The Online Illicit Drug Market Economy

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ABSTRACT: The growth of the Internet has contributed to the emergence of various illicit online markets, including the sale of illegal drugs on the Dark Web. The Dark Web is unique in its ability to disguise the real-world identity and location of its users, promoting an open network of illicit exchange. The purpose of this Backgrounder is to provide descriptive characteristics of 4,042 products across 74 different drug vendors located on the Open and Dark Web. In particular, this Backgrounder will provide detailed information regarding average product price, types of communication used, preferred payment platforms, modes of delivery, communication of vendor trust and service, and customer feedback.

The sale of illicit drugs remains the oldest and most profitable illegal industry, boasting an estimated annual gross revenue of over \$100 billion. While the online drug market amounts to only a fraction of the entire illicit drug market economy, its growth is concerning for various reasons. In fact, the number of drug vendors on the Dark Web in 2012 doubled from roughly 220 to more than 550 in less than a year. In addition, online illicit drug markets provide numerous vulnerable populations (e.g., youth and substance-dependent individuals) with access to hazardous and highly addictive products.

Dark Web drug markets are particularly concerning because of the challenges they pose to law enforcement. First, the investigation and prosecution of illicit drug vendors are complicated by the encryption techniques present on Dark Web platforms (e.g., Tor, Freenet). Second, vendors' overt use of traditional supply chains, such as USPS and DHL, complicates the process of interdiction of goods. Third, attempts to arrest and disrupt vendors and markets often leads offenders to alter their behavior in order to minimize risk of arrest and continue operations.

Given the relatively constant operation and fluctuation in online underground drug market operations, it is essential that researchers continuously assess its unique features and characteristics. Such information is essential to understand the current contours of the market and identify potential trajectories for operation over the near future.

This analysis explored 4,042 products advertised across 74 different drug vendors operating on both Dark Web cryptomarkets (N = 56) and Open Web shops (N = 18). All data was collected between August 2018 and February 2020, reflecting a relatively robust period of market operations. The characteristics of vendor operations are detailed, including average product pricing, communication methods used, preferred payment platforms, modes of delivery, communication of vendor trust and service, and customer feedback.

Product Pricing and Payment Type

The top six drugs by category in our data were marijuana, opiates, ecstasy/MDMA, psychedelics, steroids, and cocaine (see Table 1 for complete list of drug categories). The

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⁵ Buxton, J., & Bingham, T. (2015). *The rise and challenge of dark net drug markets*. Swansea: Global Drug Policy Observatory. ⁶ Popper, N. (2019). Dark web drug sellers dodge police crackdowns. *The New York Times*, June 11, 2019. https://www.nytimes.com/2019/06/11/technology/online-dark-web-drug-markets.html

average price of all products was \$1,133.32 (std. dev = \$5,267.87). The lowest listed price for a product was \$0.40 (diclazepam pellets), while the highest priced product (5000 80MG Oxycodone Pharmaceutical Grade, an opiate) was advertised at \$109,748.80.

Consistent with past studies on illicit dark web drug markets78, our analysis found marijuana, ecstasy/MDMA, and psychedelics as three of the most commonly advertised products on the illicit drug market. However, our results deviate from these former studies in finding opiates, steroids, and cocaine as other commonly sold products on the Dark Web. These findings are more consistent with studies exploring offline drug sales in traditional street markets910.

Numerous payment methods were accepted, including Bitcoin (71.9%), Western Union (25%), Moneygram (24.6%), and wire transfer (17.1%). Other cryptocurrencies (22.3%) and non-crypto payment methods (25.8%) were also frequently accepted. A limited number of vendors indicated they accepted payment via escrow (6.8%), Web Money (3.8%), Perfect Money (1.9%), and Paypal (1%).

Types of Communication, Trust, and Service

Vendors utilized a variety of communication platforms, with most using accounts hosted through encrypted email services (27.8%). A portion also listed gmail accounts (23%) and personalized email accounts linked to their shop or online identity (19.8%). A small proportion also utilized Jabber (1.6%) and ICQ (0.6%).

Vendors also displayed varying levels of trust and service. A majority of vendors operated customer service lines via some form of online communication (81.4%), while just under half

Methods of Product Delivery

Drug vendors used various legitimate delivery services to fulfill their purchase orders. The four most common listed services were Fedex (22.4%), UPS (20.6%), DHL (14.1%), and USPS (4.7%). A majority of vendors (40.7%) listed other physical delivery service providers.

Customer Feedback Scores

Customer feedback sections allow markets to be influenced by social forces that maximize reward and reduce risk for buyers and sellers11. Our analysis found that customer feedback was mostly positive (32.3%), though a smaller portion expressed neutral (5.7%) and negative (2.1%) sentiments.

Conclusion

The Dark Web has substantially modified the landscape of drug crime, providing a platform for individuals to buy, sell, and trade substances under the protection of anonymity. By shifting to the Internet, illicit drug vendors reduce their risk of detection and physical harm while enabling illicit economic transactions to continue unabated. While online drug markets have been in existence for less than a decade (i.e., the shift began in 2011 with the establishment of the Silk Road) 13, it is a growing phenomenon that deserves greater attention.

offered bulk discounts (43.4%) and product replacements (40.7%) to customers. In contrast, free samples (0.1%) were seldom offered or advertised.

⁷ Aldridge, J., & Décary-Hétu, D. (2016). Hidden wholesale: The drug diffusing capacity of online drug cryptomarkets. International Journal of Drug Policy, 35, 7–15.

⁸ Dolliver, D. S. (2015). Evaluating drug trafficking on the Tor Network: Silk Road 2, the sequel. International Journal of Drug Policy, 26, 1113–1123.

 ⁹ Caulkins, J. P., & Reuter, P. (2016). Dealing more effectively and humanely with illegal drugs. Crime and Justice, 46, 95–158.
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13 Christin, N. (2013). *Traveling the Silk Road: A measurement analysis of a large anonymous online marketplace*. In Proceedings of the 22nd international conference on World Wide Web (pp.213–

Table 1. Drug Classification/Type Descriptive Statistic

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Methamphetamine 99 2.4 Methylphenidate 38 0.9 Mifepristone 1 0.0 Modafinil 10 0.2 Morphinan 1 0.0 Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sidenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Menotropin	2	0.0
Methylphenidate 38 0.9 Mifepristone 1 0.0 Modafinil 10 0.2 Morphinan 1 0.0 Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		99	2.4
Mifepristone 1 0.0 Modafinil 10 0.2 Morphinan 1 0.0 Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		38	0.9
Modafinil 10 0.2 Morphinan 1 0.0 Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		1	0.0
Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		10	0.2
Nicotine 1 0.0 Opiates 724 17.9 Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Morphinan	1	0.0
Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		1	0.0
Ovulatory Stimulants 5 0.1 Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Opiates	724	17.9
Phenylmorpholine 6 0.1 Potassium Cyanide 4 0.1 Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2			0.1
Psychedelic 281 7.0 Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2		6	0.1
Research Chemicals 13 0.3 Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Potassium Cyanide	4	0.1
Sedatives 20 0.5 Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Psychedelic	281	7.0
Sibutramine 2 0.0 Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Research Chemicals	13	0.3
Sildenafil 38 0.9 Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Sedatives	20	0.5
Smokeless Tobacco 1 0.0 Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Sibutramine	2	0.0
Steroids 266 6.6 Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Sildenafil	38	0.9
Stimulant 38 0.9 Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Smokeless Tobacco		
Thienodiazepine 22 0.5 Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2			
Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2			
Triiodothyronine 2 0.0 Venom 28 0.7 Weight Loss Pills 10 0.2	Thienodiazepine		
Weight Loss Pills 10 0.2	Triiodothyronine		
		28	
Total 4,042 100	Weight Loss Pills		0.2
	Total	4,042	100