Vienna, 19 June 2019

World Drug Report 2019
Pre-release to Member States

Vienna, 19 June 2019
Global trends in the estimated number of people who use drugs and those with drug use disorders, 2006–2017

Source: UNODC, responses to the annual report questionnaire.
Note: Estimates of people who use drugs are for adults (aged 15–64) who used drugs in the past year.

Global trends in the estimated prevalence of drug use and drug use disorders, 2006–2017

Source: UNODC, responses to the annual report questionnaire.
Note: Estimated percentage of the annual prevalence of drug use is for adults (aged 15–64) who used drugs in the past year.
Impact of new data in global estimates

<table>
<thead>
<tr>
<th></th>
<th>2016 estimates</th>
<th>2017 estimates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual opiate users</td>
<td>19.4 ml</td>
<td>29.2 ml</td>
</tr>
<tr>
<td>Annual opioid users</td>
<td>34.3 ml</td>
<td>53.3 ml</td>
</tr>
<tr>
<td>People with drug use disorder</td>
<td>30.5 ml</td>
<td>35 ml</td>
</tr>
<tr>
<td>PWID</td>
<td>10.6</td>
<td>11.3 ml</td>
</tr>
</tbody>
</table>
Impact of new data in regional estimates

### Asia

<table>
<thead>
<tr>
<th></th>
<th>2016 estimates</th>
<th>2017 estimates</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Asia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual opiate users</td>
<td>-</td>
<td>13 ml</td>
</tr>
<tr>
<td>Annual opioid users</td>
<td>-</td>
<td>18.7 ml</td>
</tr>
<tr>
<td>Asia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual opiate users</td>
<td>11.2 ml</td>
<td>21.7 ml</td>
</tr>
<tr>
<td>Annual opioid users</td>
<td>13.6 ml</td>
<td>29.5 ml</td>
</tr>
</tbody>
</table>

### Africa

<table>
<thead>
<tr>
<th></th>
<th>2016 estimates</th>
<th>2017 estimates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual opiate users</td>
<td>2 ml</td>
<td>1.5 ml</td>
</tr>
<tr>
<td>Annual opioid users</td>
<td>2.2 ml</td>
<td>6 ml</td>
</tr>
</tbody>
</table>
Long-term trends in injecting drug use and HIV among people who inject drugs, selected countries, various years covering the overall period 1992–2017
PRISONS AND DRUGS

Use of any drugs during incarceration

31% at least once
19% past month
PRISONS AND DRUGS

Numbers of countries implementing interventions in at least one prison

- 56 Opioid-substitution therapy
- 11 Needle-syringe programmes
- 10 Both
TRENDS IN PRODUCTION AND INTERCESSIONS

Global cocaine manufacture and global quantities of cocaine seized, 1980–2018

Global opium production and global quantities of heroin and of opiates (in opium equivalents) seized, 1980–2018

- Cocaine manufacture (new conversion ratios)
- Cocaine manufacture (old conversion ratios)
- Cocaine seizures
- Opium production
- Heroin seizures
- Seizures of opiates in opium equivalents (based on a ratio of 7 kg of opium for 1 kg of morphine or heroin)
- Seizures of opiates in opium equivalents (based on a ratio of 10 kg of opium for 1 kg of morphine or heroin)
- Seizures of opiates in opium equivalents (based on a ratio of 13 kg of opium for 1 kg of morphine or heroin)
Internationally controlled drugs in 2018 and identified new psychoactive substances at the global level, 2005–2018 (cumulative)
Proportion of surveyed Internet users using drugs (in the past year) who purchased drugs over the darknet, 2014–2019, selected regions and subregions

Source: UNODC calculations, based on Global Drug Survey 2019 data: detailed findings on drug cryptomarkets. Available from Dr. Monica Barratt, Drug Policy Modelling Program, National Drug and Alcohol Research Centre, Australia.

Note: For Europe, the average is based on information from respondents in 22 countries; in Oceania, the average is based on information from respondents in Australia and New Zealand; in North America, the average is based on information from respondents in Canada and the United States; and in Latin America, the average is based on information from respondents in Brazil, Chile, Colombia and Mexico.
DARKNET: Consequences of shutdown of AlphaBay and Hansa markets in 2017 as reported by drug users (internet survey) in January 2018
OPIOIDS

Opiates
- Heroin, morphine, opium
- Codeine, hydrocodone, desomorphine, oxycodone, etc.

Synthetic Opioids
- Pharmaceutical opioids
  - Tramadol
- Fentanyl and its analogues
- Methadone, pethidine, pentazocine, fentanyl, etc.

Research Opioids

Under International Control
Global opioid crisis

Central, West and North Africa: non-medical use of tramadol
- Seizures: x14 from 2013 to 2017

North America: fentanyl, non-medical use of pharmaceutical opioids, heroin
- Death: x2 from 2013 to 2017
Drug use among secondary school students in Egypt, 2016

In Nigeria, 4.6 ml persons non-medical annual users of opioids (mainly tramadol)
Global quantities of pharmaceutical opioids seized, 2013–2017
Reported seizures, diversion and trafficking routes of tramadol (based on reported seizures), 2013-2017

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations. Dashed lines represent undetermined boundaries. The dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties. The final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined. A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Malvinas).
Opioid use in Chile

Non-medical use of pharmaceutical opioids, Chile, 2002–2016

Non-medical use of opioids by sex and age group, Chile, 2010 and 2016

Source: Chile, Ministry of the Interior and Public Security, Twelfth national study of drug use among the public of Chile, 2016 (Décimo Segundo Estudio Nacional de Drogas en Población General de Chile).
Opioid overdose deaths in Sweden, 2014-2017

Graph shows the number of opioid overdose deaths due to fentanyl, fentanyl analogues, and heroin from 2014 to 2017.
Identified new synthetic opioid receptor agonists, 2009–2017

Global quantities of fentanyl and its analogues seized, by region, 2010–2017

Just 4 countries reported seizures in 2013, 12 countries in 2016 and 16 countries in 2017.
Trends in availability of opioid analgesics for consumption, by region, 1994–2016
Diversion or illicit manufacturing of synthetic opioids for the non medical use market?

In North America, diversion of **Oxycodone**

**Fentanyl** illicitly manufactured

**Tramadol** manufactured and/or packaged for non medical market

**Codeine**?
Opium poppy cultivation and production of opium, 1998–2018*

[Graph showing opium production and cultivation trends from 1998 to 2018.]
Significant individual heroin seizures
January 2013–April 2019

Opiate use in Western and Central Europe, 2003–2017
Ranking of sedatives and tranquillizers in order of prevalence (based on national qualitative information), 2017

Source: UNODC.
Global cocaine manufacture and global quantities of cocaine seized, 2007–2017
Main cocaine trafficking routes as described by reported seizures, 2013–2017

Sources: UNODC. * A darker shade indicates a larger amount of cocaine being seized with the country as transit/destination. The size of the route is based on the total amount seized on that route, according to the information on trafficking routes provided by Member States in the annual report questionnaire, individual drug seizures and other official documents, over the period 2013–2017. The routes are determined on the basis of reported country of departure/transit and destination in these sources. As such, they need to be considered as broadly indicative of existing trafficking routes while several secondary routes may not be reflected. Route arrows represent the direction of trafficking: origins of the arrows indicate either the area of departure or the one of last provenance, end points of arrows indicate either the area of consumption or the one of next destination of trafficking. Therefore, the trafficking origin does not reflect the country in which the substance was produced. The main countries mentioned as transit or destination were identified on the basis of both the number of times they were identified by other Member States as departure/transit or destination of seizures, and the annual average amount that these seizures represent during the period 2013–2017. For more details on the criteria used, please see the Methodology section of this document. The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.
Benzoylcegonine (cocaine metabolite) found in wastewater in 78 cities in Europe, 2011–2018
Cocaine and “crack” cocaine use among secondary school students in Egypt and Morocco, by sex, 2016
Global quantity of amphetamine-type stimulants seized, 1998–2017
Distribution by substance of the average annual quantity of amphetamine-type stimulants seized, by subregion, 2013–2017

- Methamphetamine
- "Ecstasy"-type substances
- Amphetamine
- Other and non-specified ATS

Summary:
- North America: 77 tons
- Central America: 3 tons
- South America: 1 ton
- Caribbean: 3 kg
- East and South-East Asia: 61 tons
- Near and Middle East/South-West Asia: 32 tons
- South Asia: 2 tons
- Central Asia and Transcaucasia: 2 tons
- Western and Central Europe: 10 tons
- South-Eastern Europe: 5 tons
- Eastern Europe: 1 ton
- Oceania: 11 tons
- Africa: 6 tons
- Global: 211 tons
Quantity of methamphetamine seized in China and South-East Asia, 2013–2018
Reported seizures and trafficking routes of “captagon” tablets, 2013–2017
Quantities of amphetamines found in wastewater, in 80 cities in Europe, 2011–2018
Non-medical use of stimulants among secondary school students in 13 countries in the Caribbean, 2016

Quantities of recently controlled stimulant NPS seized (mephedrone and MDPV), 2010–2017

Source: UNODC, responses to the annual report questionnaire.
Cannabis seizures / trafficking

Global quantities of main cannabis products seized, 1998–2017

![Graph showing cannabis seizures over time]
Global trends in the quantity of cannabis herb seized and trends in cannabis trafficking, 2007-2017

Source: UNODC, responses to the annual report questionnaire
Global trends in number of cannabis users and qualitative information on trends in cannabis use, a 1998–2017

Source: UNODC, responses to the annual report questionnaire

*a The index is based on information of, on average, 74 countries per year over the period 2007–2017. Two points were given for “large increase”, 1 point for “some increase”, 0 for “stable”, -1 for “some decrease” and -2 for “large decrease”. For reference, if all countries had reported each year “some increase” in cannabis use over the period 2007-2017, the cannabis use perception index would have reached 811 points in 2017. For details on the perception index calculations, refer to the methodological annex, available in the online version of the present report.*
Diversification of cannabis products consumed in some jurisdictions that allow the non-medical use of cannabis

mainly cannabis flower
≤ 10% THC

cannabis flower
20% THC

edibles and others
up to 69% THC

two decades
2017

Based on Orens and others, “Market size and demand for marijuana in Colorado”.
### Trends in the number of users aged 18 and older and estimated quantity (tons) of cannabis flower consumed in Colorado, 2014–2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of past-year cannabis users (thousands)</th>
<th>Number of past-month cannabis users (thousands)</th>
<th>Quantities of cannabis consumed per year (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1,083</td>
<td>725</td>
<td>189.6</td>
</tr>
<tr>
<td>2016</td>
<td>988</td>
<td>689</td>
<td>190.2</td>
</tr>
<tr>
<td>2015</td>
<td>957</td>
<td>695</td>
<td>134.7</td>
</tr>
<tr>
<td>2014</td>
<td>824</td>
<td>603</td>
<td>121.4</td>
</tr>
</tbody>
</table>

Sources: Adam Orens and others, “Market size and demand for marijuana in Colorado: 2017 market update”, prepared for the Colorado Department of Revenue (Denver, Colorado, Marijuana Policy Group, August 2018); and United States, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, National survey on drug use and health – state level estimates of cannabis users.

Note: The United States Substance Abuse and Mental Health Services Administration reports prevalence among those aged 12 or older or 18 years or older; in this case the latter age category has been used as a proxy of number of cannabis users 21 years and older.
Global quantities of substances with hallucinogenic properties seized, expressed in kilogram equivalents, 1998–2017

Source: UNODC, responses to the annual report questionnaire
Distribution of quantities seized in doses

Source: UNODC, responses to the annual report questionnaire
Trend in global quantities of substances with hallucinogenic properties seized, expressed in doses, 1998–2017

Source: UNODC, responses to the annual report questionnaire