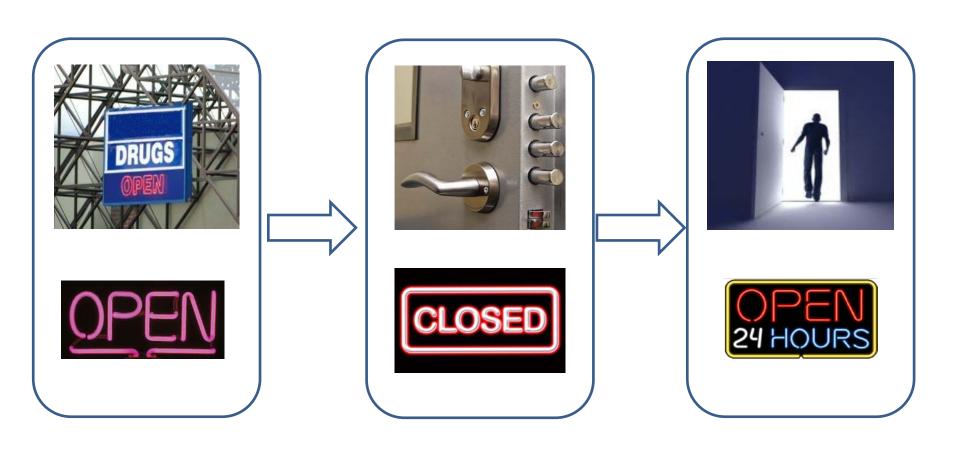
Dealers in Disguise:

The virtualisation of retail level drugs markets

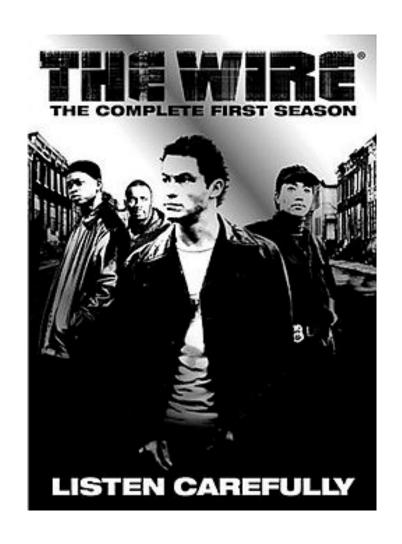
Judith Aldridge (University of Manchester)

Majid Yar (University of Hull)

The argument



Open drugs markets

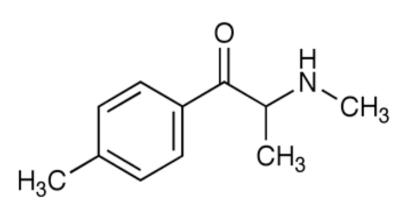




Closed drugs market



To: derek Need more drugs? Send PS: I'm totally not a cop! QWERTYUIOP A S D F G H J K L ZXCVBNM





Mephedrone: *Mcat, Meph, Drone, Meow*

The sales and purchasing of mephedrone in the year prior to criminalisation



Clastonbu

Advertised high purity, cost £10-15g

Dose 100-200mg, 1-2g per session

Rapid spread 2009 festival season; then 1st year university students in halls









China

Eastern Europe

India

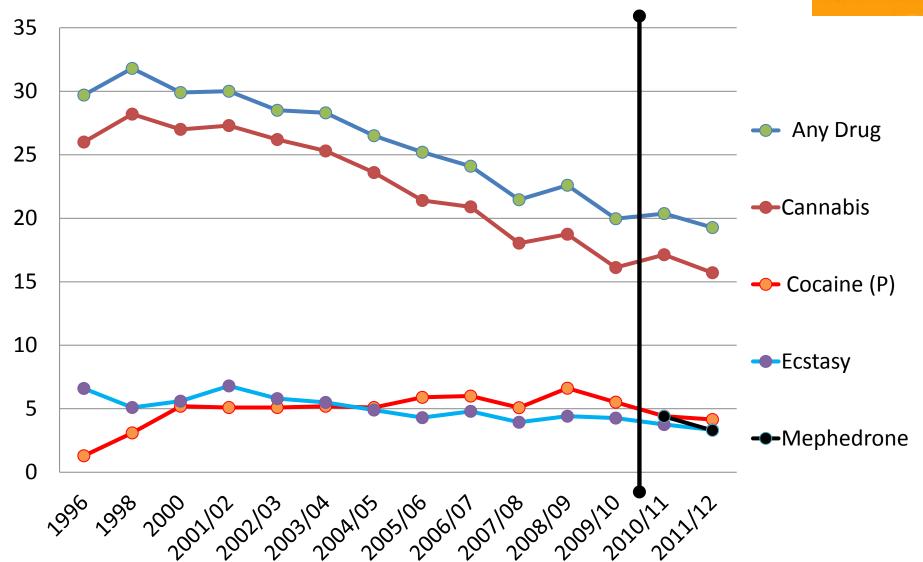
Mephedrone effects

 Desired: euphoria, increased energy, alertness, empathy, wellbeing, 'rushing', confidence, increased libido, improved mood, talkativeness

 Undesired: nausea/vomiting, headaches, teeth grinding, skin rashes, excessive sweating, anxiety/panic attacks, hallucinations, insomnia, psychosis, racing heartbeat, chest pains, vasoconstriction, nose burns

% of 16 to 24 year olds reporting past year use of the drugs 1996 to 2011/12 Crime Survey for England and Wales (formerly BCS)





Mephedrone 'dealers' in student halls of residence: why?



Mephedrone markets research: results (Aldridge & Askew early 2010)

Who were the sellers?

- Entrepreneurialism, diffusion, demand
- Early signs of:
 - A return to 'open' drugs markets
 - 'Virtual' drugs markets

Types of seller



Online sellers - 5

Specialist shops - 2

SHADOW TRADERS

High volume -

Low volume - 7

Opportunitistic - 8

Under the Counter - 2

	Age	User	Illegal	Weekly	Price sold
			drugs sold	sales (g)	(g)
LEGITIMATE TRADERS					
Online					
Ed	25	Yes	no	3000	£15
Dave	32	Yes	no	160,000	£11
Kieran	36	Yes	no	140	£15
Specialist shops					
Ben	30	Yes	no	400	£20
Guy	38	Yes	no	50	£20
SHADOW TRADERS					
High volume (100g+ weekly)					
Nick	27	Yes	yes	500	£15
Ryan	22	Yes	yes	220	£10
Marissa	21	Yes	yes	500	£15
Low volume (< 100g weekly)					
Leon	21	Yes	Yes	30	£15
Ricky	24	Yes	No	50	£30
Rachel	37	Yes	No	15	£15
Paul	18	Yes	Yes	7	£20
Opportunitistic sellers					
Gabrielle	20	Yes	No	-	£40
Scarlett	20	Yes	Yes	-	£15
Under-the-counter in shops					
The Newsagent	50	No	Yes	170	£15
The Poundshop	61	No	No	50	£15

Entrepreneurialism & diffusion

The 'Re-opening' of drugs markets

Right here, right now: Mcat parties

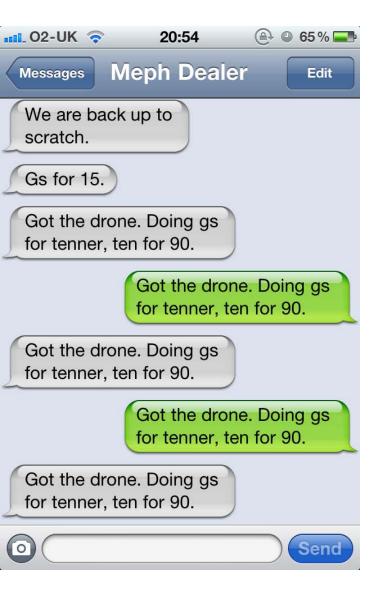




Helping sellers stay awake??



SMS: adverts v hassle





New sellers: diffusion

	Mean £	Mean £/g
1 g	11.04	11.04
2 g	19.50	9.75
5 g	47.06	9.41
10 g	82.81	8.28
20 g	156.04	7.80
25 g	180.12	7.20
50 g	327.95	6.56
100 g	591.42	5.91
200 g	1039.16	5.20
250 g	1189.99	4.76
500 g	1599.99	3.20
1000 g	3057.14	3.06

Diffusion

- Mephedrone deaths:
 - good news for sales??

The Telegraph



UK News

Police investigate deaths of two teens linked t mephedrone

A legal drug linked to the deaths of two teenage friends should be b immediately, campaigners have said.



Nicholas Smith, 19 and Louis Wainwright, 18 died after a night out. Police linked their deaths to the legal drug mephedrone Photo: PA



By Nick Britten, and Tom Whitehead 5:36PM GMT 16 Mar 2010

What features of the (legal) mephedrone trade encouraged me to think about the virtualisation of drugs markets?

- Online sales
 - 'First' for a strong stimulant (and popular) drug
 - Online sales of large quantities at cheap prices encouraged new sellers into the market
- Move from closed to open markets
 - Extending customer base proactively
 - Mephedrone parties
 - Flyering (windscreens) and business cards (buses) coincided with the period of mephedrone's biggest use

Dealers in Disguise: The Virtualisation of Retail Drugs Markets

- 1. Mobile phones and SMS text (but still mostly closed)
- 2. Websites: B2C and 'darknets' (e.g. Silk Road)
- 3. Social networking (Twitter, Facebook, online classifieds)
- 4. Internet forums (*Topix*)
- 5. Geo-social networking (*grindr*)

Authors: Judith Aldridge & Majid Yar (in preparation)

Darknets: Silk Road

arXiv.org > cs > arXiv:1207.7139

Search o

Computer Science > Computers and Society

Traveling the Silk Road: A measurement analysis of a large anonymous online marketplace

Nicolas Christin

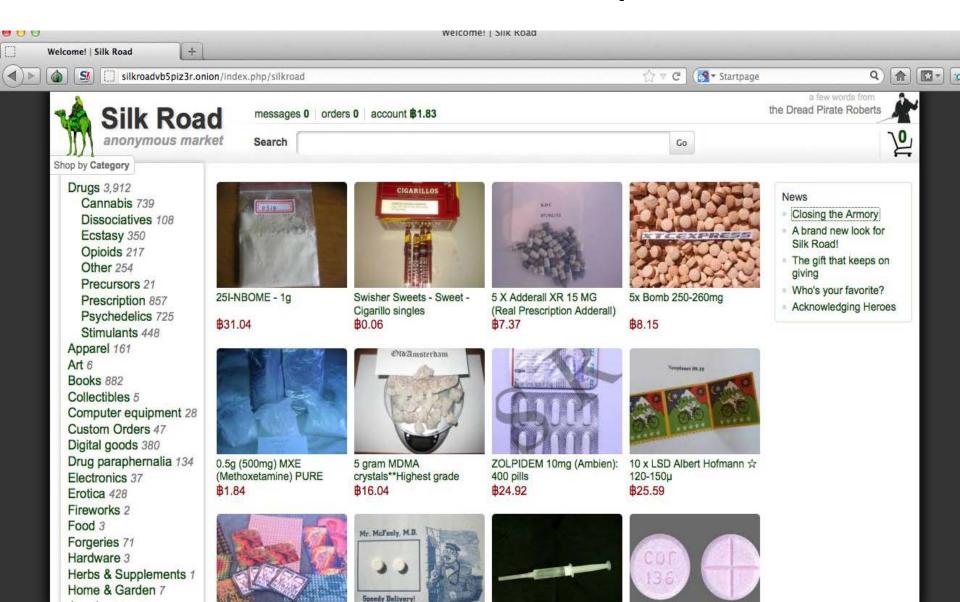
(Submitted on 31 Jul 2012)

We perform a comprehensive measurement analysis of Silk Road, an anonymous, international online marketplace that operates as a Tor hidden service and uses Bitcoin as its exchange currency. We gather and analyze data over eight months between the end of 2011 and 2012, including daily crawls of the marketplace for nearly six months in 2012. We obtain a detailed picture of the type of goods being sold on Silk Road, and of the revenues made both by sellers and Silk Road operators. Through examining over 24,400 separate items sold on the site, we show that Silk Road is overwhelmingly used as a market for controlled substances and narcotics. A relatively small "core" of about 60 sellers has been present throughout our measurement interval, while the majority of sellers leaves (or goes "underground") within a couple of weeks of their first appearance. We evaluate the total revenue made by all sellers to approximately USD 1.9 million per month; this corresponds to about USD 143,000 per month in commissions perceived by the Silk Road operators. We further show that the marketplace has been operating steadily, with daily sales and number of sellers overall increasing over the past few months. We discuss economic and policy implications of our analysis and results, including ethical considerations for future research in this area.

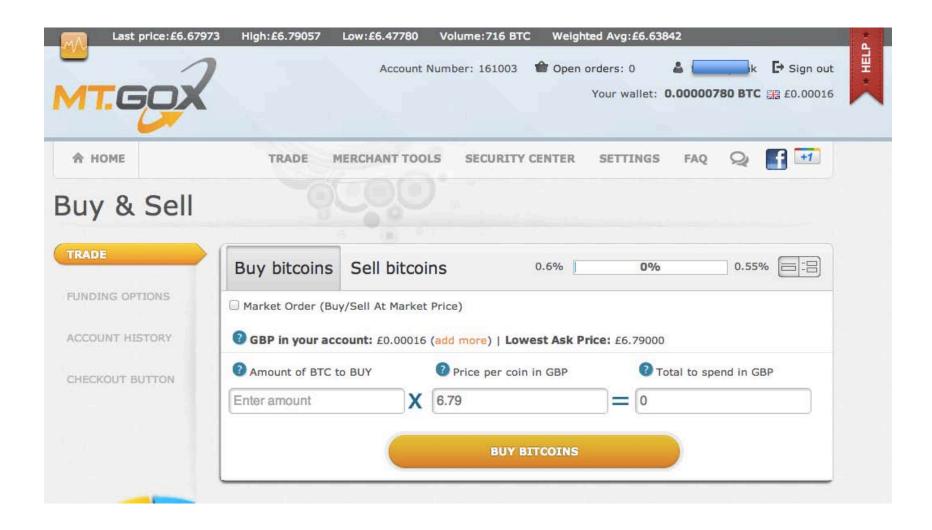
Comments: 24 pages, 13 figures, 4 tables

Commission and Continuous Commission and Consider

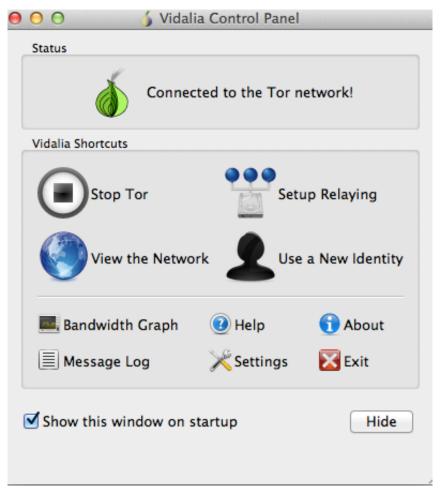
Silk Road marketplace



Bitcoin purchase: MT.GOX



Tor Browser: enables online anonymity



Article Talk Read Edit View hist

Tor (anonymity network)

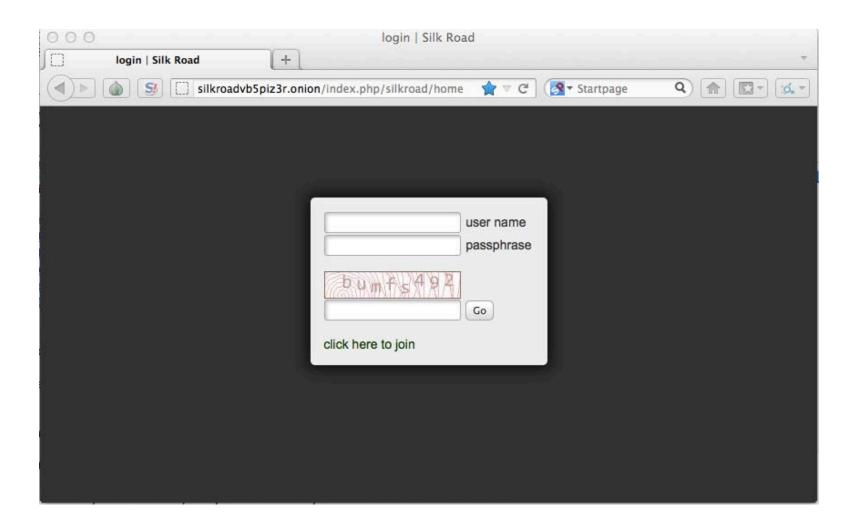
From Wikipedia, the free encyclopedia

Tor (short for The Onion Router)^[5] is a system intended to enable online anonymity. Tor client software directs internet traffic through a worldwide volunteer network of servers to conceal a user's location or usage from anyone conducting network surveillance or traffic analysis. Using Tor makes it more difficult to trace Internet activity, including "visits to Web sites, online posts, instant messages and other communication forms", back to the user^[6] and is intended to protect users' personal freedom, privacy, and ability to conduct confidential business by keeping their internet activities from being monitored.

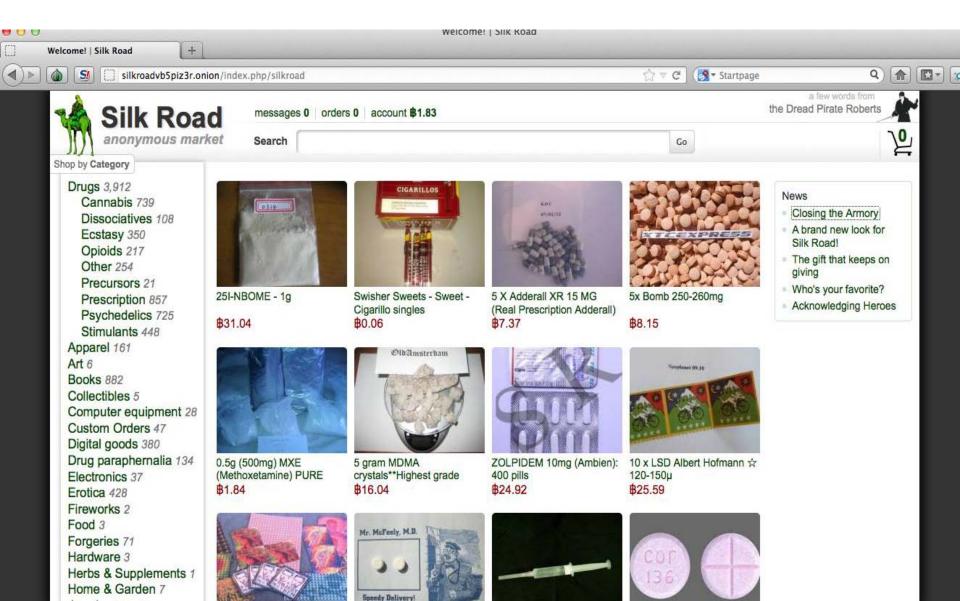
"Onion Routing" refers to the layered nature of the encryption service: The original data are encrypted and re-encrypted multiple times, then sent through successive Tor relays, each one of which decrypts a "layer" of encryption before passing the data on to the next relay and, ultimately, its destination. This reduces the possibility of the original data being unscrambled or understood in transit.^[7]

The Tor client is free software and use of the Tor network is free of charge.

Silk Road login page



Silk Road marketplace



Like ebay: customer feedback



bookmark this item

postage options:

Worldwide tracked (\$0.65)

Description

For sale we have 10 x Orange Star Very high MDMA content 180mg. These are one of the best pills around at the moment.

This item will be shipped the next day for free using a tracked service in secure packaging.

Please view our info page for more info including our reship/refund policy.

Unfortunately we cannot ship to Australia at this time.

Any questions dont hesitate to send us a message here and we will get back to you asap.

All payments will be through silk road using bitcoins.

Customer reviews

rating	review	freshness
5 of 5	Received after extension. All pills intact, bubble wrapped, no vac seal but sent stealth with printed labels. Will update once tried.	5 days
5 of 5	Arrived swiftly and safely. Excellent pills, very powerful!	9 days
5 of 5	Super quick delivery, and excellent quality.	15 days
5 of 5	Excellent product, thank you	15 days
5 of 5	All good. Quick turn around, decent packaging, excellent product.	22 days

Christin (2012)

Origin		Acceptable destinations		
Country	Pct.	Country/Region	Pct.	
U.S.A.	43.86%	Worldwide	49.70%	
Undeclared	16.28%	U.S.A.	35.13%	
U.K.	10.14%	European Union	6.19%	
Netherlands	6.51%	Canada	6.04%	
Canada	5.91%	U.K.	3.65%	
Germany	4.50%	Australia	2.87%	
Australia	3.19%	World. excpt. U.S.A.	1.39%	
India	1.22%	Germany	1.03%	
Italy	1.02%	Norway	0.70%	
China	0.97%	Switzerland	0.61%	
Spain	0.93%	New Zealand	0.57%	
France	0.82%	Undeclared	0.26%	

Table 2: Top 12 most frequent shipping origins (left), and acceptable shipping destinations (right).

Certain sellers ship to multiple destinations, hence the rightmost column totals more than 100%.

B2C (ordinary online shops)

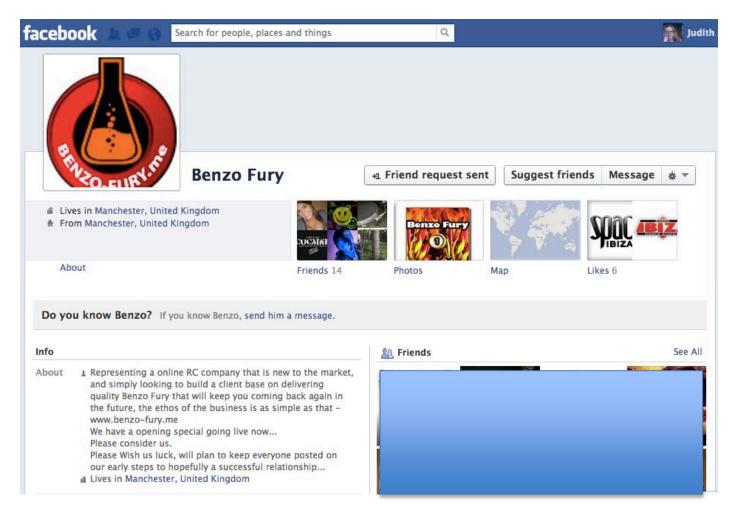
- Online retailers of 'legals highs'
 - Bring new dealers into the market after first personaluse purchase
- 'Virtual pharmacies'
 - Allows customers without a valid prescription to make purchases
 - Global aspect allows buyers and sellers to skirt local regulations on sales of particular drugs
 - E.g. some drugs only licensed in some countries

Social networking

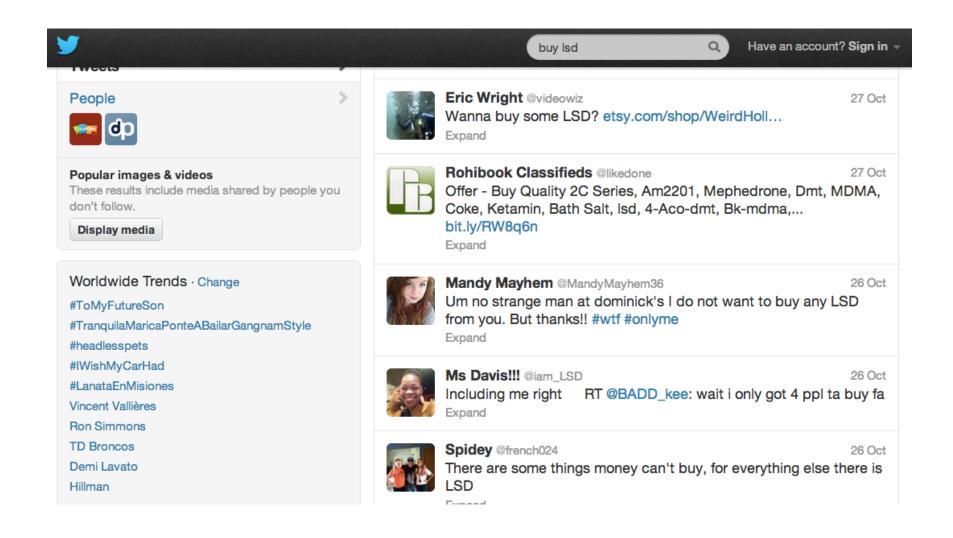
- Facebook was used for selling mephedrone
 - Currently 'benzo fury' (popular 'legal')

- Twitter
 - Linked to online classifieds

Facebook: storefront page for 'benzo fury' sales (legal)



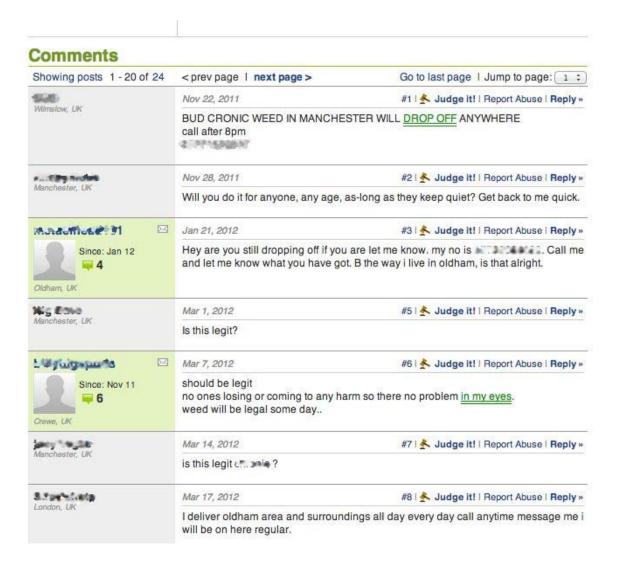
Twitter search 'buy LSD'



... link to online classified ad...

- http://soonclassified.com/health/beautyproducts/buy-quality-2c-series-am2201mephedrone-dmt-mdma-coke-ketamin-bathsalt-lsd-4-aco-dmt-bk-mdma-a-pvp-mdpv-etc-6344.htm?utm_source=twitterfeed&utm_me_ dium=twitter
- Also: craigslist

P2P Internet forums: 'Topix'

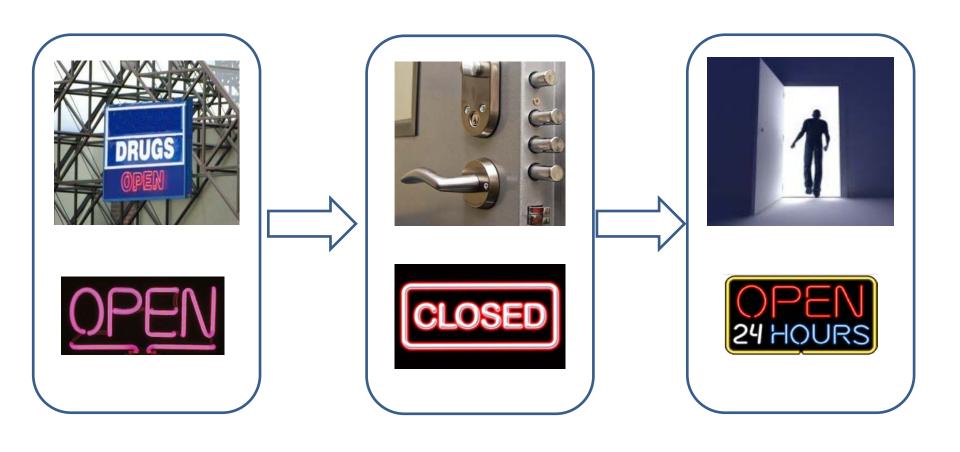


P2P platforms: grindr





The argument



Contacts and Papers

- 1. 'Dealers in Disguise: The Virtualisation of Retail Drugs Markets'
 - Judith Aldridge (<u>judith.aldridge@manchester.ac.uk</u>)
 - Majid Yar (<u>m.yar@hull.ac.uk</u>)

- 2. 'The Year of the Cat': the UK Mephedrone Market in the Year Prior to Prohibition
 - Judith Aldridge
 - Rebecca Askew (<u>Rebecca.Askew@manchester.ac.uk</u>)