What Does the Future Hold for Traffic Jams Around Retail Centers?

Session 500

Will Retail Shopping on the Internet Change Travel Behavior?

Observations from John Niles Global Telematics Seattle, Washington USA January 13, 2009

Outline

- How strong will shopping web sites become?
- How large will E-shopping become?
- How will place-based retailers fight back?
- Does E-shopping really help the environment?
- The promise of growing travel efficiency

(Reg. Plus, Slim, Big & Fall, etc.)

Specific Size

V Recordingwidelt

Sleeve Length

V Show All

Fabric

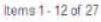
V Show All

Style

V Show All

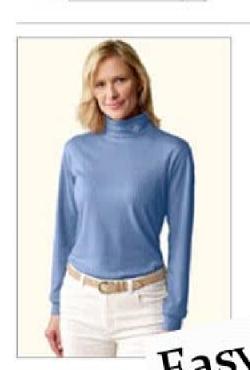
Women's Turtlenecks in Sale

Sort By: V



12 per page











Women's Cotton Seamless Neck Turtleneck

\$15.00-\$20.00

Buy 3 or more select tees. polos, turtlenecks or mocks save \$2.50 each!



Women's Cotton Mock Turtleneck

\$15.00-\$20.00

Buy 3 or more selecttees, polos, turtlenecks or mocks eave \$250 each!



Women's High Mock Cashmere Sweater



Women's Turtlenecks in Sale

Sort By: | V | Items 1 - 12 of 27 | 12 per page | V | 1 | 2 | 3 | NH







This is Land's End site







Women's High Mock Cashmere Sweater

Specific Size

Show All

Sleeve Length

Show All

Fabric

Show All

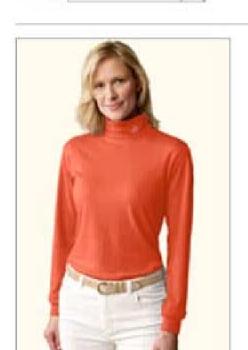
Style

Show All

Women's Turtlenecks in Sale

Sort By:

tems 1 - 12 of 27







12 per page

2 3 H



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Sleeve Length

Show All

Show All

Show All

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V Sort By:

Items 1 - 12 of 27

12 per page







V

Fabric

V

Style

V









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Women's High Mock Cashmere Sweater





Second Life, Census of Users, 12/24/08

Residents Logged-In,

Last 7 Days

517,237

Last 14 Days

682,882

Last 30 Days

975,916

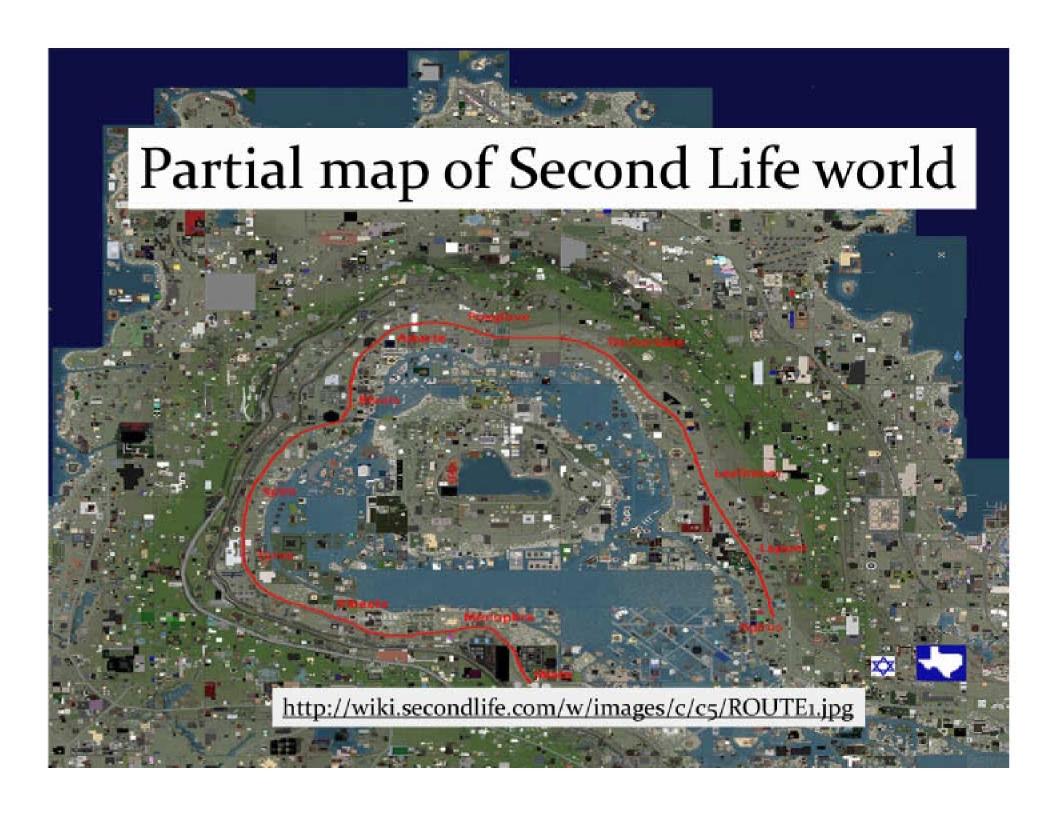
Last 60 Days

1,445,444

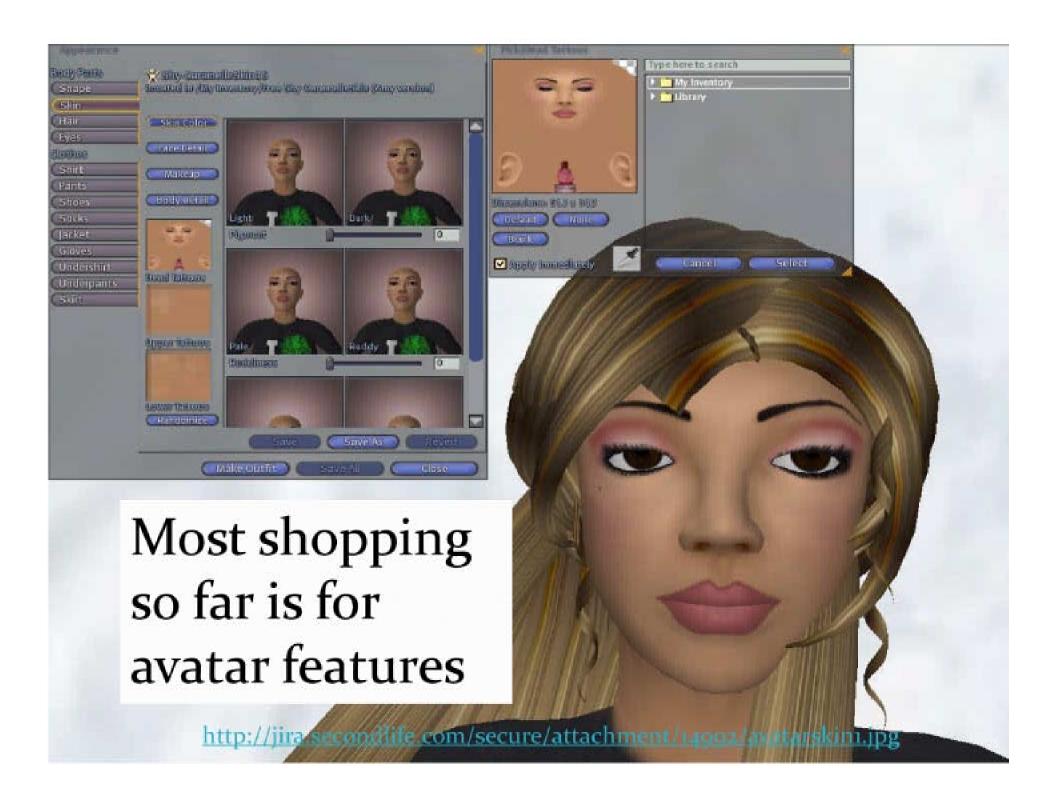
Total Residents

16,753,320

Source Linden Labs, http://secondlife.com/whatis/economy_stats.php







Show All

Women's Turtlenecks in Sale

Sort By: V

Items 1 - 12 of 27

12 per page

1 2 3 HH







Will these models.....



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. . become avatars in Second life?











De soft eveng gown created for comfort

and to impress by Wichelle Warink



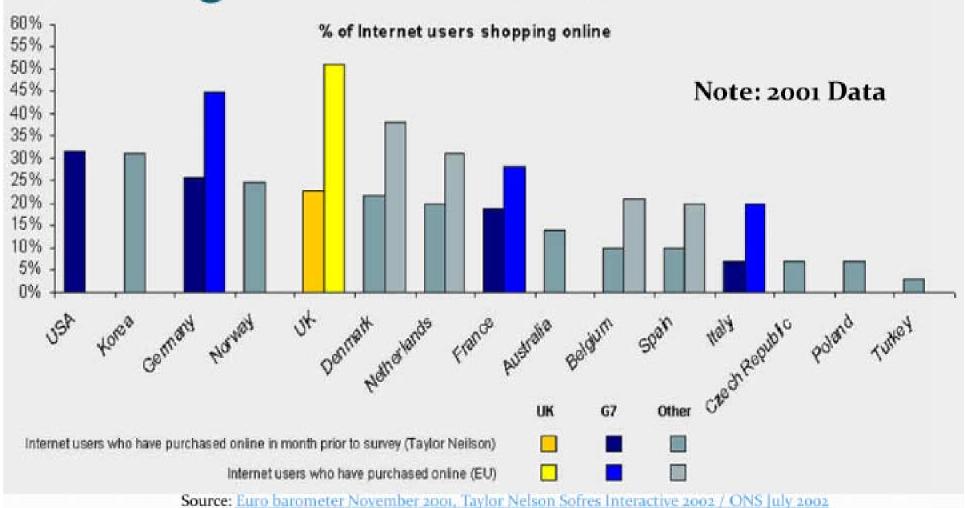


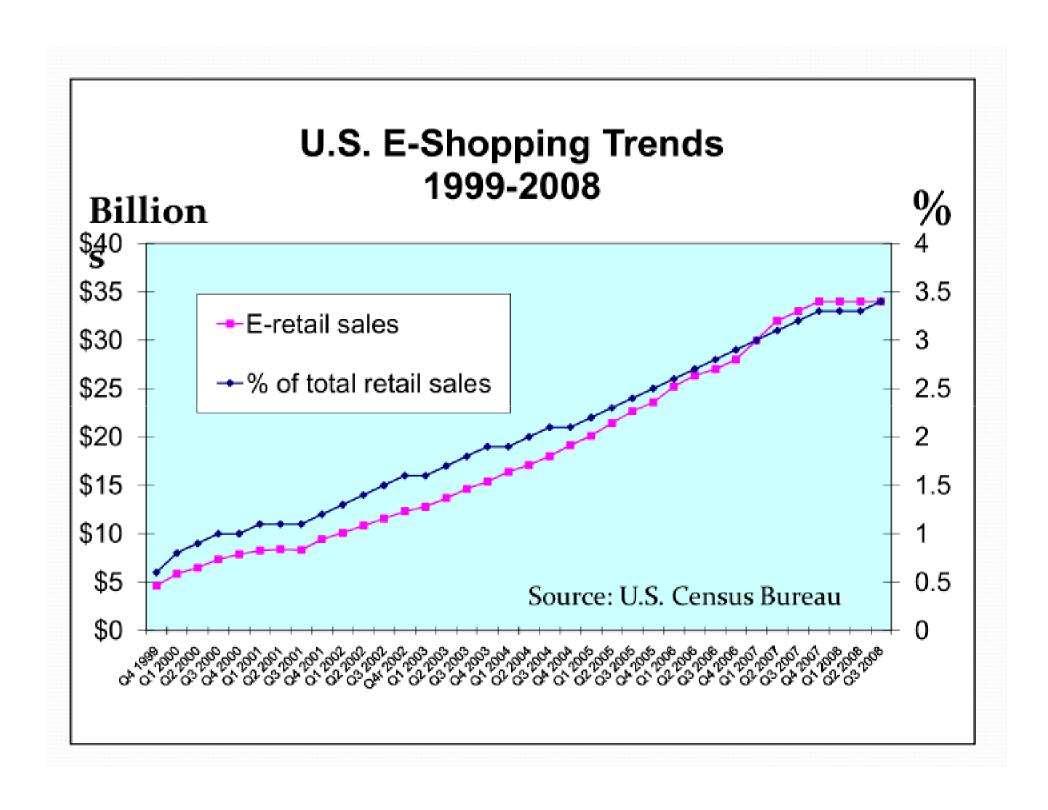
• How strong will shopping web sites become?

• How large will E-shopping become?

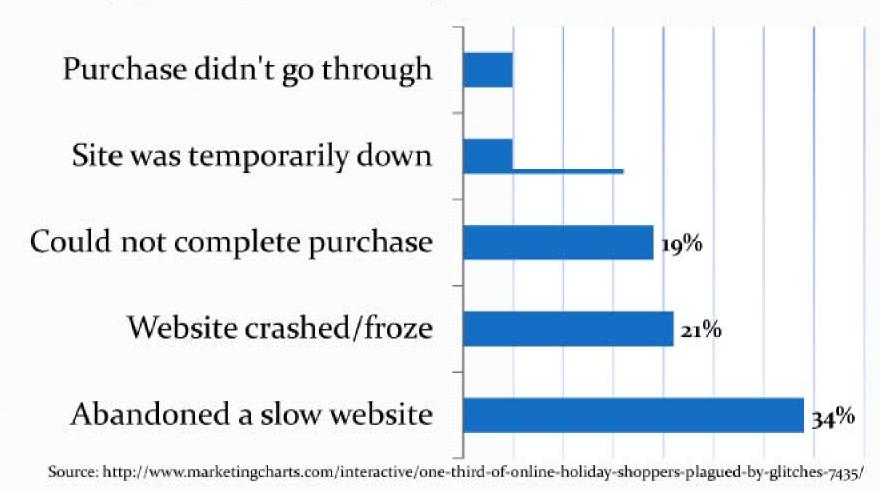
- How will place-based retailers fight back?
- Does E-shopping really help the environment?
- The promise of growing travel efficiency

Large Variations in Online Shopping Among Different Countries

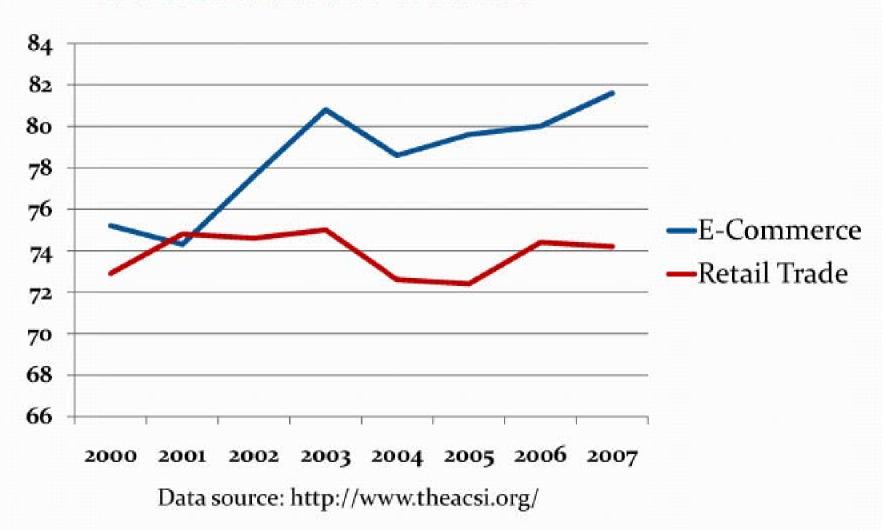




Problems Encountered by Online Shoppers, Holiday Season 2008



American Customer Satisfaction Index



Many E-Shoppers Buy Off-line

Why



Source: Forrester Research: Understanding US Cross-Channel Shoppers

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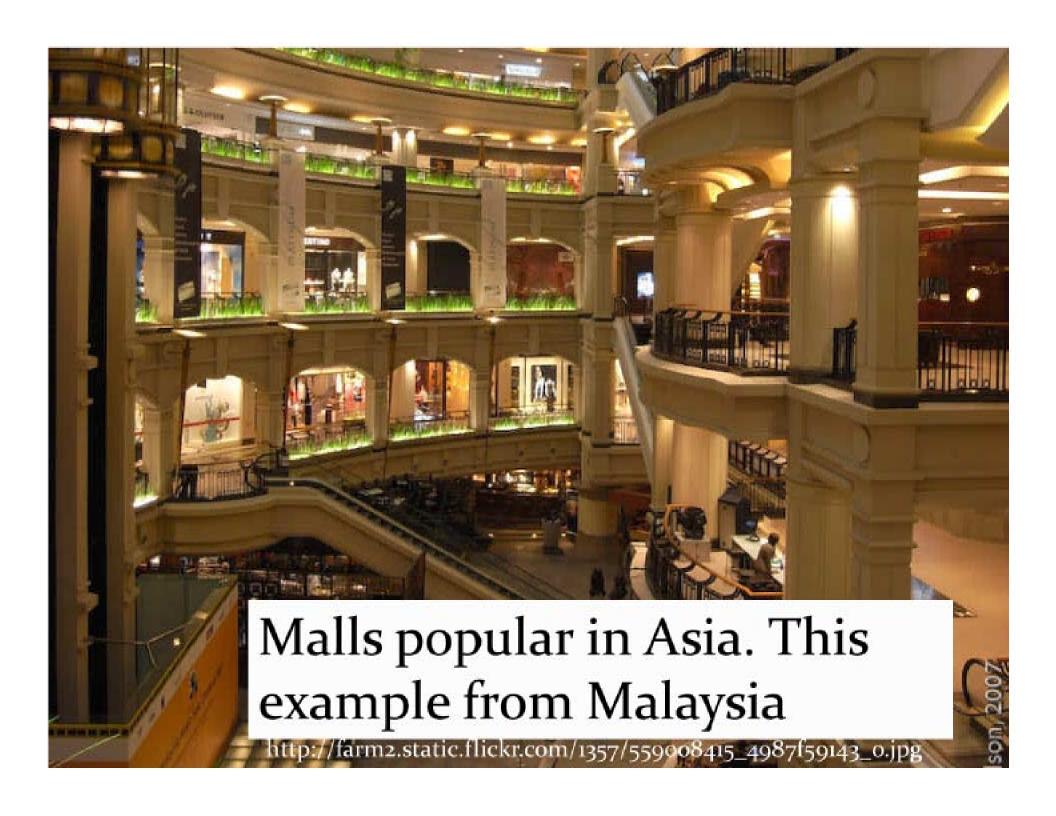


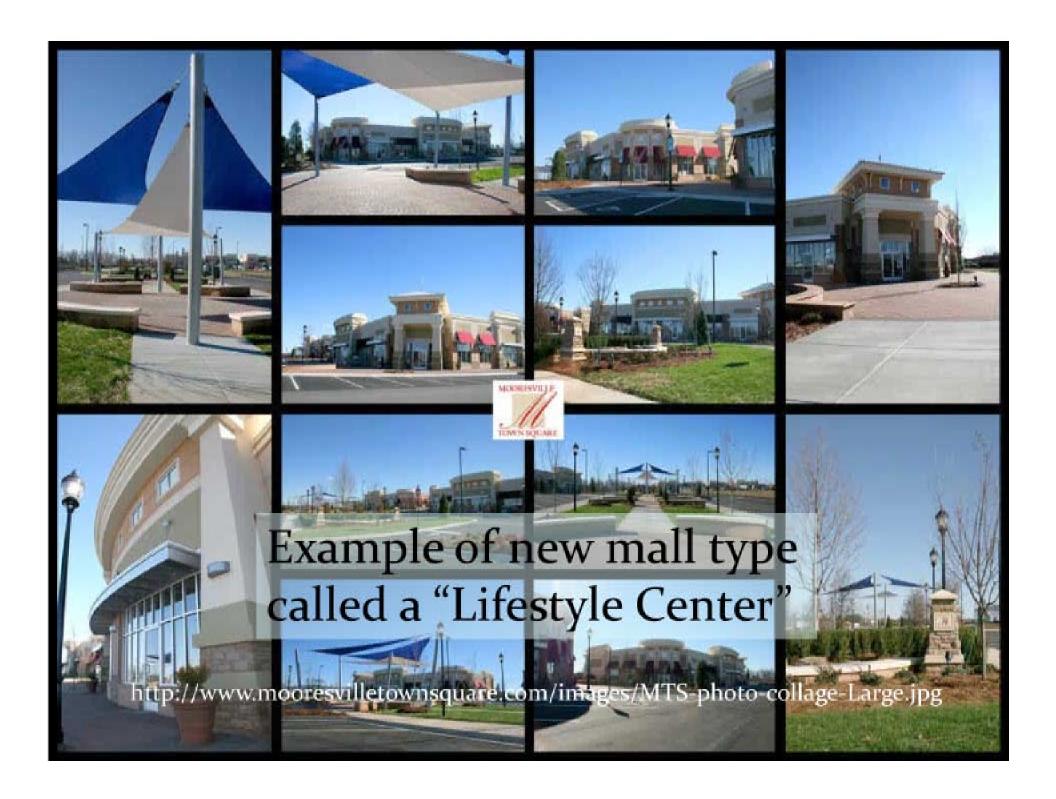
Real life: Mall of America,

not Second Life

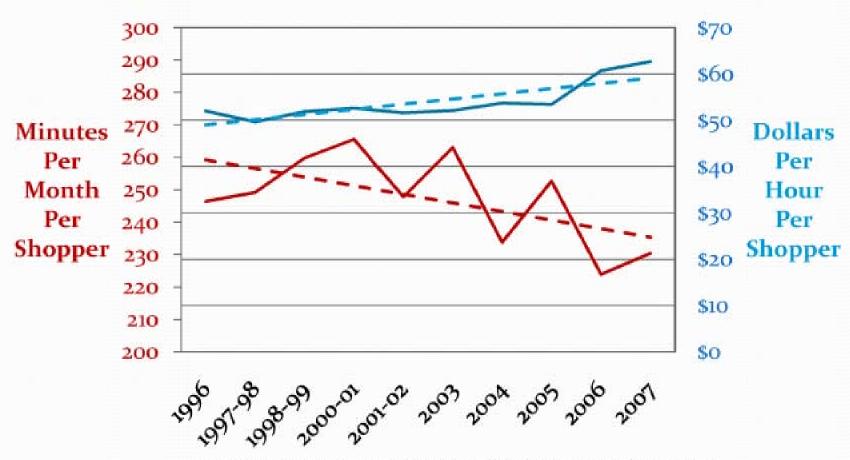








Shopping Center Trends



Source: International Council of Shopping Centers

"Cross-Channel Matrix"

- POS
- Web Store
- Catalog

- Email
- Kiosks
- Self-Checkout
- Mobile Phone
- Call Center
- · IVR

- Online Chat
- Handheld devices
- Mass Media

Customer Interactions

Business Functions

Emp

Employee Interactions

Product Search

Product Data

Recommendations

Product Availability

Price & Promotions

Purchase/Order Placing

Order Tracking

Privacy & Security

Returns

Customer Service Requests

Coupons

Merchandising

eCommerce.

Order Management

Inventory Management

Logistics

CRM/Loyality

Business Intelligence

Product Search

Product Data

Price Lookup

Inventory Lookup

Customer Information

Loyality Data

Order Placing

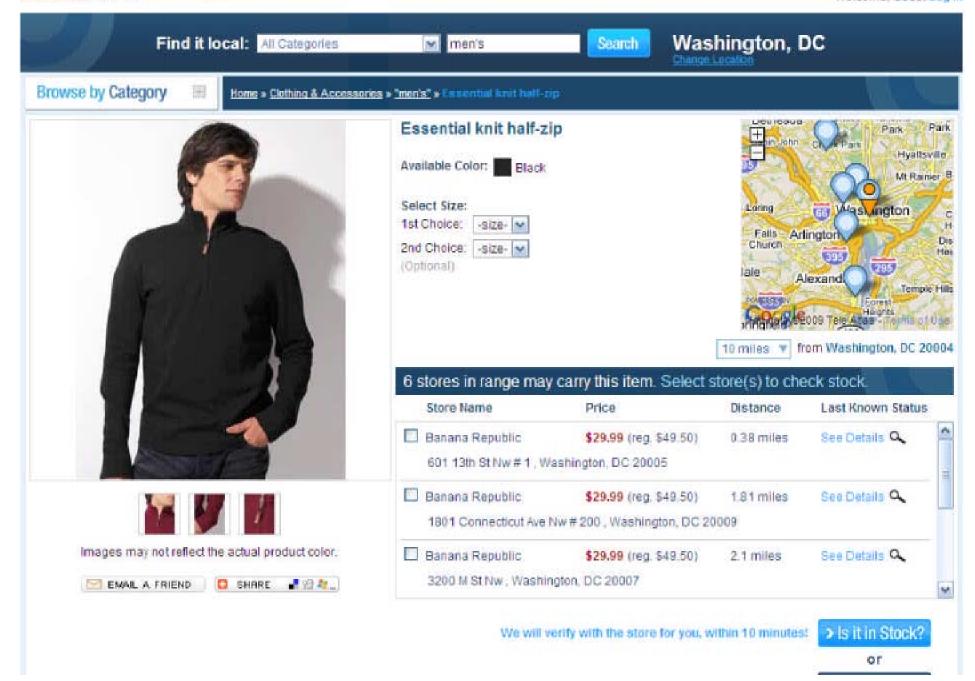
Order Tracking

Returns

Customer Service Requests

Courtesy of HCL, Six Essentials for Cross Channel Success





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Enthusiasts about energy reduction potential from broadband telecommunications are conflicted:

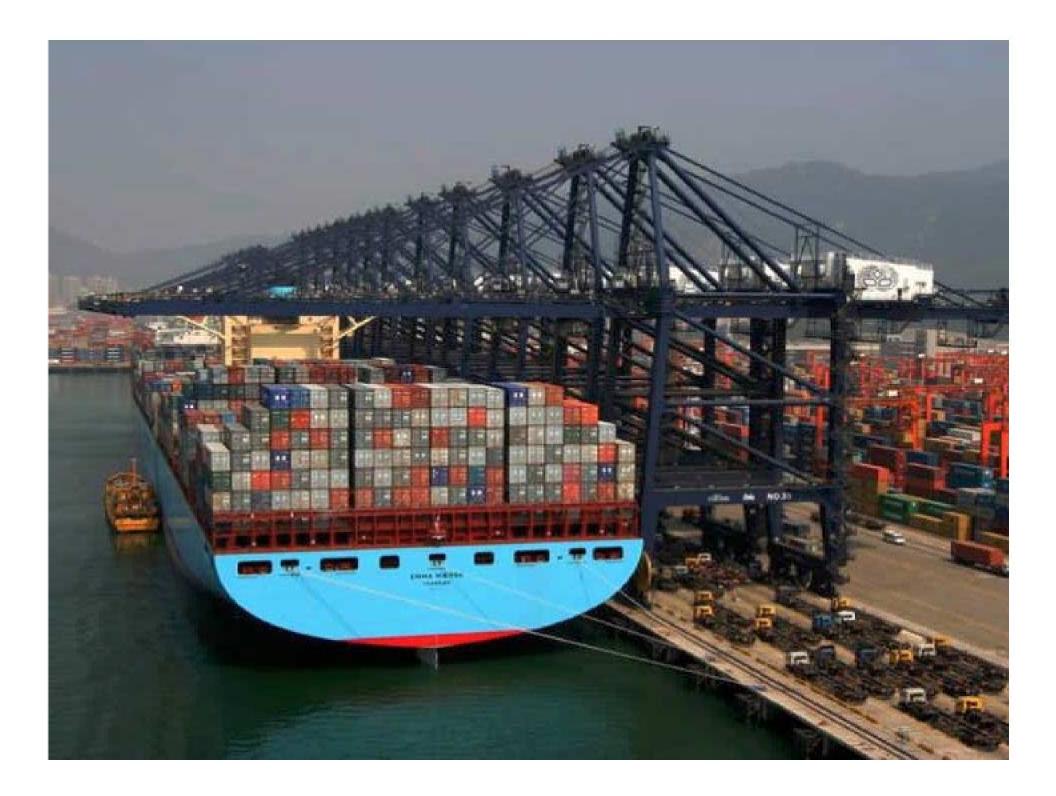
First the good news:

- E-commerce could reduce consumer driving to stores.
- E-commerce boosts digital transmission of video, music, and books/magazines, replacing physical media.

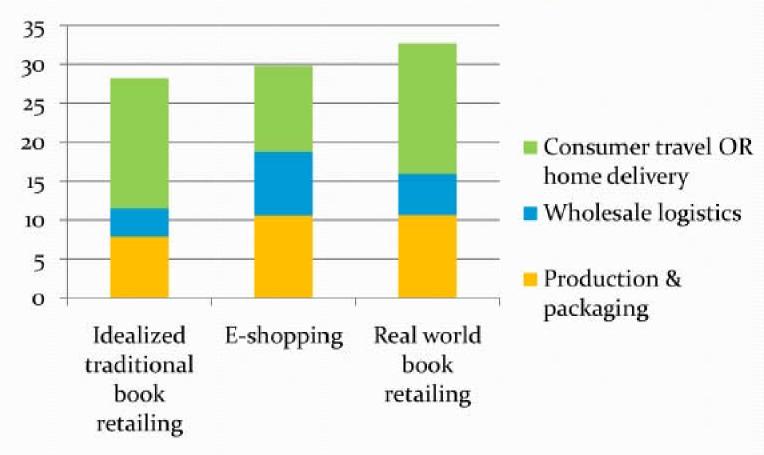
[Joseph Romm, "The Internet and the New Energy Economy," Proceedings of the E-Vision 2000: Key Issues That Will Shape Our Energy Future Conference—Supplementary Materials: Papers and Analyses, Arlington, Virginia: RAND, 2001), p. 137]

But then advocates for broadband telecommunications discover logistics and the world economy





Energy Use Comparison: Bookstores vs E-Shopping



Data source: "Economic and Environmental Implications of Online Retailing in the United States" by H. Scott Matthews; and Chris T. Hendrickson

Europeans Focus on Last Mile Package Delivery

Pick-up point lockerpoint Delivery on Time slot Non-timed (unattended) appointment delivery delivery





Figure 16: DHL Packing station

Source: Bestufs.Net, "Best Urban Freight solutions" Best Practice Update, 2008

E-Shopping Package Pickup at **Transportation Hubs**

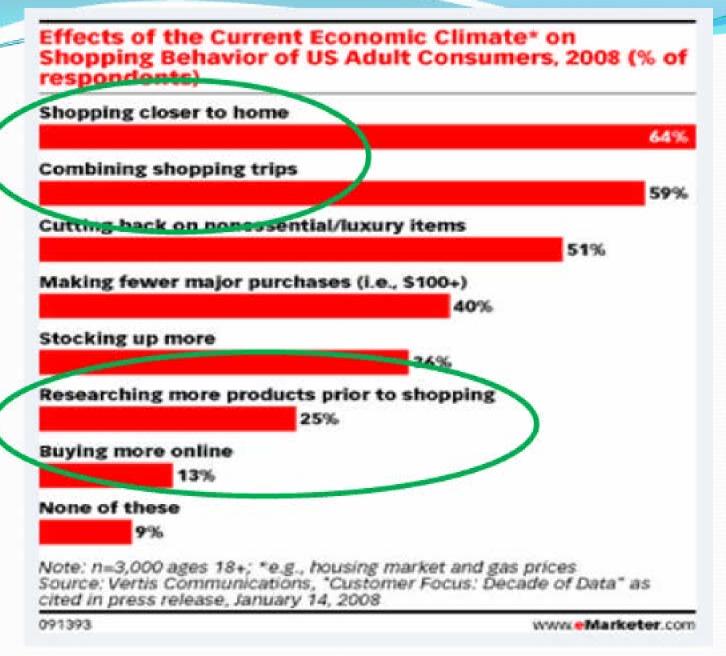


60:2005. J. Croig Things. Commissioned by Cascallo Cores.

- Play is Hybrid Eleveric Vehicle State
- Valor Conferencing and Telescott Corner
- · Tapital Ratel Venders

Advance Airport Check-in Service.

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http://www.avactis.com/forums/index.php?showtopic=3494

Online & Mobile Services Support More Efficient Consumer Travel

E-shopping supports Know Before You Go!

- Finding the product closer to home.
- Making multiple purchases in the same location.
- Checking what you want is in stock before going.
- Ordering special requests in advance for pickup.
- Walk/bike/transit/ridesharing to the store increase the importance of advance information

Thank You Very Much!

John Niles jniles@alum.mit.edu 1-206-781-4475