

Re-Ordering the Need for Retail Real Estate

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How Do We Solve for Retail?



"The emerging future cannot be predicted, but it can be rehearsed at some level if we can envision convergence, implications, accelerants and obstacles"

Gerd Leonhard

Disruptive and Enabling Technologies in CRE





Disruptive -

Creates a new market and value network, often up-ending market leaders.

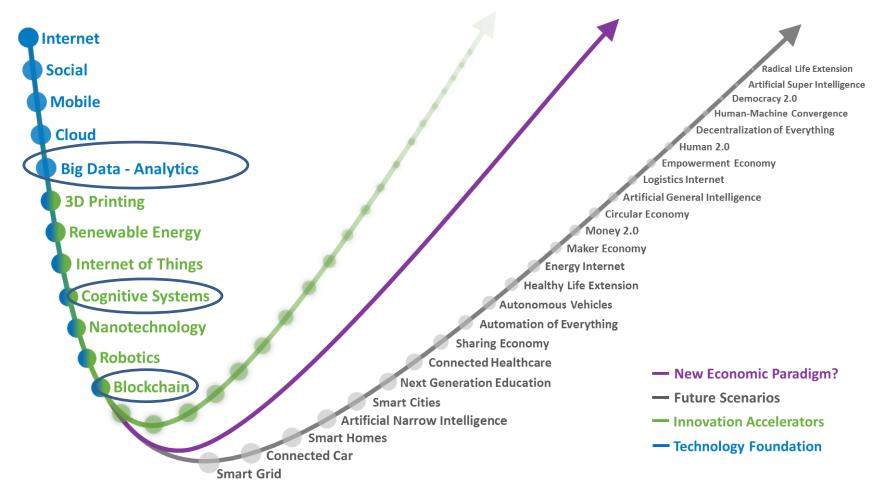


Enabling –

Helps existing companies adapt to change, focused on sustaining innovation to drive profitability.

Disruptive Technologies

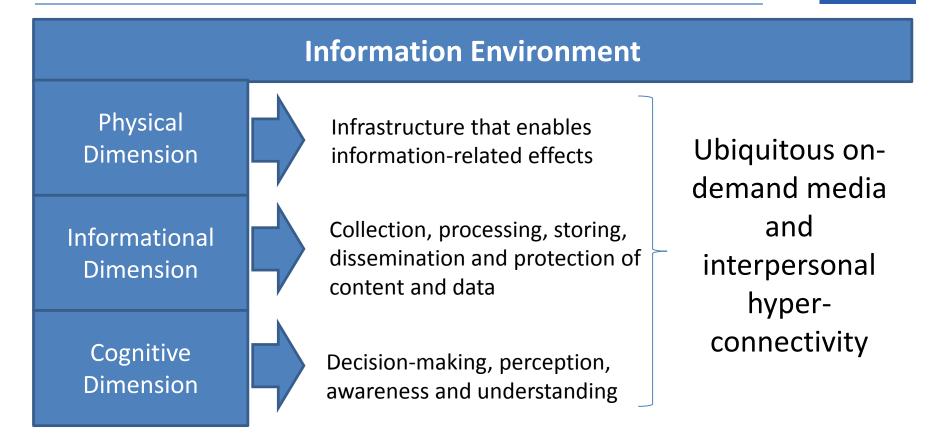




Source: Future Thinking Canvas Frank Diana

Enabling Technologies: Information Environment





Convergence across the information environment.

Source: Dictionary of Military and Associated terms US DOD 2005

Technology Impact on Real Estate





Increase the available data and insights

 During Hurricane Harvey Snapchat's map was one of the best ways to understand what was happening during the disaster.



Augment and change the workflow

- **Bin-e**, a startup from Poland, applies artificial intelligence for office trash collection so you'll never again have to sort trash
- GeoPhy has developed an AVM for the commercial real estate market which uses actual transactions, enriched by hyperlocal information on amenities, demographics and economics



Reorder the need for CRE

 Bank of America has closed over 1,600 branches since the financial crisis with most financial transactions now online



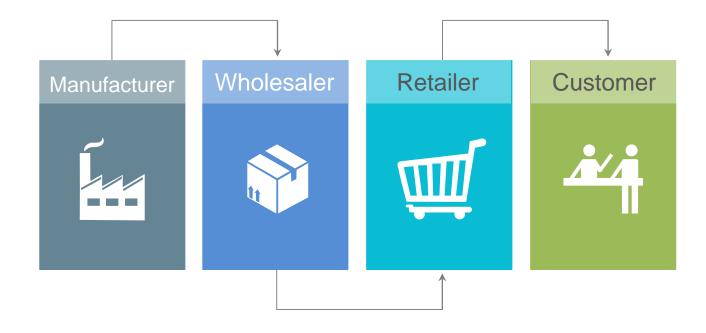




In 2016 Amazon accounted for 43% of all US online retail sales...







Walmart Disruption





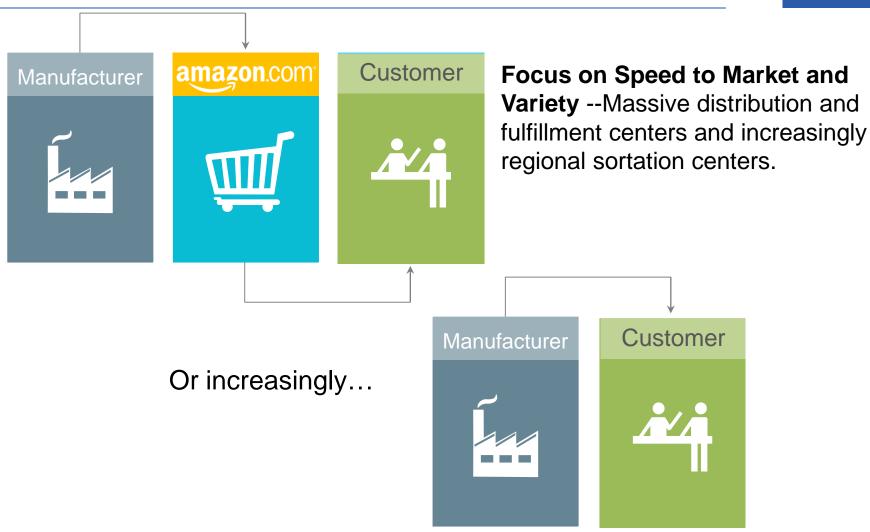
Walmart began working directly with manufacturers to cut costs and more efficiently manage the supply chain.

Under a Walmart's supply chain initiative called *Vendor Managed Inventory (VMI)*, manufacturers became responsible for managing their products in Walmart's warehouses. As a result, Walmart was able to expect close to 100% order fulfilment on merchandise.

Source: Case Study Walmart, Tradegecko

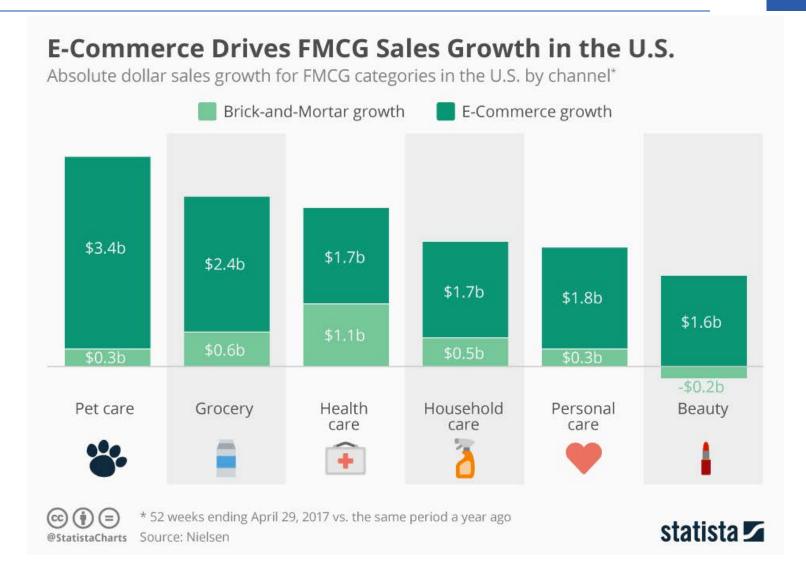
E-commerce Disruption





Trepp®

The Retail Story: Fast-Moving Consumer Goods

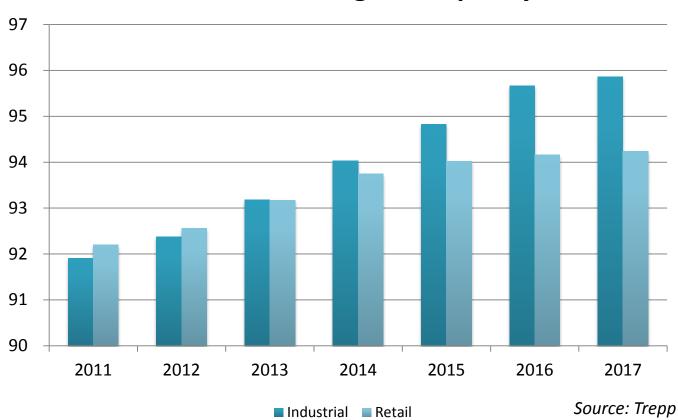






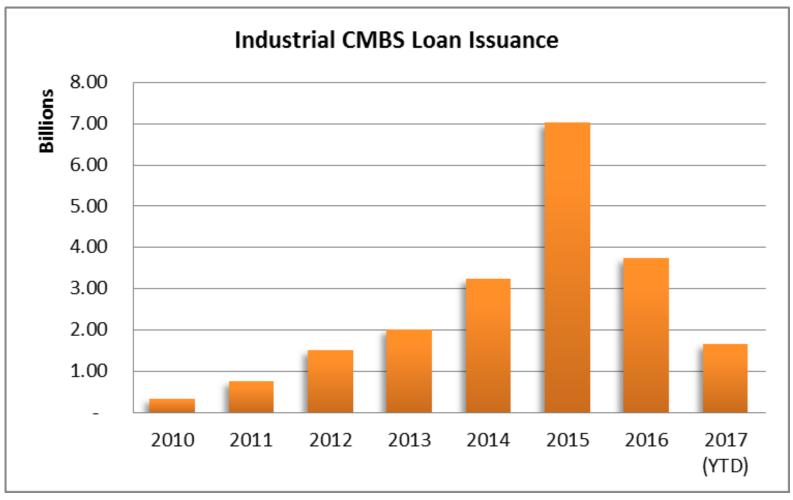
Increased need for warehouses and distribution centers

Historical Average Occupancy









Trepp®

Changing Nature of Brick and Mortar



General Merchandise & Department Stores
Limited runs of designs



Town Centers



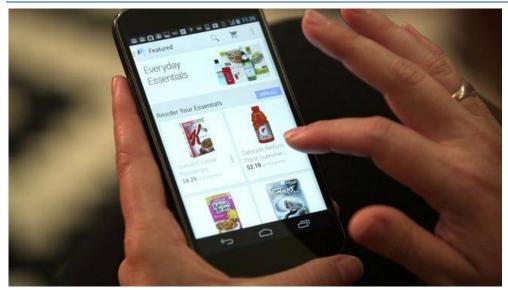
Urban Storefronts
Lists spaces for pop-ups



Specialty Retailers
Rent floor space to other brands

Changing Nature of Brick and Mortar





Grocery

Grocery disruptors and the rise of food delivery service apps

















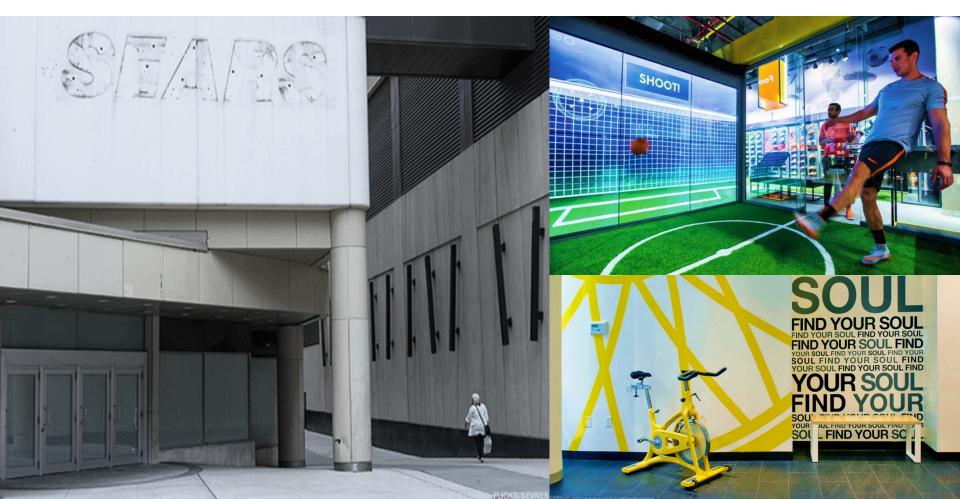




Changing Nature of Brick and Mortar

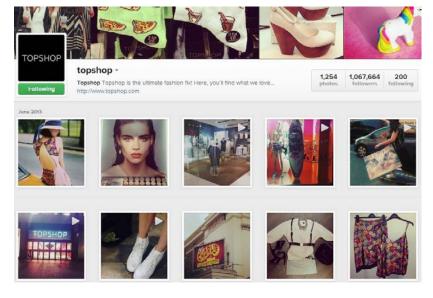


Older malls struggle, modern specialty retailers thrive



Social Media Impact on Retail





Apparel brands that can mass produce at a fast pace are thriving

- Snapchat and Instagram create demand for new styles at a faster pace. H&M, Zara, Topshop have high-speed production times to meet demand
- Traditional brands (BCBG, Abercrombie, the Gap, Aeropostale) have slower production time, higher prices

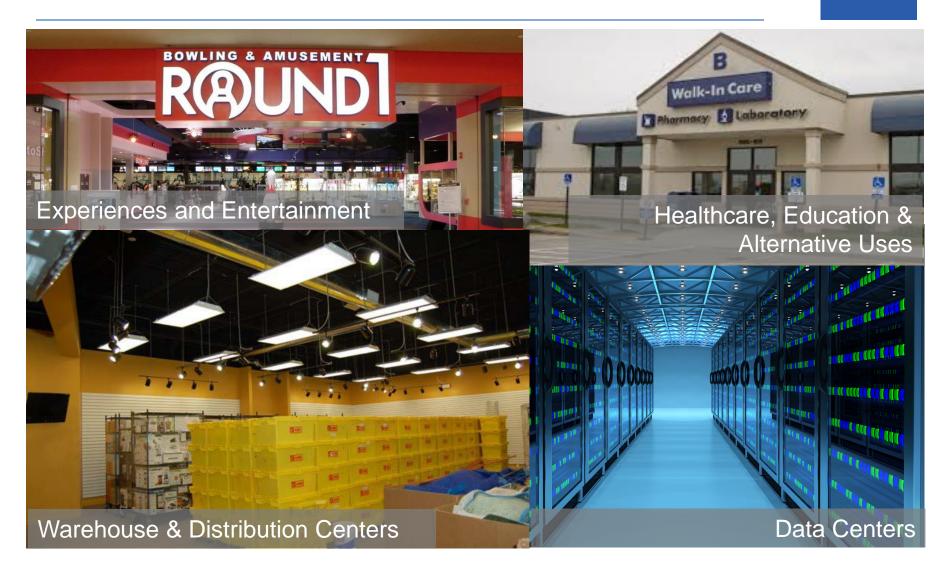
Experiential and digital innovation

- Millennials spend time and money at "photogenic" places – innovative specialty stores, fitness retailers, restaurants, bars and entertainment
- Department stores and oversupply of malls fail to deliver this experiential aspect











Disruptive Technologies in the Built Environment





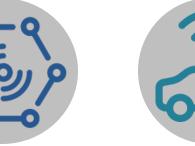
Sensors and

connected by

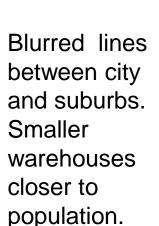
info systems.

networks to

actuators



Autonomous Vehicles





Green Buildings

Investors consider sustainability as a value to real estate transactions.

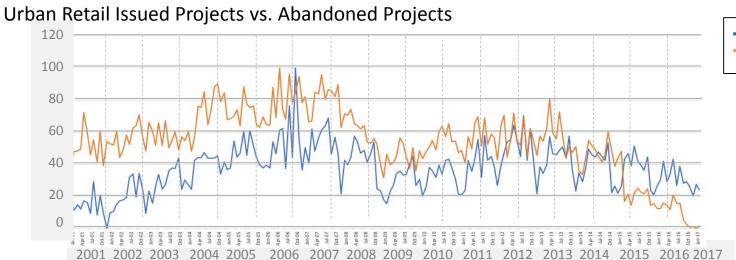


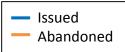
Construction Tech

Industry's slow to evolve nature will need respond to new technologies, workforce demands and rising costs.

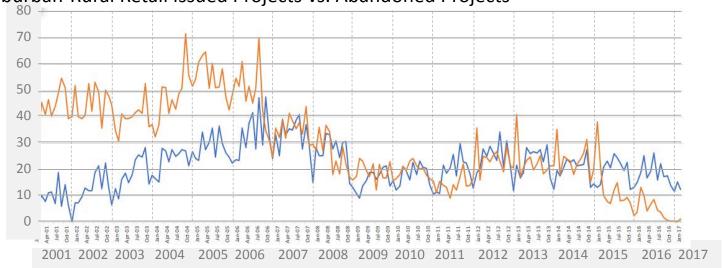


Signals Abound in Many Data Sources





Suburban-Rural Retail Issued Projects vs. Abandoned Projects









		Total Return (%)		
Property Sector	2016	Aug-2017	2017: YTD	
Infrastructure	10.04	7.46	34.07	
Data Centers	26.41	4.08	31.79	
Industrial	30.72	3.63	19.25	
Health Care	6.41	-0.06	9.79	
Residential	4.54	0.02	9.62	
Lodging/Resorts	24.34	-3.3	-2.81	
Self Storage	-8.14	-0.54	-4.88	
Regional Malls (Retail)	-5.2	-2.86	-13.61	
Shopping Centers (Retail)	3.68	-3.14	-14.47	

Focus on the "Last Mile"





- Faster Fulfillment (Same-Day, On-Demand)
- Improved Traceability
- Carrier Becomes Salesman
- Insourcing Delivery
- City Warehouses
- Delivery by drones, auto-drive cars and robots

Source: SupplyChain Dive

In Conclusion



How can we be more predictive about retail?

"...envision convergence, implications, accelerants and obstacles..."