**Global Economics & Country Risk Conference** 

# The rise of e-commerce retail sales and its impact on the global supply chain

18 October, 2017

Chris G. Christopher, Jr., PhD, CBE, Executive Director - US Macro & Global Economics, +1 781 301-9113, chris.christopher@ihsmarkit.com Ibrahiim Bayaan, Senior Economist, UPS, +1 404 828-6476, ibayaan@ups.com

Jeff McDonald, Executive Vice President, NNR Global Logistics, +1 630 254-3200, jmcdonald@nnrusa.com

Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved



# The US, Western European, and Chinese consumer: clicks outpacing the bricks

Chris G. Christopher, Jr., PhD, CBE, Executive Director - US Macro & Global Consumer Economics +1 781 301-9113, chris.christopher@ihsmarkit.com

Confidential. © 2017 IHS Markit<sup>TM</sup>. All Rights Reserved.

### **Forces affecting US consumer markets**

### **Positive forces**

- Employment growth
- Real wage growth
- Rising asset values
- Expansion of e-commerce



## **Negative forces**

- High student debt burdens
- Saving for retirement
- Asset and income inequality
- Store closings





## US real median household income made strides in 2015 and 2016



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## US incomes pushed past prerecession levels for most households in 2016



## US poverty rate pushed lower in 2015 and 2016



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## US consumer sentiment is upbeat, supported by improving household finances



## **US consumer sentiment by household income**



### US e-commerce share of retail trade jumps in second quarter





### US e-commerce takes a bigger bite out of retail sales



## **US e-commerce retail share expanding**



## **US 2017** holiday retail sales growth to maintain solid pace





## US 2017 online holiday retail sales growth to remain brisk



## **US online share of holiday retail sales**



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## **US: Clicks outpacing the bricks**



### Western Europe: GDP & consumer spending growth



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

### Western Europe: Real consumer spending



### Western Europe: Real consumer spending



## Western Europe: Younger consumers go online

(Percent of individuals with at least one online purchase over the year)









Confidential. © 2017 IHS Markit<sup>TM</sup>. All Rights Reserved.

Global Economics & Country Risk Conference / October 2017

### Germany

# 35-44 45-54 55-64 65-74 2016

117

## **Europe: Poland showing growth, Italy lagging**

(Percent of individuals with at least one online purchase over the year)



Confidential. © 2017 IHS Markit<sup>TM</sup>. All Rights Reserved.

### **Growth of e-commerce in Europe**



## China's economic growth will downshift in the long run



## China's online goods share of retail sales is expanding





# **US e-commerce and logistics**

Ibrahiim Bayaan, Senior Economist, UPS, +1 404 828-6476, ibayaan@ups.com

Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## E-commerce has transformed the retail space, with important implications for supply chains and logistics

- E-commerce sales have grown at a rapid pace over the past 15 years, steadily gaining share in the retail space
- The rise of e-commerce has caused significant shifts in retail strategies and in the information available to end consumers
- These shifts have led to changes in traditional supply chains as businesses evolve to address ecommerce demand

## **Traditional supply chains**



## **Traditional supply chains**



## **Traditional supply chains**



## **E-commerce has disrupted traditional supply chains**



Speed

### **Price Sensitivity**

Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## Surging e-commerce has driven the rise in B2C transportation



- In a traditional retail experience, the final delivery takes place at the retail store location, typically from a warehouse or wholesaler
- These shipments usually occur through commercial small-package shipments, LTL (less than truckload), or TL (truckload) shipments
- E-commerce shipments predominantly end at residential locations via small package, which can be more costly to deliver

#### Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved

## Rising e-commerce will likely lead to a majority residential market in upcoming years



## Businesses have increasingly competed on speed to gain advantage in the marketplace



- In recent years, e-commerce retailers have put a greater emphasis on speed of delivery
- As a result, retailers have increasingly set up warehouses/fulfillment centers located near major customer bases
- This leads to higher warehousing costs for businesses and shifts in the types of shipments used to transport goods

#### Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## LTL shipments have done well in recent years as firms aim to locate fulfillment centers closer to customers



## Free-flowing information has made consumers increasingly price sensitive



- E-commerce has allowed for rapid price comparisons by consumers, leaving retailers with little pricing power
- Many retailers have to keep both a physical and online presence, putting upward pressure on costs
- Retailers have reduced their physical presence and kept inventories lean, relying on omnichannel solutions for in-store customers

#### Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

## Store closings are projected to exceed recession levels



## Retailers have kept inventories lean as omnichannel strategies have evolved


# Summary

- The rise of e-commerce has placed traditional retailers in a difficult position, intensifying competition as consumers enjoy greater information
- Businesses have been tasked with delivering an e-commerce solution that gets products to consumers quickly at a low price
- In response, retailers have adjusted their supply chains, altering transportation and warehousing demands
- The retail environment continues to evolve, with businesses constantly adjusting their practices to meet changing consumer preferences

# What are the drivers of China's supply chain?

Jeff McDonald, Executive Vice President, NNR Global Logistics, +1 630 254-3200, jmcdonald@nnrusa.com

# Four shifts driving China's supply chain





# Four shifts driving China's supply chain

- Labor costs
- Production methods and location
- Consumer demographics
- Consumption patterns: e-commerce

# 1<sup>st</sup> Shift: Labor costs

# The end of low-cost labor?



# Chinese wages and salaries will increase by more than 11 percent in 2017



# Chinese real wages and salaries will increase by 8 percent in 2017



# **2<sup>nd</sup> Shift: Production methods**

The end of low-cost labor?

Chinese manufacturers coming to the US?



# **2<sup>nd</sup> Shift: Production location**



This map is not to be used nor cited as evidence in connection with any territorial claim. IHS Markit is impartial and not an authority on international boundaries which might be subject to unresolved claims by multiple jurisdictions.

# **3<sup>rd</sup> Shift: Consumer demographics**

# Producer <u>AND</u> consumer



# By 2020, Chinese consumption will have grown by \$1.4 trillion – even as GDP growth slows



## Three forces of change are creating a two-speed economy in China





# 4<sup>th</sup> Shift: Consumption patterns

Evolution of the Chinese consumer

From EPZ to e-commerce



# **Total Chinese retail sales growth rate is hovering around 10%**



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

# Meanwhile, growth of online retail sales of goods is three times stronger



Confidential. © 2017 IHS Markit<sup>™</sup>. All Rights Reserved.

# China's online goods share of retail sales is expanding





## 4<sup>th</sup> Shift: Consumption patterns

More e-commerce sales in one day in China than 1 year in Brazil!

Singles' Day rang up an eye-popping \$17.8 billion in sales

82% of 11.11 sales were mobile

27% of purchases were from international brands or merchants

75% of those on the Tmall app are under 35

