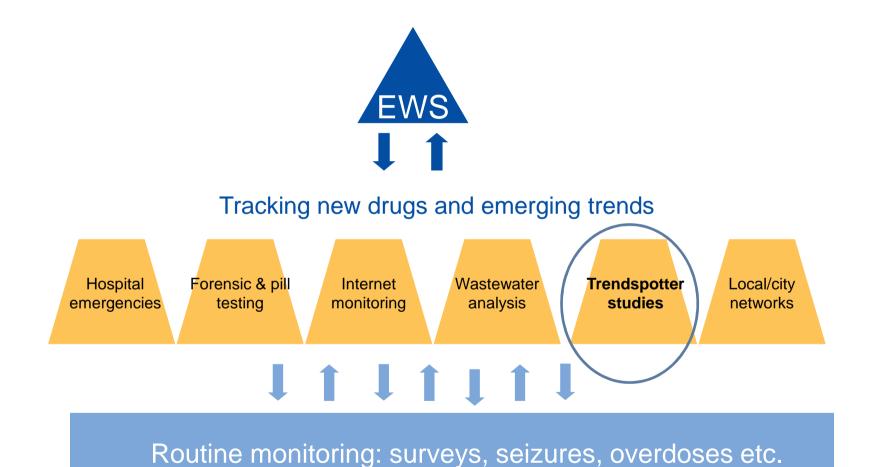


# Trendspotting in Europe: taking a multidimensional view of emerging drug trends and threats

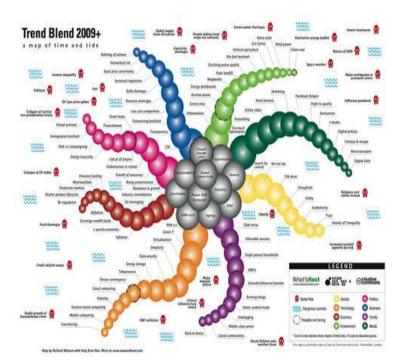
Jane Mounteney
EMCDDA
GPS meeting, June 2017

# New tools in the monitoring toolkit



# Trendspotter studies — concept

- In depth information gathering
- On subject of concern, uncertainty
- To fill gaps and complement
- More timely and rapid reporting



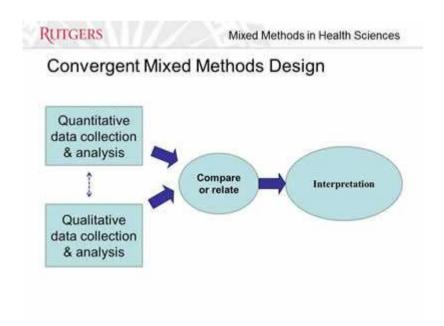


# Trendspotter methodology

Draws on mixed methods approaches and rapid assessment methodologies

Multi-source, multi-method, triangulation:

- Literature review
- Data collection
- Electronic survey
- Expert presentations
- Focus groups
- Social media



# Trendspotter study process

Phase 1 Phase 2 **EMCDDA** data **Expert** collection, presentations literature review x15 & **EMCDDA** Report Electronic Focus/ survey discussion Network survey groups Social media



# Study analysis – trend confirmation

d	Α	R	U	U	L F	F	l G	н		J	K	L	M
1		RECENT (2 years) CHANGES IN THE ECSTASYIMDMA MARKET - for EMCDDA data 4 years interval can be used											
2		SUPPLY					USE			HARMS		TREATMENT	
3	Country	Availability	Seizures (Number)	Seizures (Amount)	Purity	Production	Online market	GPS	Special population		Non-fatal intoxications (including emergency cases, eg. Euro-DEN data)	Number of deaths	Clients in specialized treatment
4	Belgium												
5	EMCDDA			4 4					2	4			
7	expert expert	F			•	F		4	3		4	3	
8	expert		;		F	: 5			4		5	4	
9	Netherlands		4			,		7	т			7	
10	EMCDDA						<del> </del>	1		5			
11	expert		5		Don't know	5	. 5	4	3		5	3	
12	expert		5		3	5		4	Don't know		3	4	
13	expert	4	1				5	4	4		4	Don't know	
14	Spain												
15	EMCDDA		ţ	5 .	5			3		3			
16	expert	3	3			5	_	3	3		Don't know	Don't know	
17	expert	4			4	5	5	4	4		4	2	
18	NFP			-		3		3			4	3	
19 20	France EMCDDA							E		2			
21	expert	4	1		, F	5 5	5	4	4		Don't know	4	
22	NFP	F			F	3		5	Don't know		4	4	
23	Portugal							·	E-E-77 17177-17				
24	EMCDDA												
25	expert	4	1		4	ļ	5	4	4		3	4	
26	NFP	4	1		3	3							
	United Kingdom												
28	EMCDDA							4		4			
29	expert	Ę	5			5	3	4	4		4	4	
	Turkey				-								
31	EMCDDA		•	-		_						_	
32	Norway expert		2		3	5						5	
34	EMCDDA			1			-			E			
35	expert		5	•	, F	5 5		Don't know	Don't know		Don't know	Don't know	
36	NFP	4			4							3	
37	Croatia												
38	EMCDDA		į	5	ı					5			
39	NFP	4	1		4	3					Don't know	3	
	Austria												
41	EMCDDA			5									
42	NFP	4	1		4			3	3		Don't know	3	

2011: Heroin shortages in Europe

2012: Fentanyl outbreaks in Europe

2013: Methamphetamine availability, use and harms

2014: Internet and drug markets

2015: MDMA market changes

2016: NPS and high risk drug use





# **MDMA** market changes



#### **Rationale:**

Signs of increased availability, use, high purity & adulterated tablets, harms and deaths.

#### Study objective:

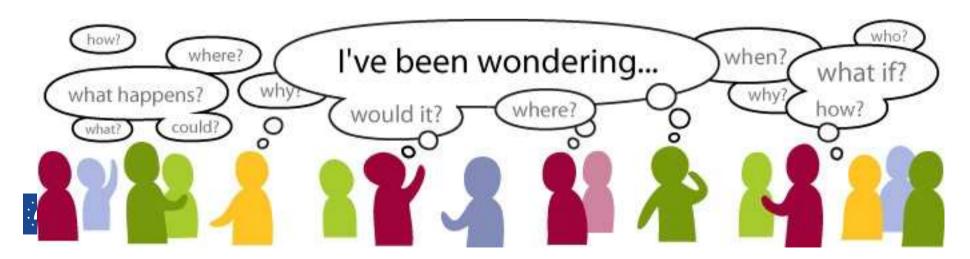
- Increase our understanding of recent changes in the MDMA/ecstasy market in Europe
- Levels and patterns of use; products and supply; harms and deaths.
- Identify implications for responses and monitoring.



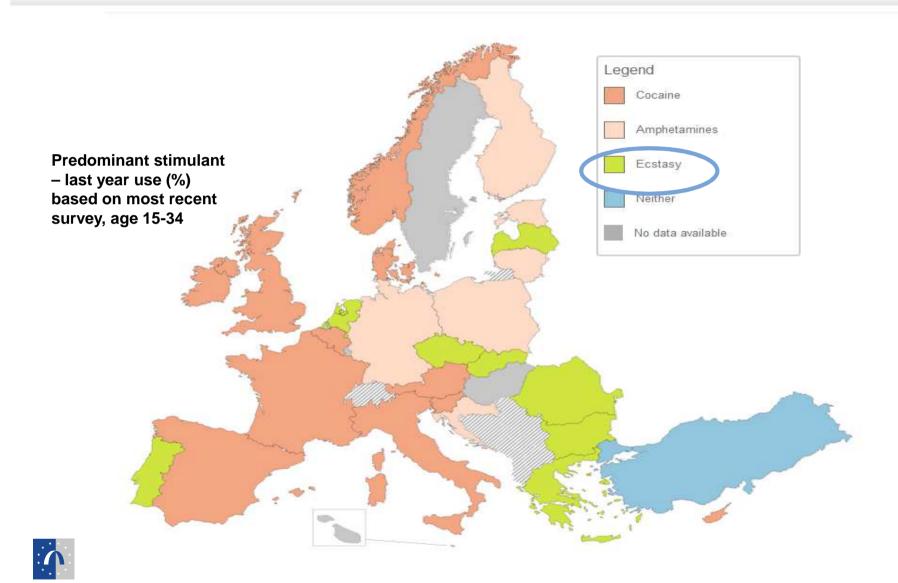
# **MDMA** experts

- Outreach/festival services
- Law enforcement/ forensics
- Pill checking
- Wastewater monitoring Drug-related deaths

- **Ethnographers**
- City-level/local monitoring
- **Emergency room** data



### Regional differences in preferred stimulants used

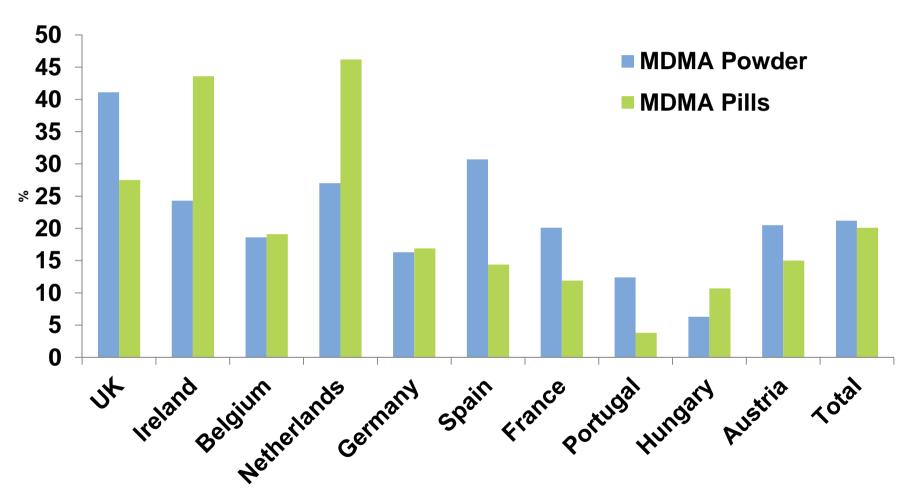


# MDMA use: higher in targeted surveys

	% LYP	% GPS
Lithuania (nightlife visitors)	2.4	0.3
Slovakia (university students)	3.2	0.9
Frankfurt (MOSYD)	4	0.9 (Germany)
•••		
Global Drugs Survey	36.6	-



# Type of MDMA preparation varies





(GDS 2015)

# MDMA – range of products

#### **Tablets**

contain binders/fillers, normally microcrystalline cellulose

#### **Crystals**

translucent white - brown; coarse structure - not adulterated

#### **Powders**

(finely crushed crystals) white with a "crystalline" shimmer; used orally by "dabbing" – may be adulterated

...capsules may contain crystals or powders

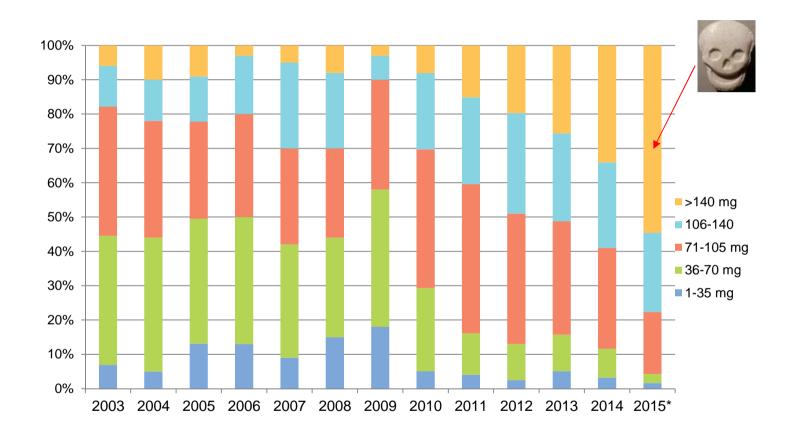








# Increase in % MDMA content in pills (DIMS)





# Alerts – both tablets with high MDMA content, and containing PMMA



#### **PMMA**

#### (ParaMethoxyMethylAmphetamine)

PMMA is a Class A drug which is known to be circulating in Scotland. It is a very toxic stimulant and has been found in tablets that may look like ecstasy and 'legal highs'.

Since last summer, PMMA has been responsible for 19 deaths on the European mainland.

From forensic analysis, we know that PMMA is present in pink tablets with a Rolex Crown logo and white tablets with a four-leaf clover logo. Some products claiming to be 'legal highs' have also been found to contain PMMA – see images. We know that PMMA has been identified in powder form too and it is possible that PMMA will be present in many other illicit products and tablets with other logos.

The stimulant effects of PMMA are not as potent as MDMA (ecstasy) so users may feel inclined to take more, thereby increasing the risk of a fatal overdose.

Users are strongly advised to avoid the products listed.

For information and advice about drugs and their risks visit: www.knowthescore.info or ring KtS free on 0800 587 587 9

22<sup>st</sup> July 2011

Rolex tablets  Courtesy of the Norwegian Focal Point	
Four-leaf clover tablets  Courtesy of the Netherlands Forensic Institute	
'E=XTC'	EXIC S
'Mind Candy'	
'Xtacy ULTRA'	TAILLE CO
'Doves Red'	White tablets - No image
'Doves Red Ultra'	Grey tablets - No image

# Regional differences in purity

#### INCREASE- NL, BE, FR, UK

- $\blacksquare$  60-100 mg (2012/13)  $\rightarrow$  150-200 mg (2014/15)
- 100 mg (2013) → 125 mg (2015)
- 50-80 mg (90s) → 125 mg (now)
- 'Super pills' 278 mg -341 mg

#### No change or decreases- LV, LT

Location specific?? Different sources of supply?





Source: saferparty.ch



# Presentations with Acute MDMA Toxicity to 16 Euro-DEN Centres in 10 European Countries Oct 2013 - Dec 2014

Cathelijne Lyphout, David Wood, Alison Dines, Paul Dargan

Isabelle Giraudon presenting on Behalf of the Euro-DEN Plus Steering Group



### Conclusions

- MDMA involved in ~ 8% of acute drug toxicity ED presentations to Euro-DEN Centres
  - Significant variation around Europe
- Typically male individuals in mid 20s
- Moderately severe toxicity with stimulant pattern
  - ->30% agitation, 10% chest pain
- Most patients discharged from ED within 12 hours
  - 5% critical care
  - − ~3% hyperthermia: poorer outcome







# **MDMA** production trends

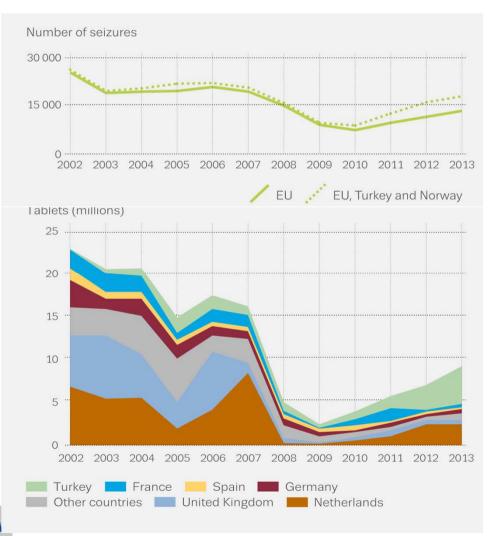
- Availability of new pre-precursors driving the trend
- Labs getting bigger and more professional
- OCGs operating precursor supply, production and MDMA smuggling
- Europe continues to be the main source of MDMA supply worldwide, production sites in NL and BE







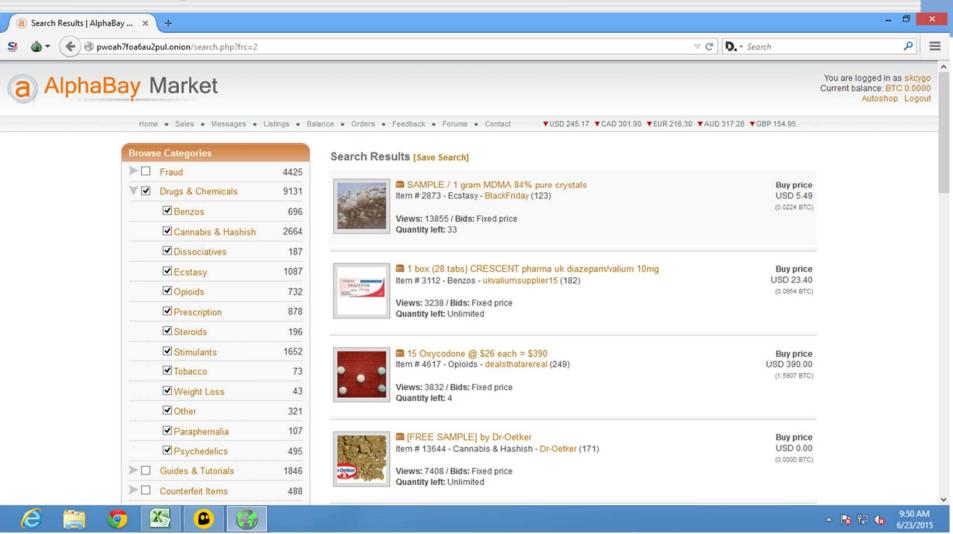
# MDMA market: evidence of recovery







# MDMA purchases on dark net markets

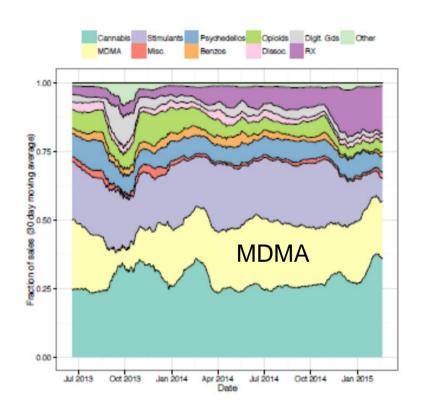


One of the most commonly purchased drugs through darknet markets

\* \*

41

#### MDMA sales on DNM



- MDMA represents approx 25% of market demand 16 DNM (2013-15) (Soska and Christin, 2015)
- 45% of MDMA annual revenue on Silk Road generated by highpriced listings – suggesting transactions at the middle to wholesale level.

(Aldridge and Decary-Hetu 2014)

Figure 7: Fractions of sales per item category.



# MDMA market recovery and consolidation

- Increases in prevalence, novice users, higher MDMA content in products
- MDMA less linked to specific sub-cultures and settings use becoming normalised in some populations
- 2014 may represent peak year for high purity pills (NL, UK)
- Picture is not uniform across Europe some temporal ripple effects as late comer countries catch up



# **MDMA-related harms – implications**

- Overall levels of serious acute harms appears to be low. However, with increased dose of MDMA in products, the relative risk of all users experiencing problems increases.
- Unstable purity/MDMA content is probably one of the greatest threats, with high variability of MDMA content in similar looking products.
- New generation of MDMA users may challenge our existing approaches to working with consumers and require a rethink in our nightlife interventions.



# **Next steps**

- Developing a handbook
- National pilots
- Online trendspotter network



# **EMCDDA Trendspotter Handbook**

# Report available at http://www.emcdda.europa.eu



