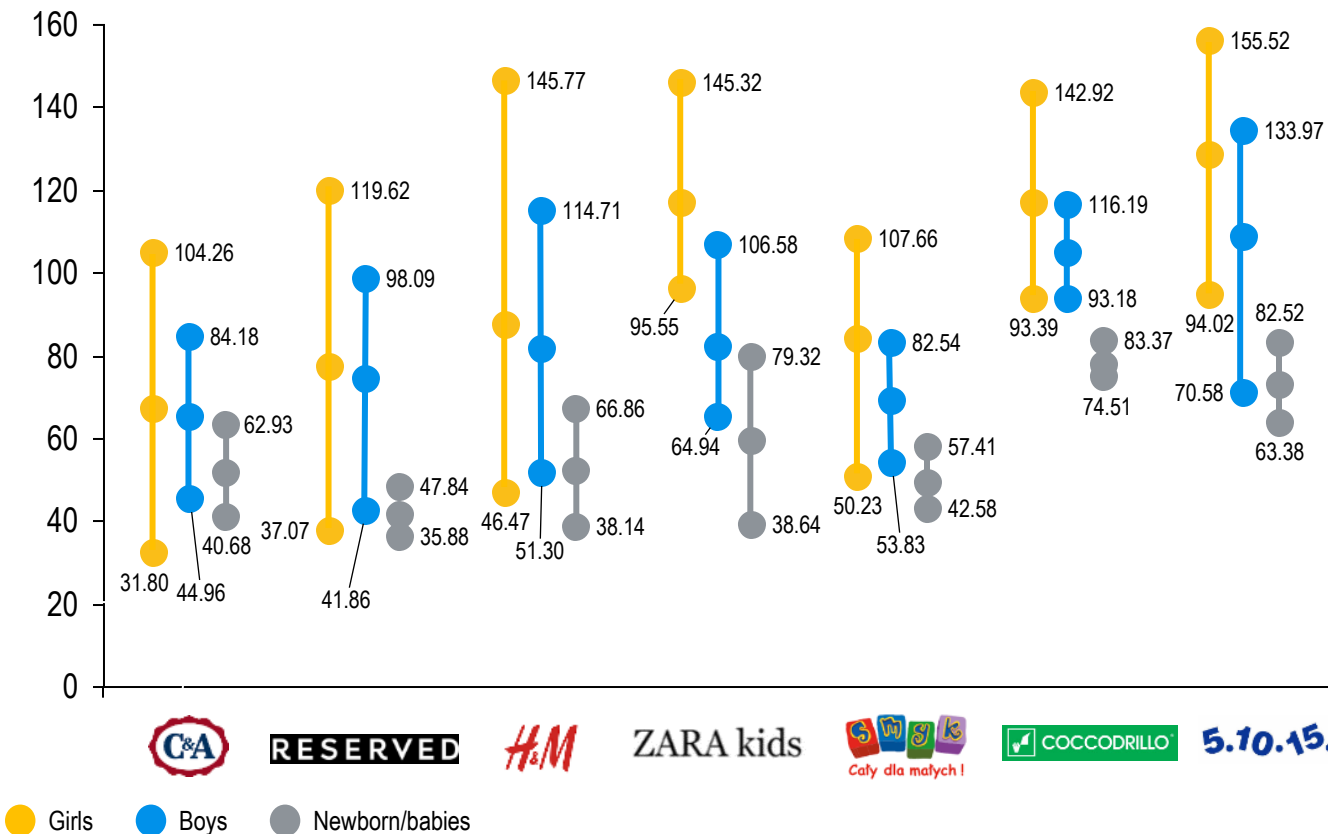
-  Children's one-stop chains strive to offer a relatively high fashion level at an affordable price
-  Children's specialist chains have a similar approach to children's one-stop chains
-  Fashion chains have various approaches – From more fashionable to very basic apparel, with adjusted prices
-  Grocery chains offer basic apparel at comparatively low prices
-  The key online player is positioned at the lower end of the fashion spectrum and at medium price level – For Allegro as a marketplace the scope of offers is wide and there is no single positioning

For selected shopping baskets, girls with highest price spreads and overall higher average prices

Price comparison of selected children's apparel market players, snapshot



Price per shopping basket, min/avrg/max [EUR]



Comments on methodology

- > Data input based on store checks conducted by TNS Kantar during the time period of 19.07.18-24.07.18 in selected stores in Warsaw¹⁾
- > Effects of sales season could minimally occur, though we used the regular prices per item per category for the analysis
- > Shopping baskets include:
 - Only single items, no multi-packs
 - Younger/older girls: 8 product categories; dresses (casual, elegant), t-shirts (long, short, no sleeve), leggings, trousers, shorts
 - Younger/older boys: 6 product categories; t-shirts (long, short), sweatshirts, trousers, jeans, shorts
 - Newborn/babies: 6 product categories; t-shirts (short & long sleeve), short-sleeve body, sweatshirt, jeans, shorts

1) Prices were recorded in PLN, thus we converted it to EUR (1 EUR = 4,17907), based on Oxford economics database

Smyk, 5.10.15 and Coccodrillo are children-focused chains with a large number of stores

Retail distribution of selected ATH market players, 2017 (1/2)

Indicative

ATH market players	ATH revenues ¹⁾ and market share 2017 [EUR m, %]		Number of stores	Typical store area [sqm]	Type of format	
	Own	Franchised				
Smyk	259	12.4%	156	700	✓	✗
5.10.15	36	1.7%	220	100	✓	✓
Swiat dziecka	4	0.2%	5	1,000	✓	✗
Coccodrillo	38	1.8%	250	70	✓	✓
Toys R Us	16	0.8%	16	2,000	✓	✗
Bartek	10	0.5%	36	60	✓	✗
Okaidi	6	0.3%	20	185	✓	✗
Tup Tup [Kanz]	3	0.1%	24	70	✓	✓
Toy Planet	1	0.0%	30	125	✓	✓

✓ Company has such type of format ✗ Company does not have such type of format

1) Estimation of revenues from ATH market on the basis of financial statements and assumed % of ATH in revenues

Selected fashion and grocery chains already have a high store coverage

Retail distribution of selected ATH market players, 2017 (2/2)

Indicative

ATH market players		ATH revenues ¹⁾ and market share 2017 [EUR m, %]		Number of stores	Typical store area [sqm]	Type of format	
						Own	Franchised
	Pepco	157	7.5%	780	450	✓	X
	H&M	64	3.1%	175	1,800	✓	X
	CCC	59	2.9%	448	550	✓	✓
	Reserved	58	2.8%	232	1,200	✓	X
	ZARA kids Zara Kids	43	2.0%	44	1,200	✓	X
	C&A	27	1.3%	46	1,500	✓	X
	TXM	18	0.9%	371	250	✓	✓
	REPORTER Reporter	14	0.7%	134	75	✓	✓
	Deichmann	11	0.5%	249	500	✓	X
	Auchan	121	5.8%	110	7,250	✓	X
	Tesco	84	4.0%	420	2,050	✓	X
	Lidl	64	3.1%	630	1,050	✓	X
	Carrefour	38	1.8%	243	2,300	✓	X
	Kaufland	9	0.4%	206	2,500	✓	X
	Allegro	254 ²⁾	12.2%			X	X

✓ Company has such type of format X Company does not have such type of format

Source: Mystery store checks, desk research, expert interviews

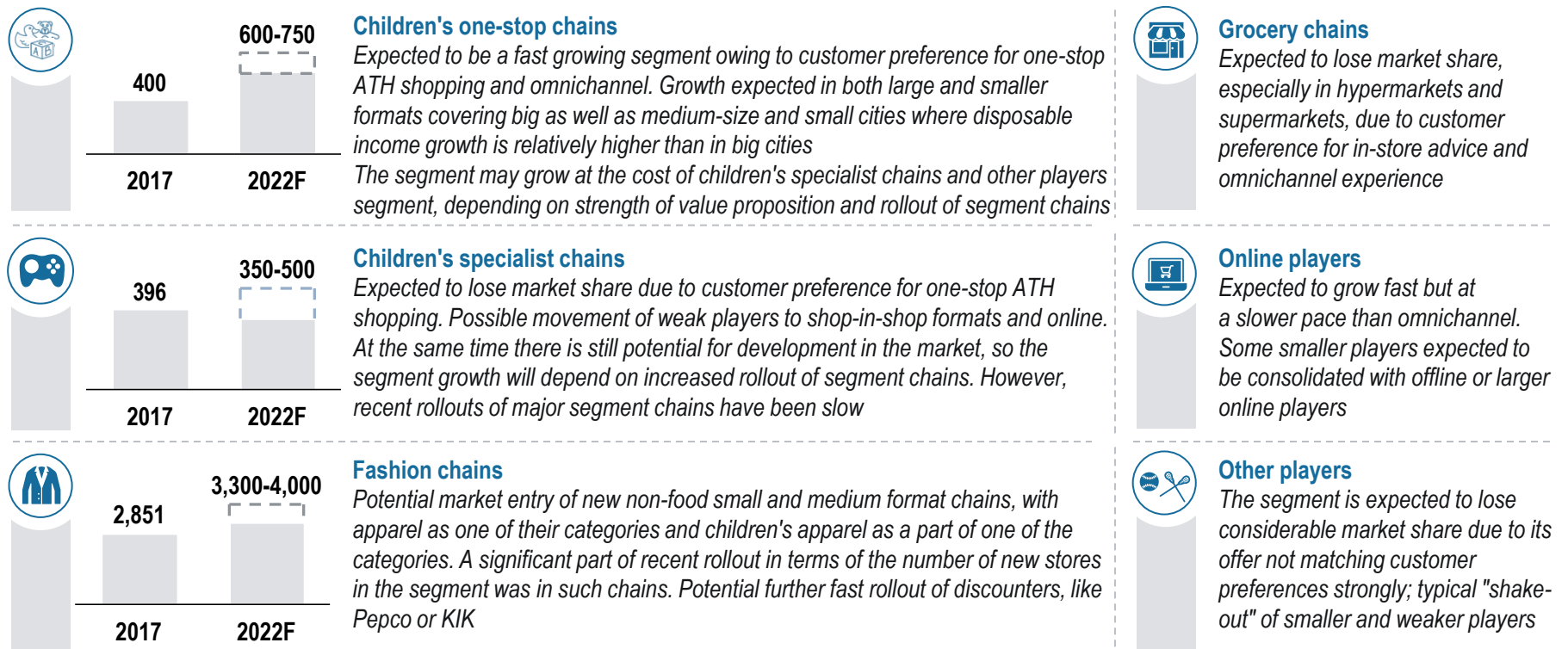
1) Estimation of revenues from ATH market on the basis of financial statements and assumed % of ATH in revenues 2) Based on ATH value of transactions generated by Allegro as a marketplace

B.3 Market segment development



Children's one-stop chains are expected to be fast growing, followed by online players

Development of retail distribution by ATH market segments¹⁾ [# of stores]

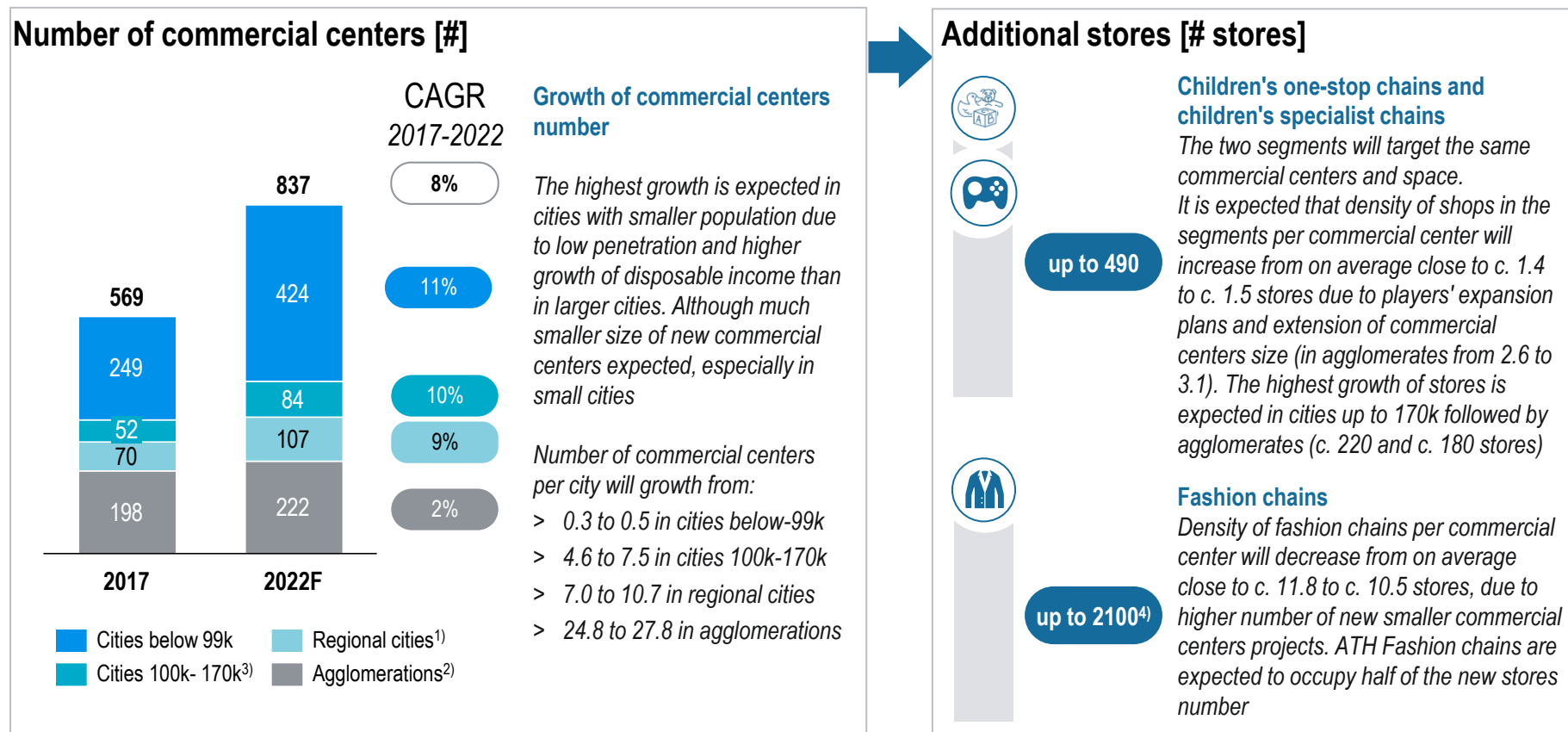


High growth is expected for children's one-stop shops and fashion chains, mostly by expanding in medium-size and small cities and by growing revenues owing to omnichannel offer

1) Methodology used is described in slide 140

Higher growth of commercial centers in smaller cities creates new opportunities for players in the ATH market

Development of new commercial centers and potential number of additional stores



1) Białystok, Bielsko-Biała, Bydgoszcz, Częstochowa, Kielce, Lublin, Olsztyn, Radom, Rzeszów, Toruń 2) Kraków, Łódź, Poznań, Szczecin, Tricity (Gdańsk, Gdynia, Sopot), Upper Silesia (Katowice), Warsaw, Wrocław 3) Cities that are not included in Agglomerations 4) Total number of new shops of fashion chains, part of them are ATH fashion chains

C. Romania



Strong macroeconomic fundamentals will continue to fuel the ATH market development in Romania

Executive summary (1/2)

1 Market overview

- > The ATH market had a value of approximately EUR 815 m in 2017, with a CAGR of 5.1% in the past five years – The **market value** is forecast to **grow at an accelerated CAGR of 7.0%** and is anticipated to reach over EUR 1 bn by 2022
- > The total number of children aged 0-14 is expected to decrease slightly by 2022, in spite of continued state subsidies for childbirth
- > However, the **primary growth driver** is the projected **rise in disposable income at a CAGR of approximately 9%** over the forecast period
- > **Distribution channel trends** on the Romanian market favor **further development in modern retail**, which is expected to increase its penetration of the ATH market, mainly in big but also in medium-size and small urban areas (consumers favor modern retail for the wide SKU range and one-stop shopping features)
- > The trend towards **omnichannel development will continue**, with both pure play retailers and physical retailers increasing their online presence – In fact, e-commerce in the ATH market is forecast to grow at about 15.6% CAGR through 2022
- > **Product trends** point towards high brand awareness and increased popularity of licensed toys – At the same time, private label maintains around 30% of the value share in the ATH market, addressing the need for products offering value for money
- > A strong contributor to market development is the **growing preference for higher quality products** – This has also in part led to a decline in the gray market for ATH
- > **ATH product segments** are dominated by apparel in value terms (63% of the market), followed by toys (23%) and hardware (14%) – The fastest growing segment is expected to be apparel, as a result of customer preference for more premium products and continued decrease of gray and second-hand markets

The market is consolidating, with strong growth from key one-stop shop players like Noriel and Jumbo, as well as from online players

Executive summary (2/2)

2 Players in the market

- > **Top 5 players make up approximately a third of the ATH market** in 2017 (+18 percentage points vs. 2012) – Visible impact from development of specialized stores (Noriel, Jumbo) and of leading Romanian e-commerce player eMAG
- > One-stop shop specialists, grocery retailers and online players generally **cover all three ATH product categories**, while children's specialist chains and fashion chains are focused on only one product category
- > In terms of **age coverage**, the majority of players address the entire 0-14-year-old age groups
- > **Players cover the full market spectrum in terms of breadth of product assortment and level of child focus** – Largest share of ATH revenues comes from chains with high SKUs. Modern apparel chains are positioned at the high and low end of the price/fashion spectrum
- > In terms of **outlet size**, certain specialized stores are experimenting with large formats carrying a broad range of SKUs (e.g. Noriel Mega Store concept). At the same time, grocery retailers offer ATH categories predominantly in large format stores

3 Market segment development

- > **One-stop shops and online players** experienced the strongest growth in the past five years
- > **One-stop shop chains** doubled their number of stores in the past five years and are forecast to increase their footprint by an additional 60-100% by 2022, while shifting to larger stores
- > **Online players** saw considerable growth as the overall e-commerce market started to develop – The main share being attributed to the leading Romanian e-commerce player, eMAG
- > **Grocery chains** are moderately growing market share due to penetration of modern retail in small urban areas currently dominated by traditional trade
- > **Fashion chains'** market share expected to remain stable, as key players (Zara, H&M) have stabilized their growth
- > **Children's specialist chains** and **independent retailers** are expected to experience further market share erosion as pressure from all other formats mounts
- > **In 2022**, the total number of stores is expected to reach **up to 270 children's one-stop chain stores, 140 children's specialized chain stores and 510 fashion chain stores**

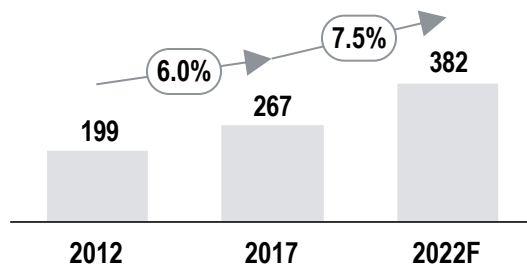
C.1 Market overview



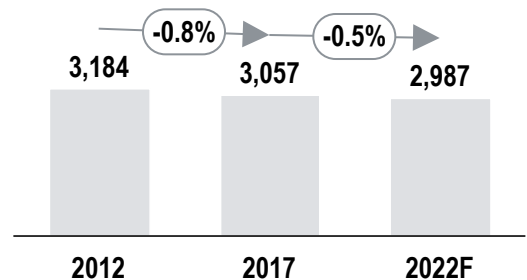
ATH market is expected to grow owing mostly to the growth of annual spend per child

ATH market value and key drivers

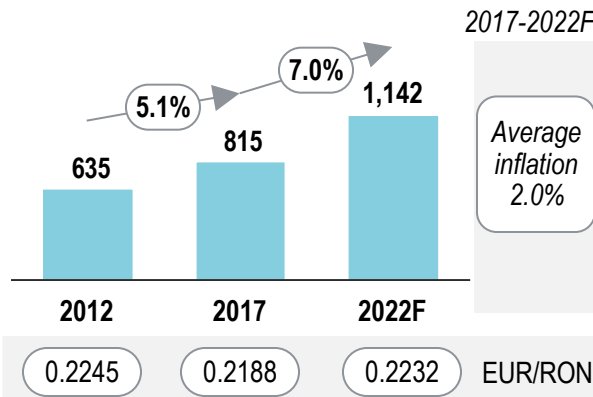
Annual spend per child [EUR]



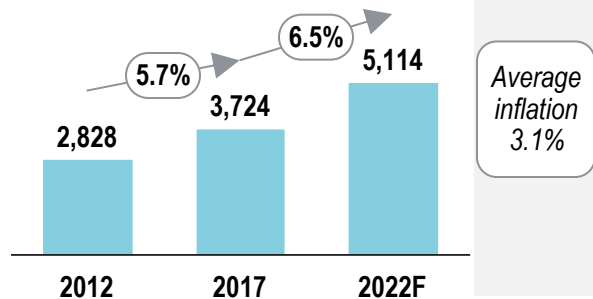
Number of children ['000]



Market value [EUR m]



Market value [RON m]



ATH market drivers and trends



Macroeconomic drivers

- > Annual spend per child is c. 2.5x below the average of selected Western European countries, leading to a catch-up driven by disposable income growth



Country consumption drivers

- > High GDP growth with falling unemployment rate increases disposable income of households



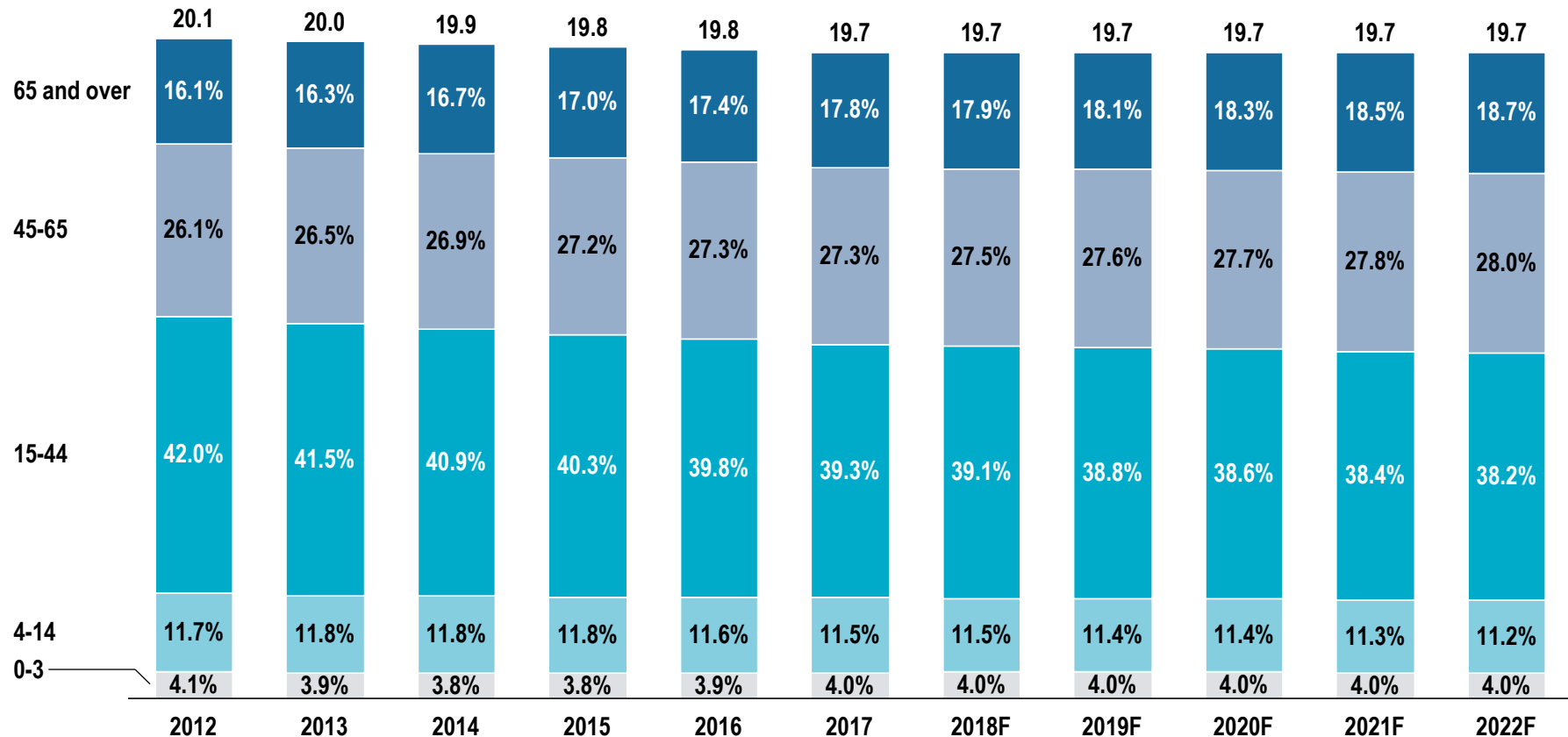
ATH market trends

- > Increasing penetration of modern retail
- > Importance of omnichannel, driven by increased access to Internet

X% → CAGR

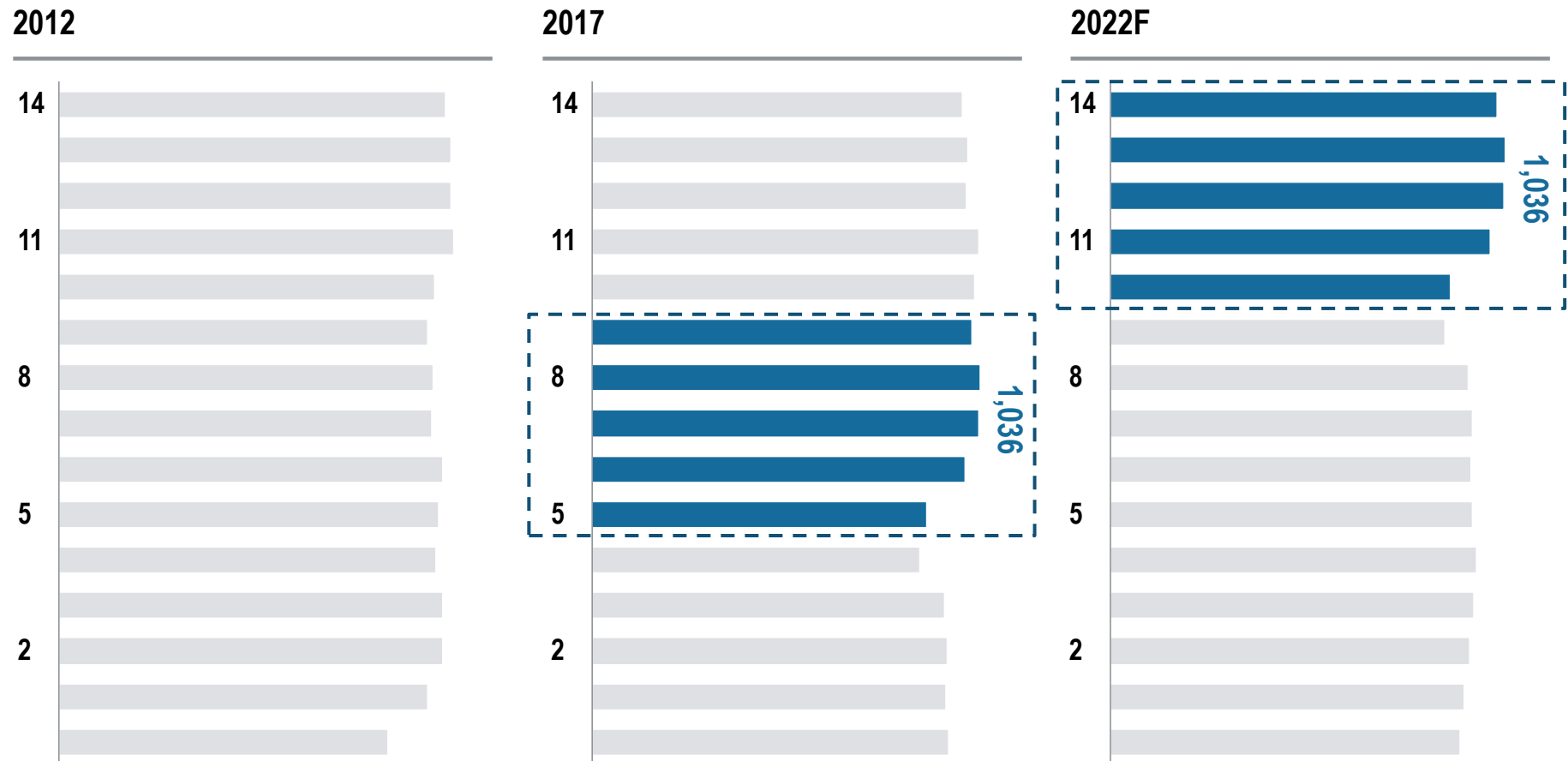
The share of the population below 15 years old is forecast to remain relatively stable

Population structure by age [total in m, % by age]



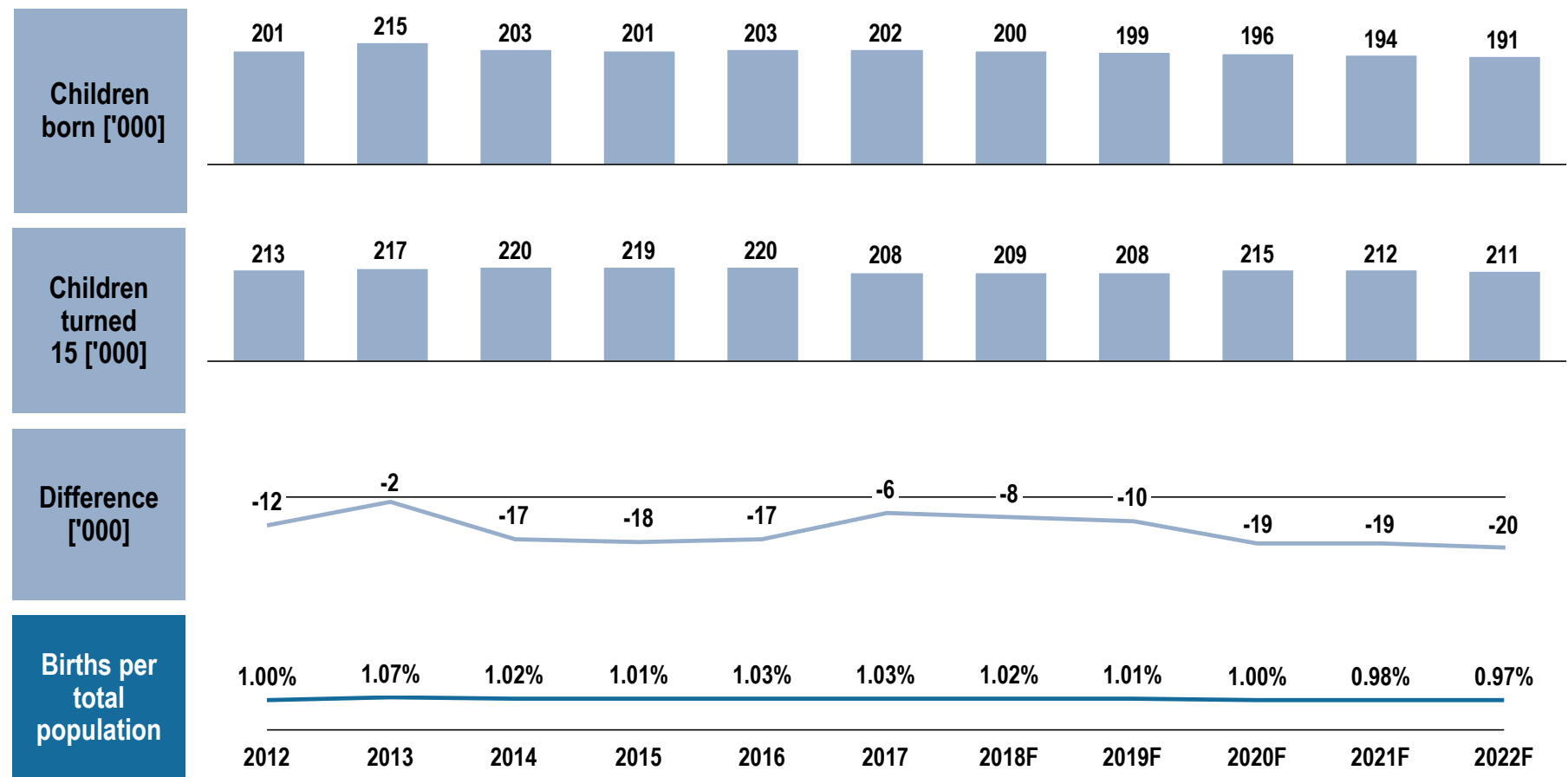
Children above 10 years old are forecast to constitute the highest share of the total number of children by 2022

Number of children by age ['000]



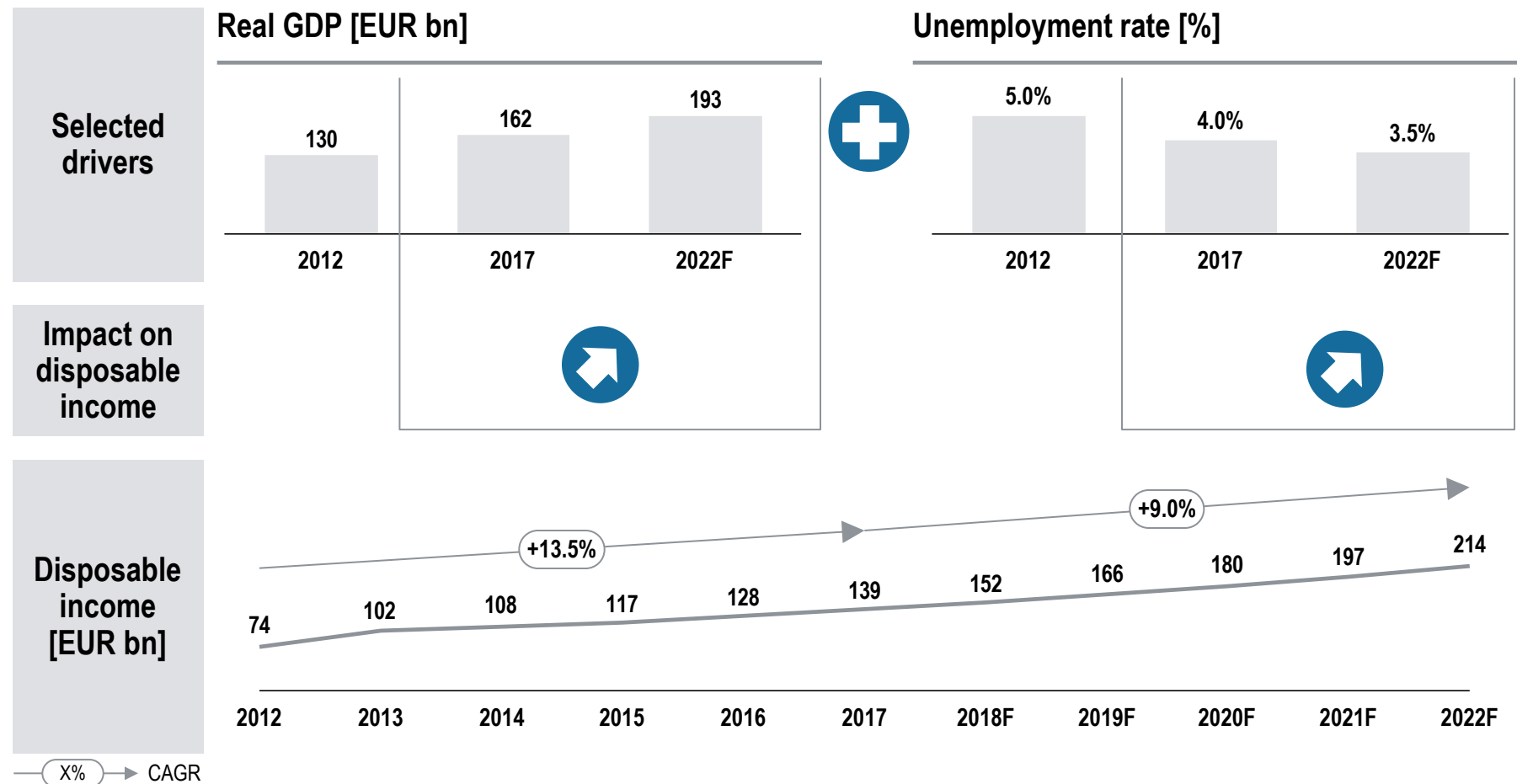
The number of children is going to drop through 2022 mainly due to decreasing birth rates

Children's group entries, exits and birth rates



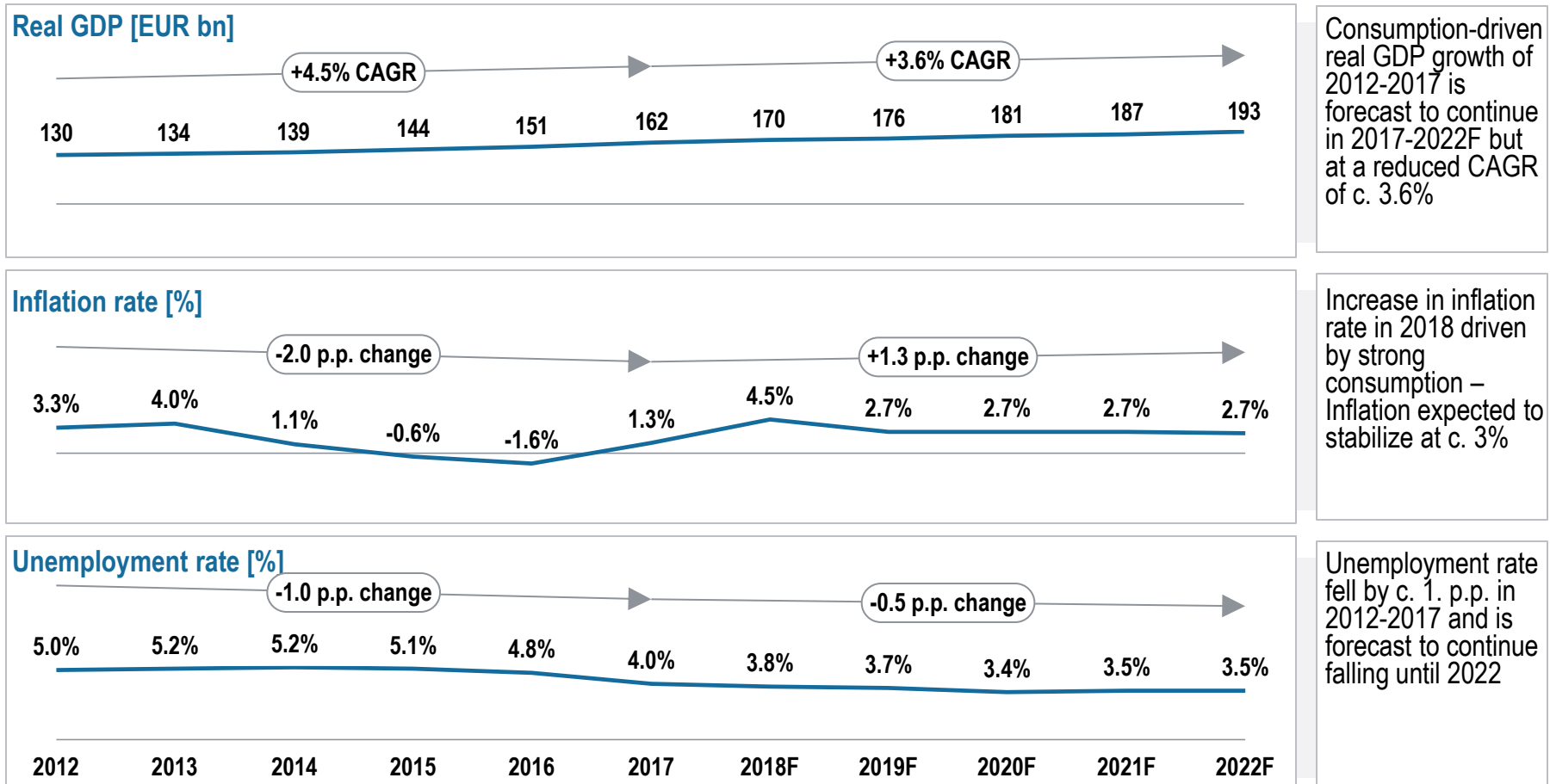
Forecast development of real GDP and unemployment rates are expected to positively impact disposable income growth

Disposable income and its selected drivers



Generally favorable economic conditions expected through 2022, driven by GDP growth, stable inflation and decreasing unemployment rates

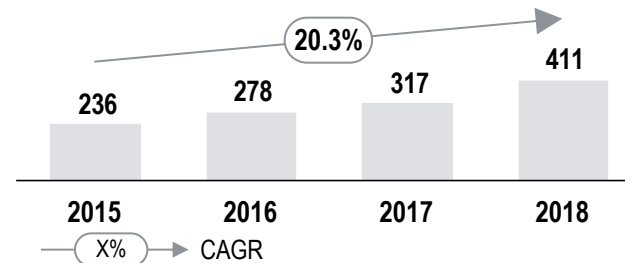
Macroeconomic indicators, 2012-2022F



Favorable macroeconomic environment along with some government stimulus measures have supported ATH market growth

Country-specific consumption drivers and trends

Minimum salary development [EUR]



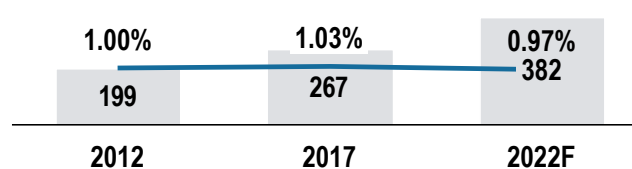
Tax reductions

- > VAT reduction in 2017 to 19%, down from 21% previously
- > Abolition of 102 tax packages

Birth-related benefits

- > State subsidies for maternity/paternity leave covering 85% of gross income for up to 2 years
- > Ceiling for subsidies briefly removed between 2016-2017, leading to increase in parents opting for birth leave

Annual spend per child [EUR] and births per total population



Significant increase in minimum wage over 2017-2018 has been a key driver of disposable income and consumption growth

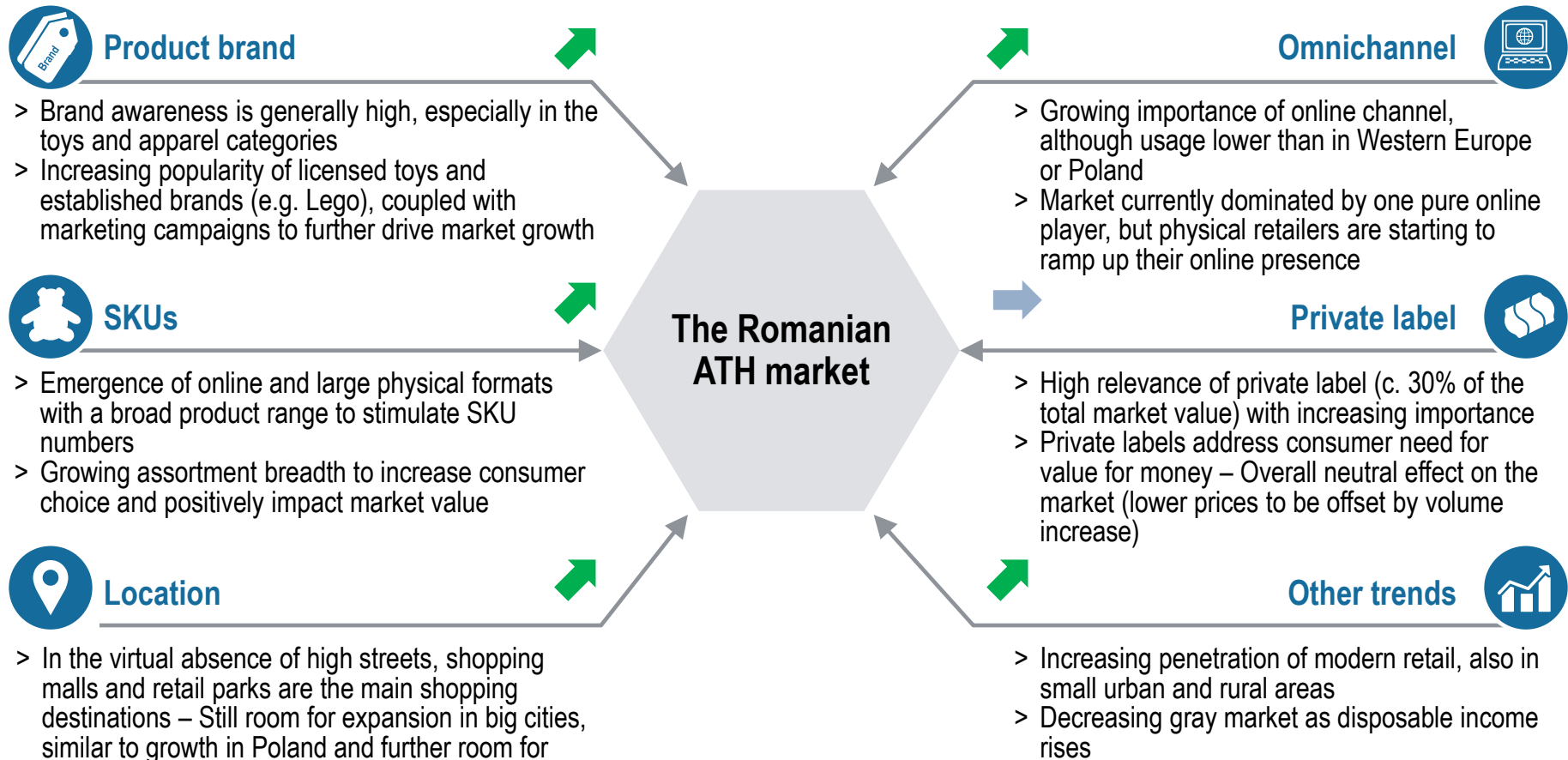
Sharp rise in disposable income resulting from wage increases and tax reductions has influenced GDP growth that reached 8.9% in Q3 2017 – Growth expected to cool down and stabilize over forthcoming period

State subsidies for childbirth, addressing both maternity and paternity leave, act as a buffer for working parents – However, limited impact on birth rate growth expected from subsidies going forward

Despite reduction in child population, overall consumption growth and increase in annual spend per child are set to drive market value growth

Key market characteristics suggest strong growth potential for the ATH market in Romania

Key trends and market characteristics



Overall impact on the ATH market value: Positive Negative Neutral

We have gathered significant insights into key Romanian ATH market trends by interviewing local industry experts

Selected quotes from interviews with market participants

Customers prefer specialized stores because they can find variety and quality there at the same time, which is not the case with non-specialized stores like supermarkets.

Import Manager, children's apparel retailer



In the past two years, it became very important to also have an online store for selling children's products, especially for toys. Customers are using online for both the buying process and info gathering.

Sales Director, toy specialist retailer



In the last few years, customers have increasingly been looking for one-stop shops and not for specialized stores. Diversification is really important for a company to survive in the market.

General Manager, toy manufacturer



I think all children's specialist retailers are increasing the range of SKUs in most product categories. Their main limitation is the amount of available shelf space.

Sales Director, children's specialist retailer



Yes, online will certainly continue to grow strongly. Young people who are nowadays parents are used to buying things online for themselves, so they will also do this for their children.

Marketing Manger, children's specialist retailer



There are no stable and helpful government programs to stimulate the birth rate.

Toy specialist/independent market consultant



SKU range, one-stop shopping and multichannel availability appear to be the most important characteristics for ATH retailers in Romania

Customer retailer selection and product purchasing criteria

Main criteria for choosing retailers



Customer purchasing criteria – Children's apparel

- > Garment **quality** and **design** seem to be some of the most important purchasing criteria for Romanian consumers in the apparel category
- > **Price** also plays an important role, although some consumer segments are more focused on value for money than price alone

Customer purchasing criteria – Toys

- > **Commercials** for toys are an important influencing factor for the purchase decision, with many specialized shops having dedicated in-store aisles for products supported by TV advertisements
- > Clients looking to buy toys also appreciate a broad **SKU range** and a low **price**

Customer purchasing criteria – Children's hardware

- > Romanian consumers appear to be **price-sensitive** when purchasing children's products in the hardware category
- > A broad **SKU range** is also important, especially for larger hardware, as many parents want to be able to browse multiple options before making a purchase

Overall importance of criterion in choosing a retailer ○ Low ● High

ATH consumer preferences in Romania have been derived based on in-depth interviews with local industry experts

Selected quotes from interviews with market participants

Customers prefer one-stop shops for purchasing children's products and not specialized stores for each category, because buying from the latter can be more time consuming and more expensive.

Sales Director, toy specialist retailer



It is crucial to have an online store because clients sometimes look online first when they intend to buy something. There are a lot of clients who also go to the shop first and then compare prices online.

Sales Manager, children's specialist retailer



Younger generations prefer products that are "Made in Romania" but those generations still don't have their own children.

Toy specialist/independent market consultant



Most clients choose where to buy children's products from based on the quality of the products, promotions and value for money.

Sales Manager, children's specialist retailer



Customers prefer specialized stores, not just due to the broader product range, but also because they can receive valuable information about the products, which is not the case in grocery stores.

Sales Manager, toy specialist retailer



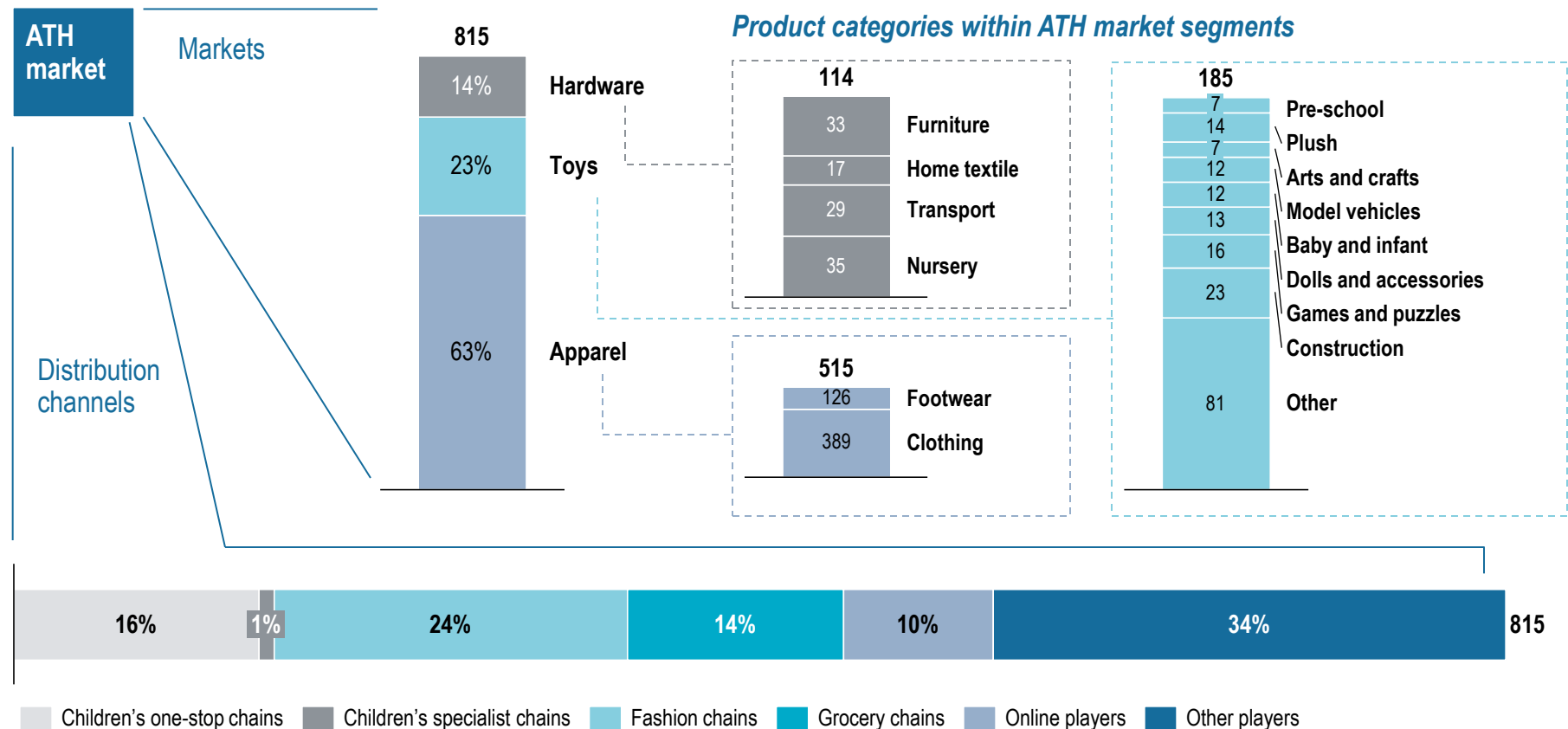
When people go online, they expect to find the best prices available. Sometimes people will just go online to use price comparison platforms.

Store Manager, children's specialist retailer



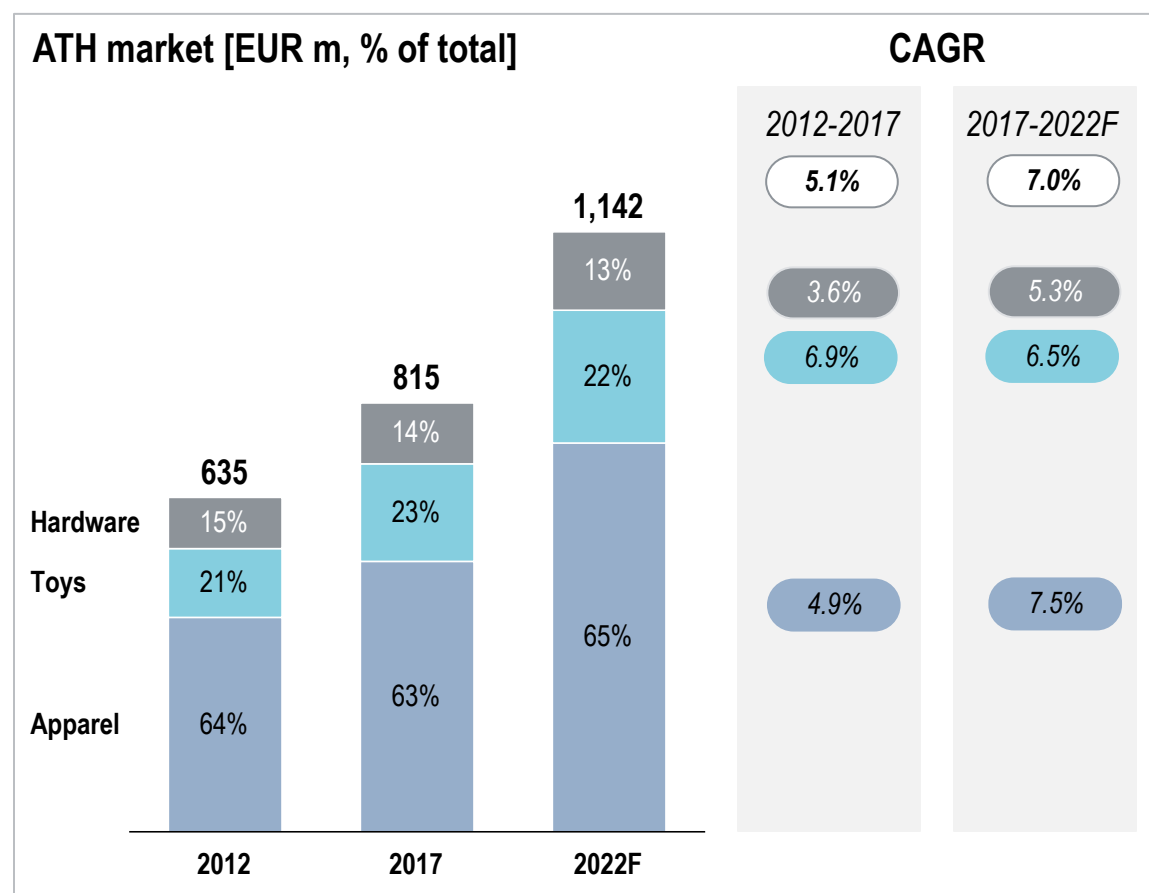
Within the ATH market, apparel is the largest segment and fashion chains are the largest segment among chains

ATH market structure, 2017 [EUR m, % of total]



The children's apparel segment is forecast to remain the largest within the overall ATH market through 2022

ATH market overview, 2012-2022F

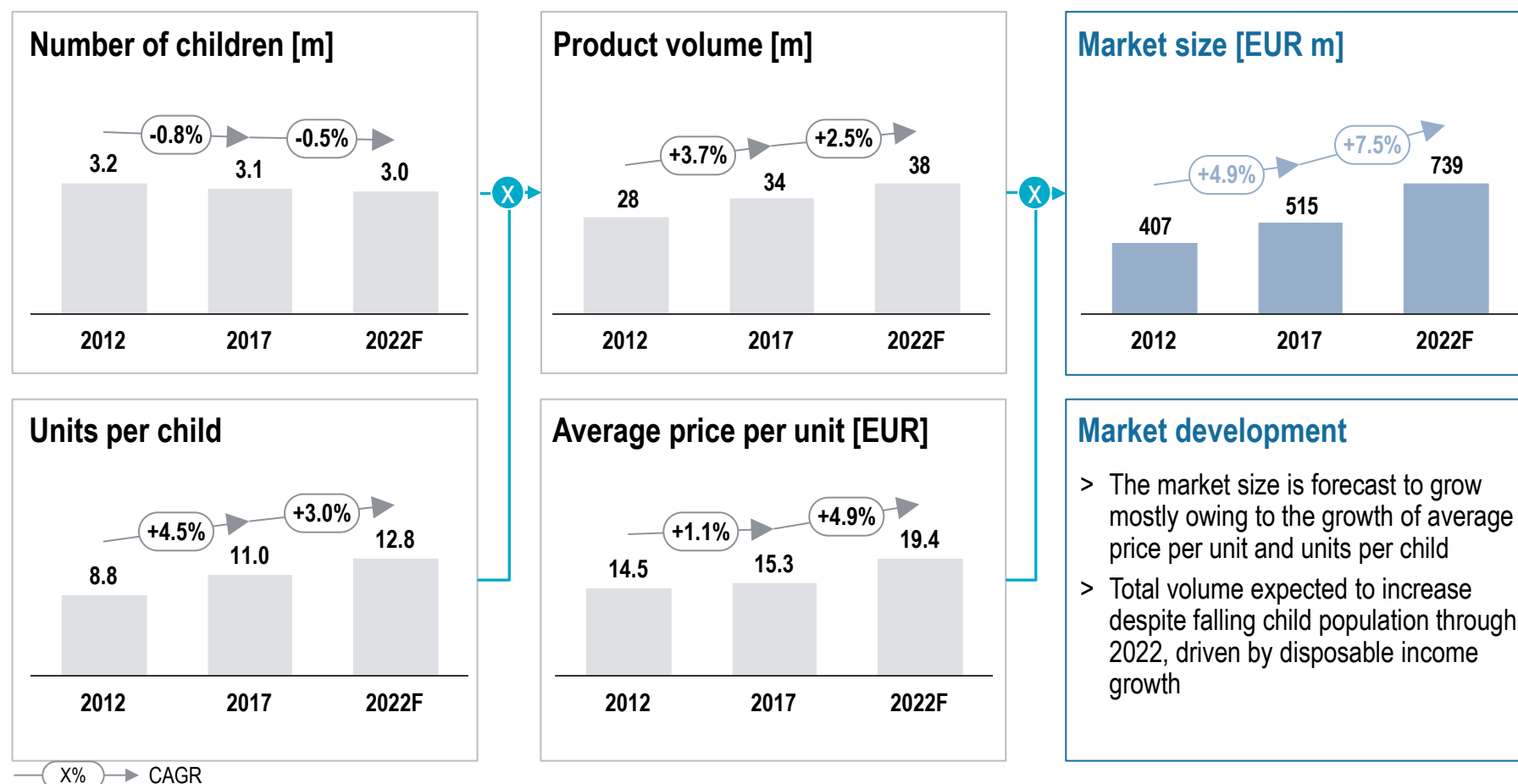


ATH development

- > The largest segment within the ATH market is children's apparel
 - Its growth is expected to accelerate through 2022 vs. 2012-2017, owing to higher average prices
- > The fastest growing market is expected to be apparel, at c. 7.5% CAGR
 - Consumer orientation towards more premium products, coupled with the continued decrease of the gray/second-hand markets, is expected to have a positive impact on market value

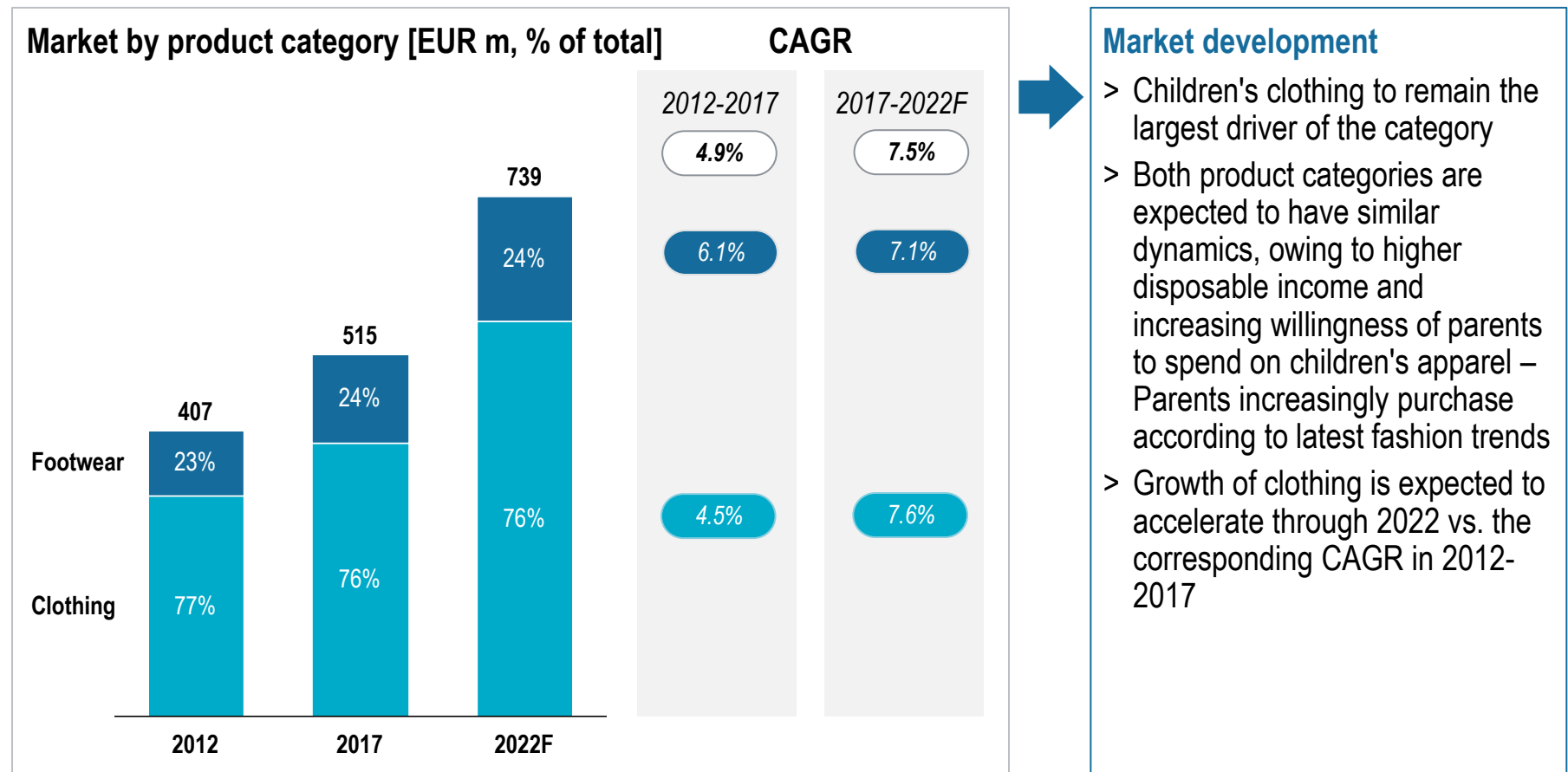
Increase in average price of apparel as a key driver of market growth – Sustained increase in units per child will also spur growth

Children's apparel market value drivers, 2012-2022F



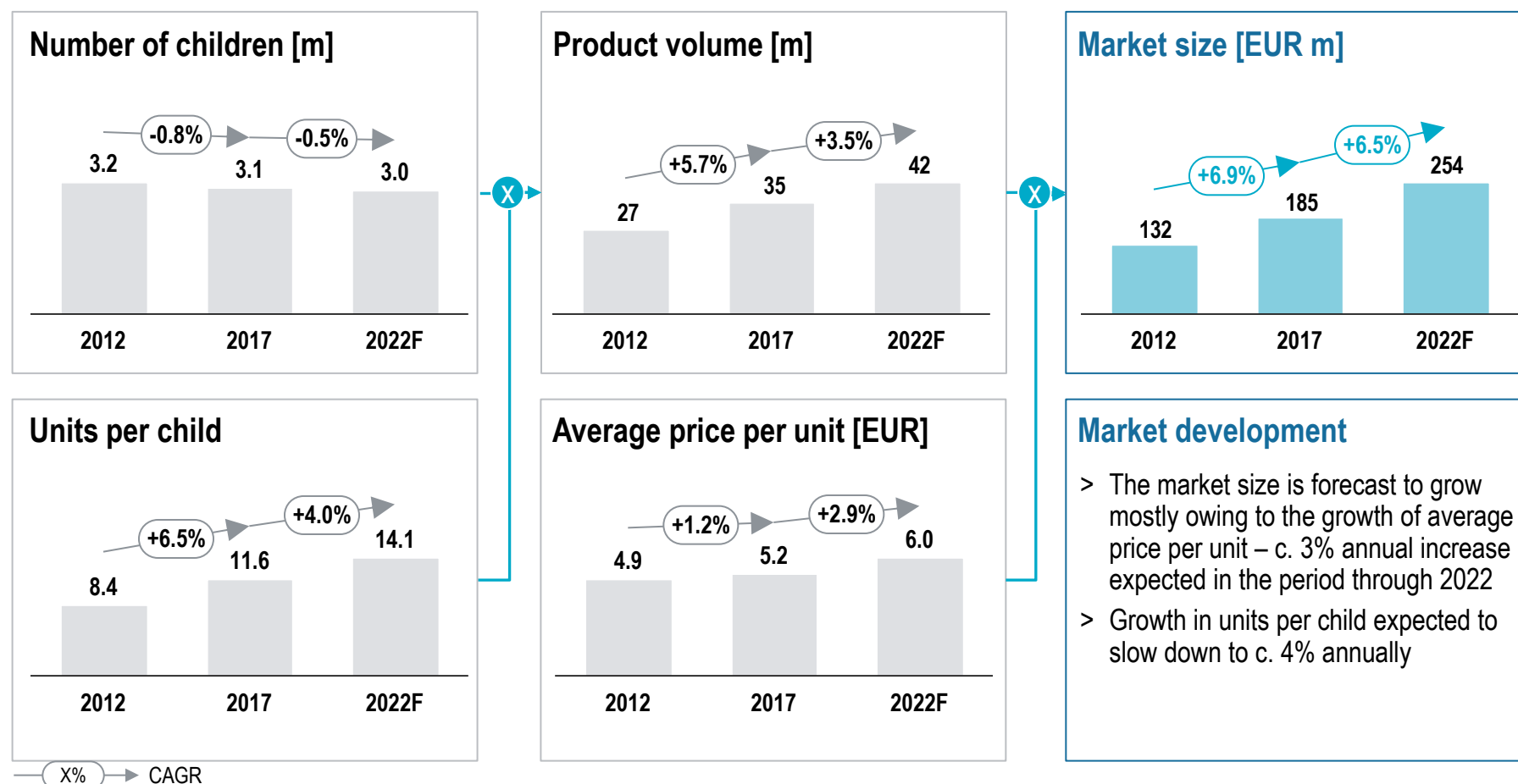
Children's clothing is forecast to drive the bulk of growth within the children's apparel market through 2022

Children's apparel market by product category, 2012-2022F



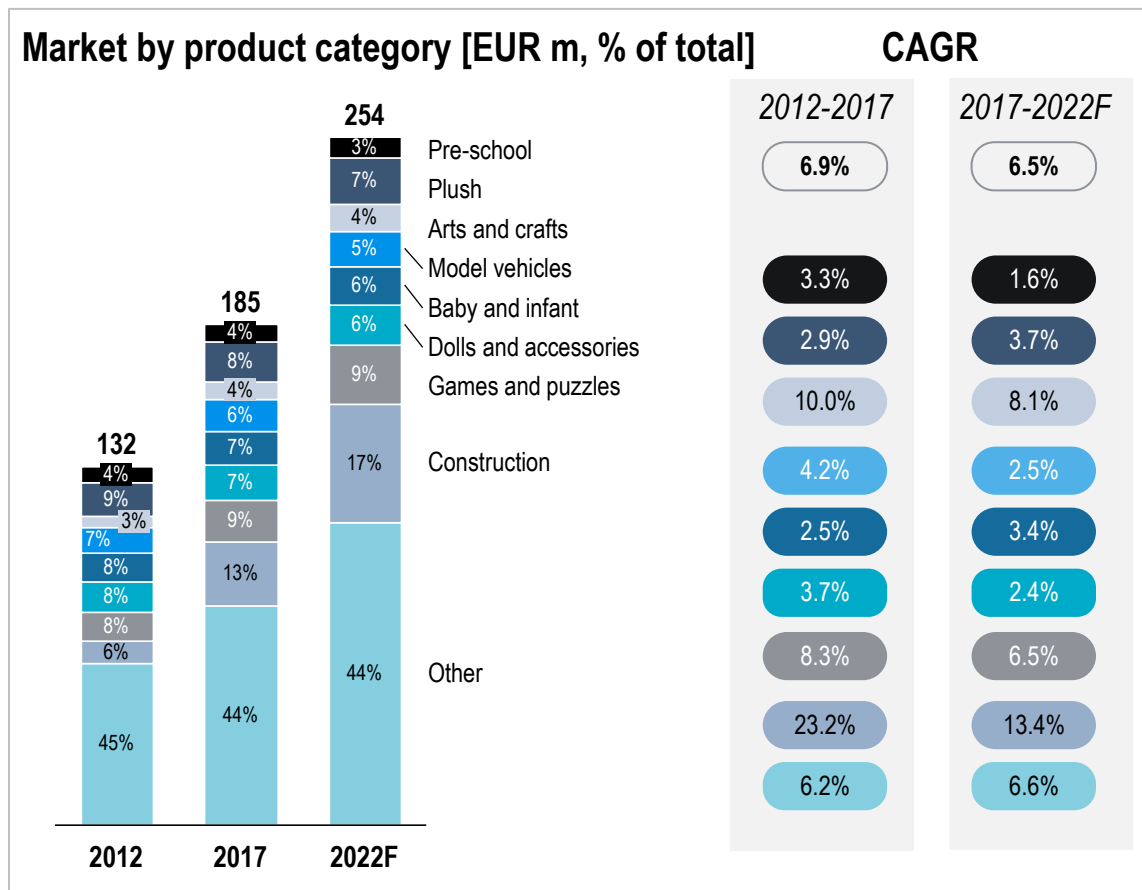
The toys market is expected to grow by an average of 6.5% p.a. until 2022, driven by both units per child and average price per unit

Toys market value drivers, 2012-2022F



Construction toys are forecast to have the largest value within the toys market by 2022

Toys market by product category, 2012-2022F

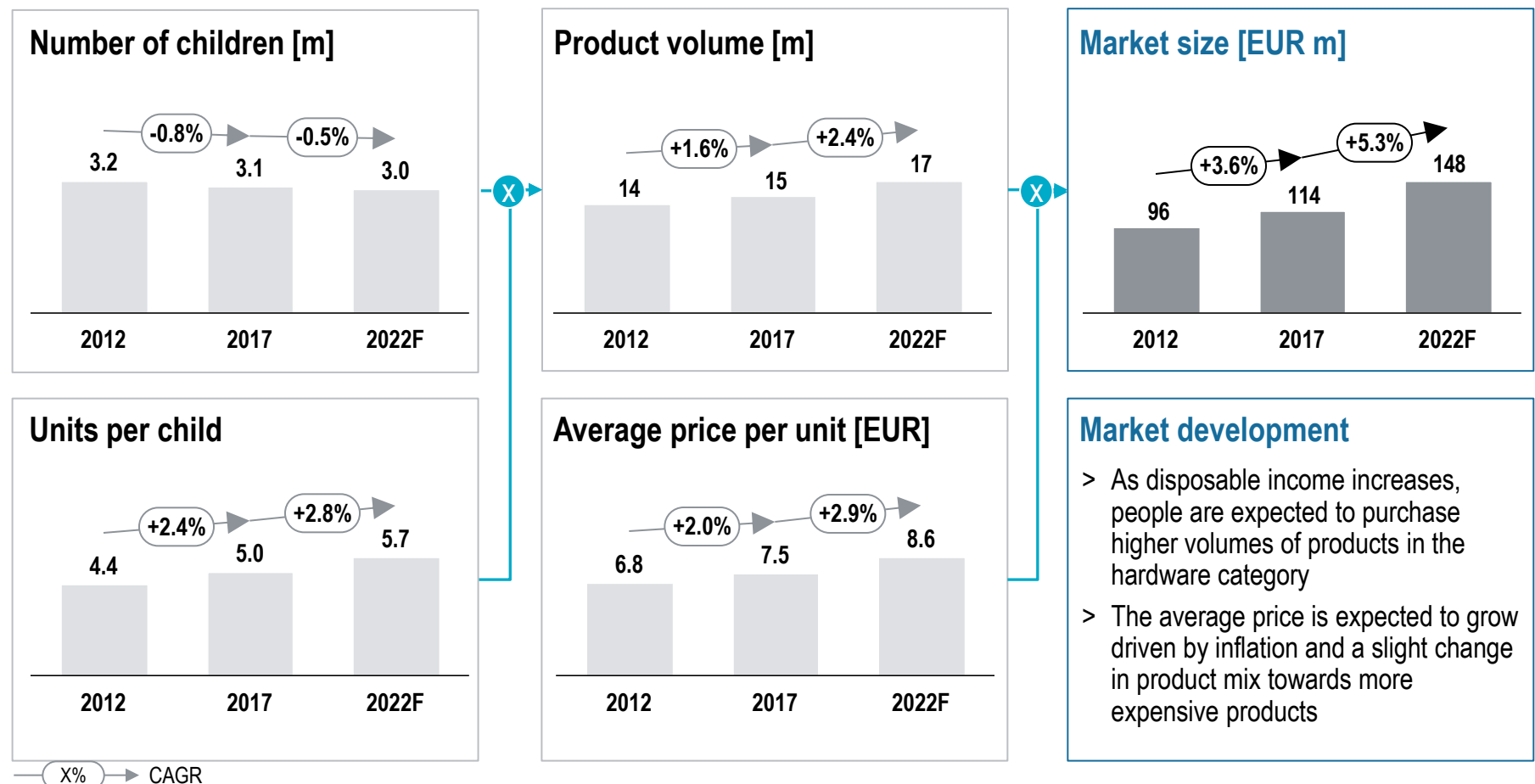


Market development

- > The single largest category within toys is construction, which is also expected to have the highest growth rate by 2022, driven primarily by the performance of the Lego brand
- > Arts and crafts are expected to grow by c. 8% annually, as parents are increasingly focused on the educational and learning aspect of toys driven by growing number of higher age groups
- > Games and puzzles are also expected to increase rapidly, at an estimated c. 7% per year, driven by the category's increasing popularity among higher age groups, including adults (e.g. board games)

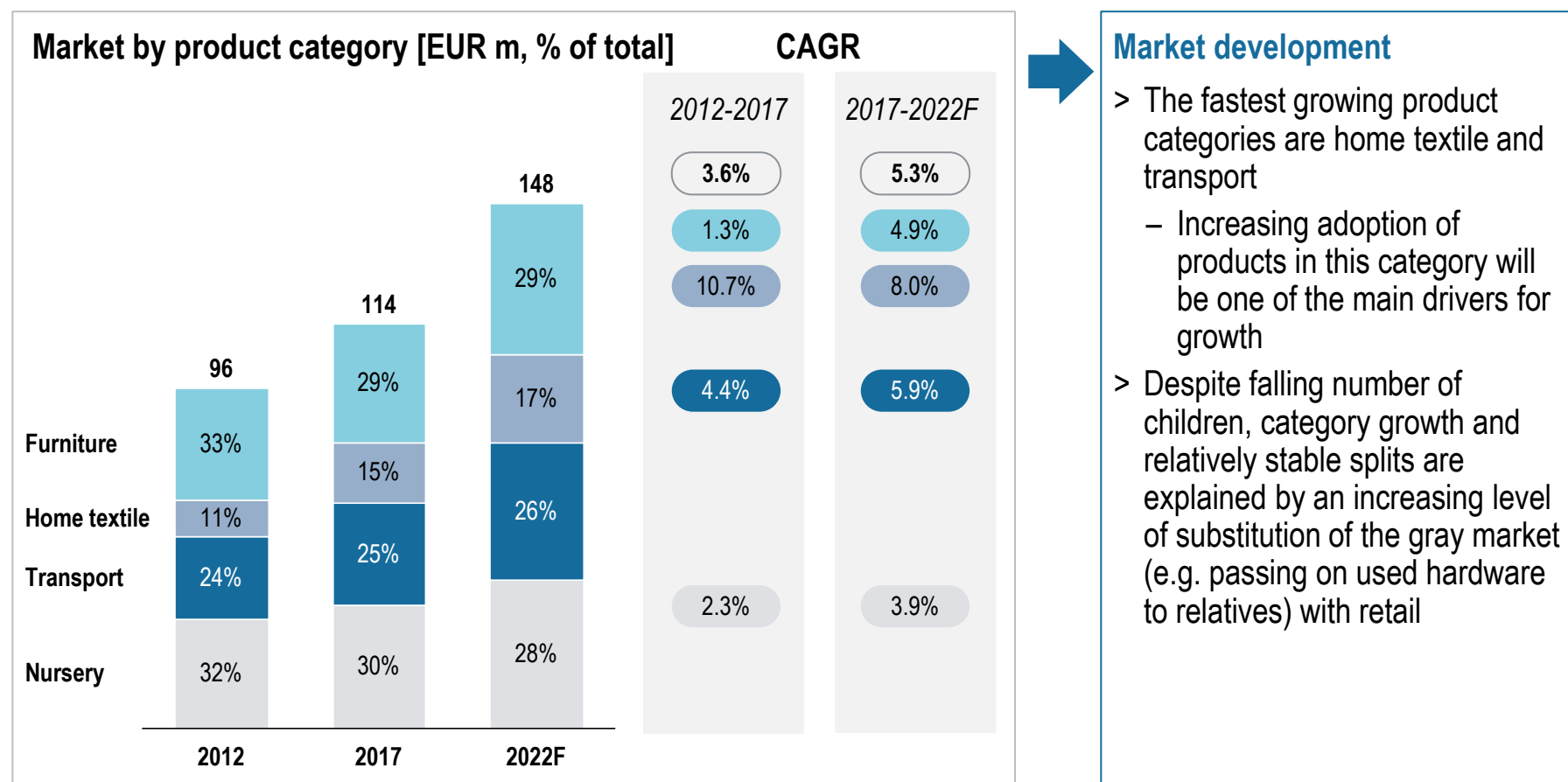
The children's hardware market is expected to grow at c. 5% annually by 2022, driven by both volumes and prices

Children's hardware market value drivers, 2012-2022F



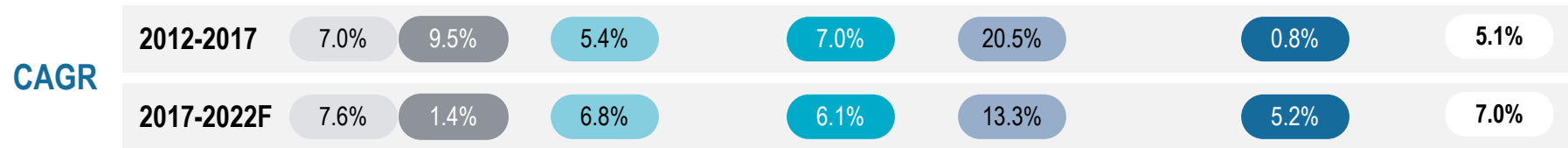
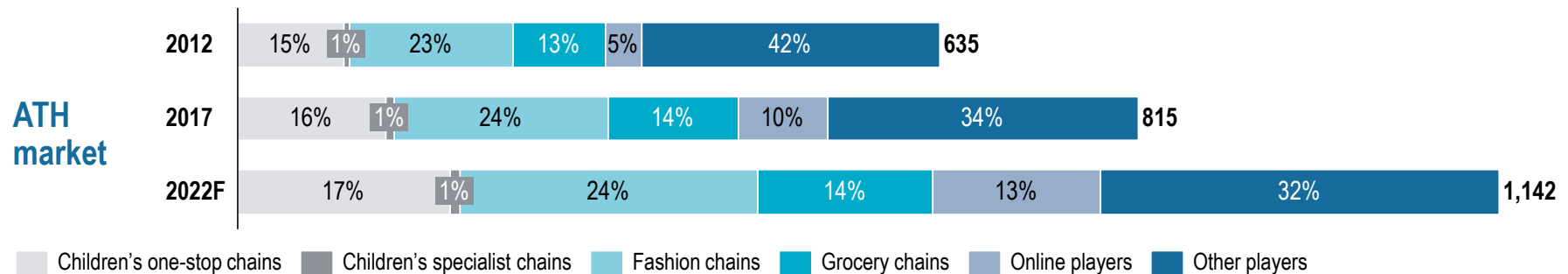
Home textile products are expected to experience the highest growth within hardware, followed by transport products

Children's hardware market by product category, 2012-2022F



Online players, children's one-stop shops and fashion chains are forecast to have the highest growth within the ATH market by 2022

Share of ATH distribution channels, 2012-2022F [EUR m, % of total]

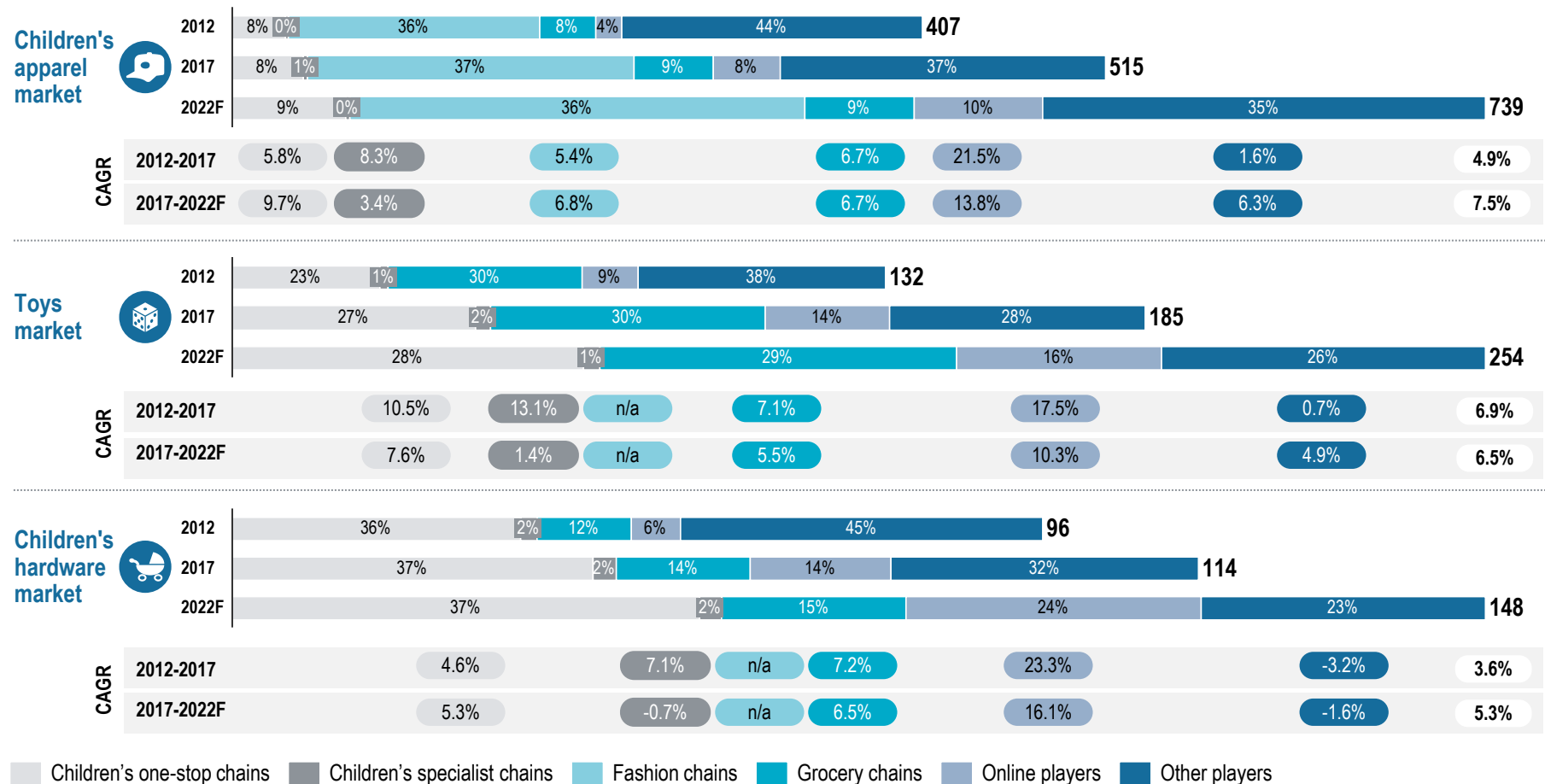


Segment development

- > Fashion chains expected to remain largest ATH distribution channel through 2022, despite developments across other segments, including:
 - Strong increase of online channel, with double-digit yearly growth since 2012 and on to 2022 – Several additional players are expected to support market growth, along with current leader eMag
 - Children's one-stop chains gaining traction at the expense of children's specialists and independent stores

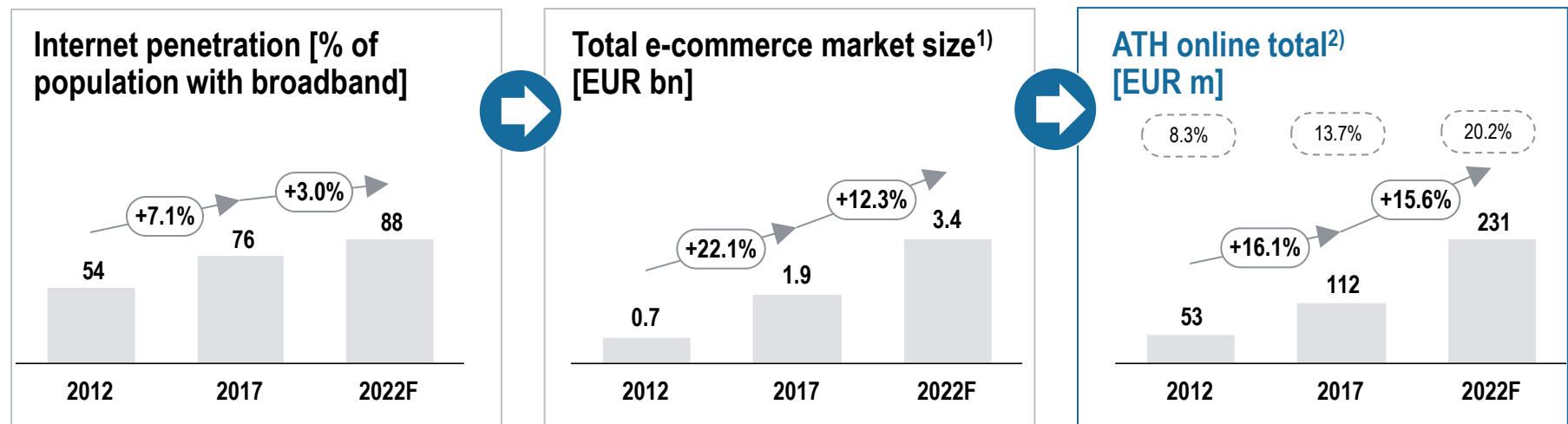
Fashion chains are a key segment for apparel, while one-stop shop children's specialists dominate the toys and hardware categories

Share of distribution channels in ATH market, 2012-2022F [EUR m, % of total]



ATH online channel is forecast to grow at a faster rate than the overall e-commerce market growth rate

ATH online distribution channel



Market development

X% → CAGR

% Share of the total ATH market

- > Dramatic increase in Internet penetration, with >75% households having access to the Internet in 2017 vs. c. 55% in 2012 – Mobile broadband access also saw a 10x increase between 2012-2017
- > Higher customer base as key driver of e-commerce market size – Trend expected to continue, albeit at a slower pace, through 2022
- > ATH online channel expected to benefit from both growth in customer base and omnichannel strategy of key players

1) The market excludes digital media, digitally distributed services (e.g. plane tickets), B2B markets, resale of used goods (reCommerce) and sales between private persons

2) Including pure online players and online share of other players

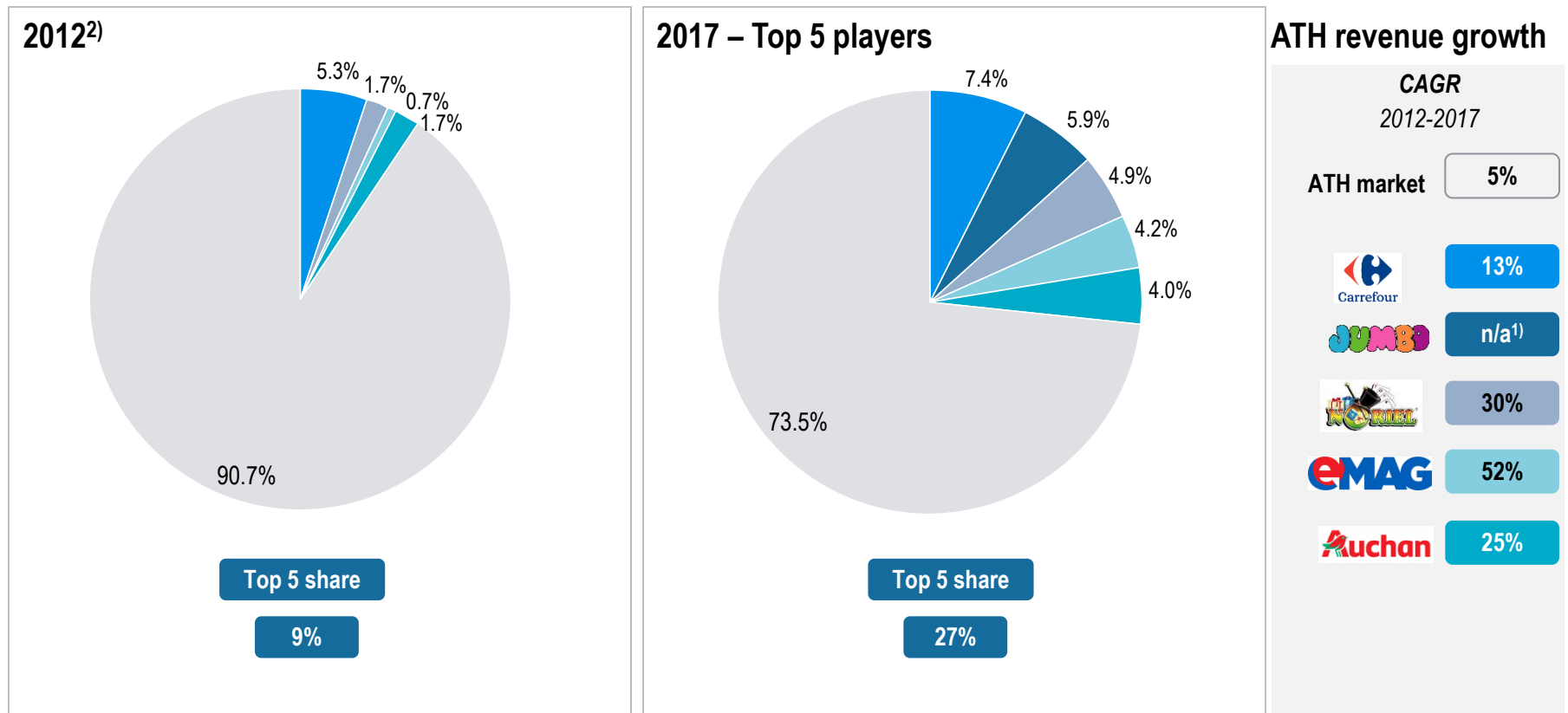
Source: Market model based on desk research, mystery store checks, expert interviews

C.2 Players in the market



The top 5 players from 2017 have largely increased their market shares in the last five years

Revenue market shares of 2017 top 5 ATH players [% of total ATH market value] Indicative



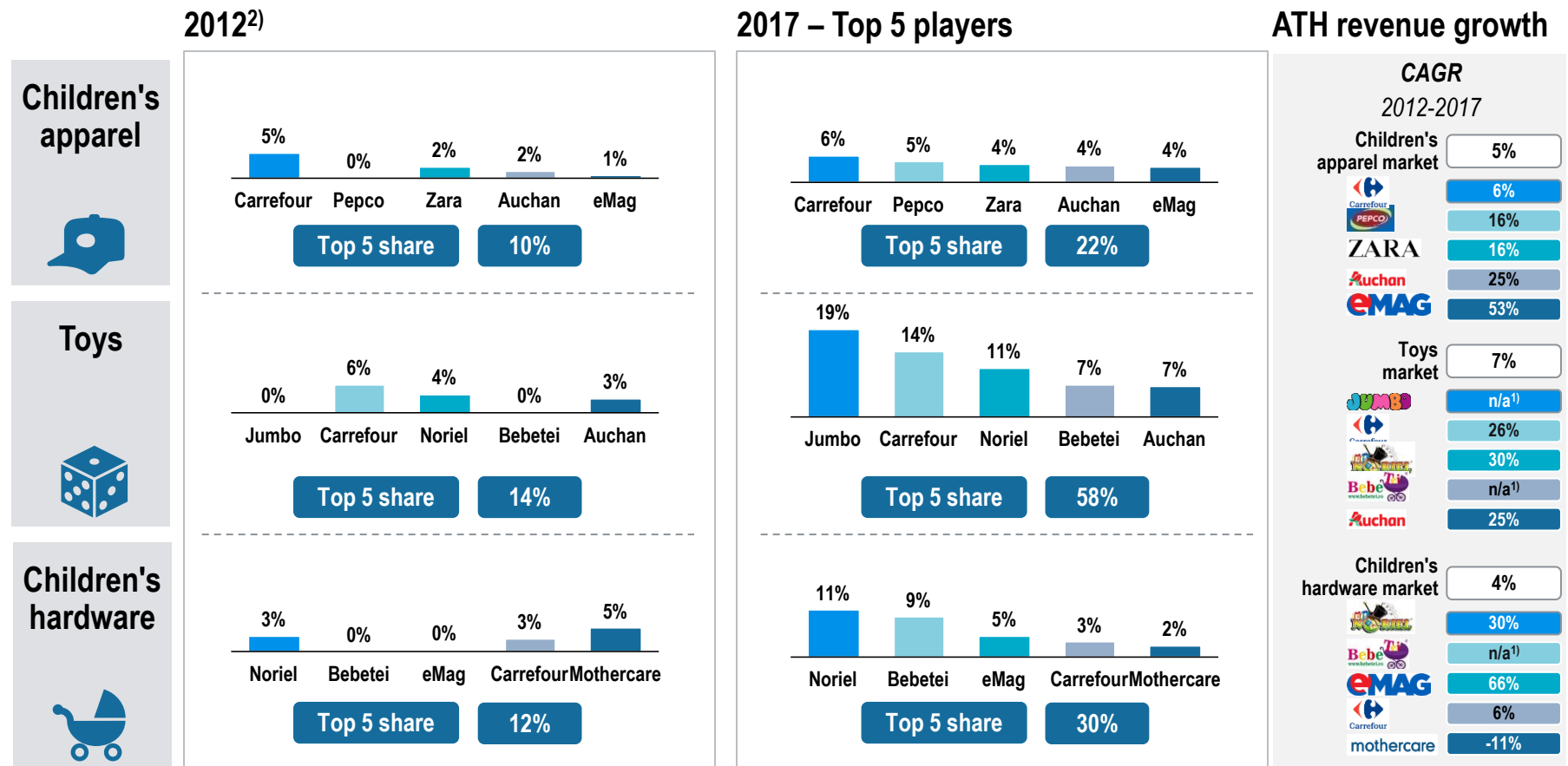
■ Carrefour ■ Jumbo ■ Noriel ■ eMag ■ Auchan ■ Others

1) Player entered the market after 2012 2) Based on ranking of 2017's top 5 players

With one exception only, all of 2017's top 5 players have increased their market shares across the three ATH segments since 2012

Revenue market shares of 2017's top 5 ATH players [% of group value]

Indicative

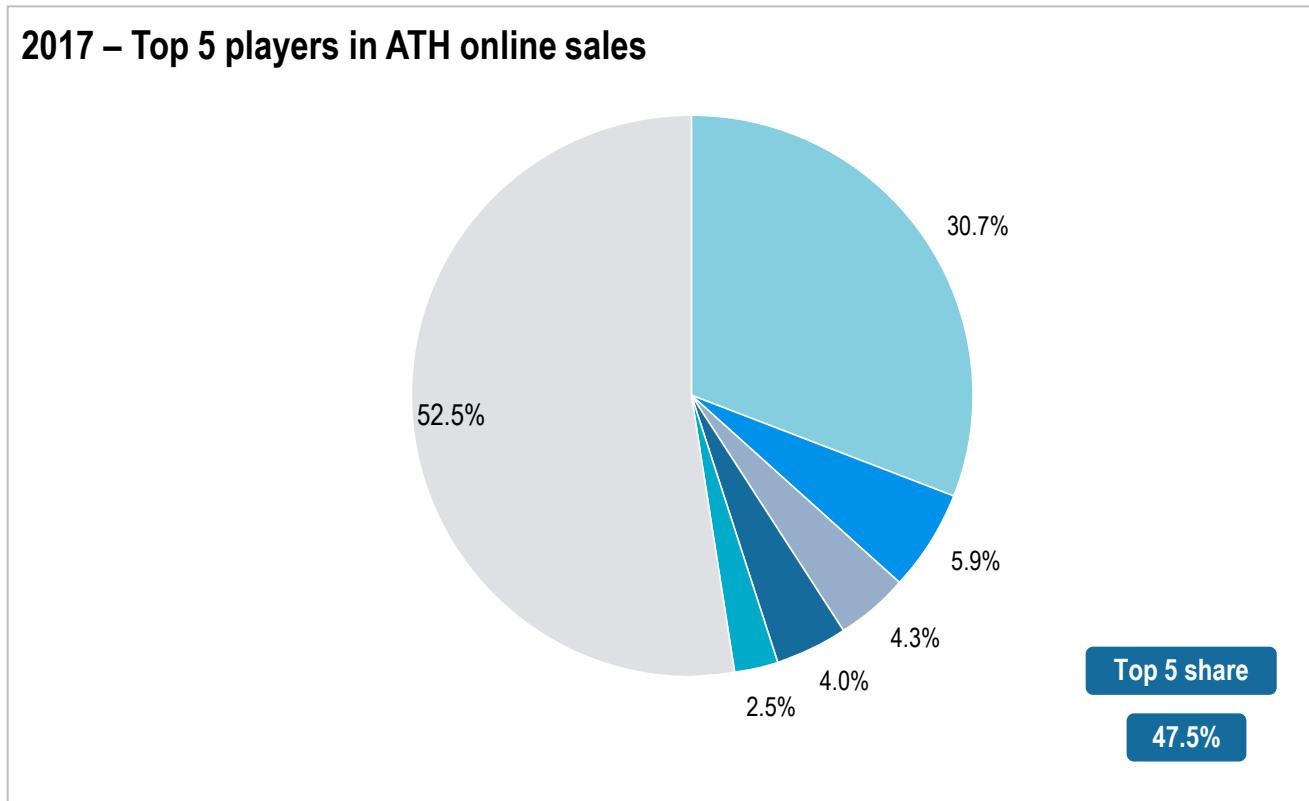


1) Player entered the market after 2012 2) Based on ranking of 2017's top 5 players

ATH online market is more consolidated as c. 48% of the market is generated by the Top 5 players

Online revenue market shares of top 5 ATH players in 2017 [% of total online ATH market value]

Indicative



ATH online revenue [EUR m]

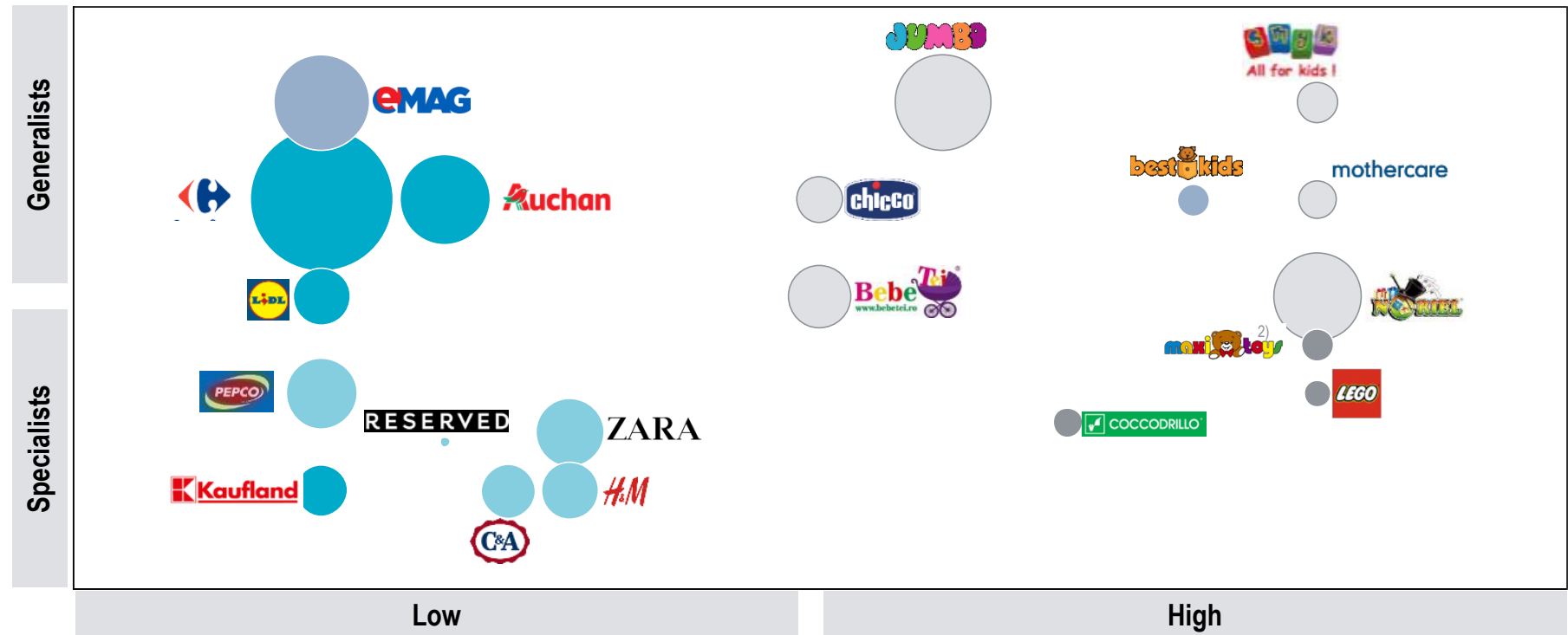


Legend: eMag, Carrefour, Noriel, Best Kids, Bebetel, Others

Players cover the full market spectrum – Largest share of ATH revenue from generalists

ATH market segments and selected segment players [% share in ATH market revenue]¹⁾

Breadth of product assortment [generalist vs. specialist]

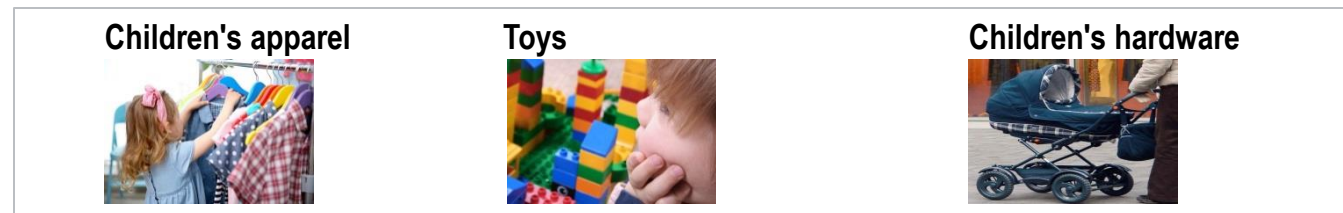


Legend:
 ○ Bubble size represents % share in ATH market revenue
 □ Children's one-stop chains (white) □ Children's specialist chains (dark grey) □ Online players (grey) □ Grocery chains (dark blue) □ Fashion chains (light blue)
Child focus [high vs. low]

1) As of 2017 2) Also reflects Dino Land
 Source: Market model based on desk research, mystery store checks, expert interviews
 20180814_The children's apparel, toys and hardware markets in Poland, Romania and Ukraine.pptx | 89

The wide range of product categories distinguishes specialists stocking the full spectrum of products from other specialist chains

ATH product category coverage of selected market players (1/2)


















	Children's apparel	Toys	Children's hardware
 Jumbo	✓	✓	✓
 Noriel	✓	✓	✓
 Bebetei	✗	✓	✓
 Chicco	✓	✓	✓
 Smyk	✓	✓	✓
 Mothercare	✓	✓	✓
 Coccodrillo	✓	✗	✗
 Lego	✗	✓	✗
 Maxi Toys	✗	✓	✗
 Dino Land	✗	✓	✗

✓ Company has such products

✗ Company does not have such products

Grocery chains and online players generally offer an assortment that covers all ATH segments

ATH product category coverage of selected market players (2/2)

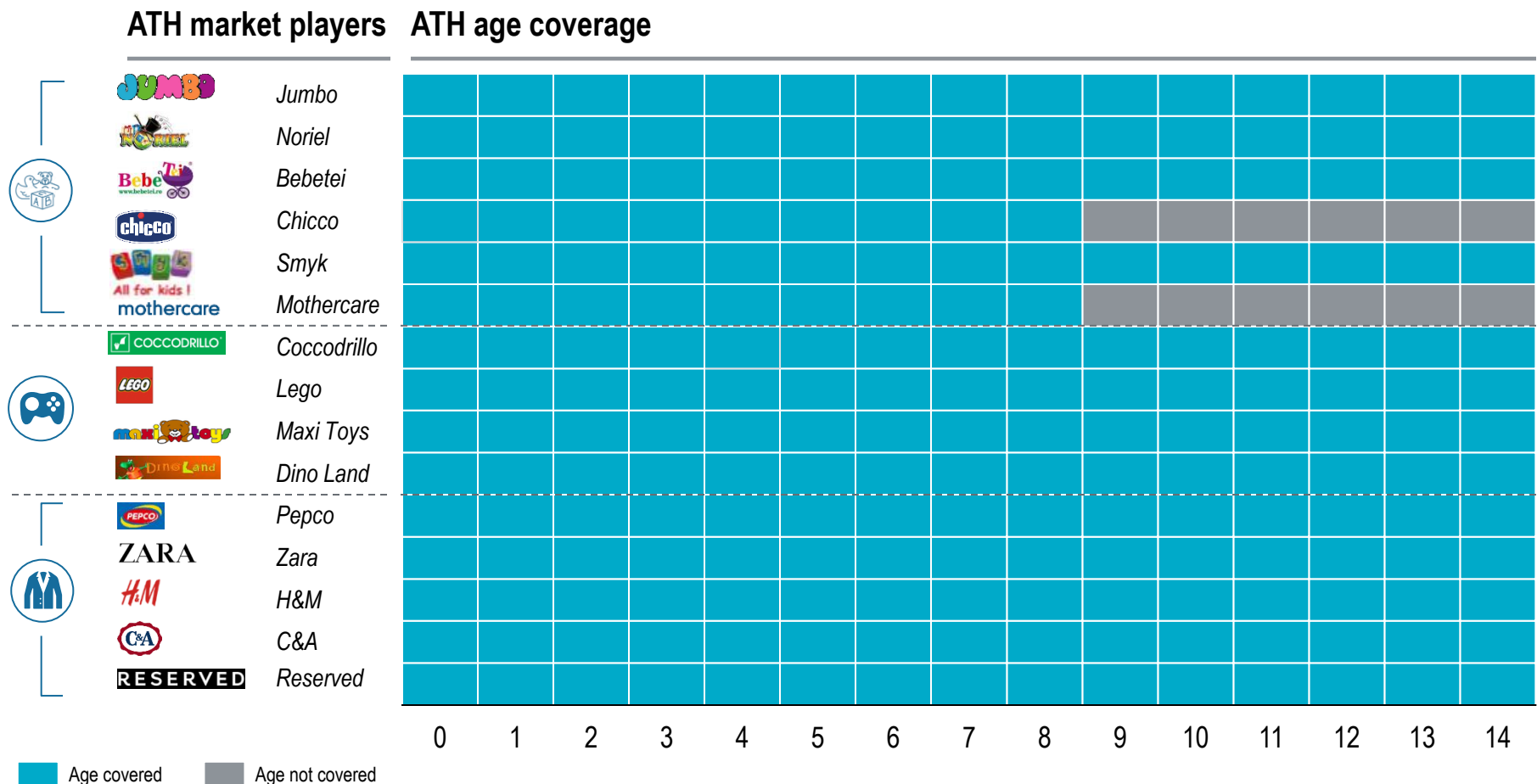
			Children's apparel 	Toys 	Children's hardware 
		Pepco	✓	X	X
	ZARA	Zara	✓	X	X
		H&M	✓	X	X
		C&A	✓	X	X
	RESERVED	Reserved	✓	X	X
		Carrefour	✓	✓	✓
		Auchan	✓	✓	✓
		Lidl	✓	X	X
		Kaufland	✓	✓	✓
		eMag	✓	✓	✓
		Best Kids	✓	✓	✓

✓ Company has such products

X Company does not have such products

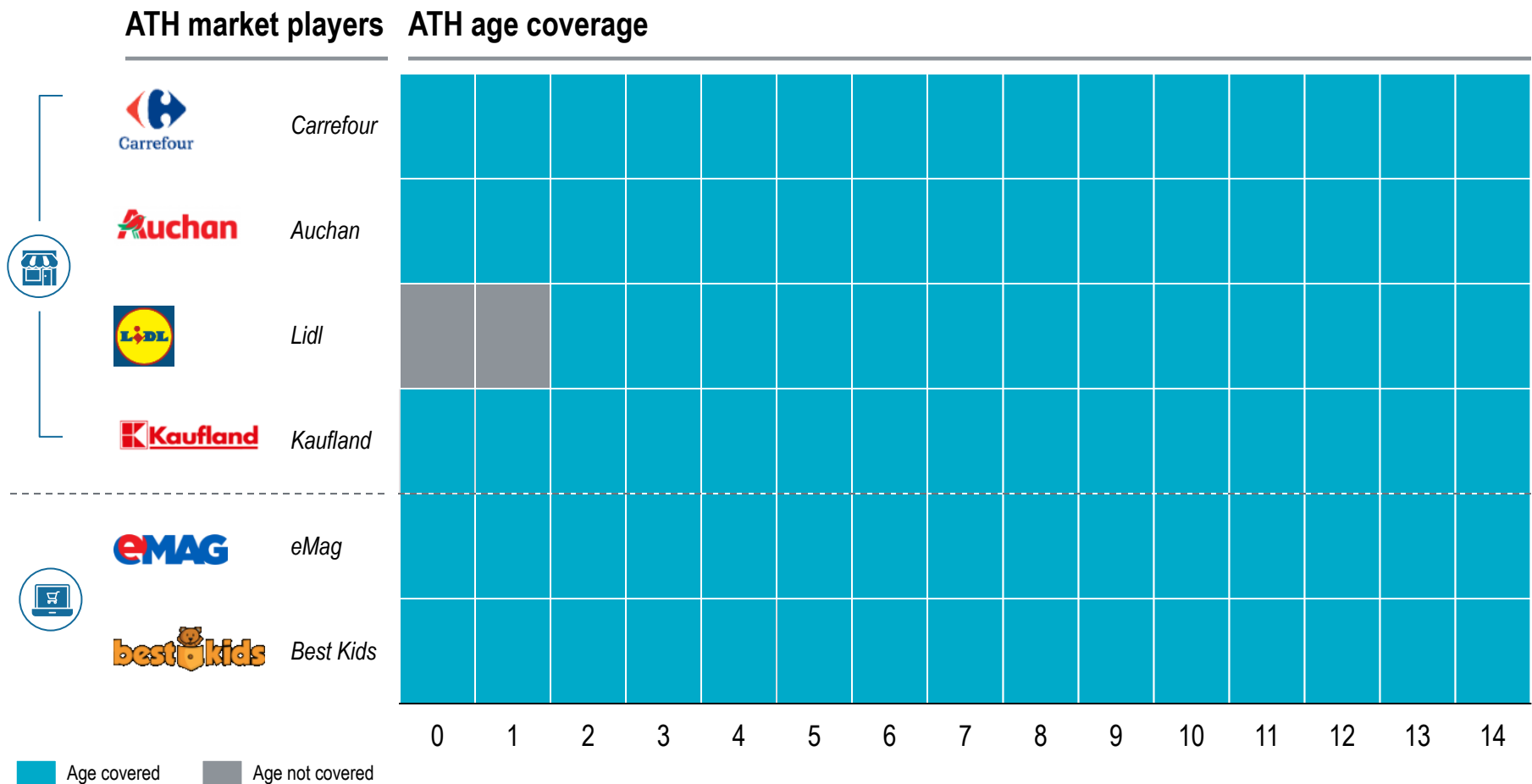
Apart from Chicco and Mothercare, all other players considered here cover the full spectrum of child ages

ATH age coverage by selected market players (1/2)



Most players in the grocery and online segments have a wide coverage of age categories

ATH age coverage by selected market players (2/2)



Due to the price sensitivity of some customers, modern retailers are both at the high and low end of the price/fashion spectrum

Competitive positioning of selected children's apparel market players, 2017

Indicative

Competitive positioning

Approaches to competitive positioning

Price level



- > Coccodrillo and Zara are among the chains with the highest positioning in terms of both price and fashion levels
- > At the opposite end of the spectrum, Jumbo, Lidl and Pepco are positioned to attract a large customer base sensitive to price

Comments on competitive positioning

- Multiple approaches possible within segment, with players positioned at both high and low end of price/fashion spectrum
- Analyzed players appear to have a high price and medium to high fashion levels
- Multiple approaches possible within segment, with players positioned at both high and low end of price/fashion spectrum
- Grocery chains typically positioned in the low fashion level range and have competitive prices
- Product range wide enough to cover a broad spectrum across the fashion/price positioning

Some players in the specialist ATH segment are launching larger store formats – For example, Noriel's Mega Store concept

Retail distribution of selected ATH market players, 2017 (1/2)

Indicative

ATH market players		ATH revenues ¹⁾ and market share 2017 [EUR m, %]		Number of stores	Typical store area [sqm]	Type of format	
						Own	Franchised
	Jumbo	48	5.9%	9	8,600	✓	X
	Noriel	40	4.9%	58	300	✓	X
	Bebetel	23	2.8%	3	2,500	✓	X
	Chicco	7	0.9%	9	400	✓	X
	Smyk	6	0.7%	10	350	✓	X
	Mothercare	6	0.7%	5	300	✓	X
	Coccodrillo	5	0.6%	50	100	✓	✓
	Lego	4	0.4%	8	130	✓	X
	Maxi Toys	5 ²⁾	0.6% ²⁾	5	300	✓	✓
	Pepero	30	3.7%	153	330	✓	X
	ZARA	21	2.5%	24	2,000	✓	X
	H&M	14	1.7%	53	2,000	✓	X
	C&A	12	1.5%	38	2,000	✓	X
	RESERVED	1	0.1%	35	1,200	✓	X







✓ Company has such type of format X Company does not have such type of format

1) Estimation of revenues from ATH market on the basis of financial statements and assumed % of ATH in revenues 2) Revenue for Nicoro Trading; includes Dino Land

ATH categories predominantly in large grocery formats, e.g. hypermarkets, with only seasonal offerings in smaller stores

Retail distribution of selected ATH market players, 2017 (2/2)

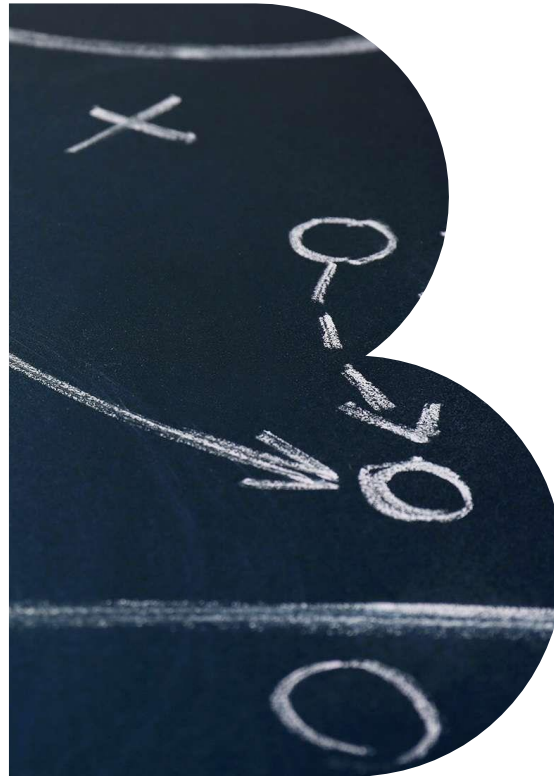
Indicative

ATH market players	ATH revenues ¹⁾ and market share 2017 [EUR m, %]		Number of stores	Typical store area [sqm]	Type of format	
	Revenue [EUR m]	Market share [%]			Own	Franchised
 Carrefour	61	7.4%	33	7,200	✓	✗
 Auchan	32	4.0%	44	8,500	✓	✗
 Lidl	8	1.0%	220	1,200	✓	✗
 Kaufland	6	0.7%	112	4,300	✓	✗
<hr/>						
 eMag	34	4.2%			✗	✗
 Best Kids	5	0.6%			✗	✗

✓ Company has such type of format ✗ Company does not have such type of format

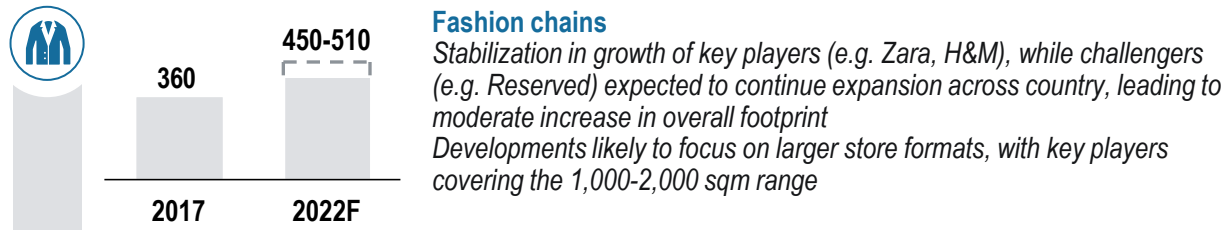
1) Estimation of revenues from ATH market on the basis of financial statements and assumed % of ATH in revenues

C.3 Market segment development



Dynamic landscape across segments throughout forecast period – Main winners are one-stop chains and online

Development of retail distribution by ATH market segments¹⁾ [# of stores]



Grocery chains
 Moderately growing market share due to penetration of modern grocery in small urban areas currently dominated by traditional trade
 Large hypermarkets (e.g. Carrefour, Auchan) expected to further challenge market with smaller formats

Online players
 Considerable growth driven largely by increasing customer base as a result of enhanced broadband penetration and increasing consumer confidence in ordering products online

Other players
 Reduction in footprint largely driven by erosion of independent specialists and fashion stores in favor of chains, typical "shake-out" of smaller and weaker players

**Online players to experience highest growth driven by continued e-commerce expansion
 Higher than ATH market growth expected in one-stop chains, expanding footprint and launching large format outlets**

1) Methodology used is described in slide 140

D. Ukraine



The Ukrainian ATH market was slowed down by economic and political instability – Positive macro environment to foster future growth

Executive summary (1/2)

1 Market overview

- > The **Ukrainian ATH market** was valued at approximately **EUR 820 m** in 2017 – In EUR terms the market saw a -8.7% CAGR on account of FX fluctuations caused by political and economical instability; in UAH terms, the ATH market actually grew with a CAGR of 13.1% over the past five years
- > Expectations are that the **ATH market in Ukraine will reach EUR 1.3 bn** by 2022 (9.5% CAGR in EUR terms and 14.8% CAGR in UAH terms), thereby reverting to its pre-crisis value in 2012
- > **Birth rates are forecast to slightly decline** in the next five years, yet the **annual spend per child will see an upsurge** as a result of higher disposable income and normalization of the economic and social climate in Ukraine (from EUR 120 annual spend per child in 2017 to c. EUR 190 by 2022)
- > In terms of distribution channels, **trends favor future development of modern retail** (especially in shopping malls), to the cost of the currently predominant traditional trade
- > The **online channel** still makes up less than 10% of the total ATH market, with high potential for growth in the future, primarily due to the pricing difference vs. brick-and-mortar retail and increasing Internet penetration
- > Product trends favor branded products, as Western European brands are especially sought after in spite of the price premium – At the same time, **for the majority of buyers price is still the most important purchasing criterion across all ATH product categories, resulting in a key role for own brands**
- > In the Ukrainian market, similar to Romania and Poland, the **largest market segment is apparel** (primarily clothing), with c. 62% of the market, followed by toys (22%) and hardware (17%) – The **fastest growing category is expected to be apparel** (approximately 10% CAGR), as assortments evolve towards more expensive products
- > **The gray ATH market is estimated to be at a high level, 30%-40%, whereas the second hand market is 20%-30%**

Modern retail will erode traditional trade's market share in the ATH market – Ambitious expansion plans announced

Executive summary (2/2)

2 Players in the market

- > **Top 5 ATH market players are responsible for 14% of the market**, and their market share grew from 8% in the last five years
- > Retailers generally cover all age groups with minor exceptions
- > **Players cover the full market spectrum in terms of breadth of product assortment and level of child focus** – Largest share of ATH revenues comes from chains with high SKUs. Modern apparel chains position themselves at the high and low end of the price/fashion spectrum, leaving room for other players at the low end of the range
- > Budynok Igrashok has the highest number of stores (52 stores) followed by Zara (50 stores) and Antoshka (38 stores) – **Further footprint expansion** expected to continue, via various store formats (e.g. Antoshka with both small format and large format stores measuring 4,000-8,500 sqm)
- > **Pure online players** differentiate themselves via **competitive pricing** (e.g. Rozetka TOV), often up to 10%-15% below prices in brick-and-mortar outlets

3 Market segment development

- > **The share of independent shops is expected to decrease** due to expansion of chains with broader product assortment and better product placement
- > Sustained growth expected for **children's one-stop shops** (both small and large formats) **and fashion chains** (especially in large formats), based on **announced expansion plans** – Recovery after decrease in retail network in the past five years
- > Online to experience highest growth driven by **increasing e-commerce adoption** as a result of wider broadband access and increasing consumer acceptance
- > **Grocery chains will continue to grow** in both large and small urban areas, currently dominated by traditional trade
- > **In 2022**, total number of stores is expected to reach **up to 290 children's one-stop chain stores, 150 children's specialized chain stores and 180 children's fashion chain stores**

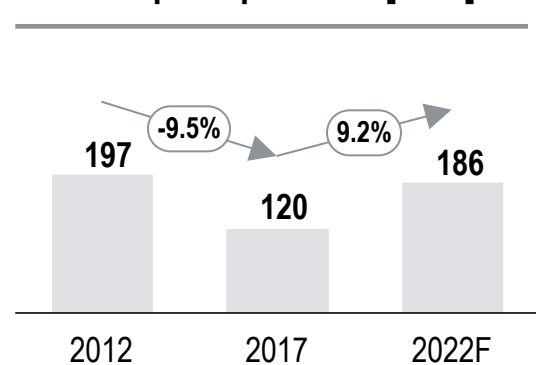
D.1 Market overview



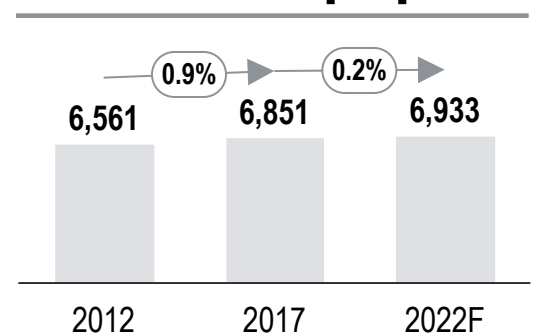
The share of independent shops is expected to decrease due to expansion of chains with broader product assortment and better product placement

ATH market value and key drivers

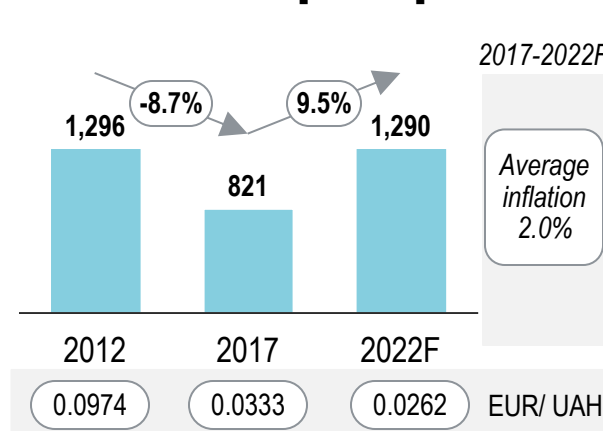
Annual spend per child [EUR]



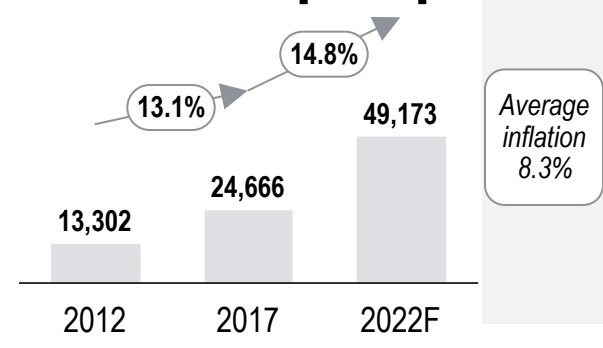
Number of children ['000]



ATH market value [EUR m]



ATH market value [UAH m]



ATH market drivers and trends



Macroeconomic drivers

> Annual spend per child is more than 5x lower than the average of selected Western European countries



Country consumption drivers

> Increase in disposable income following a period of political/economic instability



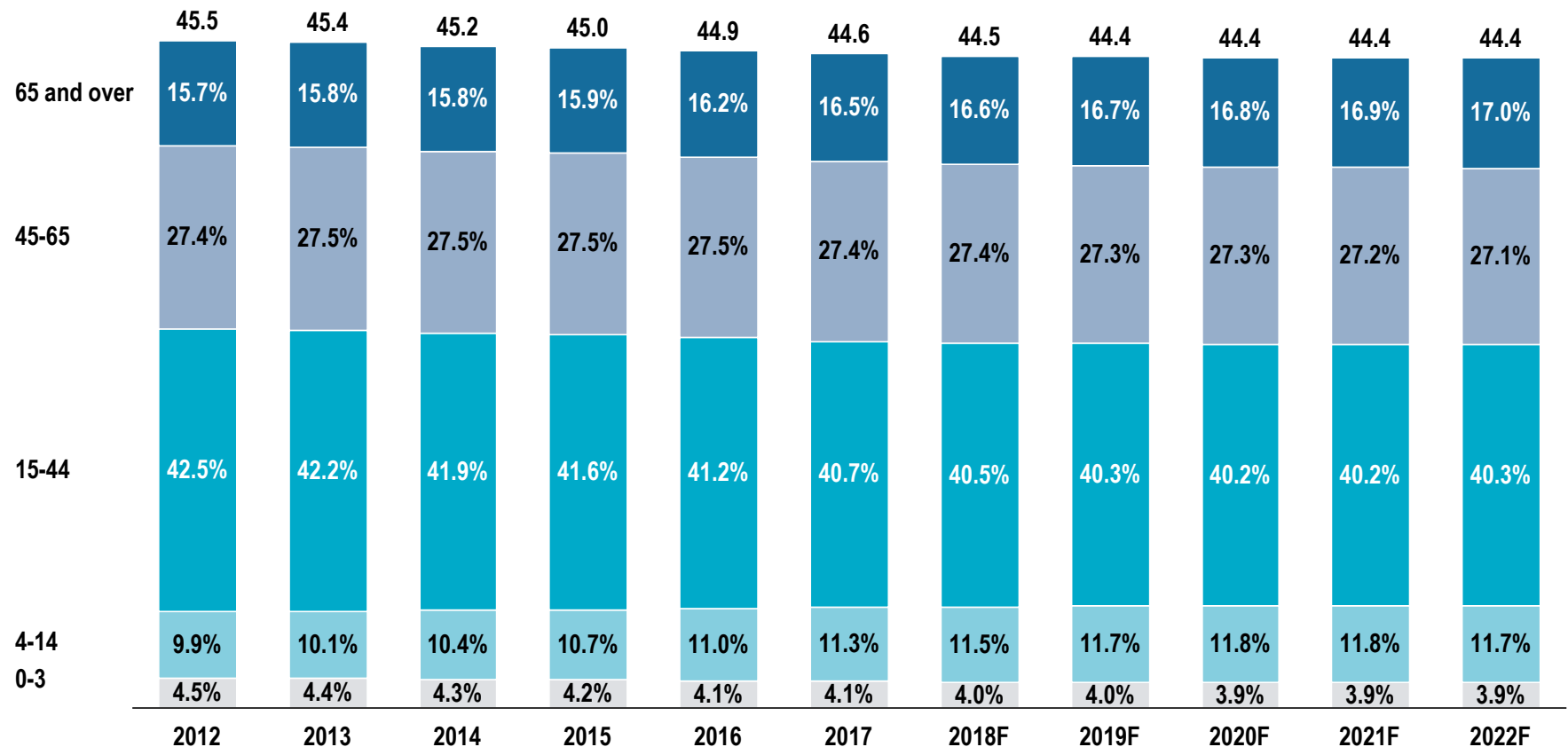
ATH market trends

> Independent shops are expected to decrease due to expansion of chains with broader product assortment and better product placement

X% → CAGR

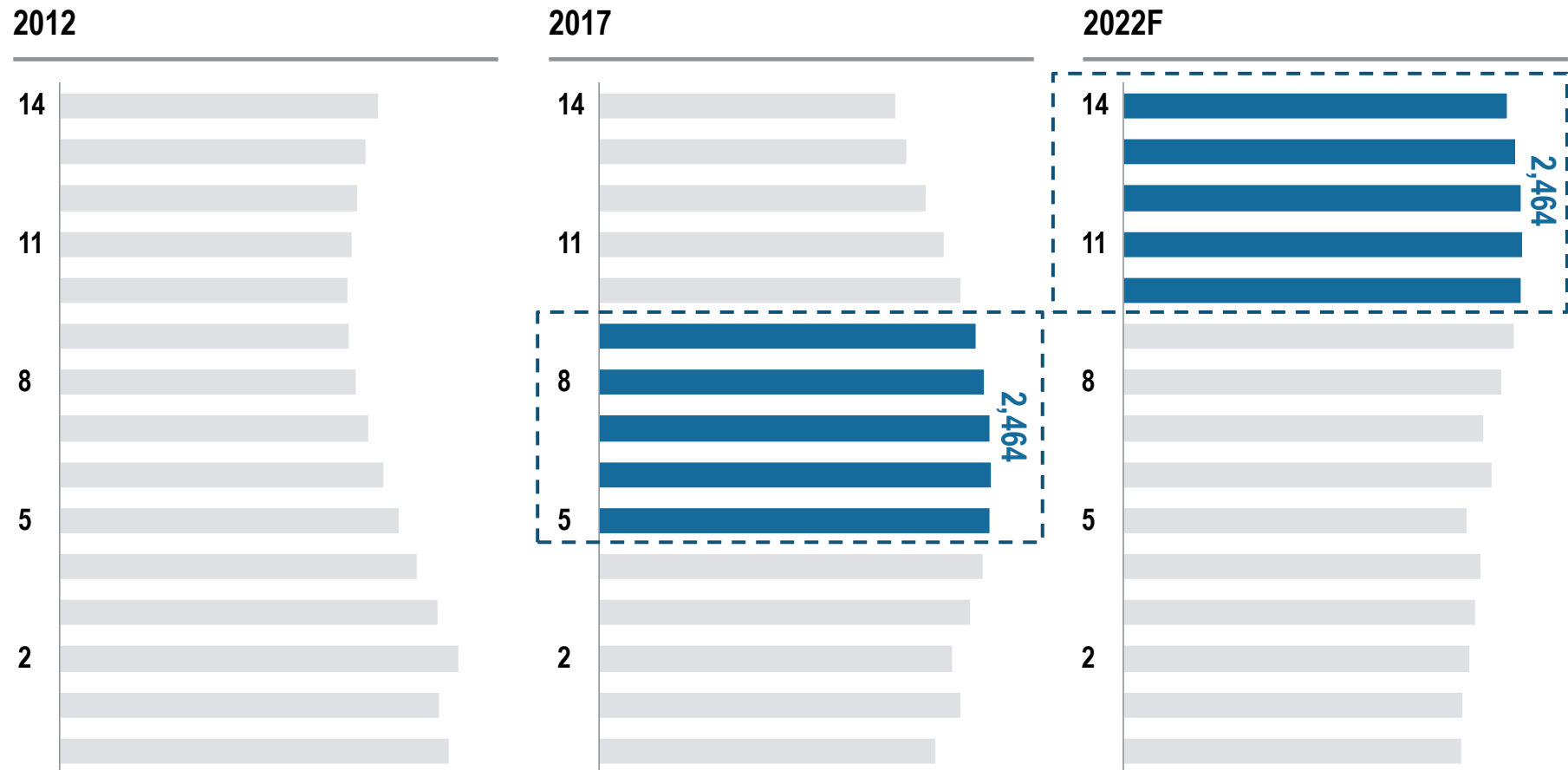
The total population is expected to continue on a slight downward trend through 2022

Population structure by age [total in m, % by age]



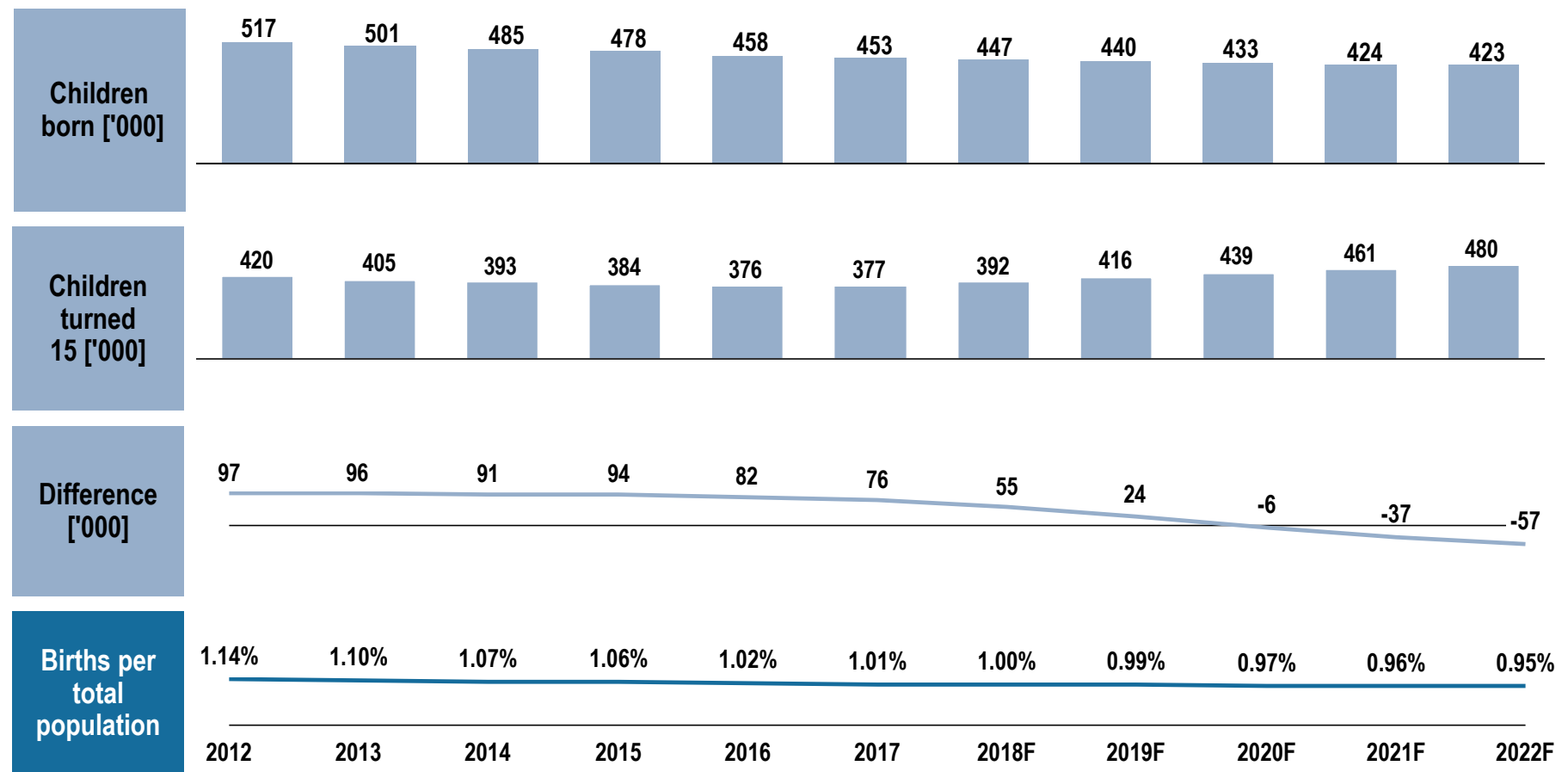
Children above 10 years old are forecast to constitute the highest share of the total number of children by 2022

Number of children by age ['000]



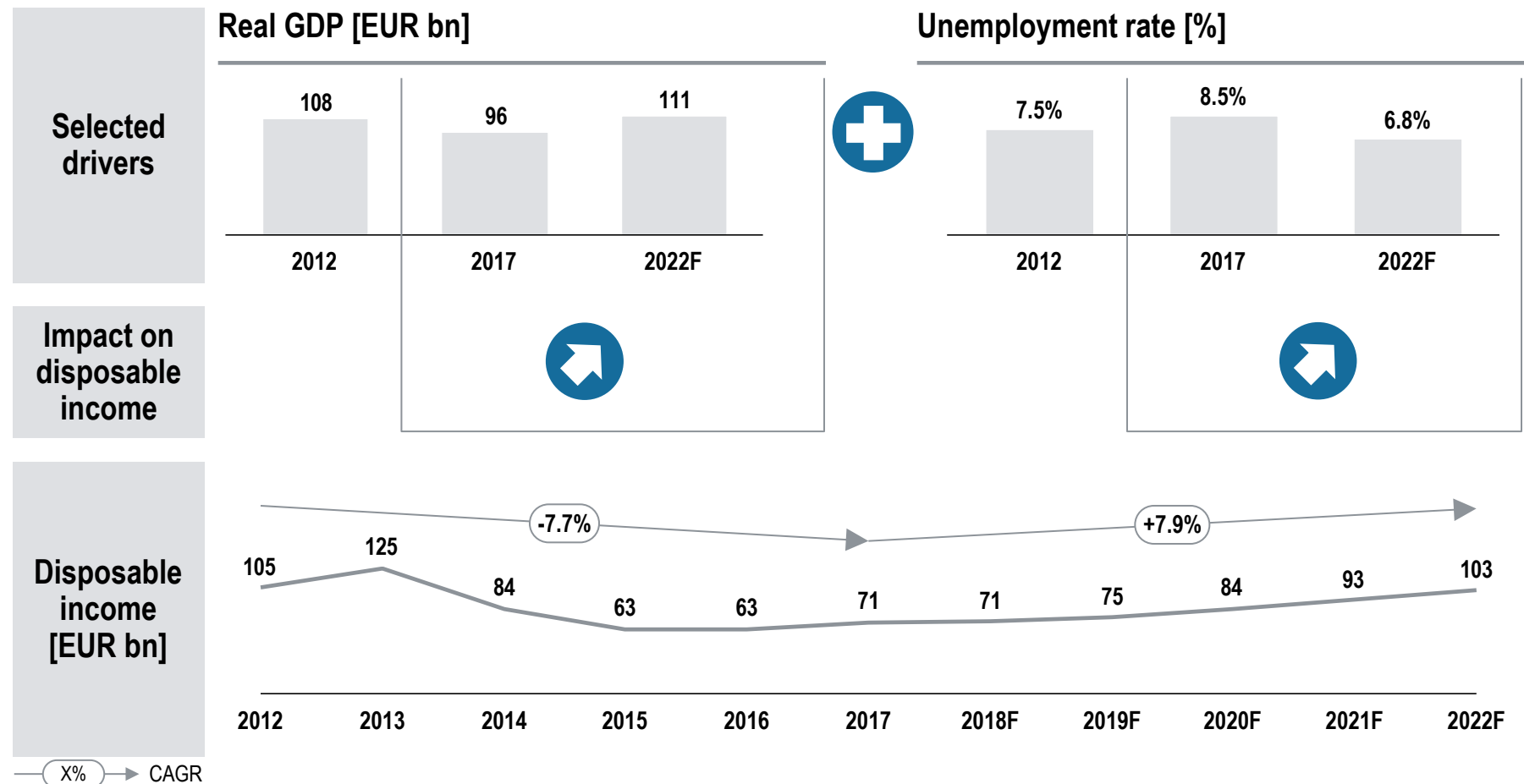
The number of children is expected to decrease from 2018 through 2022, mainly due to declining birth rates

Children's group entries, exits and birth rates



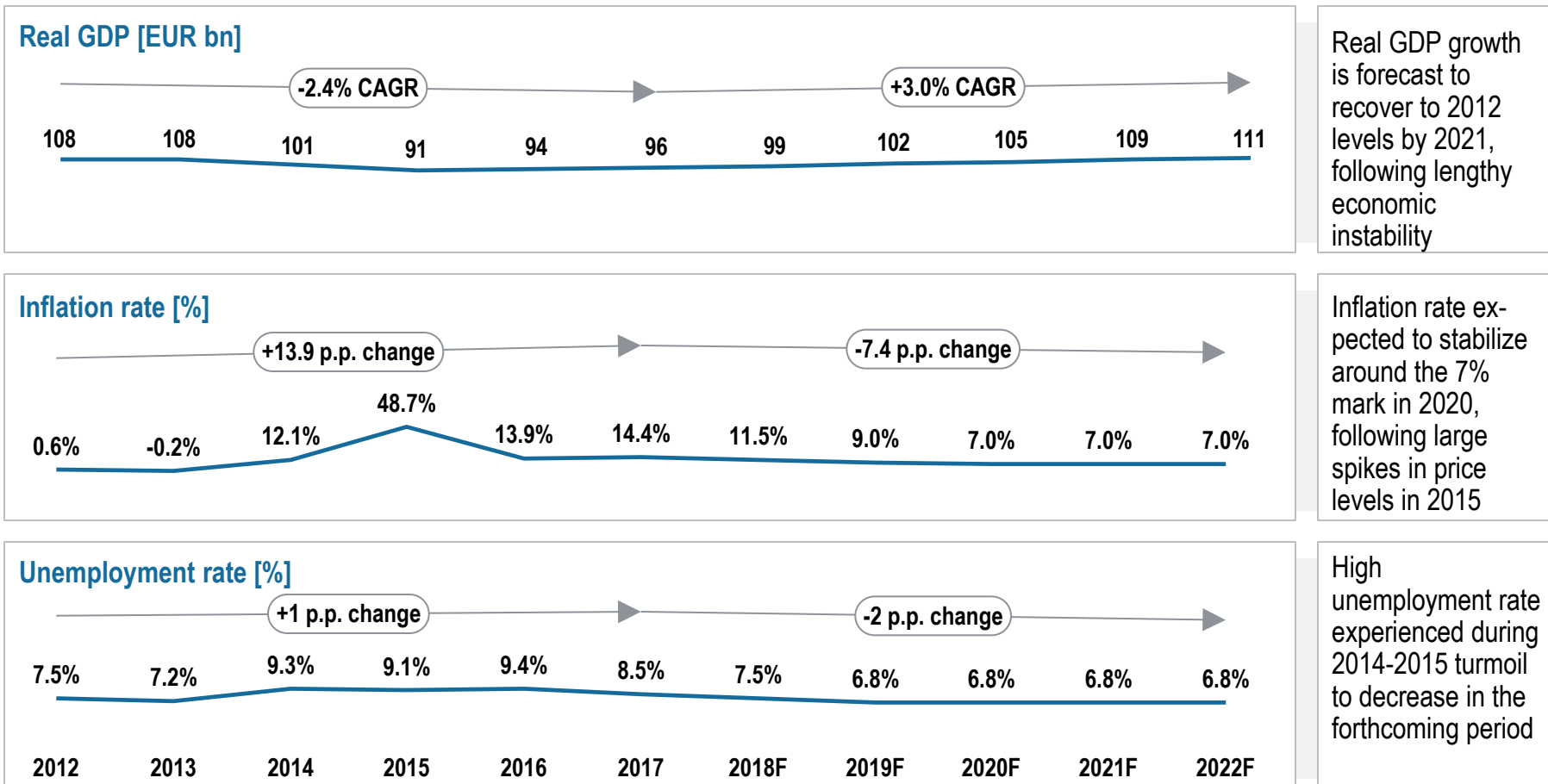
Forecast development of real GDP and unemployment rates are expected to positively impact disposable income growth

Disposable income and its selected drivers



General economic recovery and stabilization is forecast through 2022, following considerable contraction in 2014-2015

Macroeconomic indicators, 2012-2022F



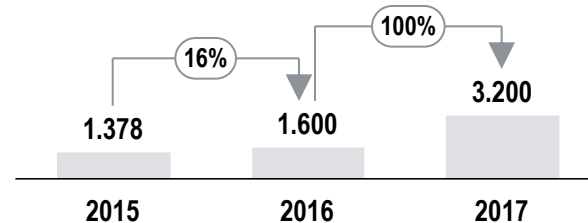
Maternity stimulus and increases in minimum salary to partially mitigate adverse effects of 2014-2015 turmoil

Country-specific consumption drivers and trends

Maternity benefits

- > 7x increase in lump-sum payment on childbirth since 2005 – Currently c. EUR 1,400/child
- > Variable incentive, depending on household size, up to 2014 – As of 2014, fixed lump-sum and monthly benefits per child

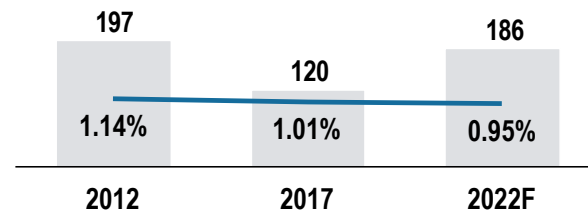
Minimum salary development [UAH]



Other drivers and trends

- > Political and economic turmoil of 2014-2015 caused hyperinflation (spiking at c. 60%), devaluation of UAH (up to 70%) and fiscal deficits that caused severe contractions in GDP

Annual spend per child [EUR] and births per total population



Program had tangible impact on child population in Ukraine – Birth rates rose 50% between 2005 and 2009

C. 4x increase in minimum wage between 2012 and 2018 – Significant increase in consumption due to higher disposable income

Important progress has been realized to stabilize the economic indicators and drive economic growth – Economy set to recover to 2012 levels by 2020 in EUR terms

The birth rate is expected to decrease and the annual spend per child is expected to increase – Higher disposable income and normalization of economic and social climate spur the growth

Key trends have a positive influence on the ATH market – However, political instability and macroeconomic landscape hampering growth

Key trends and market characteristics



Overall impact on the ATH market value:  Positive  Negative  Neutral

We have gathered significant insights into key Ukrainian ATH market trends by interviewing local industry experts

Selected quotes from interviews with market participants

Shopping malls are gaining popularity because parents have access to all the stores they need, both for them and the children. Also, there are some activities for kids, some relaxing areas, so it is always nice to have a day out there with children.

Sales Manager, children's specialist retailer



It's important to have a website, even though most parents will not buy directly online. It's good to offer them the space to research potential options before they visit a physical store.

Sales Director, children's specialist retailer



Buying online is sometimes a bit cheaper, up to 10-15%, and this is very attractive to Ukrainians, as price is an important factor in decision making.

Executive Director, children's specialist retailer



The bazaars and the open markets are still popular in Ukraine and probably will be for a while. Usually, people find good quality there for a fair price.

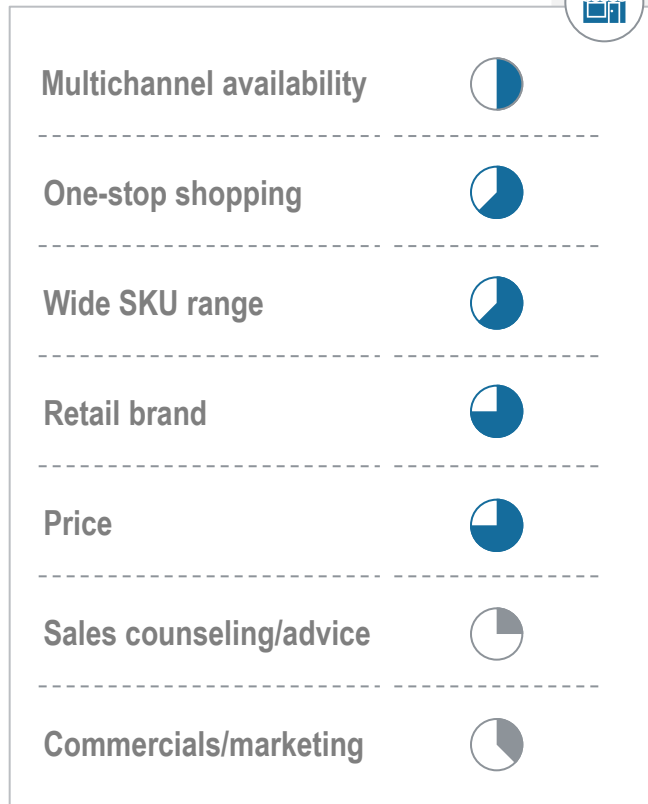
Sales Director, toy manufacturer



Retailer brand, price positioning, SKU range and one-stop shopping seem to be the top criteria for choosing ATH retailers in Ukraine

Customer retailer selection and product purchasing criteria

Main criteria for choosing retailers



Customer purchasing criteria – Children's apparel

- > **Price** is one of the main purchasing criteria for children's apparel in the Ukrainian market
- > Consumers also appreciate the **quality of the fabrics** and the overall **garment design**

Customer purchasing criteria – Toys

- > **Price** is clearly the most important purchasing criterion for most toy purchases in the Ukrainian market
- > **SKU range** is also relevant for the traditional toys category, albeit to a lesser degree than price

Customer purchasing criteria – Children's hardware

- > The overall **product quality/durability** is one of the leading purchasing criteria for products in the hardware category as consumers seek reliable products that will last for several years (e.g. for second child or to be given away or sold)
- > **Recommendations** from friends or relatives and **price** are also important

Overall importance of criterion in choosing a retailer ○ Low ● High

ATH consumer preferences in Ukraine have been derived based on in-depth interviews with local industry experts

Selected quotes from interviews with market participants

The store brand is important, but when parents don't have enough money they will buy wherever the products are cheaper.

Sales Manager, children's specialist retailer



Assortment is important because parents want to see different models, colors and so on. For example, we only had one brand of strollers displayed in the shop, and when we added more models from the same brand, the brand started selling much better.

Sales Director, children's specialist retailer



There is a tendency to have toys from abroad, as it is considered very prestigious if you can afford to buy your child something from a well known and international brand.

Sales Director, toy manufacturer



Parents would love to buy their kids toys from international brands and not from China, but they are too expensive. Brand is important when buying for a birthday or a toy that they think will last longer.

Executive Director, children's specialist retailer



Parents don't want to buy a stroller today and tomorrow find out that it's broken. They want products that will last and maybe even be used for a second child, given to relatives or sold to someone else.

Category Manager, children's specialist retailer



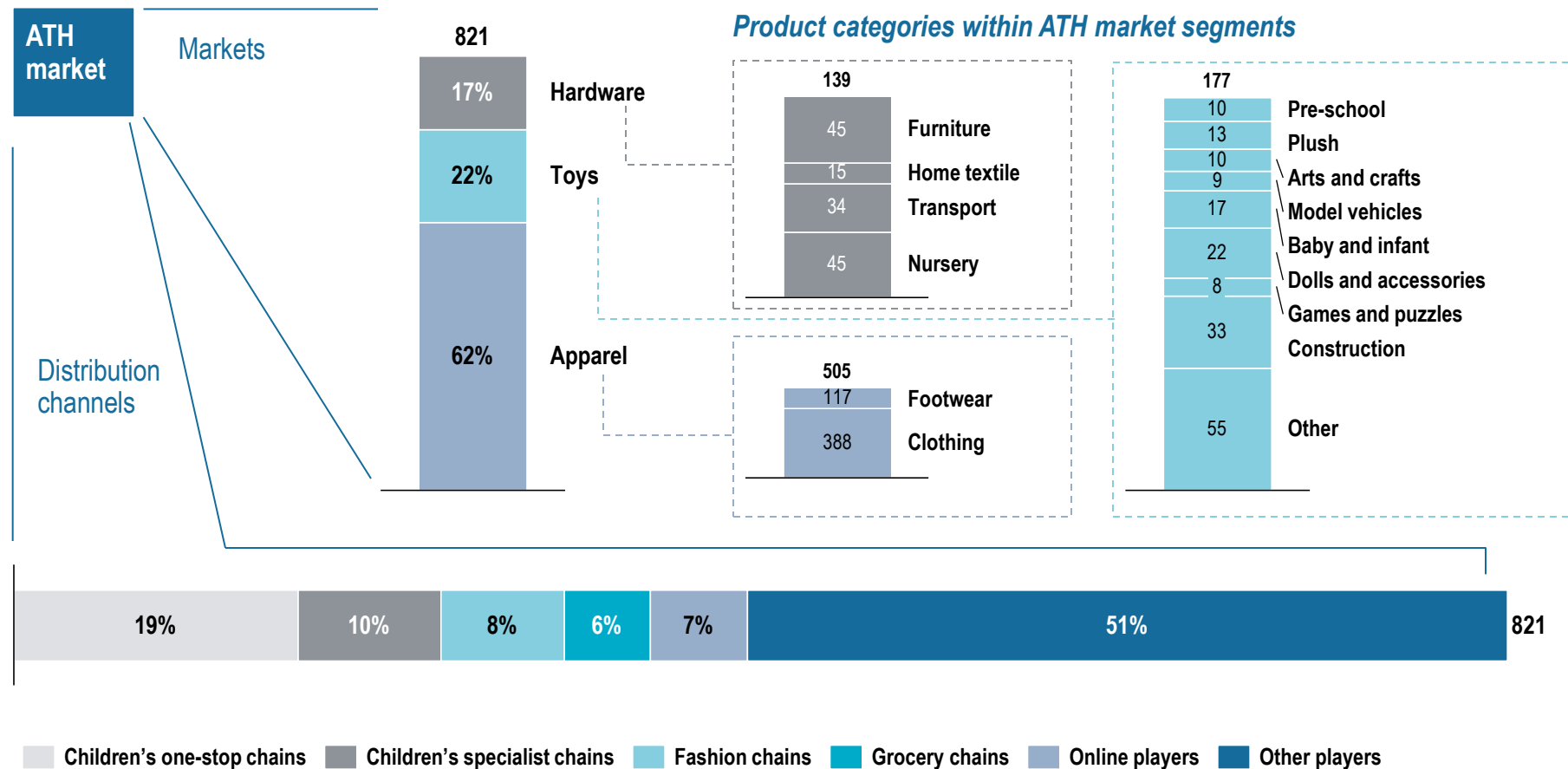
Specialized shops are preferred due to the fact that they offer specialized advice on choosing the right model, and all the features of the products are presented and tested before the purchase.

Sales Director, children's specialist retailer



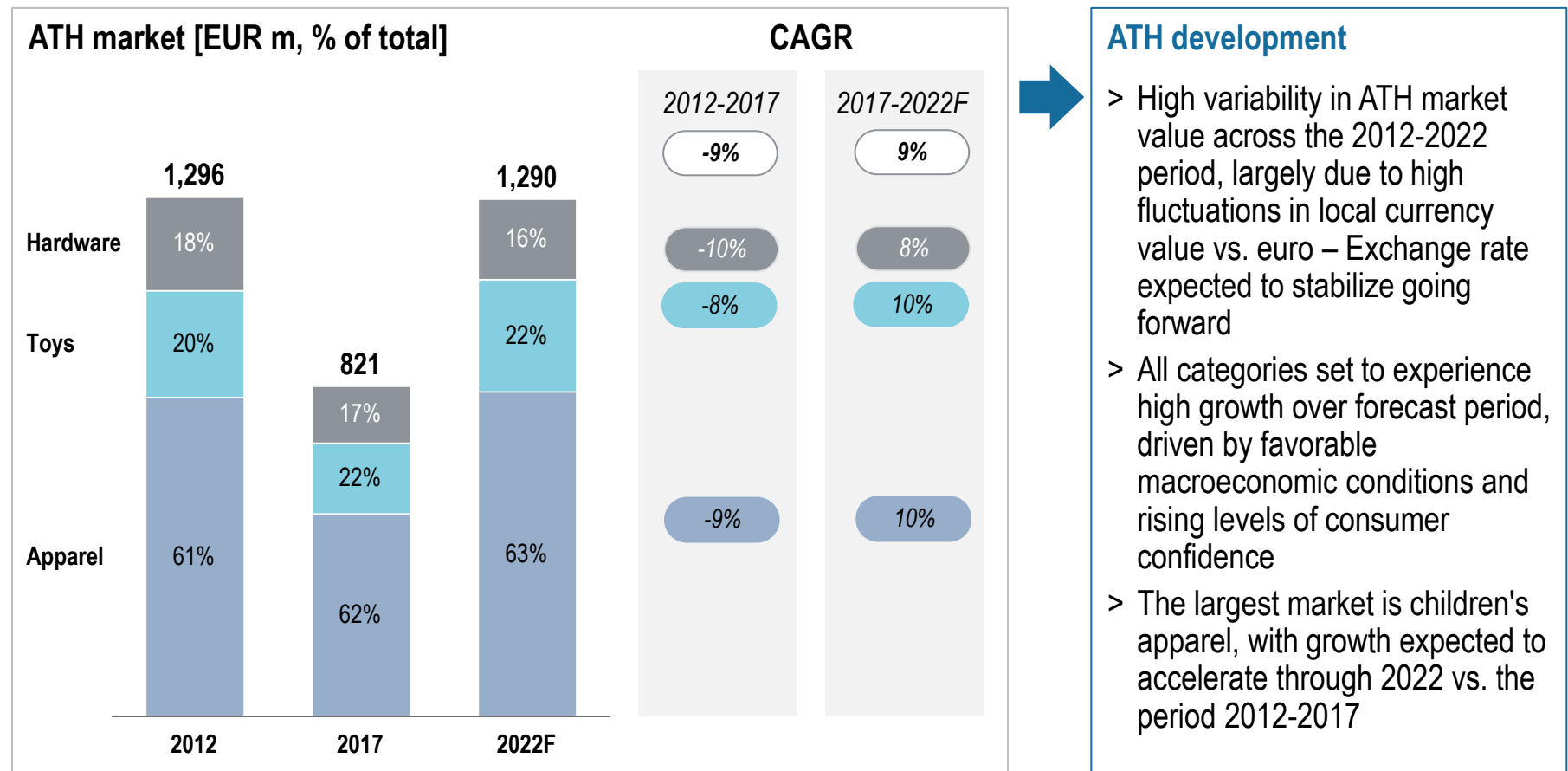
Within the ATH market, apparel is the largest segment, and the other players segment makes up the largest distribution channel

ATH market structure, 2017 [EUR m, % of total]



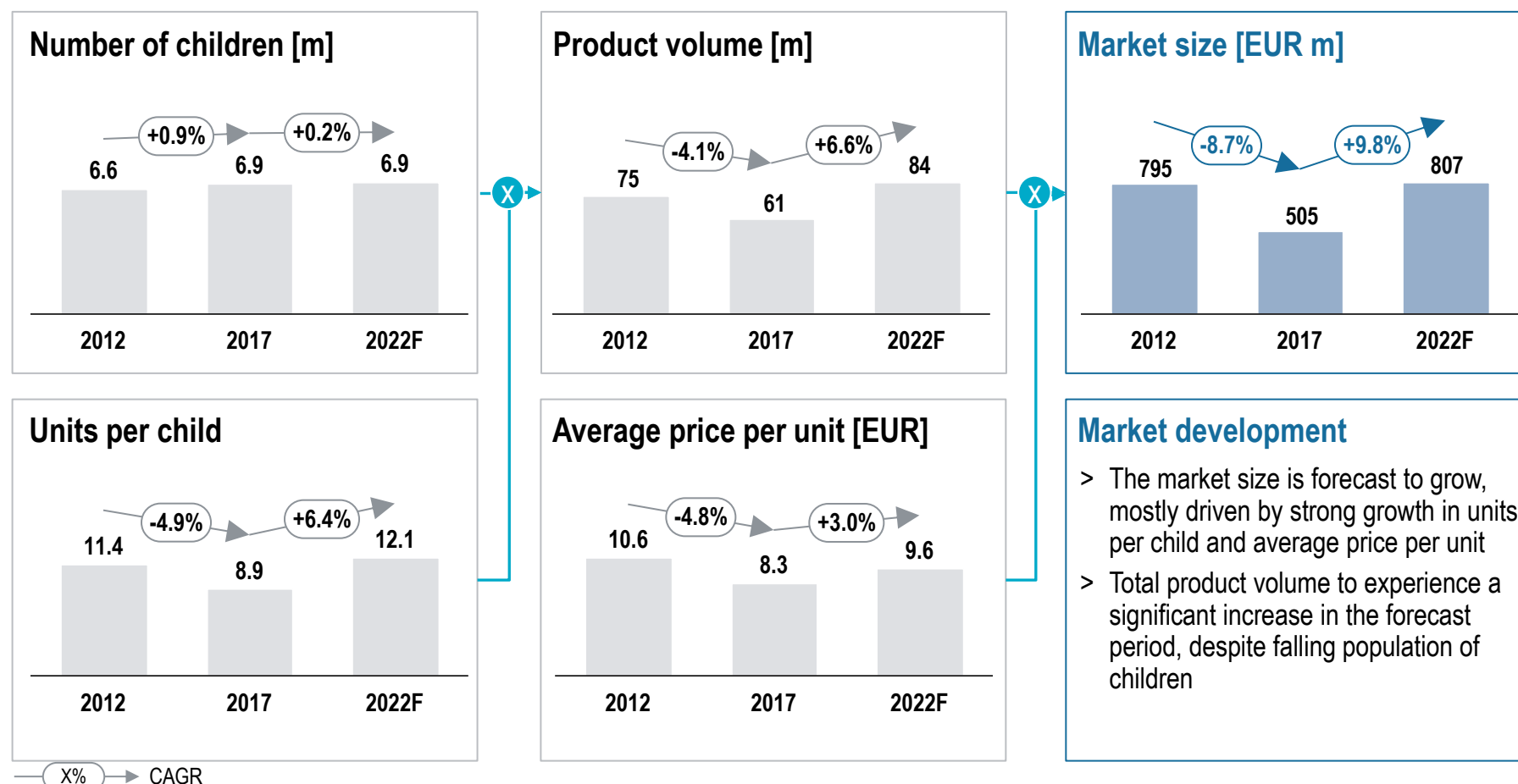
Children's apparel is forecast to retain the largest value within the ATH market through 2022 – Nominal value to return to 2012 levels

ATH market overview, 2012-2022F



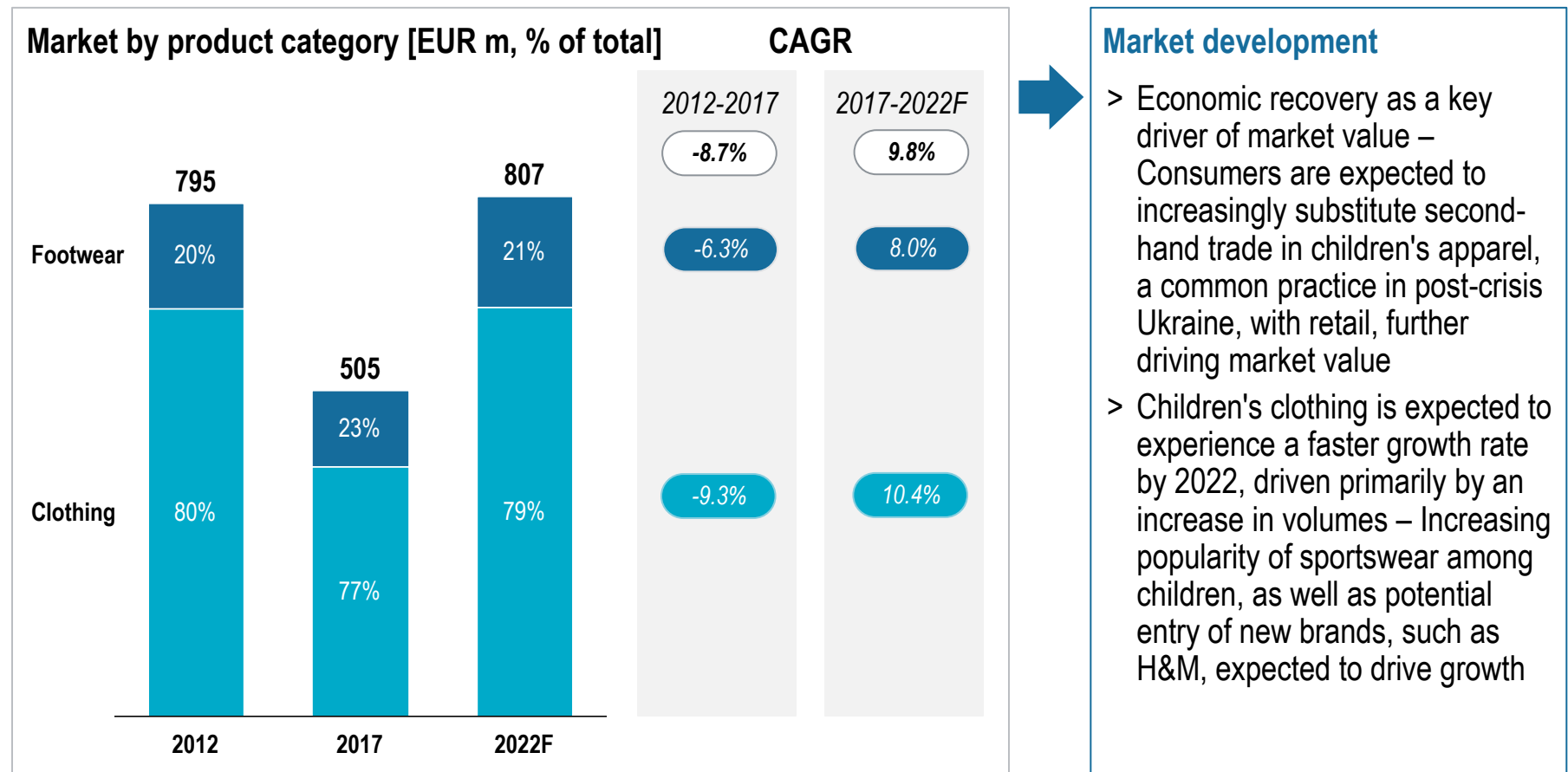
The major growth driver for the children's apparel market is expected to be units per child, expected to grow by 6.4% annually through 2022

Children's apparel market value drivers, 2012-2022F



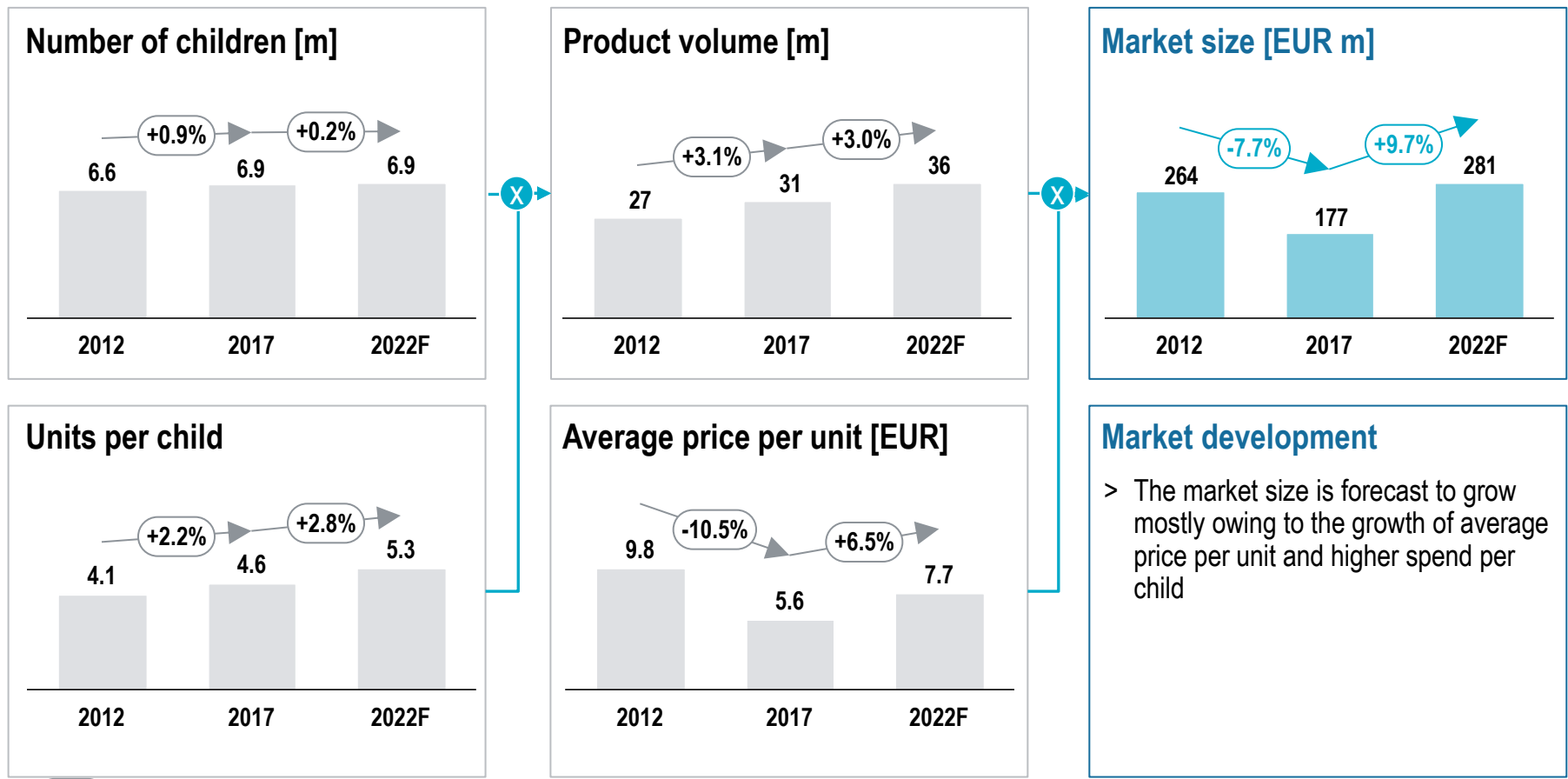
Children's clothing is expected to remain the largest category within the children's apparel market through 2022

Children's apparel market by product category, 2012-2022F



The major driver of the growth of the toys market is expected to be a considerable increase in average price per unit

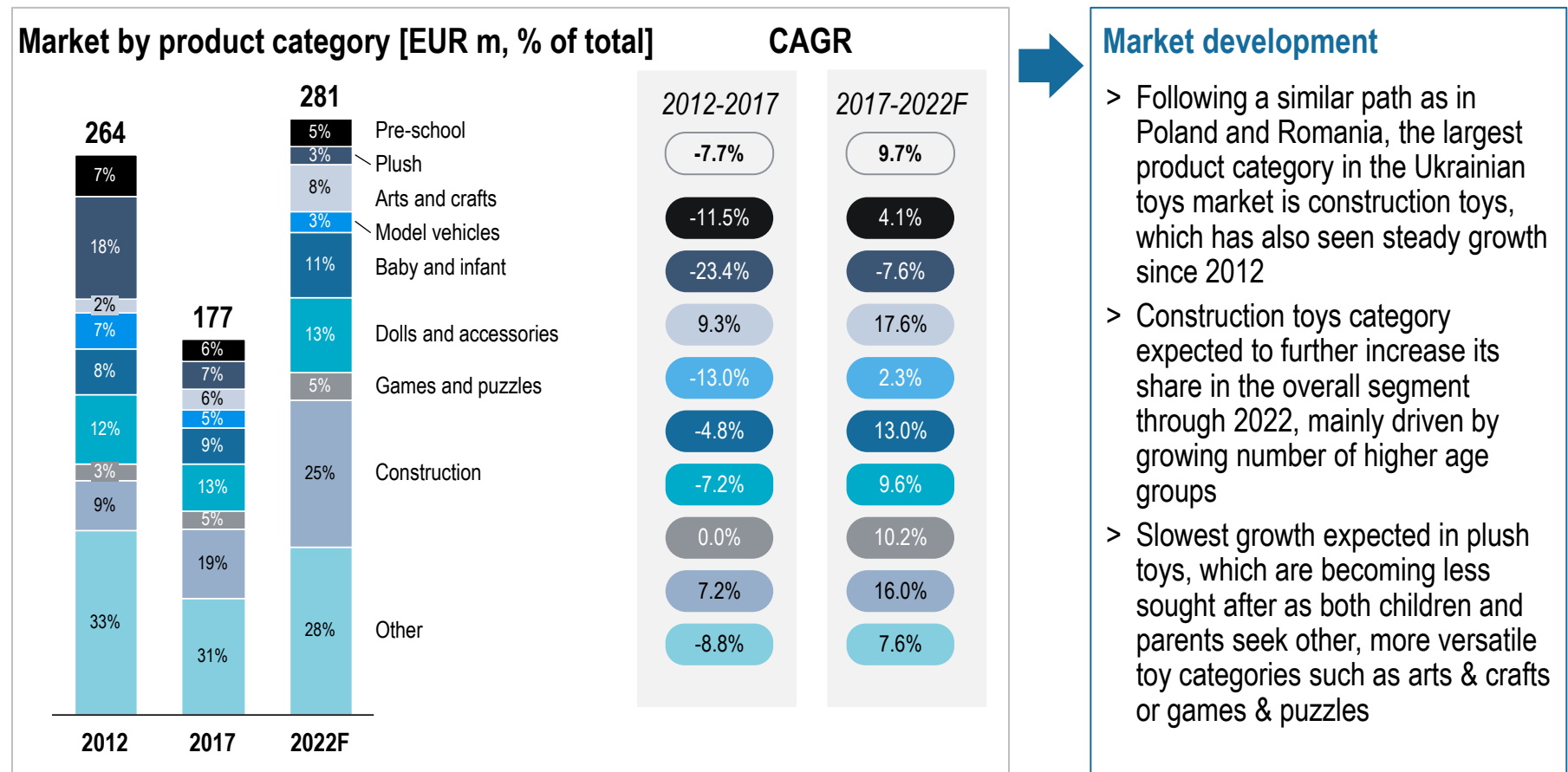
Toys market value drivers, 2012-2022F



X% → CAGR

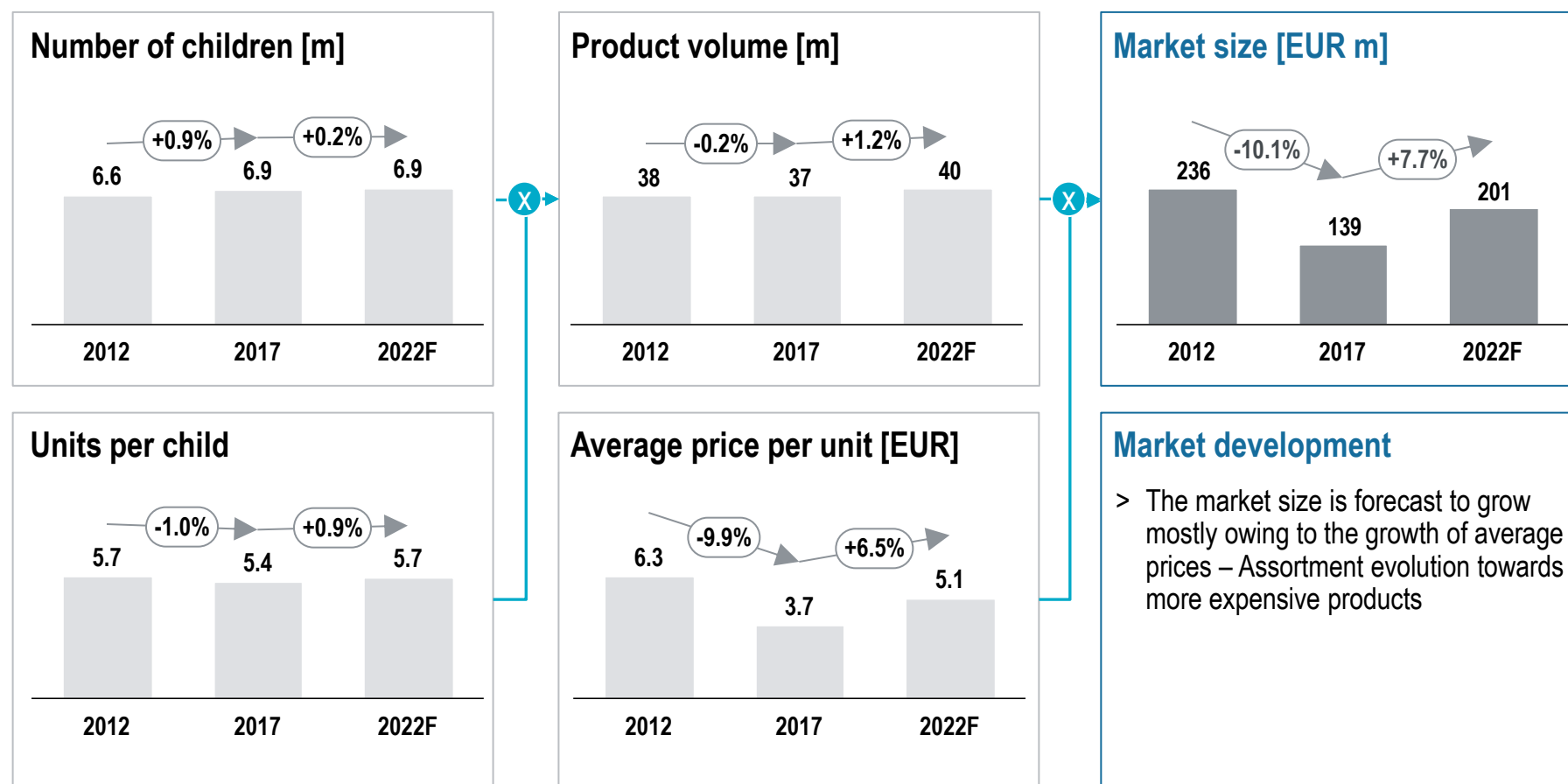
Construction toys are forecast to have the largest value within the toys market by 2022

Toys market by product category, 2012-2022F



The major driver of children's hardware market growth is expected to be average price – C. 6.5% annual growth expected through 2022

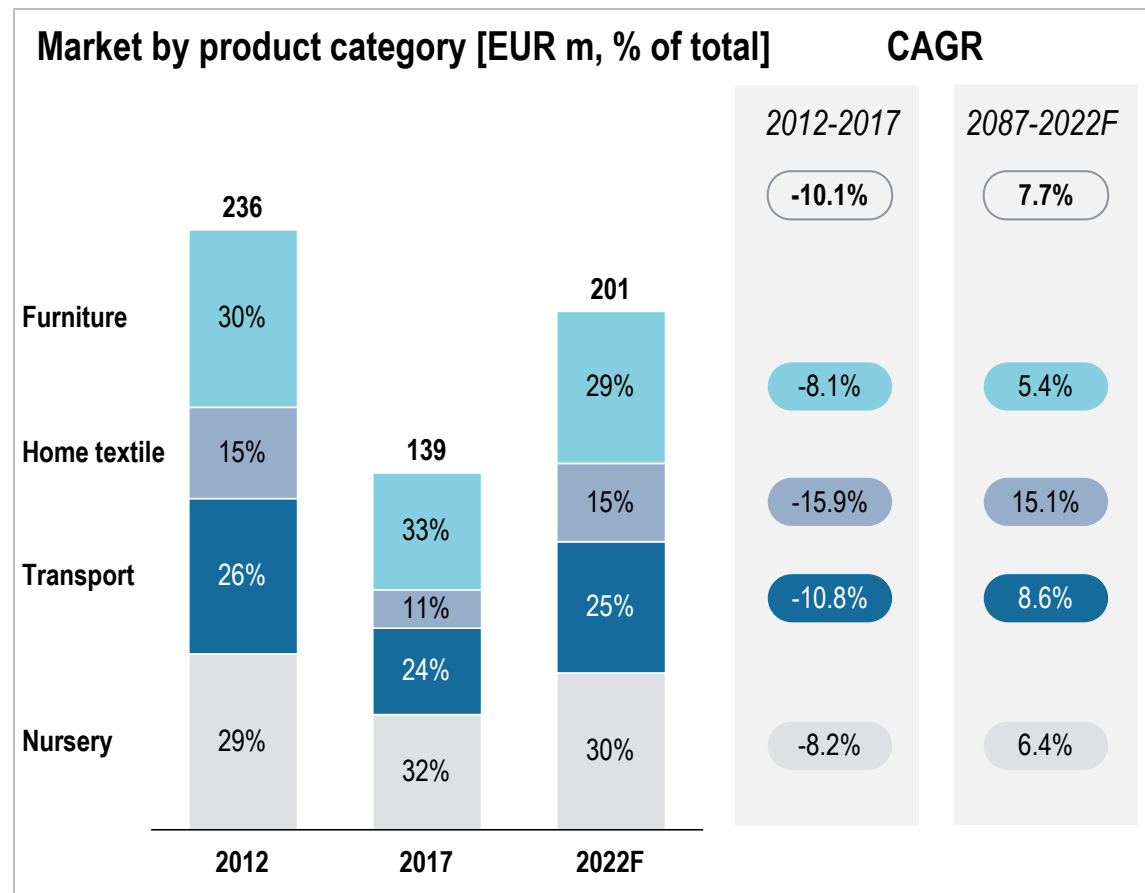
Children's hardware market value drivers, 2012-2022F



X% → CAGR

Nursery and furniture products are forecast to make up almost 60% of the value within the children's hardware market by 2022

Children's hardware market by product category, 2012-2022F

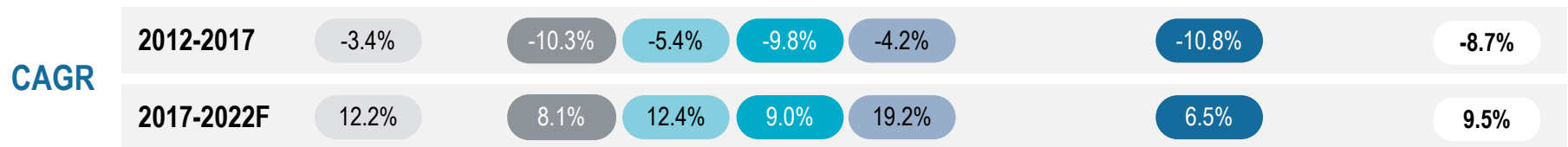
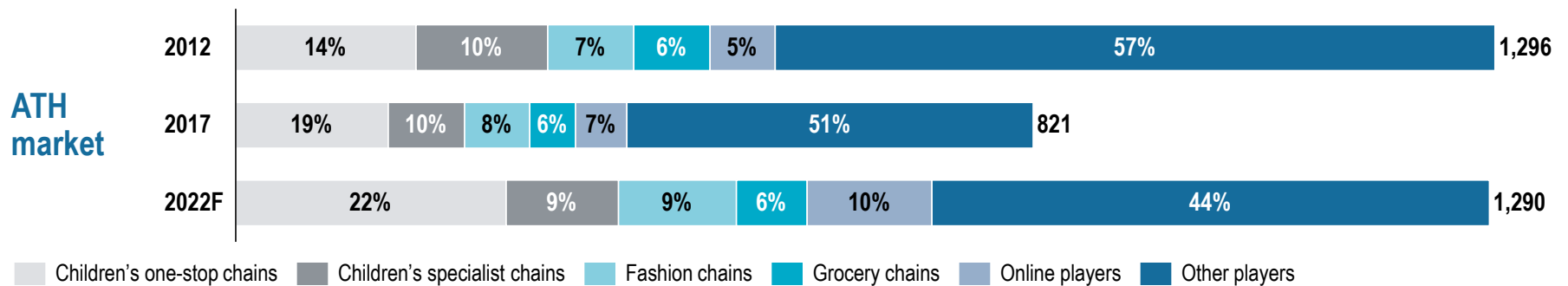


Market development

- > The overall hardware market is dominated by second-hand markets, with a large share of hardware products passed on between relatives or friends, or sold online – Going forward, such practices are expected to decline due to increasing disposable income
- > Home textile and transport categories are forecast to grow fastest through 2022
 - Market premiumization is the key driver of growth in this category, due to increasing customer preference for brands

Online players, fashion chains and children's one-stop shops are forecast to see the highest growth within the ATH market through 2022

Share of ATH distribution channels, 2012-2022F [EUR m, % of total]

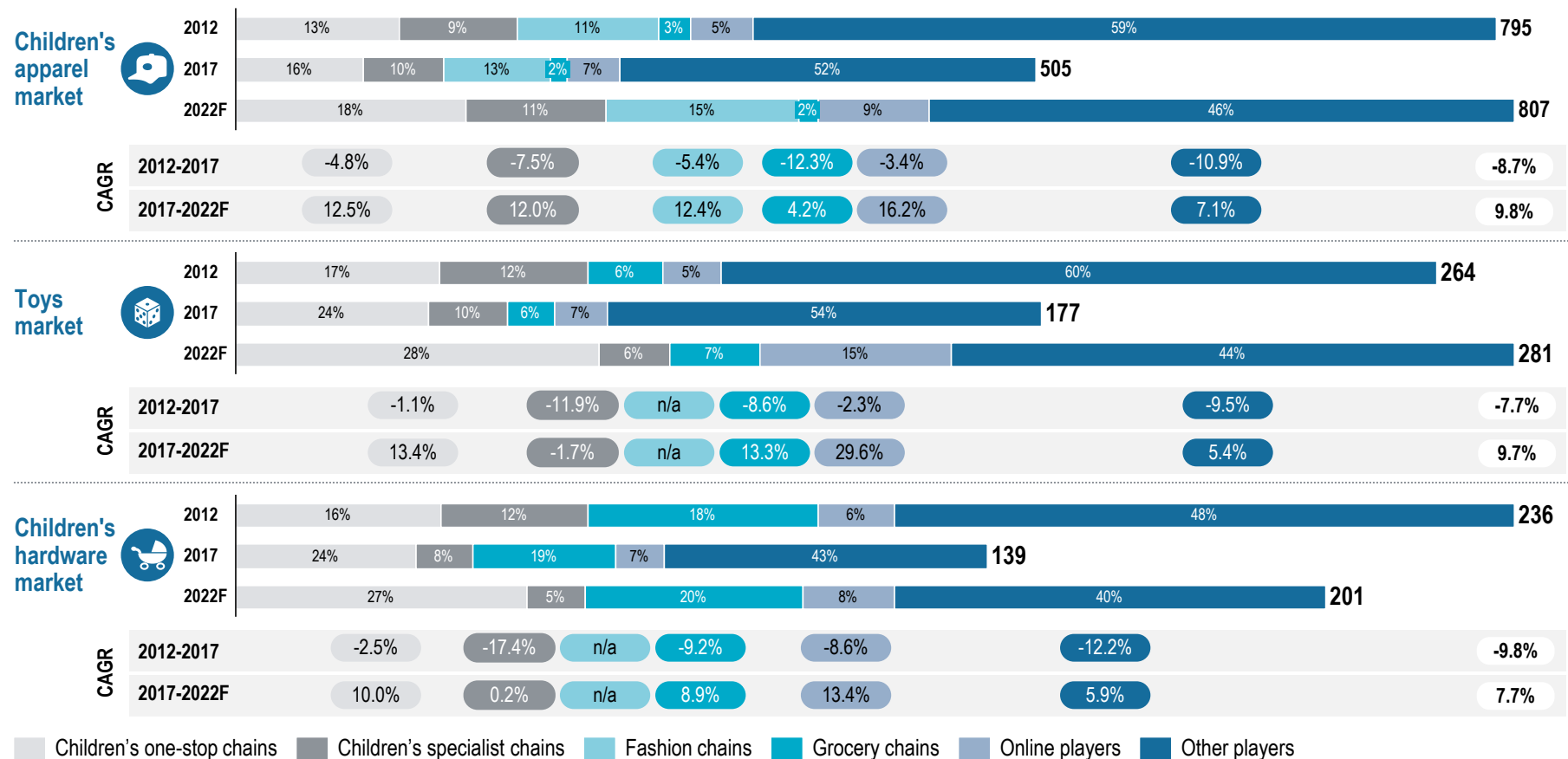


Segment development

- > Although decreasing in share, the other players segment continues to dominate the ATH market through 2022
- > Increase in disposable income expected to shift share of market to children's one-stop chains and fashion chains, with broader product range and higher quality products
- > Potential market entry of apparel brands to Ukraine expected to drive growth of fashion chains through 2022

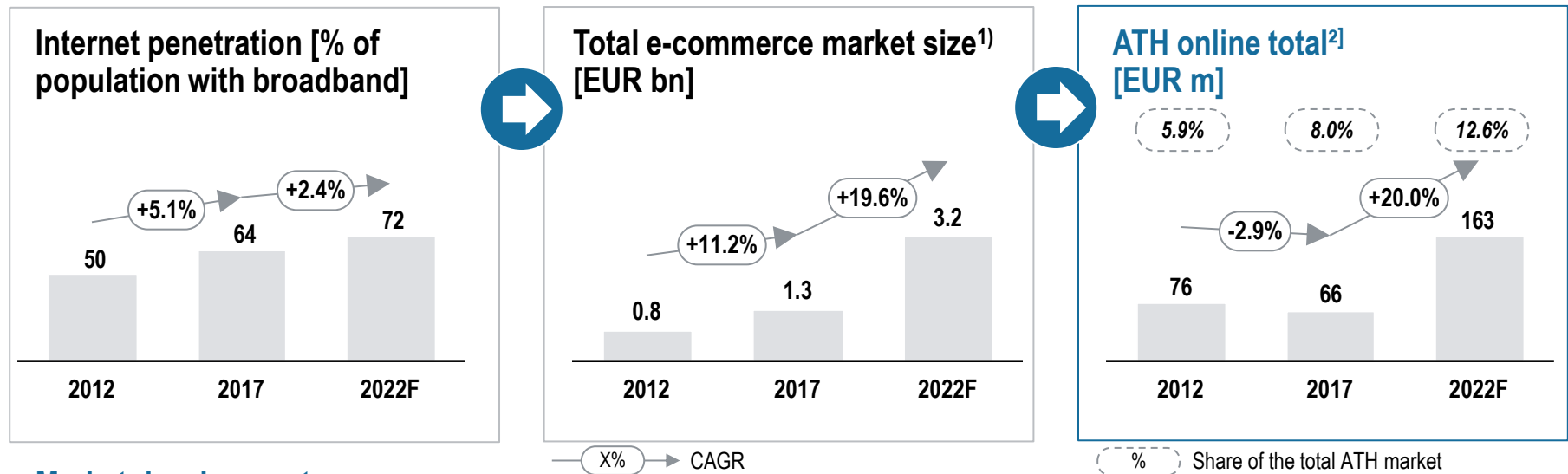
Online segment and children's one-stop chains are expected to experience the highest growth rates in all categories

Share of distribution channels in ATH market, 2012-2022F [EUR m, % of total]



ATH online channel is forecast to grow in line with the total Ukrainian e-commerce market

ATH online distribution channel



Market development

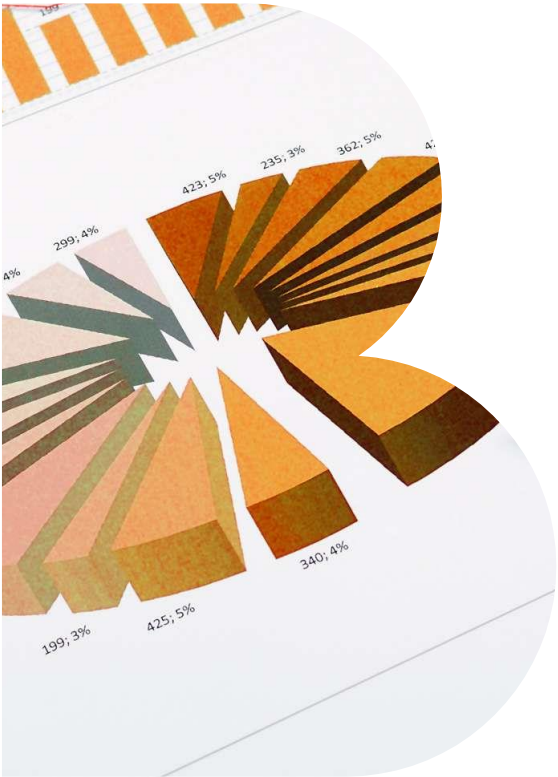
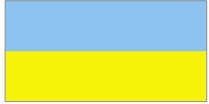
- > Steady growth in Internet penetration for both broadband and mobile – Growth expected to continue beyond 2022, converging towards higher penetration rates in CEE region
- > Enhanced Internet access to drive surge in e-commerce market size, with fivefold growth between 2012 and 2022
- > ATH online channel will profit from both the total e-commerce growth and omnichannel strategy of key players

1) The market excludes digital media, digitally distributed services (e.g. plane tickets), B2B markets, resale of used goods (reCommerce) and sales between private persons

2) Including pure online players and online share of other players

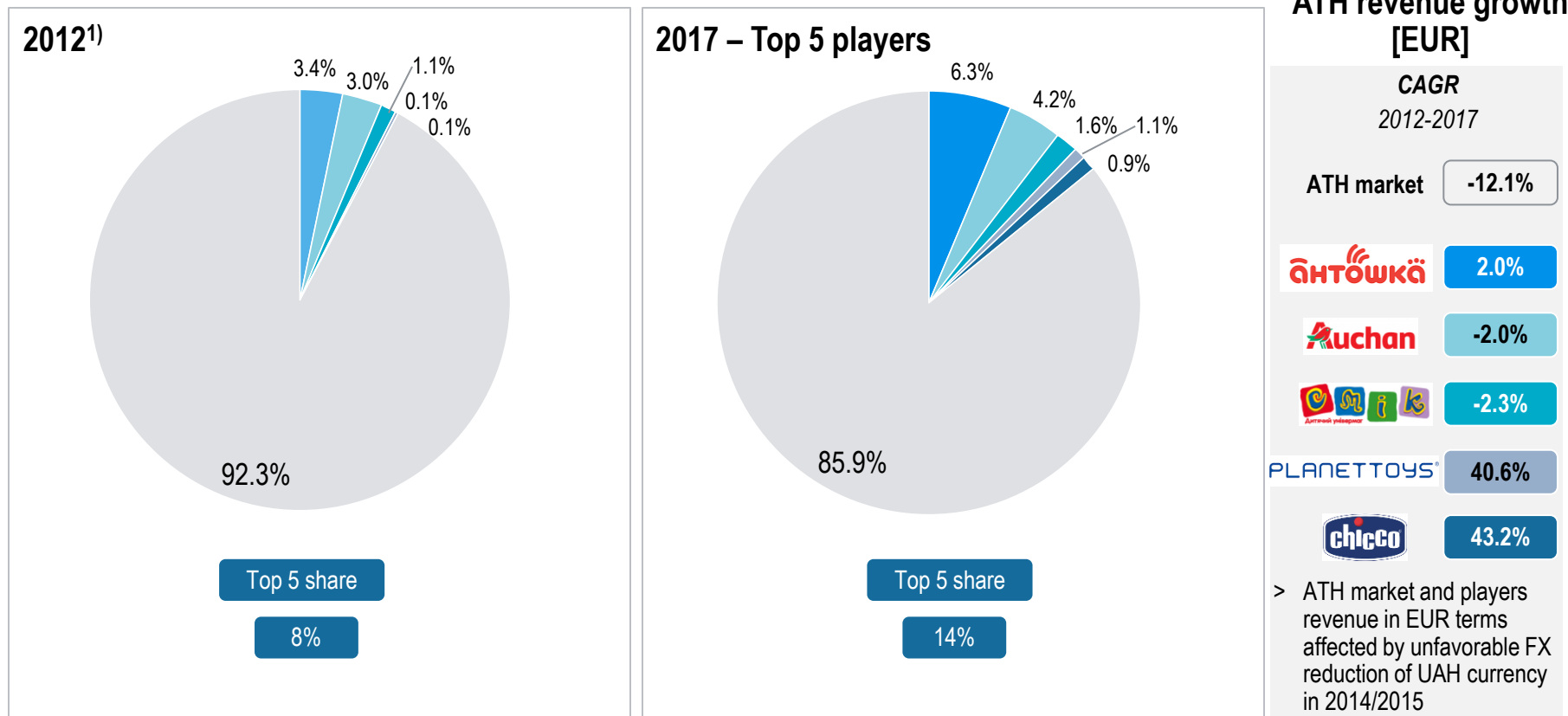
Source: Market model based on desk research, mystery store checks, expert interviews

D.2 Players in the market



The top 5 ATH players of 2017 have consolidated their market positioning in the ATH market

Revenue market shares of 2017's top 5 ATH players [% of total ATH market value] Indicative



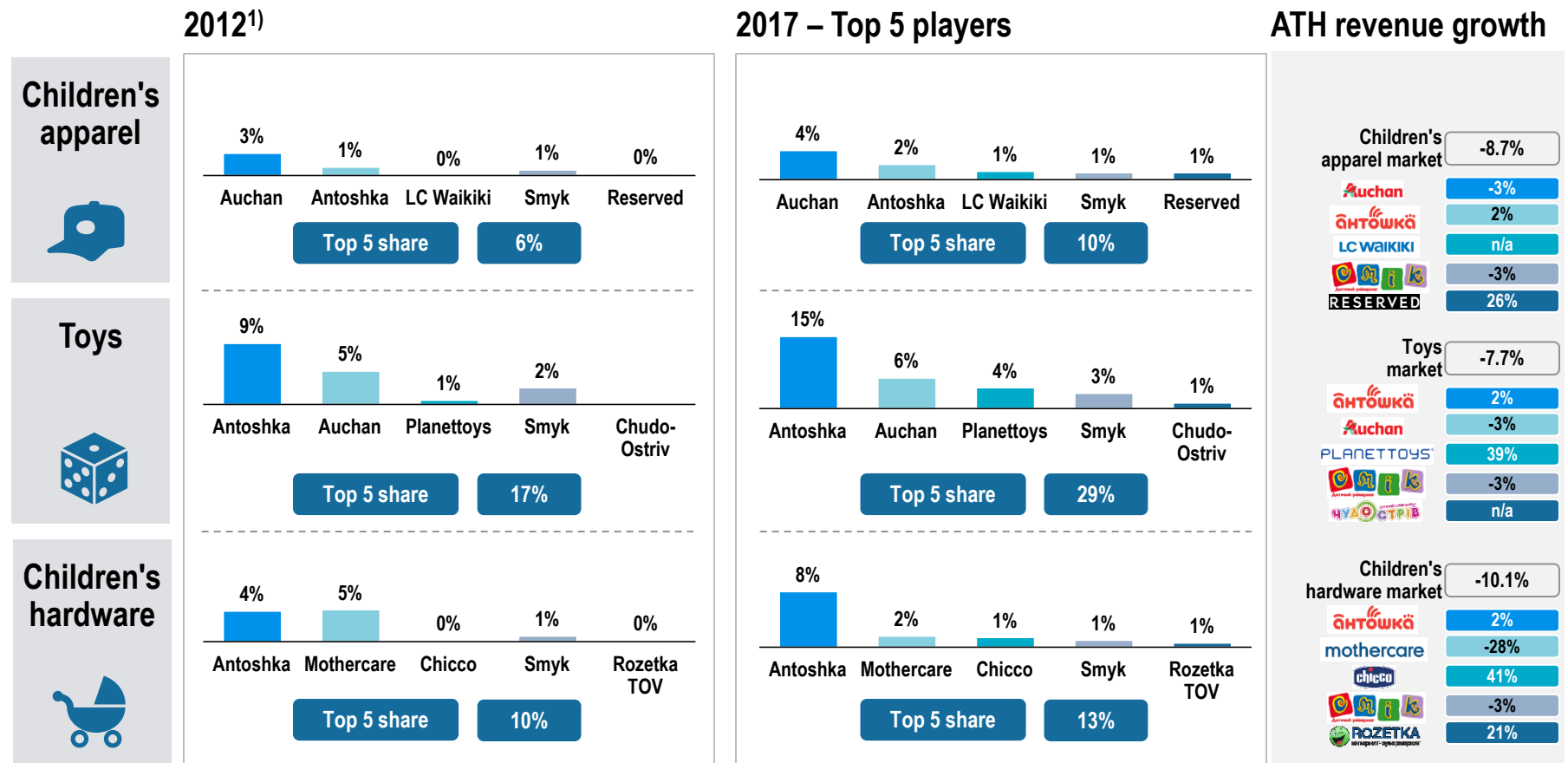
Antoshka Auchan Smyk Planettoys Chicco Others

1) Based on ranking of 2017's top 5 players

The top 5 ATH players of 2017 have consolidated their market positioning in all key categories

Revenue market shares of 2017's top 5 ATH players [% of group value]

Indicative

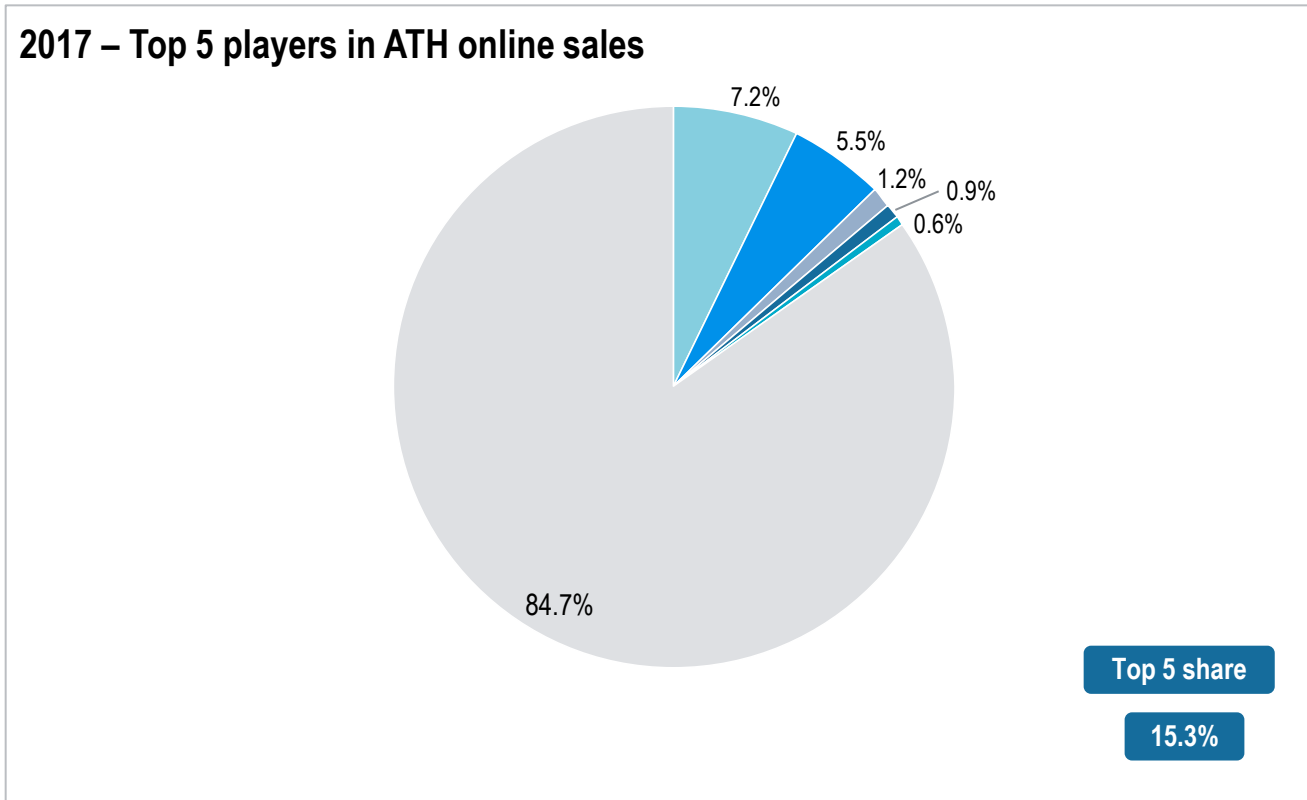


1) Based on ranking of 2017's top 5 players



ATH online market is comparatively consolidated as c. 15% of the market is generated by the Top 5 players – no market place provider

Online revenue market shares of top 5 ATH players in 2017 [% of total online ATH market value]

Indicative



ATH online revenue [EUR m]

ATH online market	66
 ROZETKA интернет-супермаркет	5.7
	3.6
	0.8
PLANETTOYS	0.6
LC WAIKIKI	0.4

Rozetka TOV Antoshka Chicco Planettoys LC Waikiki Others

Players cover the full market spectrum – Largest share of ATH revenue from generalists

ATH market segments and selected segment players [% share in ATH market revenue]¹⁾

Breadth of product assortment [generalist vs. specialist]



○ Bubble size represents % share in ATH market revenue

Children's one-stop chains
 Children's specialist chains
 Online players
 Grocery chains
 Fashion chains

1) As of 2017

The wide range of product categories distinguishes one-stop specialists from other specialist chains

ATH product category coverage of selected market players (1/2)










		Children's apparel	Toys	Children's hardware
	 Antoshka	✓	✓	✓
	 Smyk	✓	✓	✓
	 Planettoys	✓	✓	X
	 Chicco	✓	✓	✓
	 Mothercare	✓	✓	✓
	 Budynok Igrashok	✓	✓	X
	 Babyzone	✓	✓	✓
	 Shalunishki	✓	X	X
	 Chudo-Ostriv	✓	✓	✓
	 Reserved	✓	X	X
	 LC Waikiki	✓	X	X
	 Gloria Jeans	✓	✓	X
	 Zara	✓	X	X
	 Adidas	✓	X	X

✓ Company has such products X Company does not have such products

Considerable seasonal variability in children's product range for hypermarkets

ATH product category coverage of selected market players (2/2)

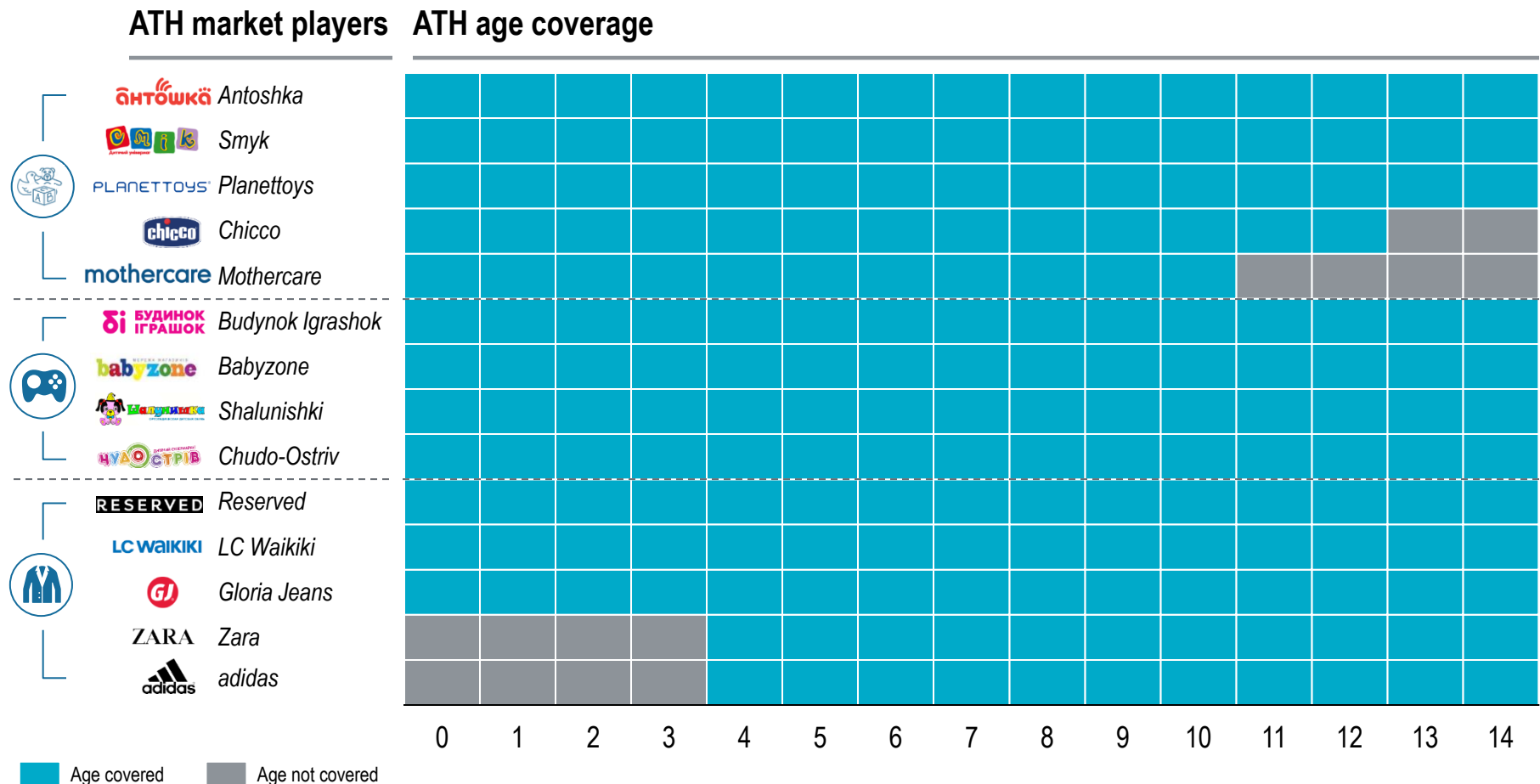
		Children's apparel	Toys	Children's hardware
 	Auchan	 ✓	 ✓	 ✗
 	Rozetka TOV	✓	✓	✓

✓ Company has such products

✗ Company does not have such products

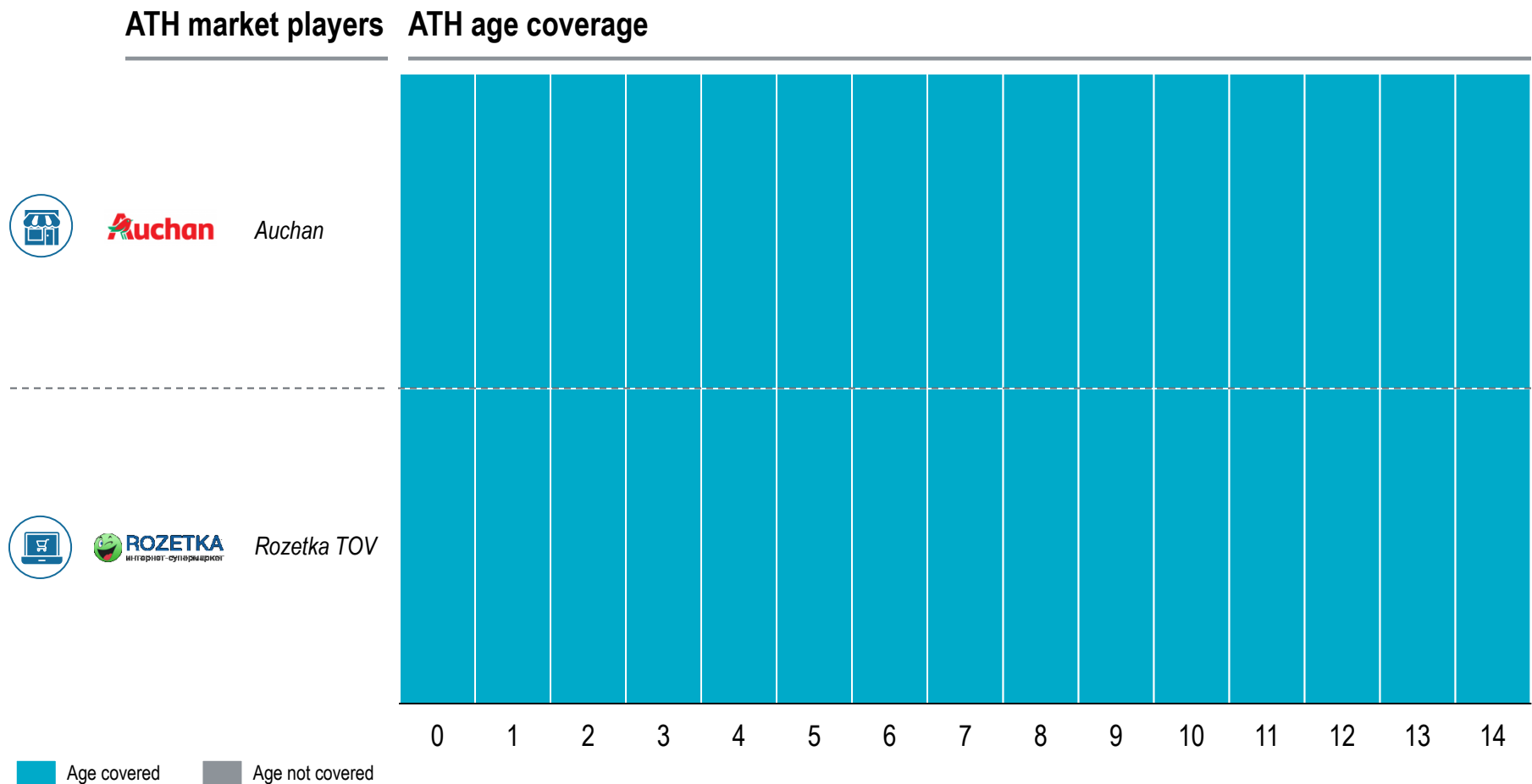
Most of the players considered across all segments cover the full age spectrum up to 14 years old (1/2)

ATH age coverage by selected market players (1/2)



Most of the players considered across all segments cover the full age spectrum up to 14 years old (2/2)

ATH age coverage by selected market players (2/2)



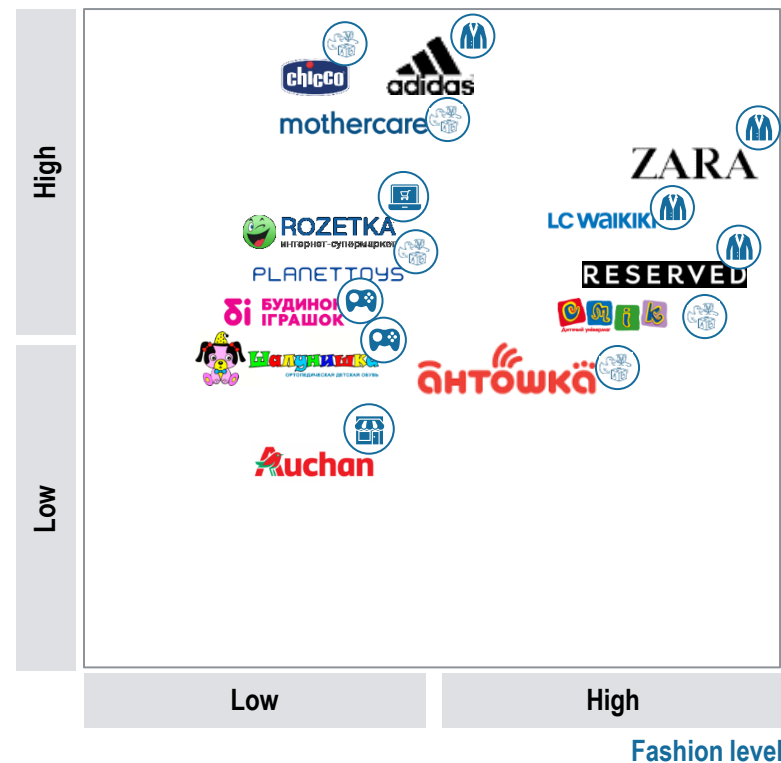
Most chain players have moderate or high prices/fashion level, with Auchan at the low end in terms of prices and fashion level

Competitive positioning of selected children's apparel market players, 2017

Indicative

Competitive positioning






Price level



Approaches to competitive positioning

- > In general, Antoshka offers a wide range of products at more competitive prices than its international rivals, such as Mothercare and Chicco, who focus on high-quality products
- > Relatively high price sensitivity of consumers drives popularity of the online and other players segments (i.e. independent players)


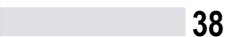
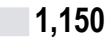








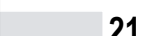


















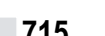



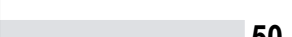




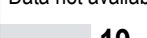

Comments on competitive positioning

-  Antoshka positioned mid-range, with other international brands (e.g. Chicco) positioned towards higher end of market
-  Players positioned both at high and low end of price/fashion level spectrum
-  Multiple approaches possible within segment – Players positioned at both high and low end of price/fashion level spectrum
-  Low fashion level with competitive prices
-  Wide range of products with various fashion level, at competitive prices

Budynok Igrashok has highest number of stores, followed by Zara and Antoshka – Further footprint expansion expected to continue

Retail distribution of selected ATH market players, 2017

Indicative

ATH market players	ATH revenues ¹⁾ and market share 2017 [EUR m, %]		Number of stores	Typical store area [sqm]	Type of format	
	Revenue [EUR m]	Market share [%]			Own	Franchised
 Antoshka	52	6.3%	 38	 1,150	✓	✗
 Smyk	13	1.6%	 10	 650	✓	✗
 Planettoys	9	1.1%	 4	 1,000	✓	✗
 Chicco	8	0.9%	Data not available	Data not available	✓	✗
 Mothercare	4	0.5%	 21	 500	✓	✗
 Budynok Igrashok	not available		 52	 250	✓	✗
 Babyzone	not available		 13	 220	✓	✗
 Shalunishki	not available		 13	 200	✓	✗
 Chudo-Ostriv	2	0.3%	 35	 1,000	✓	✗
 Reserved	6	0.7%	 18	 1,000	✓	✗
 LC Waikiki	6	0.8%	 24	 715	✓	✗
 Gloria Jeans	0.4	0.1%	Data not available	 1,000	✓	✗
 ZARA	3	0.4%	 50	 3,400	✓	✗
 adidas	3	0.3%	Data not available	 180	✓	✗
 Auchan	35	4.2%	 19	 10,000	✓	✗

✓ Company has such type of format ✗ Company does not have such type of format

1) Estimation of revenues from ATH market on the basis of financial statements and assumed % of ATH in revenues

D.3 Market segment development



Traditional other players, are expected to continue to dominate the ATH market through 2022, however their share is likely to decrease

Development of retail distribution by ATH market segments¹⁾ [# of stores]



**Sustained growth expected for one-stop shops and fashion chains based on announced expansion plans
Online to experience highest growth driven by increasing e-commerce adoption**

1) Methodology used is described in slide 140

E. Definitions and methodology



The three markets in the scope of the study have been analyzed in detail by reviewing relevant market and competitive data

ATH market definitions and sources used



Children's apparel

- > The market includes all clothing and footwear for babies and children 0 to 14 years old
- > Clothing includes indoor and outdoor day clothes, night garments, underwear, sports clothes, accessories (caps, belts, scarves, etc.)
- > The market excludes child care products (e.g. diapers, wipes)



Toys

- > The market includes all traditional baby and children's toys, including construction toys, games and puzzles, dolls and their accessories, baby and infant toys, model vehicles, arts and crafts toys, plush toys, pre-school toys, outdoor and sports toys, scientific and educational toys, action figures and their accessories, remote control toys, ride-on vehicles, dress-up and role play toys, other traditional children's toys and games
- > The market excludes all types of video games



Children's hardware

- > The market includes all types of durable home (furniture, textile) and travel product for babies and children 0 to 14 years old
- > The products included are e.g. strollers, safety seats, cribs, travel cribs, beds, playpens, footbaths, bed textiles
- > The market excludes child care products, stationery, media products (books, CDs, DVDs, etc.)



Key sources used

- > National Statistics Institutes
- > Eurostat
- > World Bank
- > Statista
- > Oxford Economics
 - Global Economic Database
- > Desk research
 - Retail associations
 - Public company information
 - Press releases
 - National and international press
- > Expert interviews
- > Euromonitor
- > Mystery store checks
 - Stores of key players across three countries
- > Generally available consumer research

In the course of the study, we identified six distribution segments

ATH market distribution segments



Children's one-stop chains

- > Chains offering the full spectrum of ATH categories
- > Typical format: small, medium and sometimes large
- > Typical locations: often shopping malls



Fashion chains

- > Chains with apparel for children and adults; also non-food chains with apparel as one category
- > Typical format: small and medium (but small area for children)
- > Typical locations: shopping malls, retail parks



Online players

- > Pure online players active in ATH



Children's specialist chains

- > Chains focused on one of the ATH categories, typically apparel or toys
- > Typical format: small, rarely medium
- > Typical locations: high streets, shopping malls



Grocery chains

- > Grocery chains with a wide range of ATH products – hypermarkets, supermarkets, discounters
- > Format: medium and large
- > Locations: shopping malls, stand-alone



Other players

- > All other players active in ATH including independent
- > Format: often small
- > Typical locations: traditional, with low footfall

A thorough market model based on external information was applied consistently across the three markets to determine key trends

Market modeling approach

Overall market value and forecast



- > **Historical market values** for children's apparel, toys and children's hardware are based on desk research and expert interviews
- > **Market forecasts** are based on a combination of top-down and bottom-up approaches. The top-down approach includes a regression analysis of market values for the three product markets and macroeconomic factors. The bottom-up approach estimates market values based on the expected evolution of underlying drivers and corresponding adjustment factors (e.g. spend per child elasticity against disposable income)
- > **The breakdown of markets into product categories** was based on desk research and expert interviews
- > **Market forecasts were sense-checked** in expert interviews and by means of benchmarking with other markets, both at an aggregated level as well as at the level of individual drivers (e.g. number of children, product units per child, price per unit)

Market value by distribution segment



- > **Indicative market values by distribution segment** were determined based on a bottom-up quantitative approach and insights gathered from expert interviews
- > **The top 20-25 players by ATH revenues** in each market were identified and assigned to a certain distribution segment
- > **The segments' shares in total market revenues and their evolution** was determined based on the evolution of the respective players assigned to each
- > **Forecasts** were based on top players' announced expansion plans where available and considered declining growth or linear growth elsewhere
- > **Revenues from apparel, toys and hardware** were estimated for each player based on available company data, desk research and expert interviews
- > For some retailers, revenues in the three markets were estimated based on **the share of shopfloor area dedicated to each category**, which was adjusted for differences in average ATH revenue per square meter
- > **Final results** were discussed in expert interviews and adjusted based on feedback received

- > **Estimated number of stores range** was based on the forecast number of stores per player in a given segment taking into account top players' announced expansion plans where available and considered declining growth or linear growth elsewhere where possible (in some cases we assumed withdrawal from own offline sales). The number was adjusted to include other brands active in the segment and was adjusted based on expectations regarding development of shopping malls and centers in a given country. We applied +/- figures to the resulting expected number of stores to provide an estimated range for number of stores. The range differs between countries and segments and depends on the range of stores' shopfloor area, number of players, stability of players and trends in a given segment as well as assumed country risk. The analysis was based on desk research and interviews with experts and players

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