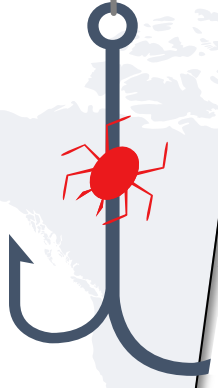
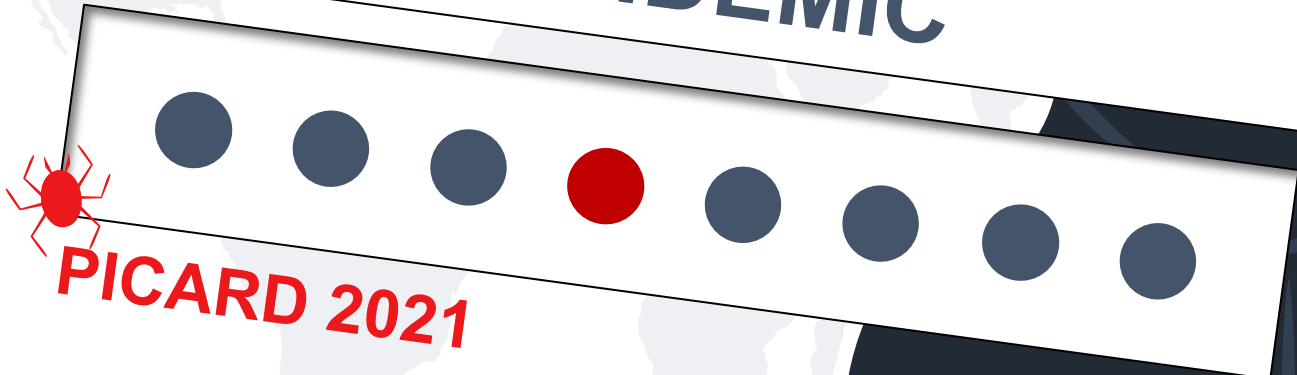




WORLD CUSTOMS ORGANIZATION



1 FRAUD IN THE PANDEMIC



PICARD 2021



María Elena Chávez Solís



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3. Study cases
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1. Background



The declaration of the COVID -19 Pandemic, by the World Health Organization during March 2021, revolutionized the world and accelerated the use of technology in all areas with social distancing. The use of technology was necessary to do many things and, consequently, cases of fraud increased.

On the other hand, regarding the health issue, the whole world mobilized in the distribution of medicines and vaccines, this point being also a subject of analysis, because, despite the pandemic; fraudulent operations and product counterfeiting increased.





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1. Background

With the use of technology, the study and application of Artificial Intelligence and Machine Learning, it has also increased in many sectors, including the education sector and in anti-corruption investigations and practices.

WEKA **Apache Mahout** **H2O.ai** Keras Shogun

TensorFlow Azure Machine Learning **Accord.NET**

Google Cloud ML Engine Apache Singa

PyTorch **Amazon Machine Learning (AML)**



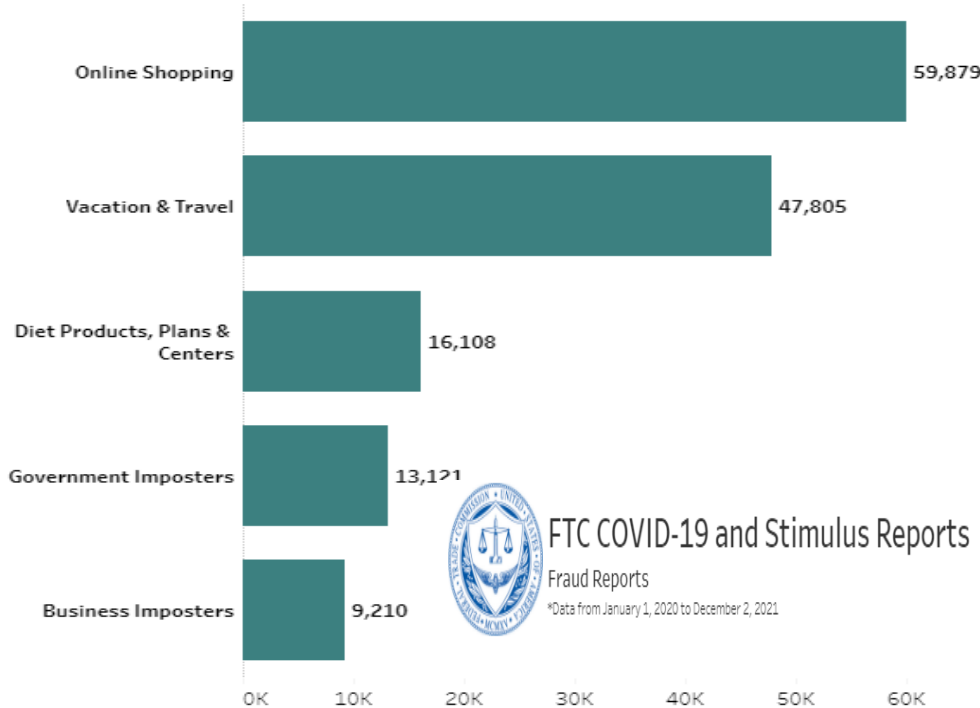
2. Pandemic fraud

279,513
Total Fraud Reports

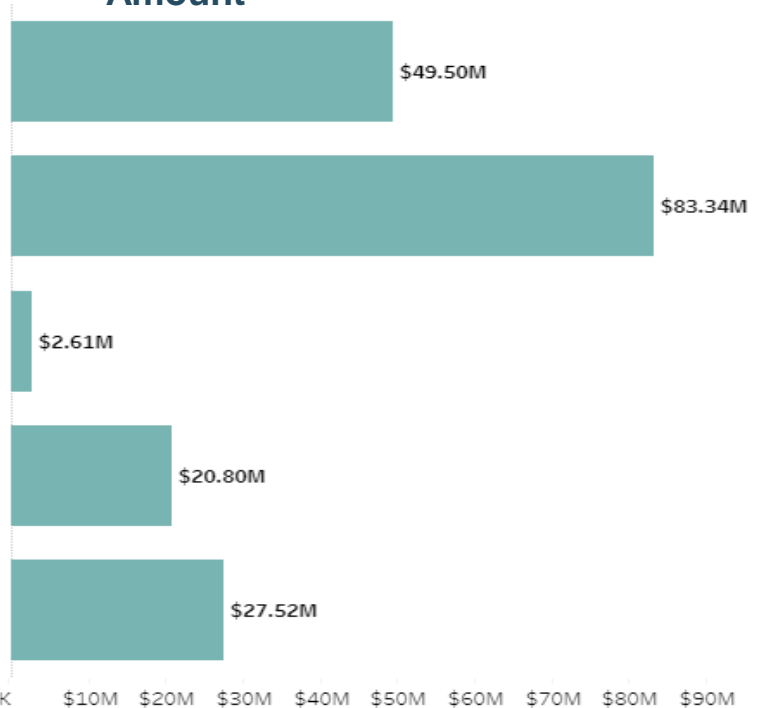
\$627.01M
Total Fraud Loss
*45.6% of Fraud reports indicate a loss

\$400
Median Fraud Loss

Top Fraud Reports



Amount



FTC COVID-19 and Stimulus Reports
Fraud Reports

*Data from January 1, 2020 to December 2, 2021



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2. Pandemic fraud Currently



Predicted





2.1. Operations during the pandemic in México.

- As a result of the pandemic, there was a greater demand for operations and consequently merchandise dispatch times increased.

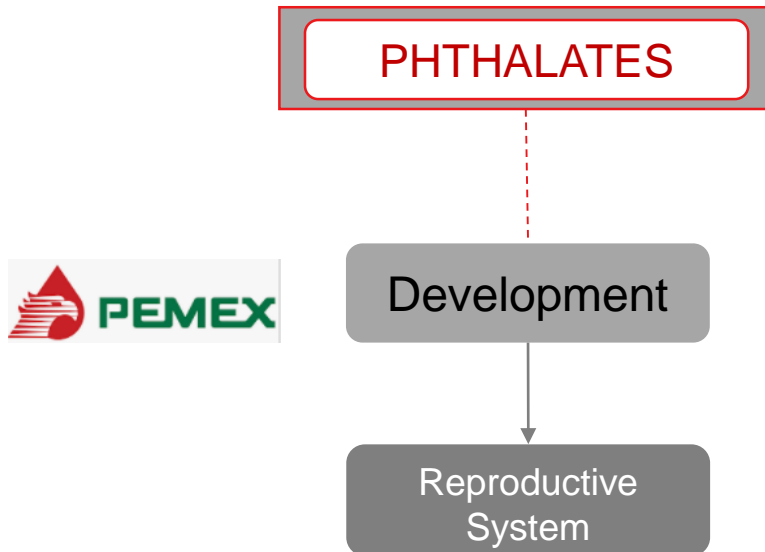




3. Study cases



The COVID-19 pandemic has presented rare opportunities to commit fraud. For example, a Florida man obtained loans under the Paycheck Protection Program (PPP) valued at \$3.4 million by submitting false IRS records.



Phthalates

What Products Are Phthalates Found In?

You can find them in things like:

- Vinyl flooring
 - Adhesives
 - Building materials
 - Cosmetics and personal care products such as perfume, nail polish, hair spray, soap, shampoo, and skin moisturizers
 - Detergents
 - Insecticides
 - Lubricants
 - Plastic plumbing pipes
 - Medical tubing and fluid bags
 - Shower curtains
 - Solvents
 - Wood finishes
-

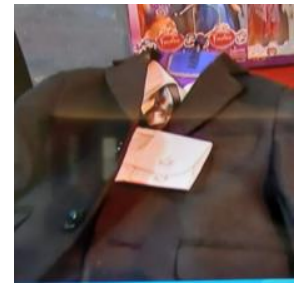
What Foods Are High in Phthalates?

Foods linked to higher phthalate levels include:

- Restaurant, cafeteria, and fast foods
- High-fat dairy
- Fatty meats and poultry
- Cooking oils

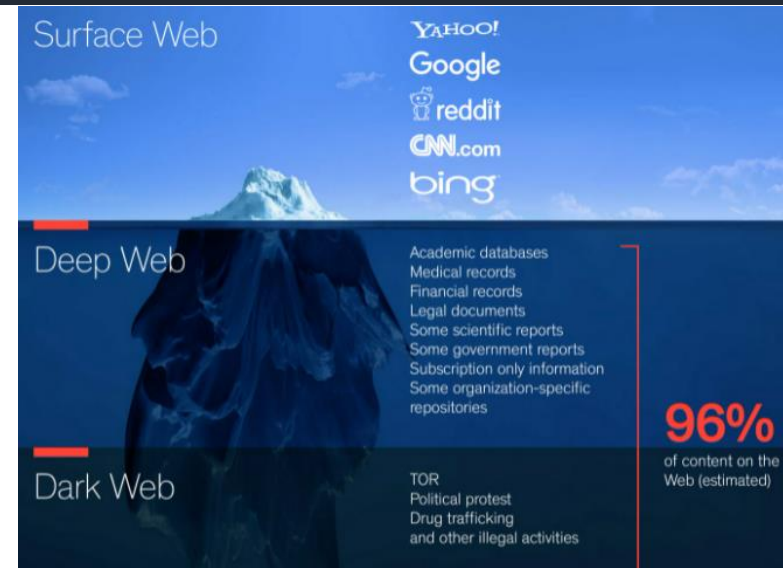


4. Dark Web Analysis



Options

- Lists of hidden services and search engines
- Financial market
- Marketplace commercial services
- Market drugs
- Hosting
- Blogs
- Forums and chains
- Email and political messaging
- Hack
- Warez
 - Erotic 18-
 - No English
 - TOP 50



The COVID-19 pandemic and the fraud

- The COVID-19 pandemic has opened the door for criminals to defraud state and federal government programs.
- Fraud investigators at both the state and federal levels have found hundreds of instances of fraud in relief programs.
- Three ways fraud investigators can benefit from automated data visualization in their pandemic-related fraud investigations.



Recomendation:

1. Solve faster

Time is money. During the COVID-19 pandemic, time can also cost lives and extend the economic downturn.

2. Organize the information

Organize the information Create a timeline and visualize the information, there are many help tools

3. Create formats (structured information)

Ultimately, the goal of your investigation is to prepare the evidence that will help you identify criminal activity.

You must know the laws and regulations



Request information

Review of evidence:

- Chats,
- E-mails,
- Images,
- Documents,
- Forense audit
- Social networks
- Calls
- Video camaras
- User account

Timeline

Artificial Intelligence in México

Microsoft has selected the state of Querétaro for its first Azure region in Mexico. The first Azure region in Mexico within the next five years as part of a \$1.1 billion investment initiative.

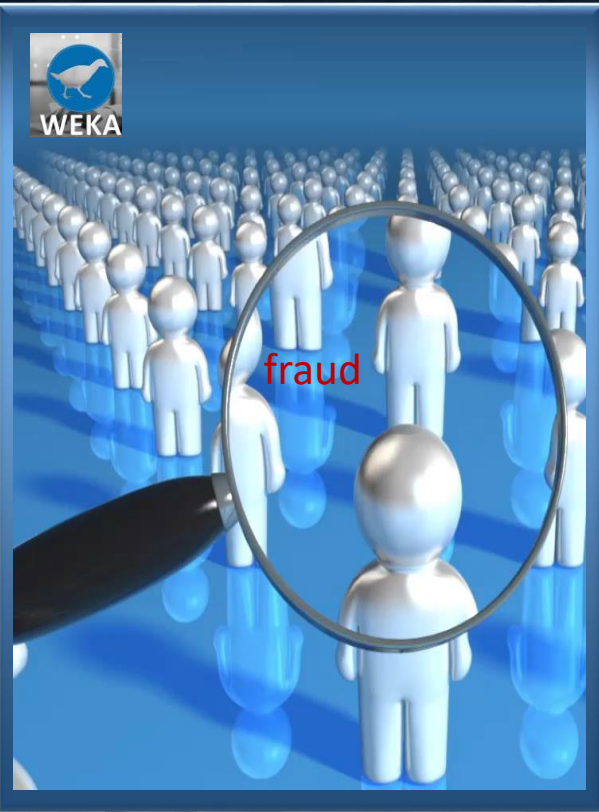
Currently

Free training to thousands of public Universities in Artificial Intelligence and Data Science.



Artificial intelligence is being hailed as the future of business, from the way companies manage their supply chains and deal with legal issues, to how companies anticipate and meet consumer demand.

Data Analytics Artificial Intelligence



While some of this change is likely due to increased efforts on behalf of anti-fraud professionals and more internal conversations around fraud risks, heightened press coverage of pandemic-related fraud schemes might also have contributed to the increase in fraud awareness.

Conclusion:

- Data analytics and artificial intelligence can help us prevent risk health situations and fraud.
- Incorporate the subject of data science from basic education to sensitize children in the use of information.
- Fight fraud with a culture of legality.

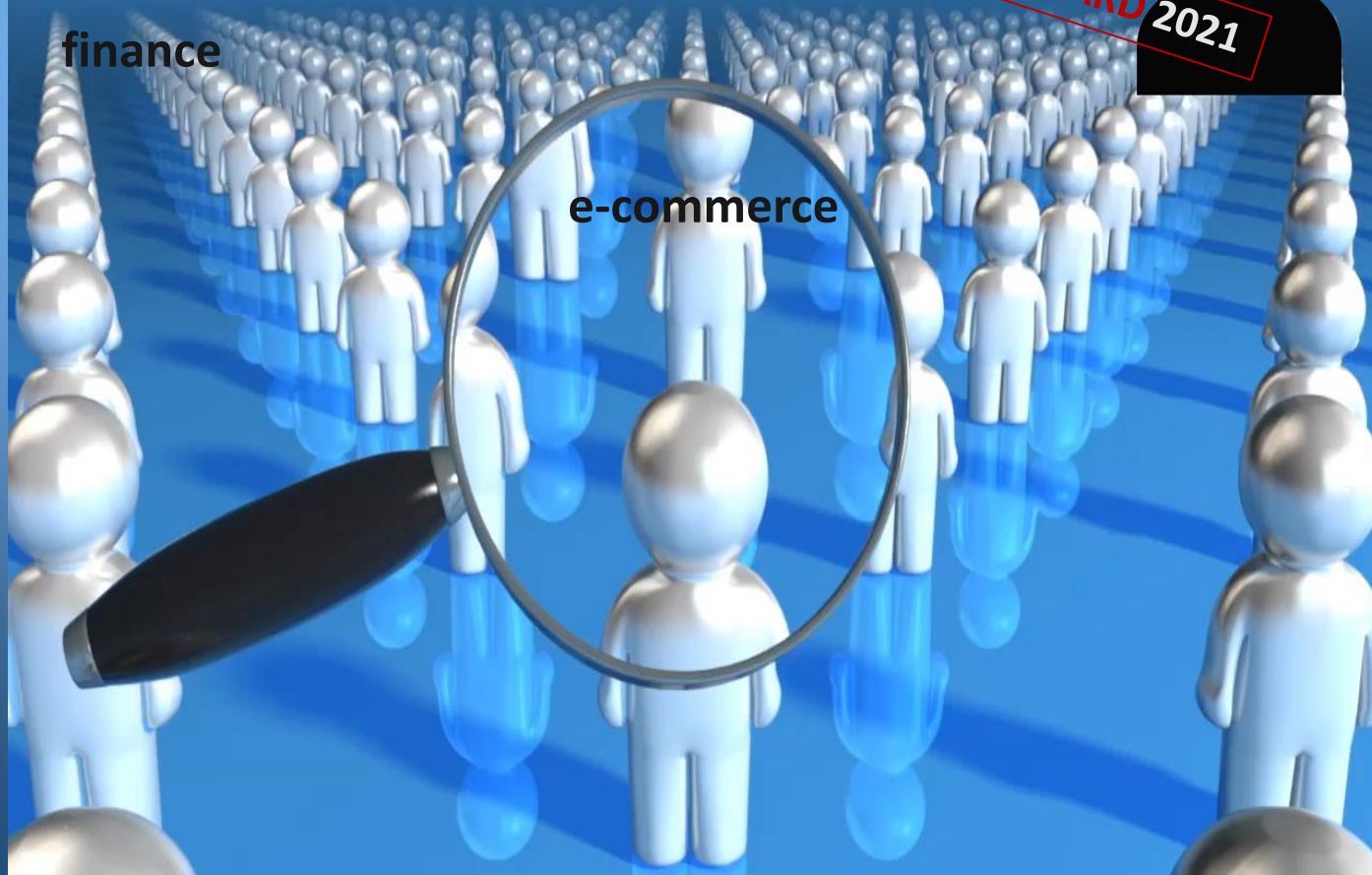


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finance

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e-commerce



México

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