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CONTROL OF PRECURSOR CHEMICALS

**Presented at the Workshop on Control and Management of
Precursor Chemicals to the Chemical Stakeholders**

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1. Precursor Chemicals ?



- **These are legally** commercial in various industrial processes and consumer products such as medicines, cosmetics and flavorings.
- Due to the dual uses , they can be diverted and used in the **illegal** manufacture of **Narcotic** and **Psychotropic** substances,
- Some are used as a **Reagents, Solvents, Catalyst, Essential Chemical, Immediate precursor**



1. Precursor Chemicals – Use and Diversion Cases



Chemical	Legal Use	Illegal Use	Diversion Case
Acetic Anhydride (AA)	Manufacturer of aspirin, acetaminophen, plastics, perfumes, textiles, dyes, cigarette filters	Synthesis of Heroin	High grade Cashew Co.Ltd (Tanzania) smuggled 22 tones to Pakistan in 2016
Pseudoephedrine/Ephedrine	Strong nasal decongestants- used to manufacturer medicinal products against flu and allergies	Illicit synthesis of methamphetamine	Seizure and disposal of 10,000 za Codrill syrup after revealed that more than 6 kg of pseud. were diverted in the process.





1. Precursor chemicals – Diversion Case



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2. Controlled Precursor – International



Table I	Table II
Acetic anhydride	Acetone
N- Acetyl anthranilic acid	Anthranilic acid
4-Anilino-N-phenethylpiperidine (ANPP)	Ethyl ether (Diethyl Ether)
Tert-Butyl 4- (phenylamino) piperidine-1-carboxylate (1-boc-4-AP)	Hydrochloric acid (Hydrogen Chloride)
Ephedrine	Methyl ethyl ketone
Ergometrine	Bromine
Ergotamine	Sulphuric acid
Isosafrole	Toluene
Lysergic acid	
3,4-MDP-2-P methyl glycidate ("PMK glycidate")	
3,4-MDP-2-P methyl glycidic acid ("PMK glycidic acid")	
3,4 -Methylenedioxyphenyl - 2 -propanone	
Methyl <i>alpha</i> -phenylacetoacetate (MAPA)	
Norephedrine	
Norfentanyl	
A-Phenethyl-4-piperidone (NPP)	
Phenylacetic acid	
<i>alpha</i> -Phenylacetoacetamide (APAA)	

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2. Controlled Precursor Chemicals - International



Table 1

- Contain **most sensitive** substances, from which illicit drugs can be produced most easily,
- It contains the substances that are **readily convertible** to controlled drugs, and are subject to the strictest controls,

Table 2

- Covers bulk chemicals that can have different types of uses in the manufacturing process (solvents, reagents, impurity remover).





3.The use of Precursor Chemicals in Drugs: - Cocaine and Heroin



Semi-synthetic Drug: are subsequently modified chemically



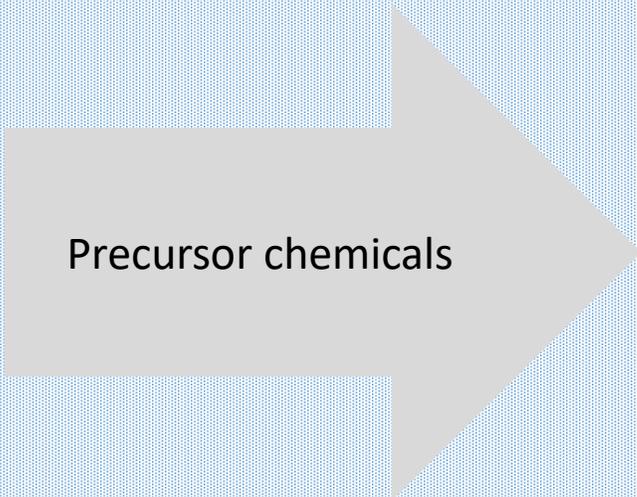
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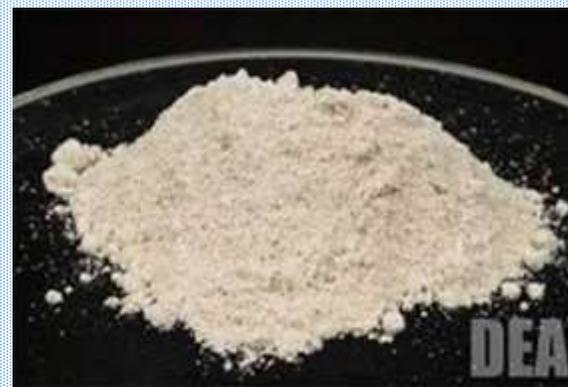
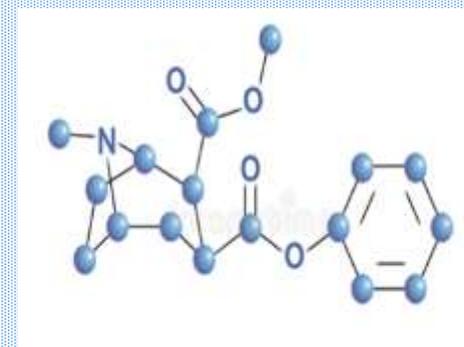
Erythroxylum coca



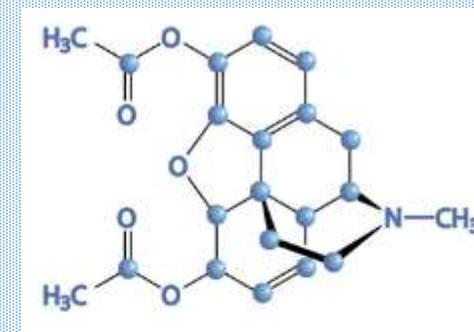
Papaver somniferous



Cocaine



Heroin



3.The use of Precursor Chemicals in Drugs: - Heroin



brown powder heroin



black tar heroin



Heroin liquid packets



white powder heroin





3.The use of Precursor Chemicals in Drugs: - Cocaine



Cocaine in various forms



Division of Inspection and Forensic Sciences - DIFS



3.The use of Precursor Chemicals in Drugs: - Synthesis

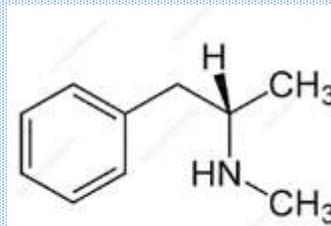


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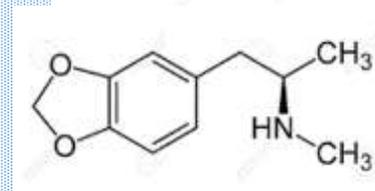
Precursor Chemicals



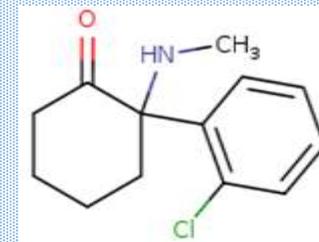
Methamphetamine



MDMA (Ecstasy)

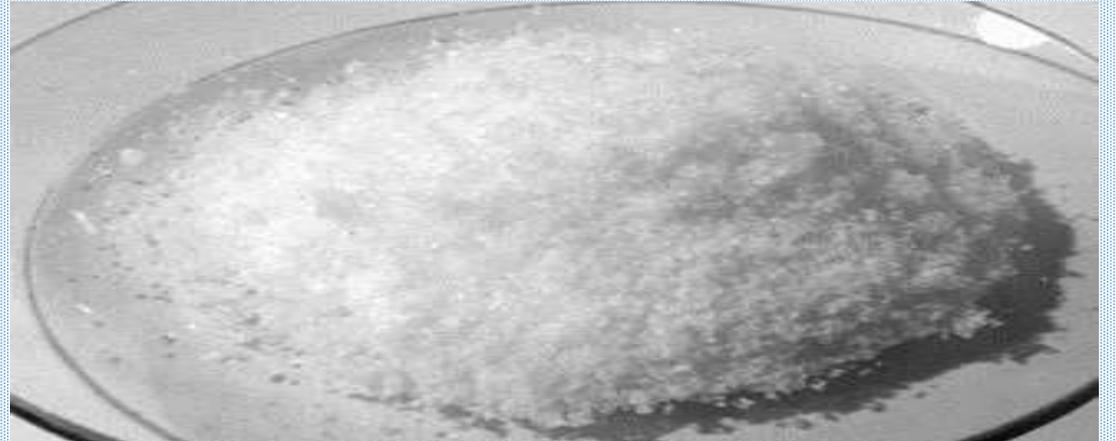


Ketamine (Special K)



NPS -
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3.The use of Precursor Chemicals in Drugs Synthesis- Pseudoephedrine





3.The use of Precursor Chemicals in Drugs Synthesis- Clan Lab

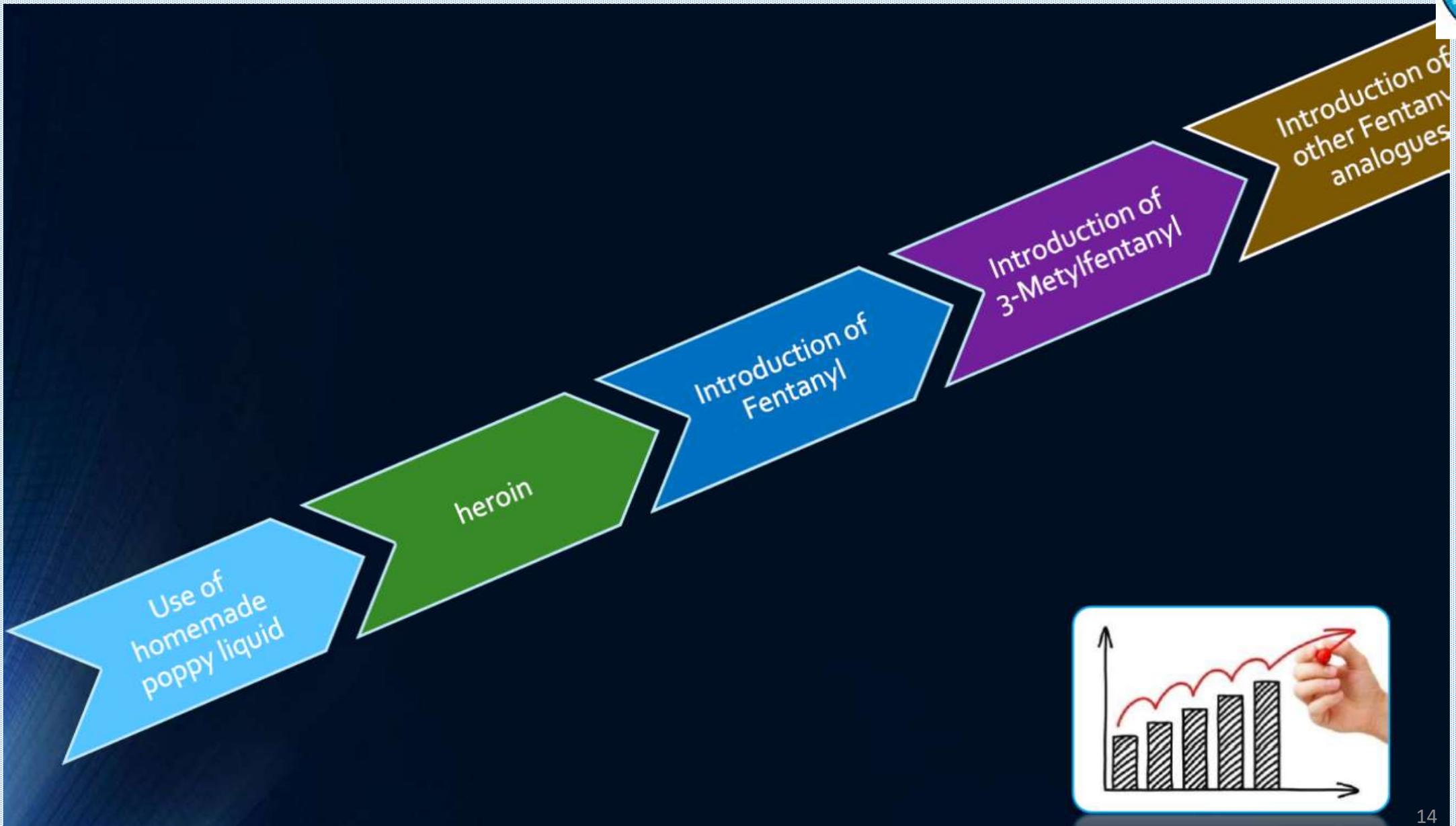


Division of Inspection and Forensic Sciences - DCEA





4. Challenges with New Psychoactive Substances



Director of Inspection and Control Services, DCEA

4. Challenges with New Psychoactive Substances (NPS)





5. Diversion of Precursor Chemicals



Areas of Diversions?

Legitimate Market

- Individuals
- Companies
- Manufacturers
- Legally sells distribute or use chemical

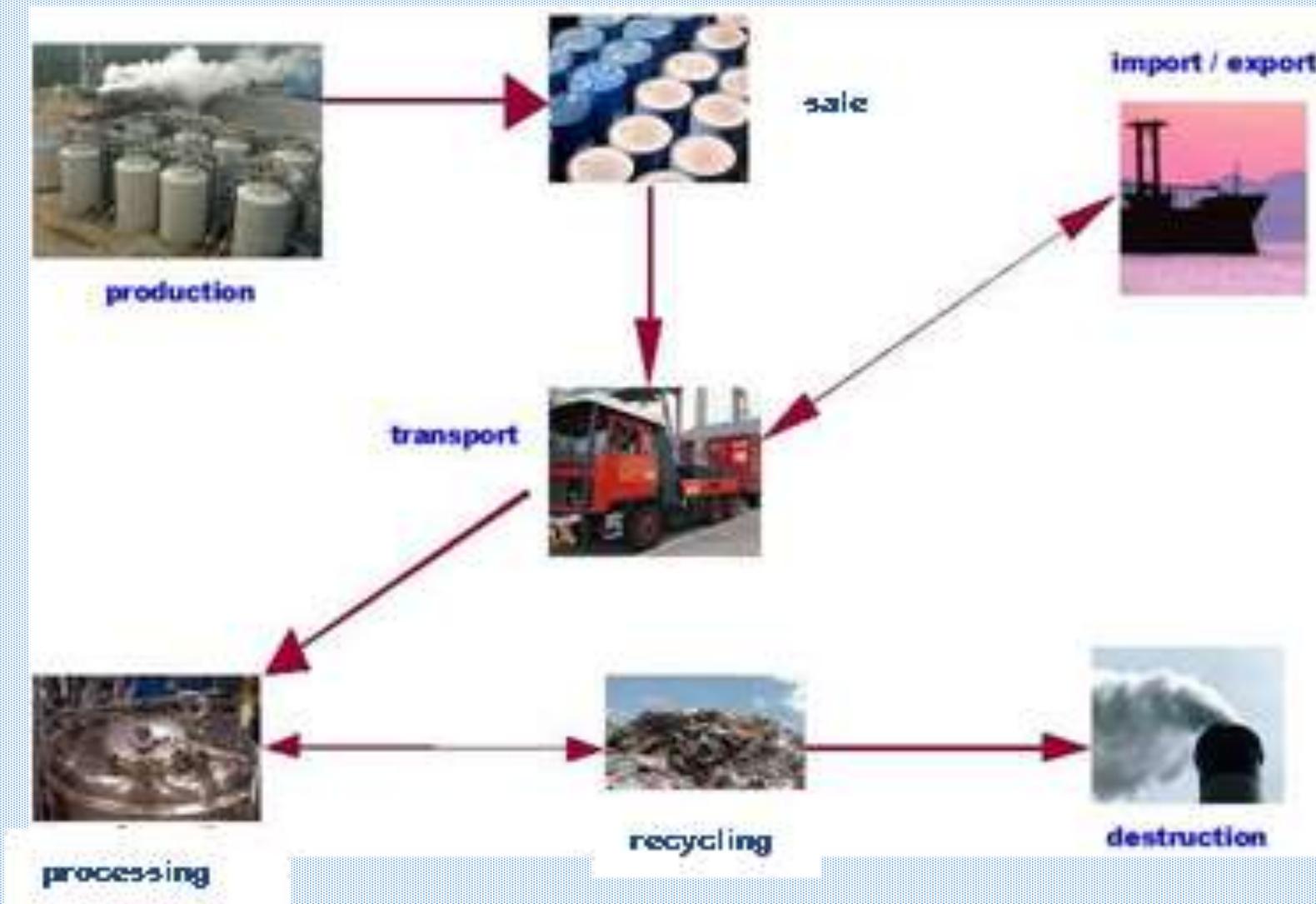
Black Market or Illicit Drug Industry

- Ghost Companies
- Individuals with false documentation
- Legitimate companies that sell excessive quantities to narcos





5. Diversion of Precursor Chemicals





5. Diversion of Precursor Chemicals



Common modus operandi of diversion can be:

- 1) **Pilferage** from lorries during transportation,
- 2) **Mis-declaration** of description during importation/exportation,
- 3) Use of **forged** Authorized documents (permits, Invoices, BL),
- 4) **Manipulation** of quantity in the documents,
- 5) Orders against **non-existent firms**,
- 6) Chemicals at **unregistered locations**,
- 9) **Cargo robbed** in transit between port and final destination,
- 10) Use of the name of a bonafide company but specifying **false contact address**





5. Diversion of Precursor Chemicals: Detecting the Diversion



□ Manufacturing Case-scenario : Mass balance



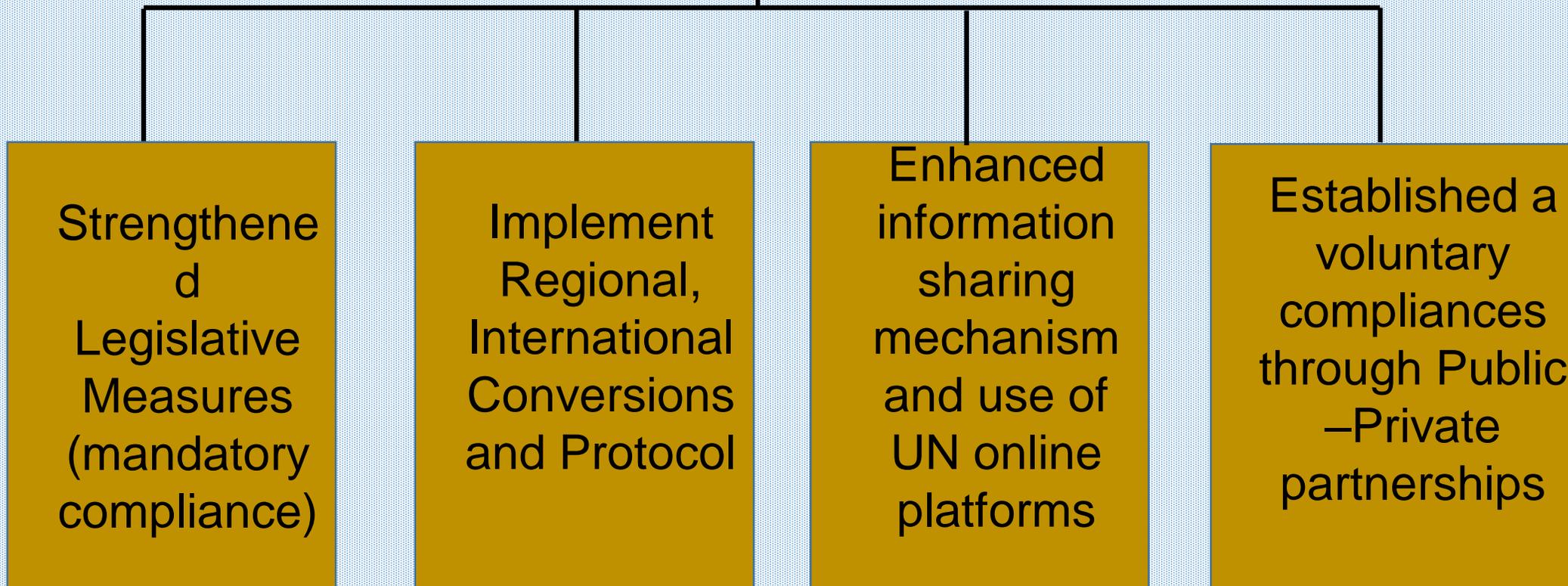
- Check for the **final products** (quantity/ volume)
- Request for the **manufacturing methods** (formulation)
- Compare the inputs vis a vis outputs
- Check quality assurance of the products



6. Diversion Preventive Measures



Strategies to prevent the
Diversion of Precursor
Chemicals in Tanzania





6. Diversion Preventive Measures



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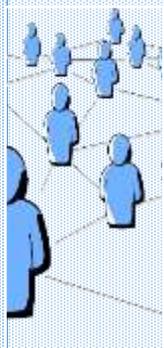
Legislative Measures

- › Compliances to the fullest



Implement Conversions and Protocol

- › Regional and International protocols and UN Conventions (1988)



Enhanced information sharing mechanism

- › Sharing of information among stakeholders,
- › Use of INCB platforms.



Public Private Partnerships (Voluntary compliance)

Private Sector should take part in preventing diversion

6. Diversion Preventive Measures: Legislatives



- Industrial and Consumer Chemicals (Management and Control, Act, CAP 182,
- The Drugs Control and Enforcement Act, (CAP 95),
- Tanzania Medicines, and Medical Devices Act, (CAP 219),
- Protocol on Combating Illicit Drug Trafficking (SADC), 1996
- Protocol on Combating Illicit Drug Trafficking in The East African Region (EAC), 2001
- African Union Plan of Action on Drug Control and Crime Prevention (AUPA), 2019-2023,
- United Nations Convention Against Illicit Traffic in Narcotic Drugs and Psychotropic Substances of 1988





7. Offences and Penalties

Section 15 (b) and 15A of the DCE Act prohibits illegal possession, trafficking, manufacturing, and diversion or dealing in any way with precursor chemicals or any substance with drug-related effects or used in the process of manufacturing drugs. The section narrates the offences and penalties of:

- 30 years imprisonment for trafficking precursor chemicals of 100 Litres or below (liquid form) or 100 Kg or below (solid form),
- Life imprisonment for the trafficking of precursor chemicals above the quantity prescribed in section 15A,
- Section 29(1) (C) illustrates unbailable offences for trafficking precursor chemicals weighing 30 Kg or more (solid form) or measuring 30 Litres or more (liquid form).



***Thank you for your
attention***

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