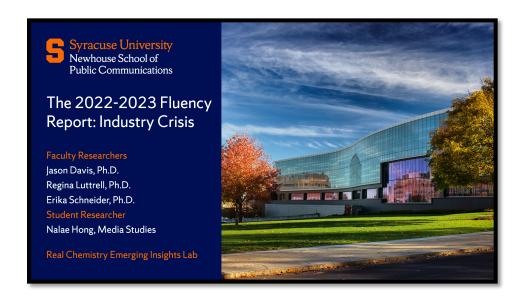
Slide 1: The 2022-2023 Fluency Report: Industry Crisis



Slide 1: The 2022-2023 Fluency Report: Industry Crisis

Faculty Researchers

- Jason Davis, Ph.D.
- Regina Luttrell, Ph.D.
- Erika Schneider, Ph.D.

Student Researcher

• Nalae Hong, Media Studies

Real Chemistry Emerging Insights Lab

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Slide 2: Table of Contents

Table of Contents 1. Our approach Research focus Methodology Definition of organizational crisis 2. Summary report 3. Types of crises in 2022 Fortune 100 list of companies 2022 by industry Top 10 industries facing the most crisis Crisis analysis by industry (21 industries) In-depth Crisis Analysis Report: Impact of the Russia-Ukraine War on the Global Crisis Crisis forecast for 2023 Appendix

Slide 2: Table of Contents

- 1. Our Approach
 - Research Focus
 - Methodology
 - Definition of Organizational Crisis
- 2. Summary Report
- 3. Types Of Crises in 2022
- 4. Fortune 100 List of Companies 2022 by Industry
- 5. Top 10 Industries Facing the Most Crisis
- 6. Crisis Analysis by Industry (21 Industries)
- 7. In-Depth Crisis Analysis Report: Impact Of the Russia-Ukraine War On the Global Crisis
- 8. Crisis Forecast for 2023
- 9. Appendix

Slide 3: Our Approach



Slide 3: Our Approach

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Slide 4: Research Focus

Research focus

Our goal was to explore the key crises in 2022 across 21 industries. We used the Fortune 100's list of most prominent US companies to identify the most significant crises for each industry. Although some industries have more companies representing them, we set the scope to Fortune 100 companies that best represent each industry. We conducted an in-depth study on the ripple effect of the Russia-Ukraine war crisis, which is the most noteworthy crisis in 2022, and the impact of this crisis on each industry.

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Slide 4: Research Focus

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Slide 5: Methodology

Methodology

We used Brandwatch, a social media listening platform driven by artificial intelligence, topic analysis to study crisis-related topics at scale. We analyzed the key topics that were most often mentioned in the news media. Our methods include:

- Crisis trend analysis
- Topic analysis
- Topic clustering
- * For detailed methodology, please refer to the appendix.

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- Crisis trend analysis
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For detailed methodology, please refer to the appendix.

Slide 6: Definition of Organizational Crisis

Definition of organizational crisis

The definition of crisis can be interpreted in numerous ways, but in this report, we define it as follows:

 An organizational crisis is unpredictable and involves significant changes to a company's systems or its' parts. It can threaten the organization's existence and goals and negatively impact the relations between stakeholders and the organization. Additionally, during a crisis, companies are usually given little time to make decisions.

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Slide 6: Definition of Organizational Crisis

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Slide 7: Crisis Analysis by Industry



Slide 7: Crisis Analysis by Industry

Photo of the S.I. Newhouse School Of Public Communications at Syracuse University.

Slide 8: Summary

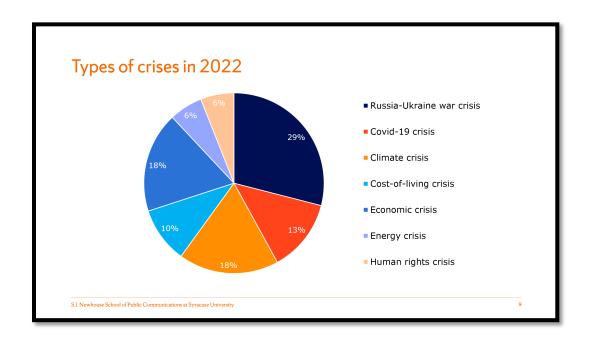
Summary • COVID-19 has had a tremendous impact on our society since the beginning of the pandemic in 2020. Not long after the WHO announced that COVID-19 was nearing an end, our society faced a new type of crisis, the Russia-Ukraine war crisis, which again paralyzed the global economy. Thus, in 2022 and 2023, the Russian-Ukraine war was the primary cause that adversely affected President Joe Biden human rights COVID-19 pandemic the global industry landscape. tan Ukrainian China cost-of-living crisis • International oil market uncertainty has been exacerbated as Russia Moscow Russia Prime Minister has drastically reduced gas supplies and the Russian oil price cap. America National Putin Consequently, inflation, exchange rate fluctuations, and reduced nate crisis North Europe energy economic crisis United States trade volume are creating stagflation. Following the Russia-Ukraine war crisis, disruptions in the global climate change food supply chain and rising energy, grain, and raw material prices are expected to prolong inflationary pressures. Global impacts resulting from a combination of these factors identifies the Russia-Ukraine war as the most significant cause of industry crisis in 2022, with other crises occurring around it.

Slide 8: Summary

- COVID-19 has had a tremendous impact on our society since the beginning of the pandemic in 2020. Not long after the WHO announced that COVID-19 was nearing an end, our society faced a new type of crisis, the Russia-Ukraine war crisis, which again paralyzed the global economy.
 Thus, in 2022 and 2023, the Russian-Ukraine war was the primary cause that adversely affected the global industry landscape.
- International oil market uncertainty has been exacerbated as Russia has drastically reduced gas supplies and the Russian oil price cap. Consequently, inflation, exchange rate fluctuations, and reduced trade volume are creating stagflation.
- Following the Russia-Ukraine war crisis, disruptions in the global food supply chain and rising energy, grain, and raw material prices are expected to prolong inflationary pressures.
- Global impacts resulting from a combination of these factors identifies the Russia-Ukraine war as the most significant cause of industry crisis in 2022, with other crises occurring around it.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Crisis.

Slide 9: Types of Crises in 2022



Slide 9: Types of Crises in 2022

• Russia-Ukraine war crisis: 29%

• COVID-19 crisis: 13%

• Climate crisis: 18%

• Cost-of-living crisis: 10%

Economic crisis: 18%

Energy crisis: 6%

• Human rights crisis: 6%

Pie chart depicting percentages of crises.

Slide 10: Fortune 100 List of Companies 2022 by Industry

	While some industries only include one compa	ny on the list, the Fortune 100 ranks the highest revenue-generating						
		d to provide a representative surrogate for other companies within the						
industries.								
#	Industry	Company						
1	Aerospace and Defense	Boeing, General Dynamics, Lockheed Martin, Raytheon Technologies						
2	Apparel	Nike						
3	Consumer Food Products (Beverages)	Coca-Cola, PepsiCo						
4	Chemicals	Dow						
5	Computer Software and Hardware	Apple, Dell Technologies, HP, Microsoft, Oracle						
6	Construction and Farm Machinery	Caterpillar, Deere						
7	Consumer Credit Card and Related Services	American Express						
8	Diversified Financials	Fannie Mae, Freddie Mac, StoneX Group						
9	Electric and Gas Utilities	Exelon						
10	Entertainment	Comcast, Walt Disney						
11	Food and Drug Stores	Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target Walgreens Boots Alliance, Walmart						
12	Health Care	Centene, Cigna, CVS Health, <u>Elevance</u> Health, HCA Healthcare, Humana, UnitedHealth Group						
13	Industrial Machinery	General Electric						

Slide 10: Fortune 100 List of Companies 2022 by Industry

- While some industries only include one company on the list, the Fortune 100 ranks the highest revenue-generating companies in the United States, and is expected to provide a representative surrogate for other companies within the industries.
- 1. Aerospace and Defense: Boeing, General Dynamics, Lockheed Martin, and Raytheon Technologies
- 2. Apparel: Nike
- 3. Consumer Food Products (beverages): Coca-Cola and PepsiCo
- 4. Chemicals: Dow
- 5. Computer Software and Hardware: Apple, Dell Technologies, HP, Microsoft, and Oracle
- 6. Construction and Farm Machinery: Caterpillar and Deere
- 7. Consumer Credit Card and Related Services: American Express
- 8. Diversified Financials: Fannie Mae, Freddie Mac, and StoneX Group
- 9. Electric and Gas Utilities: Exelon

- 10. Entertainment: Comcast and Walt Disney
- 11. Food and Drug Stores: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, and Walmart
- 12. Health Care: Centene, Cigna, CVS Health, Elevance Health, HCA Healthcare, Humana, and UnitedHealth Group
- 13. Industrial Machinery: General Electric

Slide 11: Fortune 100 List of Companies 2022 by Industry (continued)

14	Insurance	Allstate, American International Group, Berkshire Hathaway, Liberty Mutual Insurance Group, Massachusetts Mutual Life Insurance, MetLife, Nationwide, New York Life Insurance, Northwestern Mutual, Progressive, Prudential Financial, State Farm Insurance, TIAA, USAA			
15	Internet Services and Retailing	Alphabet, Amazon.com, Meta Platforms			
16	Mail, Package, and Freight Delivery	United Parcel Service, FedEx			
17	Megabanks	Bank of America, Citigroup, Goldman Sachs Group, JPMorgan Chase, Morgan Stanley, Wells Fargo			
18	Motor Vehicles	Ford Motor, General Motors, Tesla			
19	Petroleum Refining	Chevron, Exxon Mobil, Marathon Petroleum, Phillips 66, Valero Energy			
20	Pharmaceuticals	AbbVie, Bristol-Myers Squibb, Johnson & Johnson, Merck, Pfizer			
21	Soaps and Cosmetics	Procter & Gamble			

Slide 11: Fortune 100 List of Companies 2022 by Industry (continued)

- 14. Insurance: Allstate, American International Group, Berkshire Hathaway, Liberty Mutual Insurance Group, Massachusetts Mutual Life Insurance, MetLife, Nationwide, New York Life Insurance, Northwestern Mutual, Progressive, Prudential Financial, State Farm Insurance, TIAA, and USAA
- 15. Internet Services and Retailing: Alphabet, Amazon.com, and Meta Platforms
- 16. Mail, Package, and Freight Delivery: United Parcel Service and FedEx
- 17. Megabanks: Bank of America, Citigroup, Goldman Sachs Group, JPMorgan Chase, Morgan Stanley, and Wells Fargo
- 18. Motor Vehicles: Ford Motor, General Motors, and Tesla
- 19. Petroleum Refining: Chevron, Exxon Mobil, Marathon Petroleum, Phillips 66, and Valero Energy
- 20. Pharmaceuticals: AbbVie, Bristol-Myers Squibb, Johnson & Johnson, Merck, and Pfizer
- 21. Soaps and Cosmetics: Procter & Gamble

Slide 12: Top 10 Industries Facing the Most Crisis

Top 10 industrie	s facir	ng the	most c	risis				
Industry	Climate crisis	Cost-of- living crisis	COVID-19 crisis	Economic crisis	Energy crisis	Public health crisis	Russia- Ukraine war crisis	Supply chain crisis
Computer Software and Hardware	•	•	•	•	•		•	•
Consumer Food Products (Beverages)	•	•	•	•		•	•	•
Internet Services and Retailing	•	•		•		•	•	•
Food and Drug Stores			•	•	•	•	•	•
Mail, Package, and Freight Delivery			•	•	•	•		•
Soaps and Cosmetics	•	•	•	•				•
Motor Vehicles	•	•	•				•	
Consumer Credit Card and Related Services		•		•			•	
Aerospace and Defense			•				•	
Megabanks				•			•	

Slide 12: Top 10 Industries Facing the Most Crisis

- 1. Computer Software and Hardware: climate crisis, cost-of-living crisis, COVID-19 crisis, economic crisis, energy crisis, Russia-Ukraine war crisis, and supply chain crisis
- 2. Consumer Food Products (beverages): climate crisis, cost-of-living crisis, COVID-19 crisis, economic crisis, public health crisis, Russia-Ukraine war crisis, and supply chain crisis
- 3. Internet Services and Retailing: climate crisis, cost-of-living crisis, economic crisis, public health crisis, Russia-Ukraine war crisis, and supply chain crisis
- 4. Food and Drug Stores: COVID-19 crisis, economic crisis, energy crisis, public health crisis, Russia-Ukraine war crisis, and supply chain crisis
- 5. Mail, Package, and Freight Delivery: COVID-19 crisis, economic crisis, energy crisis, public health crisis, and supply chain crisis
- 6. Soaps and Cosmetics: climate crisis, cost-of-living crisis, COVID-19 crisis, economic crisis, and supply chain crisis
- 7. Motor Vehicles: climate crisis, cost-of-living crisis, COVID-19 crisis, and Russia-Ukraine war crisis

- 8. Consumer Credit Card and Related Services: cost-of-living crisis, economic crisis, and Russia-Ukraine war crisis
- 9. Aerospace and Defense: COVID-19 crisis and Russia-Ukraine war crisis
- 10. Megabanks: economic crisis and Russia-Ukraine war crisis

Slide 13: Aerospace and Defense

1. Aerospace and Defense

- Crisis type: Russia-Ukraine war crisis
- Companies: Boeing, General Dynamics, Lockheed Martin, Raytheon Technologies

Chief Executive
United States Pentagon
America China Airbus
war in Ukraine Buy Aircraft two years
Russian European NATO
Pennis Mullenburg Security
COVID-19 pandemic
analysis period

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Slide 13: Aerospace and Defense

- Crisis type: Russia-Ukraine war crisis
- Companies: Boeing, General Dynamics, Lockheed Martin, and Raytheon Technologies

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Aerospace and Defense.

Slide 14: Aerospace and Defense (continued)

1. Aerospace and Defense

- In preparation for a prolonged conflict against Russia, the Pentagon, and the Ukraine government are urging U.S. aerospace and defense companies to accelerate the production and development of weapons.
- The Pentagon seeks to increase the pace of testing and developing hypersonic weapons as China and Russia have developed hypersonic weapons the US hasn't.
- Russia has deployed its hypersonic Kinzhal missiles in Ukraine, marking perhaps the first deployment of such weapons in war. Furthermore, China test-fired a hypersonic missile in 2021 that flew around the world before hitting its target.
- Source
 - https://www.cnn.com/2022/04/28/investing/defense-stocks-russia-ukraine/index.html
 - https://www.cnn.com/2022/11/20/politics/us-hypersonic-china-russia-competition/index.html

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Slide 14: Aerospace and Defense (continued)

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- Source
 - https://www.cnn.com/2022/04/28/investing/defense-stocks-russia-ukraine/index.html
 - https://www.cnn.com/2022/11/20/politics/us-hypersonic-china-russiacompetition/index.html



Slide 15: Apparel

- Crisis type: Russia-Ukraine war crisis, supply chain crisis, COVID-19 crisis
- Companies: Nike

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Apparel.

Slide 16: Apparel (continued)

2. Apparel

- Lockdowns and strict quarantines have put China's economy into recession and threaten global businesses that rely heavily on Chinese factories and consumers.
- The Russian invasion of Ukraine has increased energy prices and disrupted supply chains.
- Source: https://www.nytimes.com/2022/07/14/business/economy/china-economy-slows.html

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Slide 16: Apparel (continued)

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- Source
 - https://www.nytimes.com/2022/07/14/business/economy/china-economy-slows.html

Slide 17: Consumer Food Products (Beverages)



Slide 17: Consumer Food Products (Beverages)

- Crisis type: Russia-Ukraine war crisis and supply chain
- Companies: Coca-Cola and PepsiCo

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Consumer Food Products (Beverages).

Slide 18: Consumer Food Products (continued)

3. Consumer Food Products (Beverages)

- Coca-Cola and PepsiCo joined the corporate exodus of Russia after Russia invaded Ukraine.
- The Coca-Cola Company announced in a brief statement that it would cease operations in Russia effective from March 2022. Furthermore, starting in September 2022, PepsiCo, which has operated in Russia for more than 60 years, has stopped selling and producing Pepsi-Cola and other global beverage brands in Russia.
- Global beverage companies are facing bottle and can shortages, rising raw material prices, material import delays, shipping and transportation disruptions, and labor challenges.
- Source
 - https://www.npr.org/2022/03/08/1085179372/mcdonalds-russia-companies-ukraine
 - https://www.themoscowtimes.com/2022/09/20/pepsico-ends-production-in-russia-reuters-a78839
 - https://www.washingtonpost.com/business/2021/12/08/beverage-supply-chain-shortages/

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Slide 18: Consumer Food Products (continued)

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- Source
 - https://www.npr.org/2022/03/08/1085179372/mcdonalds-russia-companies-ukraine
 - https://www.themoscowtimes.com/2022/09/20/pepsico-ends-production-in-russia-reutersa78839
 - https://www.washingtonpost.com/business/2021/12/08/beverage-supply-chain-shortages/

Slide 19: Chemicals

4. Chemicals • Crisis type: COVID-19 crisis, supply chain crisis • Companies: Dow Chemicals projected to value USD million pardemic is impacting USD million by 2028 COVID-19 crisis Rest million by 2028 COVID-19 crisis Rest million by 2028 with a CAGR segment is altered COVID-19 pandemic femin of two crisis analysis period Market Analysis growing at a revised % CAGR review period Middle East and Africa heath crisis covid-19 impact of COVID-19 forecast period 2022-2028 global market in 2021 affecting the supply chain estimated to be worth USD

Slide 19: Chemicals

- Crisis type: COVID-19 crisis and supply chain crisis
- Companies: Dow Chemicals

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Chemicals.

Slide 20: Chemicals (continued)

4. Chemicals

- The negative economic impact of China's stringent zero-Covid policy has slashed chemical prices and demand.
- With China's increasing self-sufficiency in many key chemical products, much of China's demand will be met by local production.
- Source: https://www.icis.com/asian-chemical-connections/2022/07/chemicals-companies-face-an-unprecedented-demand-and-supply-crisis/

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Slide 20: Chemicals (continued)

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- With China's increasing self-sufficiency in many key chemical products, much of China's demand will be met by local production.
- Source
 - https://www.icis.com/asian-chemical-connections/2022/07/chemicals-companies-face-an-unprecedented-demand-and-supply-crisis/

Slide 21: Computer Software and Hardware



Slide 21: Computer Software and Hardware

- Crisis type: supply chain crisis and Russia-Ukraine war crisis
- Companies: Apple, Dell Technologies, HP, Microsoft, and Oracle

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Computer Software and Hardware.

Slide 22: Computer Software and Hardware (continued)

5. Computer Software and Hardware

- The global pandemic has created supply chain bottlenecks that have led to semiconductor shortages. Chip prices have risen, which has increased the cost of electronic devices.
- Russian invasion has ramifications for China and Taiwan
 - China and Russia have shaken hands on an "unlimited" aid agreement that will
 pave the way for Russia's invasion of Ukraine. The fear is that the alliance could
 pave the way for Chinese reunification with Taiwan.
 - Taiwanese semiconductors account for 51% of the global chip market, producing the most chips in the world.

Source

- https://www.newyorker.com/magazine/2022/11/21/a-dangerous-game-over-taiwan
- https://za.investing.com/analysis/chip-supply-turmoil-builds-on-geopolitics-but-us-producers-could-benefit-200507742

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Slide 22: Computer Software and Hardware (continued)

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- Source
 - https://www.newyorker.com/magazine/2022/11/21/a-dangerous-game-over-taiwan
 - https://za.investing.com/analysis/chip-supply-turmoil-builds-on-geopolitics-but-usproducers-could-benefit-200507742

Slide 23: Construction and Farm Machinery



Slide 23: Construction and Farm Machinery

- Crisis type: Russia-Ukraine war crisis
- Companies: Caterpillar and Deere

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Construction and Farm Machinery.

Slide 24: Construction and Farm Machinery (continued)

6. Construction and Farm Machinery

- Following Russia's invasion of Ukraine, manufacturing operations in Russia facilities were suspended.
- Operations in Russia have become increasingly challenging due to supply chain disruptions and sanctions.
- Source: https://illinoisnewsroom.org/caterpillar-suspends-russian-manufacturing-operations-amid-deepening-scrutiny/

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Slide 24: Construction and Farm Machinery (continued)

- Following Russia's invasion of Ukraine, manufacturing operations in Russia facilities were suspended.
- Operations in Russia have become increasingly challenging due to supply chain disruptions and sanctions.
- Source
 - https://illinoisnewsroom.org/caterpillar-suspends-russian-manufacturing-operations-amiddeepening-scrutiny/

Slide 25: Consumer Credit Card and Related Services



Slide 25: Consumer Credit Card and Related Services

- Crisis type: Russia-Ukraine war crisis
- Companies: American Express

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Consumer Credit Card and Related Services.

Slide 26: Consumer Credit Card and Related Services (continued)

7. Consumer Credit Card and Related Services

- Global credit card companies have shut down operations in Russia after Russia invaded Ukraine to deal the latest blow to the Russian financial system.
- Russia accounted for about 4% of global credit card companies' net revenue in 2021.
- Source: https://www.cbsnews.com/news/visa-mastercard-russia-ukraine-invasion/

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Slide 26: Consumer Credit Card and Related Services (continued)

- Global credit card companies have shut down operations in Russia after Russia invaded Ukraine to deal the latest blow to the Russian financial system.
- Russia accounted for about 4% of global credit card companies' net revenue in 2021.
- Source
 - https://www.cbsnews.com/news/visa-mastercard-russia-ukraine-invasion/

Slide 27: Diversified Financials



Slide 27: Diversified Financials

- Crisis type: economic crisis
- Companies: Fannie Mae, Freddie Mac, and StoneX Group

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Diversified Financials.

Slide 28: Diversified Financials (continued)

8. Diversified Financials

- As the Federal Reserve raised interest rates and the shadow of a recession lengthened, concerns about financial vulnerabilities naturally increased.
- As house prices fall and interest rates rise, financing for housing production will be frozen.
- Source
 - $\ https://www.forbes.com/sites/miltonezrati/2022/11/02/more-to-worry-about-in-financial-markets/?sh=bbd0bd871b5f$
 - https://www.theamericanconservative.com/how-to-prevent-a-housing-crisis/

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Slide 28: Diversified Financials (continued)

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- Source
 - https://www.forbes.com/sites/miltonezrati/2022/11/02/more-to-worry-about-in-financial-markets/?sh=bbd0bd871b5f
 - https://www.theamericanconservative.com/how-to-prevent-a-housing-crisis/

Slide 29: Electric and Gas Utilities

9. Electric and Gas Utilities • Crisis type: Climate crisis • Companies: Exelon Nuclear Power Plant market response to the climate crisis utility companies Exelon will continue carbon-free energy STORE Capital Clean energy Constellation Health Crisis separation from Exelon

Slide 29: Electric and Gas Utilities

• Crisis type: climate crisis

• Companies: Exelon

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Electric and Gas Utilities.

Slide 30: Electric and Gas Utilities (continued)

9. Electric and Gas Utilities

- Businesses are investing in the latest sustainable technologies to reduce their impact on communities, especially in resource-poor regions disproportionately affected by climate change.
- Exelon is providing clean energy solutions and technologies to combat climate change, reduce local air pollution, and promote a healthy, sustainable and equitable future.
- Source: https://finance.yahoo.com/news/exelon-releases-2021-corporate-sustainability-180000998.html

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Slide 30: Electric and Gas Utilities (continued)

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- Source
 - https://finance.yahoo.com/news/exelon-releases-2021-corporate-sustainability-180000998.html

Slide 31: Entertainment

10. Entertainment • Crisis type: Russia-Ukraine war crisis • Companies: Comcast, Walt Disney Including the upcoming Turning Red humanitarian crisis in Ukraine Walt Disney Company Biden Warner Bros Brands Pixar United variety evolving situation Studios Europe Paramount Sony Pictures Ukrainian releases in Russia unprovoked invasion of Ukraine continue to monitor the situation

Slide 31: Entertainment

- Crisis type: Russia-Ukraine war crisis
- Companies: Comcast and Walt Disney

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Entertainment.

Slide 32: Entertainment (continued)

10. Entertainment

- Entertainment industries stopped releasing theatrical films in Russia after Russia invaded Ukraine.
- The Walt Disney Company was the first major entertainment company to take a hard line against Russia after the invasion of Ukraine, announcing a suspension of all film debuts in Russia.
- Source: https://www.cnbc.com/2022/02/28/disney-pauses-theatrical-releases-in-russia-condemns-invasion-of-ukraine.html

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Slide 32: Entertainment (continued)

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- Source
 - https://www.cnbc.com/2022/02/28/disney-pauses-theatrical-releases-in-russia-condemns-invasion-of-ukraine.html

11. Food and Drug Stores

- Crisis type: Russia-Ukraine war crisis, supply chain crisis, health crisis
- Companies: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, Walmart

two Ohio counties
financial crisis opiolid epidemic
Americans Attorney General
Lake and Trumbull United States air fryer
15 years New York
Walgreens and Walmart interest rates pharmacy chains Biden
San Francisco COVID-19 pandemic
Walgreens Boots Alliance

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Slide 33: Food and Drug Stores

- Crisis type: Russia-Ukraine war crisis, supply chain crisis, and public health crisis
- Companies: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, and Walmart

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Food and Drug Stores.

Slide 34: Food and Drug Stores (continued)

11. Food and Drug Stores

- Pharmacies and pharmaceutical companies have settled lawsuits over the US opioid crisis.
- Interest rates are being pushed up, which is causing prices to rise. Some commodities are in short supply as supply lines are still blocked.
- Moreover, the supply of goods is not smooth due to the shortage of truck drivers nationwide. Vital material is also being delayed due to the conflict in Ukraine.
- Source
 - https://www.reuters.com/business/healthcare-pharmaceuticals/pharmacies-drug-companies-settle-lawsuits-over-us-opioid-crisis-2022-11-22/
 - https://www.forbes.com/sites/walterloeb/2022/04/24/how-the-supply-chain-crisis-is-being-solved/?sh=64746c0d1db1

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Slide 34: Food and Drug Stores (continued)

- Pharmacies and pharmaceutical companies have settled lawsuits over the US opioid crisis.
- Interest rates are being pushed up, which is causing prices to rise. Some commodities are in short supply as supply lines are still blocked.
- Moreover, the supply of goods is not smooth due to the shortage of truck drivers nationwide. Vital material is also being delayed due to the conflict in Ukraine.
- Source
 - https://www.reuters.com/business/healthcare-pharmaceuticals/pharmacies-drugcompanies-settle-lawsuits-over-us-opioid-crisis-2022-11-22/
 - https://www.forbes.com/sites/walterloeb/2022/04/24/how-the-supply-chain-crisis-is-being-solved/?sh=64746c0d1db1

Slide 35: Health Care

12. Health Care

- Crisis type: Public health crisis, COVID-19 crisis
- Companies: Centene, Cigna, CVS Health, Elevance Health, HCA Healthcare, Humana, UnitedHealth Group

communities across the country doctors and companies took steps past two decades overdose epidemic Attorney General UnitedHealth Group California opioid deaths have soared New York agreed to pay Aedra Settlements COVID-19 pandemic Pharmacy Chains CVS Health Corp Native American prescription drugs two largest CVS works and local governments OxyContin and generic oxycodone

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Slide 35: Health Care

- Crisis type: public health crisis and COVID-19 crisis
- Companies: Centene, Cigna, CVS Health, Elevance Health, HCA Healthcare, Humana, and UnitedHealth Group

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Health Care.

Slide 36: Health Care (continued)

12. Health Care

- Rates of mental and behavioral health problems have increased extensively among women and children nationwide in recent years.
- The first year of the COVID-19 pandemic exacerbated several socioeconomic and environmental conditions that shape health.
 Women experienced record-high unemployment rates, and health indicators related to children's neighborhoods and home environments declined.
- Source: https://www.americashealthrankings.org/learn/reports/2022-health-of-women-and-childrenreport?utm_source=newsroom&utm_medium=uhg&utm_campaign=hwc2022&utm_content=inline_one&utm_term=news

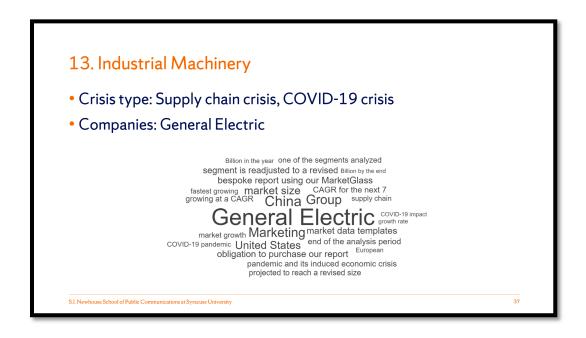
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Slide 36: Health Care (continued)

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- The first year of the COVID-19 pandemic exacerbated several socioeconomic and environmental conditions that shape health. Women experienced record-high unemployment rates, and health indicators related to children's neighborhoods and home environments declined.
- Source
 - https://www.americashealthrankings.org/learn/reports/2022-health-of-women-and-children
 - report?utm_source=newsroom&utm_medium=uhg&utm_campaign=hwc2022&utm_content=in-line one&utm term=news

Slide 37: Industrial Machinery



Slide 37: Industrial Machinery

- Crisis type: supply chain crisis and COVID-19 crisis
- Companies: General Electric

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Industrial Machinery.

Slide 38: Industrial Machinery (continued)

13. Industrial Machinery

- Logistics disruptions and supply chain crises have slowed delivery and increased transportation costs.
- The aftermath of the COVID-19 pandemic and associated inflation has created supply chain bottlenecks, making it more difficult to deliver products on time to its end customers.
- Source: https://www.wsj.com/articles/ge-names-board-for-ge-healthcare-spinoff-11662983653

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Slide 38: Industrial Machinery (continued)

- Logistics disruptions and supply chain crises have slowed delivery and increased transportation costs.
- The aftermath of the COVID-19 pandemic and associated inflation has created supply chain bottlenecks, making it more difficult to deliver products on time to its end customers.
- Source
 - https://www.wsj.com/articles/ge-names-board-for-ge-healthcare-spinoff-11662983653

Slide 39: Insurance

14. Insurance

- Crisis type: Economic crisis
- Companies: Allstate, American International Group, Berkshire Hathaway, Liberty Mutual Insurance Group, Massachusetts Mutual Life Insurance, MetLife, Nationwide, New York Life Insurance, Northwestern Mutual, Progressive, Prudential Financial, State Farm Insurance, TIAA, USAA

offers insurance products for commercial Insurance segment provides general liability property insurance
Daily - Enter your email address two years Warren Buffett Wells Fargo Reading President Chief research report Ratings Buy New York General Issurance China Berkshire Hathaway COVID-19 pandemic United States atock market American International Group customers in North America and internationally crisis management insurance products

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Slide 39: Insurance

- Crisis type: economic crisis
- Companies: Allstate, American International Group, Berkshire Hathaway, Liberty Mutual Insurance Group, Massachusetts Mutual Life Insurance, MetLife, Nationwide, New York Life Insurance, Northwestern Mutual, Progressive, Prudential Financial, State Farm Insurance, TIAA, and USAA

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Insurance.

Slide 40: Insurance (continued)

14. Insurance

- Buyers, sellers, and lessees are experiencing more twists and turns as soaring mortgage rates and stubborn inflation signal an economic crisis.
- Mortgage rates are skyrocketing, prices are skyrocketing, and there is no housing inventory.
- Source: https://www.nytimes.com/2022/11/04/realestate/housing-market-interest-rates.html

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Slide 40: Insurance (continued)

- Buyers, sellers, and lessees are experiencing more twists and turns as soaring mortgage rates and stubborn inflation signal an economic crisis.
- Mortgage rates are skyrocketing, prices are skyrocketing, and there is no housing inventory.
- Source
 - https://www.nytimes.com/2022/11/04/realestate/housing-market-interest-rates.html

Slide 41: Internet Services and Retailing

15. Internet Services and Retailing • Crisis type: Russia-Ukraine war crisis, economic crisis, supply chain crisis • Companies: Alphabet, Amazon.com, Meta Platforms Sold by Amazon Nasdaq Alphabet Nasdaq Alphabet Russia Supply chain Russia Supply chain Meta Platforms Facebook Britain Meta Platforms War in Ukraine United CEO air fryer Social media climate change cost of living crisis climate crisis

Slide 41: Internet Services and Retailing

- Crisis type: Russia-Ukraine war crisis, economic crisis, and supply chain crisis
- Companies: Alphabet, Amazon.com, and Meta Platforms

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Internet Services and Retailing.

Slide 42: Internet Services and Retailing (continued)

15. Internet Services and Retailing

- Google (now Alphabet), Apple, Facebook (now Meta), Amazon, and Microsoft—the world's five largest technology companies—have taken steps to impose significant voluntary sanctions on Russia in response to the invasion of Ukraine.
- The tech sector is undergoing massive layoffs as its digital advertising business is experiencing a downturn. Economic conditions are not promising, and a recession looks very likely.
- Source
 - https://theconversation.com/the-power-of-tech-giants-has-made-them-as-influential-as-nations-heres-how-theyre-sanctioning-russia-178424
 - https://www.republicworld.com/technology-news/e-commerce/explainer-why-google-amazon-meta-and-now-hp-are-firing-so-many-of-their-employees-articleshow.html

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Slide 42: Internet Services and Retailing (continued)

- Google (now Alphabet), Apple, Facebook (now Meta), Amazon, and Microsoft— the world's five largest technology companies— have taken steps to impose significant voluntary sanctions on Russia in response to the invasion of Ukraine.
- The tech sector is undergoing massive layoffs as its digital advertising business is experiencing a downturn. Economic conditions are not promising, and a recession looks very likely.
- Source
 - https://theconversation.com/the-power-of-tech-giants-has-made-them-as-influential-as-nations-heres-how-theyre-sanctioning-russia-178424
 - https://www.republicworld.com/technology-news/e-commerce/explainer-why-google-amazon-meta-and-now-hp-are-firing-so-many-of-their-employees-articleshow.html

Slide 43: Mail, Package, and Freight Delivery

16. Mail, Package, and Freight Delivery • Crisis type: COVID-19 crisis, economic crisis • Companies: United Parcel Service, FedEx Veteran employment crisis to a head brought the veteran employment crisis to a head brought the veteran employment crisis to a head brought the veteran employment crisis supply chains Federal Reserve Wall Street European Public Health Great Recession International Los Angeles International Los Angeles Middle East China UPS Tate hikes FedEx Corp New York President Joe Biden COVID-19 pandemic hundreds of thousands of vets

Slide 43: Mail, Package, and Freight Delivery

- Crisis type: COVID-19 crisis and economic crisis
- Companies: United Parcel Service and FedEx

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Mail, Package, and Freight Delivery.

Slide 44: Mail, Package, and Freight Delivery (continued)

16. Mail, Package, and Freight Delivery

- Demand for packages, which skyrocketed when the world was shut down due to COVID-19, is now tumbling.
- The weak global economy, particularly in Asia and Europe, has hit the mail, package, and freight delivery industry.
- The slowdown in the economy resulted in falling short of the 2022 revenue target for the mail, package, and freight delivery industry.
- Source: https://www.cnn.com/2022/09/16/business/fedex-warning/index.html

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Slide 44: Mail, Package, and Freight Delivery (continued)

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- Source
 - https://www.cnn.com/2022/09/16/business/fedex-warning/index.html

Slide 45: Megabanks

17. Megabanks

- Crisis type: Economic crisis, Russia-Ukraine war crisis
- Companies: Bank of America, Citigroup, Goldman Sachs Group, JPMorgan Chase, Morgan Stanley, Wells Fargo

JPMorgan Chase
Chief Executive New York global financial crisis
Wall Street Buy Morgan Stanley
invasion of Ukraine
Russian interest rates Securities
real estate United Risk Read Bloomberg
Treasury Goldman Sachs
Bank of America
Federal Resupposetary policy
propertary policy

JPMorgan Chase
Financial Crisis
Financial Services
Securities
Federal Resupposetary policy

JPMOrgan Chase
Financial crisis
Financial crisi

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Slide 45: Megabanks

- Crisis type: economic crisis and Russia-Ukraine war crisis
- Companies: Bank of America, Citigroup, Goldman Sachs Group, JPMorgan Chase, Morgan Stanley, and Wells Fargo

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Megabanks.

Slide 46: Megabanks (continued)

17. Megabanks

- Global inflation has soared from past monetary surpluses to 40year highs as governments unleash trillions of dollars in additional spending to stoke inflation.
- Banks are tightening lending standards and commercial customers are becoming warier of taking on more debt amid rising interest rates and economic uncertainty.
- Source
 - https://www.barrons.com/articles/banks-fed-recession-51667859496
 - https://www.investing.com/analysis/inflation-wars-wars-and-more-wars-200632580

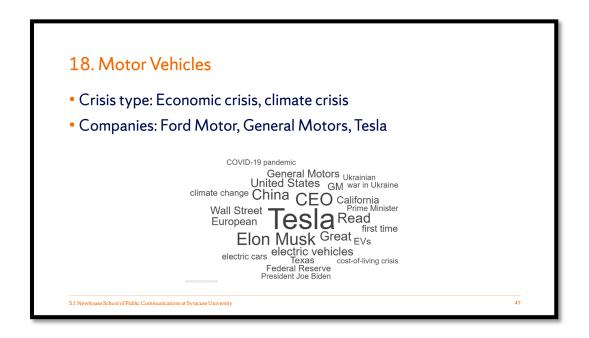
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Slide 46: Megabanks (continued)

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- Source
 - https://www.barrons.com/articles/banks-fed-recession-51667859496
 - https://www.investing.com/analysis/inflation-wars-wars-and-more-wars-200632580

Slide 47: Motor Vehicles



Slide 47: Motor Vehicles

- Crisis type: economic crisis and climate crisis
- Companies: Ford Motor, General Motors, and Tesla

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Motor Vehicles.

Slide 48: Motor Vehicles (continued)

18. Motor Vehicles

- The world's dependence on oil and gas is economically unstable as unpredictable crises become frequent.
- As evidenced by the supply problems caused by the Russia-Ukraine war, the world needs to break away from reliance on fossil fuels.
- Global carbon emissions have continued to rise in 2022 and show no signs of slowing down.
- Meanwhile, electrification is progressing rapidly in the automotive industry.
- $\bullet \ \, \text{Source: https://www.forbes.com/sites/alanohnsman/2022/11/12/biden-at-cop27-a-tesla-bull-goes-bearish-and-carbon-emissions-keep-climbing/?sh=1db5a1b96c2a} \\$

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Slide 48: Motor Vehicles (continued)

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- Source
 - https://www.forbes.com/sites/alanohnsman/2022/11/12/biden-at-cop27-a-tesla-bull-goes-bearish-and-carbon-emissions-keep-climbing/?sh=1db5a1b96c2a

Slide 49: Petroleum Refining

19. Petroleum Refining

- Crisis type: Russia-Ukraine war crisis, energy crisis, climate crisis
- Companies: Chevron, Exxon Mobil, Marathon Petroleum, Phillips 66, Valero Energy

Russia's invasion of Ukraine energy companies war in Ukraine oil prices United States climate crisis crude oil International differ materially oil companies Chevron House energy prices Chevron House Department American natural gas oil company climate change CEO energy sources fossil fuels oil production Biden administration

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Slide 49: Petroleum Refining

- Crisis type: Russia-Ukraine war crisis, energy crisis, and climate crisis
- Companies: Chevron, Exxon Mobil, Marathon Petroleum, Phillips 66, and Valero Energy

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Petroleum Refining.

Slide 50: Petroleum Refining (continued)

19. Petroleum Refining

- The Russia-Ukraine war left fuel in short supply, which led to electricity shortages, causing prices to skyrocket for both. This is in large part the result of a decline in Russian exports of oil, natural gas, and coal, which have been hit hard by Western sanctions and other policy efforts to curb Russian imports that finance Ukraine's atrocities.
- The House Oversight Committee said oil companies had "greenwashed" their public image by continuing to invest in fossil fuels. It said oil companies could ruin global efforts on climate change.
- Source
 - https://time.com/6226587/energy-crisis-next-winter/
 - https://www.nbcnews.com/science/environment/oil-companies-doom-global-efforts-climate-change-house-committee-finds-rcna59443

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Slide 50: Petroleum Refining (continued)

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- Source
 - https://time.com/6226587/energy-crisis-next-winter/
 - https://www.nbcnews.com/science/environment/oil-companies-doom-global-effortsclimate-change-house-committee-finds-rcna59443

Slide 51: Pharmaceuticals

20. Pharmaceuticals • Crisis type: Public health crisis, COVID-19 crisis • Companies: AbbVie, Bristol-Myers Squibb, Johnson & Johnson, Merck, Pfizer Cardinal Health and McKesson state and local governments COVID-19 pandemic CAGR global market market size United States Drugmaker Johnson White House Pfizer Attorney General West Virginia Vice President Bilden FDA health care COVID-19 vaccine forecast period opioid epidemic past two decades Centers for Disease Control and Prevention opioid overdose

Slide 51: Pharmaceuticals

- Crisis type: public health crisis and COVID-19 crisis
- Companies: AbbVie, Bristol-Myers Squibb, Johnson & Johnson, Merck, and Pfizer

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Pharmaceuticals.

Slide 52: Pharmaceuticals (continued)

20. Pharmaceuticals

- The WHO's emergency committee first declared COVID-19 on 30 January 2020. This
 decision has helped accelerate research, funding, and international public health action to
 contain the disease.
- The United Nations agency said that while cases of COVID-19 are declining in some parts
 of the world, countries must remain vigilant and push to vaccinate the most vulnerable
 populations.
- Pharmacies and pharmaceutical companies have settled five years of litigation surrounding the US opioid crisis.
- Source
 - $\ \ https://www.reuters.com/business/healthcare-pharmaceuticals/who-says-COVID-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-19-is-still-global-health-emergency-2022-10-19/2019-is-still-global-health-emergency-2022-10-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19/2019-19$
 - https://news.google.com/articles/CBMihwFodHRwczovL3d3dy5yZXV0ZXJzLmNvbS9idXNpbmVzcy9oZWFsdGhjYXJlLXBoYXJtYWNldXRpY2Fscy9waGFybWFjaWVzLWRydWctY29tcGFuaWVzLXNldHRsZS1sYXdzdWl0cy1vdmVyLXVzLW9waW9pZC1jcmlzaXMtMjAyMi0xMS0yMi_SAQA?hl=en-TZ&gl=TZ&ceid=TZ%3Aen

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Slide 52: Pharmaceuticals (continued)

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- Source
 - https://www.reuters.com/business/healthcare-pharmaceuticals/who-says-COVID-19-is-still-global-health-emergency-2022-10-19/
 - https://news.google.com/articles/CBMihwFodHRwczovL3d3dy5yZXV0ZXJzLmNvbS9idXNpbm Vzcy9oZWFsdGhjYXJlLXBoYXJtYWNldXRpY2Fscy9waGFybWFjaWVzLWRydWctY29tcGFuaWVz LXNldHRsZS1sYXdzdWl0cy1vdmVyLXVzLW9waW9pZC1jcmlzaXMtMjAyMi0xMS0yMi_SAQA?h l=en-TZ&gl=TZ&ceid=TZ%3Aen

Slide 53: Soaps and Cosmetics

21. Soaps and Cosmetics • Crisis type: Economic crisis, supply chain crisis • Companies: Procter & Gamble company also used the health crisis Elizabeth Arden launched one-on-one virtual promised to make women consumer goods climate crisis market size New York City cost of living crisis supply chain European Walmart Nestle Gamble Revion Revion Nesting United States analysis period COVID-19 pandemic personal care research report Middle East and Africa Perelman also said that the company

Slide 53: Soaps and Cosmetics

- Crisis type: economic crisis and supply chain crisis
- Companies: Procter & Gamble

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Soaps and Cosmetics.

Slide 54: Soaps and Cosmetics (continued)

21. Soaps and Cosmetics

- Transport and labor markets remain tight, material availability remains limited in some categories, and inflationary pressures in some markets are broad with little sign of easing in the near term.
- Soaring raw material prices are a problem. Across product lines, prices rose 44%, and prices for certain chemicals surged, a 60% increase over what the companies spent in 2021. These issues are all related to the supply chain crisis.
- Source: https://www.strategicsourceror.com/2022/02/costs-of-production-to-raise-prices-for.html

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Slide 54: Soaps and Cosmetics (continued)

- Transport and labor markets remain tight, material availability remains limited in some categories, and inflationary pressures in some markets are broad with little sign of easing in the near term.
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- Source
 - https://www.strategicsourceror.com/2022/02/costs-of-production-to-raise-prices-for.html

Slide 55: In-Depth Crisis Analysis Report



Slide 55: In-Depth Crisis Analysis Report

Title: Impact of the Russia-Ukraine War on the Global Crisis

Photo of the Dick Clark Studios at S.I. Newhouse School Of Public Communications at Syracuse University.

Slide 56: The Ripple Effect of Russia-Ukraine War

Summary: The ripple effect of Russia-Ukraine war

- In 2022, the Russia-Ukraine war has been the most significant crisis affecting Fortune 100 companies in the US.
- Based on Brand Watch's "topic analysis," 12 out of 21 industries were directly affected by the Russia-Ukraine war, with the other industries also finding it hard to avoid the impacts.
- The manufacturing, transport, and energy industry were the top 3 industries mentioned most often concerning the Russia-Ukraine war crisis.
- The ripple effect of the Russia-Ukraine war resulted in a supply chain crisis, energy crisis, cost-of-living crisis, and economic crisis.

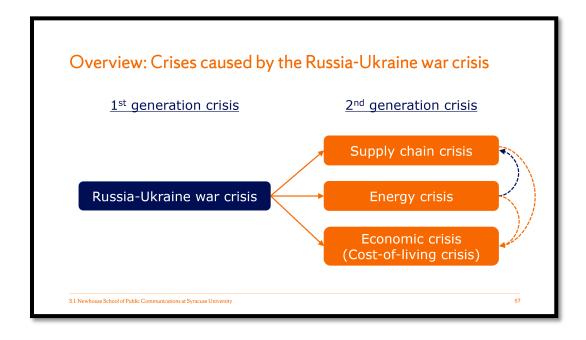
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Slide 56: The Ripple Effect of Russia-Ukraine War

- In 2022, the Russia-Ukraine war has been the most significant crisis affecting Fortune 100 companies in the US.
- Based on Brandwatch's "topic analysis," 12 out of 21 industries were directly affected by the Russia-Ukraine war, with the other industries also finding it hard to avoid the impacts.
- The manufacturing, transport, and energy industry were the top 3 industries mentioned most often concerning the Russia-Ukraine war crisis.
- The ripple effect of the Russia-Ukraine war resulted in a supply chain crisis, energy crisis, cost-of-living crisis, and economic crisis.

Slide 57: Crises Caused by the Russia-Ukraine War Crisis



Slide 57: Crises Caused by the Russia-Ukraine War Crisis

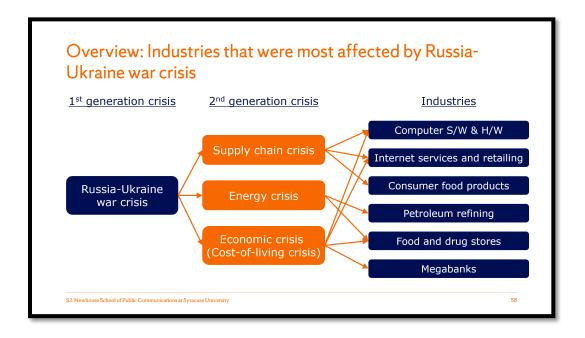
1st Generation Crisis

Russia-Ukraine war crisis

2nd Generation Crisis

- Supply chain crisis
- Energy crisis
- Economic crisis (cost-of-living crisis)

Slide 58: Industries that Were Most Affected by Russia-Ukraine War Crisis



Slide 58: Industries that Were Most Affected by Russia-Ukraine War Crisis

1st Generation Crisis

Russia-Ukraine war crisis

2nd Generation Crisis

- Supply chain crisis
- Energy crisis
- Economic crisis (cost-of-living crisis)

Industries

- Computer S/W & H/W
- Internet services and retailing
- Consumer food products
- Petroleum refining
- Food and drug stores
- Megabanks

Slide 59: Supply Chain Crisis

The supply chain crisis Competitive landscape maket growth Market Report REQUEST SAMPLE North America Covered Africa Japan Chain Analysis Covered Africa Japan Chain Analysis Covered Africa Japan Chain Analysis and year Australia market share China Russian Covered China Russian Insights European Australia market analysis of the impect of Covince of Market analysis analysis of the impect of Covince of Sample of Covince of Covi

Slide 59: Supply Chain Crisis

- Russian invasion of Ukraine, combined with the COVID-19 pandemic, has delayed mobility of goods and people and created shortages of materials worldwide.
- Fuel prices have increased as many countries have restricted their energy imports from Russia, the world's largest producer and exporter of oil and gas. Additionally, the impact of reduced labor and border closures caused by COVID-19 has not yet fully recovered.
- Top 3 industries that were most affected by the supply chain crisis are computer software and hardware, internet services and retailing, and the consumer food products industry.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 for Supply Chain Crisis.

Slide 60: Supply Chain Crisis in the Computer S/W and H/W Industry

Supply chain crisis in the computer s/w and h/w industry · Companies: Apple, Dell Technologies, HP, Microsoft, Oracle. The Russian-Ukraine war triggered severe disruptions to global markets for critical raw materials: neon and Impact of COVID-19 size is estimated to be worth palladium. raw materials Canada chain analysis Today North America Chip shortages caused by raw material shortages contributed to supply chain problems, particularly in the covid-19 crisis post COVID-19 United States global market in 2021 Apple automobile and electronics industries. market size Russia market report market share key players • Ukraine produces about half of the global neon, a noble forecast period gas needed for lasers in chip manufacture. Ukraine market dynamics supplies 90% of U.S. semiconductor-grade neon. • Russia exports about 40% of the global supply of the metal palladium, used in certain chip components. S.I. Newhouse School of Public Communications at Syracuse University

Slide 60: Supply Chain Crisis in the Computer S/W and H/W Industry

- Companies: Apple, Dell Technologies, HP, Microsoft, and Oracle.
- The Russian-Ukraine war triggered severe disruptions to global markets for critical raw materials: neon and palladium.
- Chip shortages caused by raw material shortages contributed to supply chain problems, particularly in the automobile and electronics industries.
- Ukraine produces about half of the global neon, a noble gas needed for lasers in chip manufacture. Ukraine supplies 90% of U.S. semiconductor-grade neon.
- Russia exports about 40% of the global supply of the metal palladium, used in certain chip components.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Supply Chain Crisis in the Computer S/W and H/W Industry.

Slide 61: Supply Chain Crisis in the Internet Services and Retailing Industry

Supply chain crisis in internet services and retailing industry · Companies: Alphabet, Amazon.com, Meta Platforms. A lingering effect of the COVID-19 pandemic and the ongoing Russian invasion of Ukraine has caused damage to the global transportation network. supply chain disruptions • In 2019 before COVID-19, the global container freight supply chain issues interest rates supply chains rate was an average of USD 1,405, but in December Series Apple Buy second quarter 2020 after the outbreak of COVID-19, the freight rate ue growth Big Tech Amazon Artificial Intelligence climate change was USD 4,359, a 152% increase from the previous year. cost of living crisis Europe China Russia electric vehicles Biden Read Wall Street past year Container freight rates reached a high of USD 10,361 in September 2021 and have been decreasing since then. COVID-19 pandemic However, due to the aftermath of COVID-19 and the impact of the Russia-Ukraine war, logistics costs have not yet stabilized and are burdening the internet services and retailing industry. S.I. Newhouse School of Public Communications at Syracuse University

Slide 61: Supply Chain Crisis in the Internet Services and Retailing Industry

- Companies: Alphabet, Amazon.com, and Meta Platforms.
- A lingering effect of the COVID-19 pandemic and the ongoing Russian invasion of Ukraine has caused damage to the global transportation network.
- In 2019 before COVID-19, the global container freight rate was an average of USD 1,405, but in December 2020 after the outbreak of COVID-19, the freight rate was USD 4,359, a 152% increase from the previous year.
- Container freight rates reached a high of USD 10,361 in September 2021 and have been
 decreasing since then. However, due to the aftermath of COVID-19 and the impact of the RussiaUkraine war, logistics costs have not yet stabilized and are burdening the internet services and
 retailing industry.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Supply Chain Crisis in the Internet Services and Retailing Industry.

Slide 62: Supply Chain Crisis in the Food Products Industry

Supply chain crisis in the food products industry · Companies: Coca-Cola, PepsiCo. Since the start of the Russia-Ukraine war, the Russian army has blocked Ukrainian grain exports, affecting the anctions Western governments leveled at Russia Netflix stopped streamin supply chain issues UBO Materials operations in Russia world's food supply. • Ukraine accounts for 10% of the world wheat market, toll on Russia's economy Starbucks consumer spending halted production Europe PepsiCo and asset witedowns Apple McDonald Sandicions have already taken a toll 15% of the corn market, and 13% of the barley market. Ukraine also dominates the sunflower oil market, with cybersecurity risks Russian Citigroup said Wednesday Hollywood studios americand deay studios cased releasing films comply with the sanctions Western governments over 50% of world trade. • The average wheat price in 2022 was USD 435/mt, up 38% from pre-war, and the average maize price was USD 320/mt, up 23% from 2021. • The rise in international grain prices is burdening the food products industry. S.I. Newhouse School of Public Communications at Syracuse University

Slide 62: Supply Chain Crisis in the Food Products Industry

- Companies: Coca-Cola and PepsiCo.
- Since the start of the Russia-Ukraine war, the Russian army has blocked Ukrainian grain exports, affecting the world's food supply.
- Ukraine accounts for 10% of the world wheat market, 15% of the corn market, and 13% of the barley market. Ukraine also dominates the sunflower oil market, with over 50% of world trade.
- The average wheat price in 2022 was USD 435/mt, up 38% from pre-war, and the average maize price was USD 320/mt, up 23% from 2021.
- The rise in international grain prices is burdening the food products industry.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Supply Chain Crisis in the Food Products Industry.

Slide 63: Energy Crisis

2. Energy crisis

energy prices supply chain
climate change European Union
British energy crisis two years
covid-19 pandemic
energy bills
climate cisis
prime minister natural gas
thress
war in Ukraine China West
Ministry
united States Moscow
United Nations cost of living crisis
President Vladimir Putin

- The price of energy has soared around the world since the second half of 2021. As a result of the invasion and Western sanctions, the pressure was heaped on oil and gas supplies that were already under strain from the rapid economic recovery following the pandemic.
- As a result, natural gas and oil prices have reached multi-year highs, accelerating the post-pandemic inflationary spiral that has crippled the cost of living across the globe.
- Russia is the world's second-largest natural gas and oil producer after the United States.
- Top 2 industries that were most affected by the energy crisis are petroleum refining and the food and drug stores industry.

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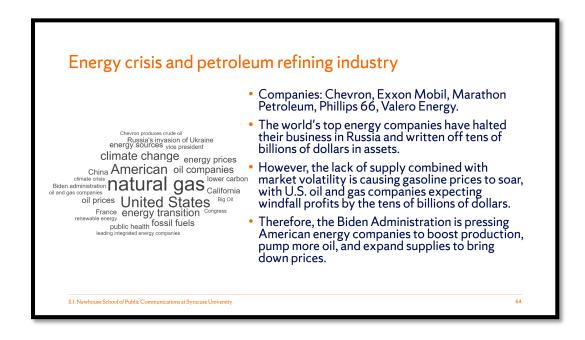
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Slide 63: Energy Crisis

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- Russia is the world's second-largest natural gas and oil producer after the United States.
- Top 2 industries that were most affected by the energy crisis are petroleum refining and the food and drug stores industry.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Energy Crisis.

Slide 64: Energy Crisis and the Petroleum Refining Industry



Slide 64: Energy Crisis and the Petroleum Refining Industry

- Companies: Chevron, Exxon Mobil, Marathon Petroleum, Phillips 66, and Valero Energy.
- The world's top energy companies have halted their business in Russia and written off tens of billions of dollars in assets.
- However, the lack of supply combined with market volatility is causing gasoline prices to soar, with U.S. oil and gas companies expecting windfall profits by the tens of billions of dollars.
- Therefore, the Biden Administration is pressing American energy companies to boost production, pump more oil, and expand supplies to bring down prices.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Energy Crisis and the Petroleum Refining Industry.

Slide 65: Energy Crisis in the Food and Drug Stores Industry

Energy crisis in food and drug stores industry · Companies: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, Walmart. navigates around your house literally life changing • A record high global price for food commodities like grain dogs hair on the floor Ratings climate change and vegetable oils was recorded in 2022. The Russian-HDR robot vacuum supply chain Ukrainian war, drought, and other factors contributed to war in Ukraine Prepare Buy natural gas Stocks Buy Zero iRobot app inflation which is worsening the crisis. The food and energy crises are **Sourceed**. The rising cost International sheds A LOT * of natural gas has caused the industry to halt fertilizer literally press one time and energy financial crisis Biden administration shows and movies wrote a Walmart customer Walmart customer who purchased the device production. In addition, electricity and gas prices are rising sharply in the logistics sector due to a serious energy crisis. S.I. Newhouse School of Public Communications at Syracuse University

Slide 65: Energy Crisis and the Food and Drug Stores Industry

- Companies: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, and Walmart.
- A record high global price for food commodities like grain and vegetable oils was recorded in 2022. The Russian-Ukrainian war, drought, and other factors contributed to inflation which is worsening the crisis.
- The rising cost of natural gas has caused the industry to halt fertilizer production.
- In addition, electricity and gas prices are rising sharply in the logistics sector due to a serious energy crisis.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Energy Crisis and the Food and Drug Stores Industry.

Slide 66: Economic Crisis (Cost-of-Living Crisis)

3. Economic crisis (Cost-of-living crisis) • Due to Russia's war of aggression against Ukraine, the global economy is slowing down as inflationary pressures continue to mount, sapping consumer confidence and household purchasing power, and increasing global risks. COVID-19 pandemic - Global real GDP is expected to contract by 2.2% in 2023 from cost-of-living crisis economic crisis 3.2% in 2022. two years Central China rising cost of living climate crisis • China is expected to lead global economic growth in 2023 as North Europe British Bank of England million people war in Ukraine lax cuts United States economic growth activity rebounds after China withdraws from its zero-COVID policy, with India expected to drive significant growth as well. Sri Lanka ealth crisis Prime Minister • Growth may be slower than expected if energy prices continue to climate change interest rates President Joe Biden rise, or if gas and electricity markets in Europe and Asia are disrupted by energy supply disruptions. • Top 4 industries most affected by the economic crisis are megabanks, computer software and hardware, internet services and retailing, and food and drug stores. S.I. Newhouse School of Public Communications at Syracuse University

Slide 66: Economic Crisis (Cost-of-Living Crisis)

- Due to Russia's war of aggression against Ukraine, the global economy is slowing down as inflationary pressures continue to mount, sapping consumer confidence and household purchasing power, and increasing global risks.
- Global real GDP is expected to contract by 2.2% in 2023 from 3.2% in 2022.
- China is expected to lead global economic growth in 2023 as activity rebounds after China withdraws from its zero-COVID policy, with India expected to drive significant growth as well.
- Growth may be slower than expected if energy prices continue to rise, or if gas and electricity markets in Europe and Asia are disrupted by energy supply disruptions.
- Top 4 industries most affected by the economic crisis are megabanks, computer software and hardware, internet services and retailing, and food and drug stores.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Economic Crisis (Cost-of-Living Crisis).

Slide 67: Economic Crisis in the Megabank Industry

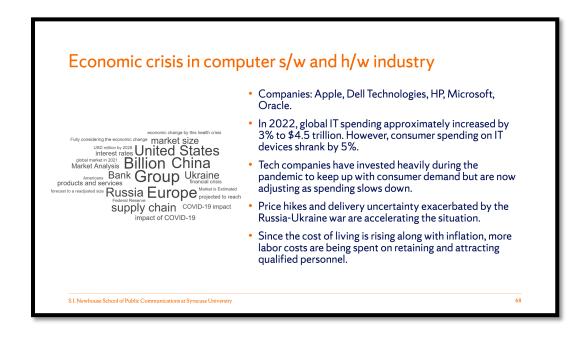


Slide 67: Economic Crisis in the Megabank Industry

- Companies: Bank of America, Citigroup, Goldman Sachs Group, JPMorgan Chase, Morgan Stanley, and Wells Fargo.
- In 2022, the banking industry was not that bad. A high-interest rate helped financial giants expand their margins, while the demand for loans was strong, helping them to grow their loan portfolios.
- Rising interest rates helped improve profitability, but it was also offset by an increase in nonperforming loans.
- There is uncertainty about how the upcoming 'recession' will affect bank earnings due to the war in Ukraine and the unfinished effects of COVID-19.
- It is argued that megabanks could give away all their accumulated profits that were accumulated during the boom of 2022 when the macro environment deteriorates.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Economic Crisis in the Megabank Industry.

Slide 68: Economic Crisis in the Computer S/W and H/W Industry

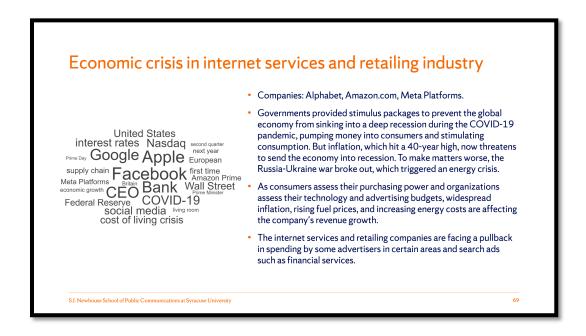


Slide 68: Economic Crisis in the Computer S/W and H/W Industry

- Companies: Apple, Dell Technologies, HP, Microsoft, and Oracle.
- In 2022, global IT spending approximately increased by 3% to \$4.5 trillion. However, consumer spending on IT devices shrank by 5%.
- Tech companies have invested heavily during the pandemic to keep up with consumer demand but are now adjusting as spending slows down.
- Price hikes and delivery uncertainty exacerbated by the Russia-Ukraine war are accelerating the situation.
- Since the cost of living is rising along with inflation, more labor costs are being spent on retaining and attracting qualified personnel.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Economic Crisis in the Computer S/W and H/W Industry.

Slide 69: Economic Crisis in the Internet Services and Retailing Industry



Slide 69: Economic Crisis in the Internet Services and Retailing Industry

- Companies: Alphabet, Amazon.com, and Meta Platforms.
- Governments provided stimulus packages to prevent the global economy from sinking into a
 deep recession during the COVID-19 pandemic, pumping money into consumers and stimulating
 consumption. But inflation, which hit a 40-year high, now threatens to send the economy into
 recession. To make matters worse, the Russia-Ukraine war broke out, which triggered an energy
 crisis.
- As consumers assess their purchasing power and organizations assess their technology and advertising budgets, widespread inflation, rising fuel prices, and increasing energy costs are affecting the company's revenue growth.
- The internet services and retailing companies are facing a pullback in spending by some advertisers in certain areas and search ads such as financial services.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Economic Crisis in the Internet Services and Retailing Industry.

Slide 70: Economic Crisis in the Food and Drug Stores Industry

Economic crisis in food and drug stores industry • Companies: Albertsons, Costco Wholesale, Kroger, Publix Super Markets, Target, Walgreens Boots Alliance, Walmart. Economic demand is declining in the United States and globally. As the cost of living rises and wages fail to keep pace with Federal Reserve cost-of-living crisis New York Costco inflation, many people are slowly cutting back on spending. United States Target Board Board At the same time, many companies face rising input costs as Ukraine Walmart Kroger cash file energy (transport) and other raw materials become more gas prices VVaIIIIAI Cash flow next year National CEO interest rates expensive. This trend is exacerbated by rising interest rates, which lowers the borrowing capacity of businesses and households and increase interest expenses. supply chain real estate COVID-19 pandemic According to the US Bureau of Labor Statistics said, inflation ended 2022 with a 6.5% annual reading, as measured by the Consumer Price Index.

Slide 70: Economic Crisis in the Food and Drug Stores Industry

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- Economic demand is declining in the United States and globally. As the cost of living rises and wages fail to keep pace with inflation, many people are slowly cutting back on spending.
- At the same time, many companies face rising input costs as energy (transport) and other raw materials become more expensive. This trend is exacerbated by rising interest rates, which lowers the borrowing capacity of businesses and households and increase interest expenses.
- According to the US Bureau of Labor Statistics said, inflation ended 2022 with a 6.5% annual reading, as measured by the Consumer Price Index.

Word cloud visualization of most popular hashtags and keywords on social media for 2022 Economic Crisis in the Food and Drug Stores Industry.

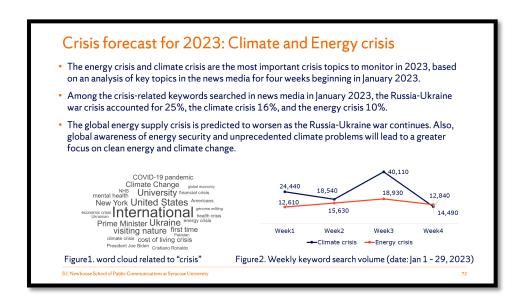
Slide 71: Crisis Forecast for 2023



Slide 71: Crisis Forecast for 2023

Photo of the Dick Clark Studios at S.I. Newhouse School Of Public Communications at Syracuse University.

Slide 72: Crisis Forecast for 2023- Climate and Energy Crisis



Slide 71: Crisis Forecast for 2023- Climate and Energy Crisis

- The energy crisis and climate crisis are the most important crisis topics to monitor in 2023, based on an analysis of key topics in the news media for four weeks beginning in January 2023.
- Among the crisis-related keywords searched in news media in January 2023, the Russia-Ukraine war crisis accounted for 25%, the climate crisis 16%, and the energy crisis 10%.
- The global energy supply crisis is predicted to worsen as the Russia-Ukraine war continues. Also, global awareness of energy security and unprecedented climate problems will lead to a greater focus on clean energy and climate change.

Figure 1: Word cloud related to "crisis".

Figure 2: Line graph showing weekly keyword search volume for "climate crisis" and "energy crisis" for January 1-29, 2023.

Slide 73: Appendix



Slide 73: Appendix

Photo of the Dick Clark Studios at S.I. Newhouse School Of Public Communications at Syracuse University.

Slide 74: Methodology- Brandwatch Search and Cleaning Criteria

Methodology: Brandwatch search and cleaning criteria • Search criteria – Date: January 1st 2022 - December 31st 2022.

- Language: English only.
- Content source: News media.
- Keyword selection criteria and data cleaning process
 - 1st step: To find what kind of crisis has occurred in the industry, search company name with "crisis" (e.g. CRIS*
 AND (company 1 OR company 2 OR company 3).
 - 2nd step: Among all keywords searched include (1) keywords that include "crisis" (e.g. COVID-19 crisis) and (2) keyword itself is a crisis (e.g. Supply chain).
 - 3rd step: Of all filtered keywords, include crisis keywords that account for 3% or more of the total keyword volume (e.g. Supply chain crisis: 8% - include, Mental health: 1.7% - remove).
 - 4th step: To select the industry that is most related to the crisis we included industries that account for 3% or more of the total keyword volume (e.g., Supply chain crisis total keyword volume: 34,230 keywords > Computer S/W and H/W: 14,070 keywords, 41% include).

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Slide 74: Methodology- Brandwatch Search and Cleaning Criteria

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 - Date: January 1st 2022 to December 31st 2022.
 - Language: English only.
 - Content source: News media.
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Slide 75: Citations (Main Report)

Citations (Main report)

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 Unternehmenskrisen-Ursachen, Früherkennung, Bewältigung, Stuttgart, 7-24.

Slide 76: Sources (In-Depth Crisis Analysis Report)



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Slide 78: Sources (continued)



Slide 78: Sources (continued)

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