

# Development of an Integrated Drug Early Advisory System (IDEAS) to collate drug-related data in Aotearoa New Zealand

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# PHF Science



Health  
Security



Forensics



Waste  
Water

Drug  
Chem

Clan  
Labs

Tox

Pharma

WDT

Border  
Lab

# IDEAS - Integrated Drug Early Advisory System



- Remove internal silos
- Integrate data streams
  - Alert
  - Monitor
  - Temporal spatial intelligence



# IDEAS - Integrated Drug Early Advisory System



- SME + BI collaboration
  - System requirements
  - Data sources
  - Common language database
  - Key visualisations
  - Alert functionalities
- Goal
  - Unified, searchable repository of drugs data
  - Alert and visualisation tool supporting national drug harm reduction



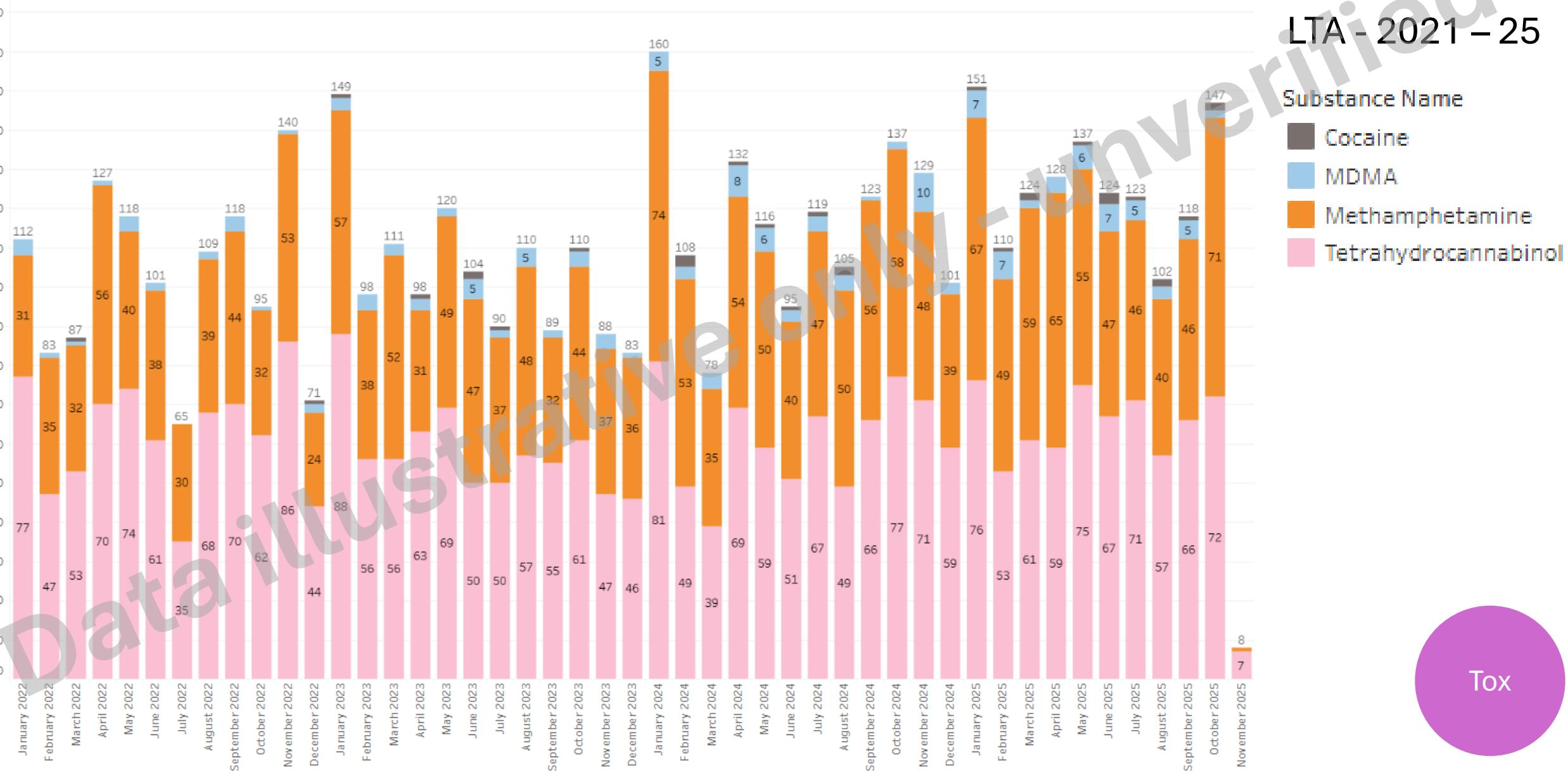
# Please note - Sandbox

- UAT data
- WIP
- Validation



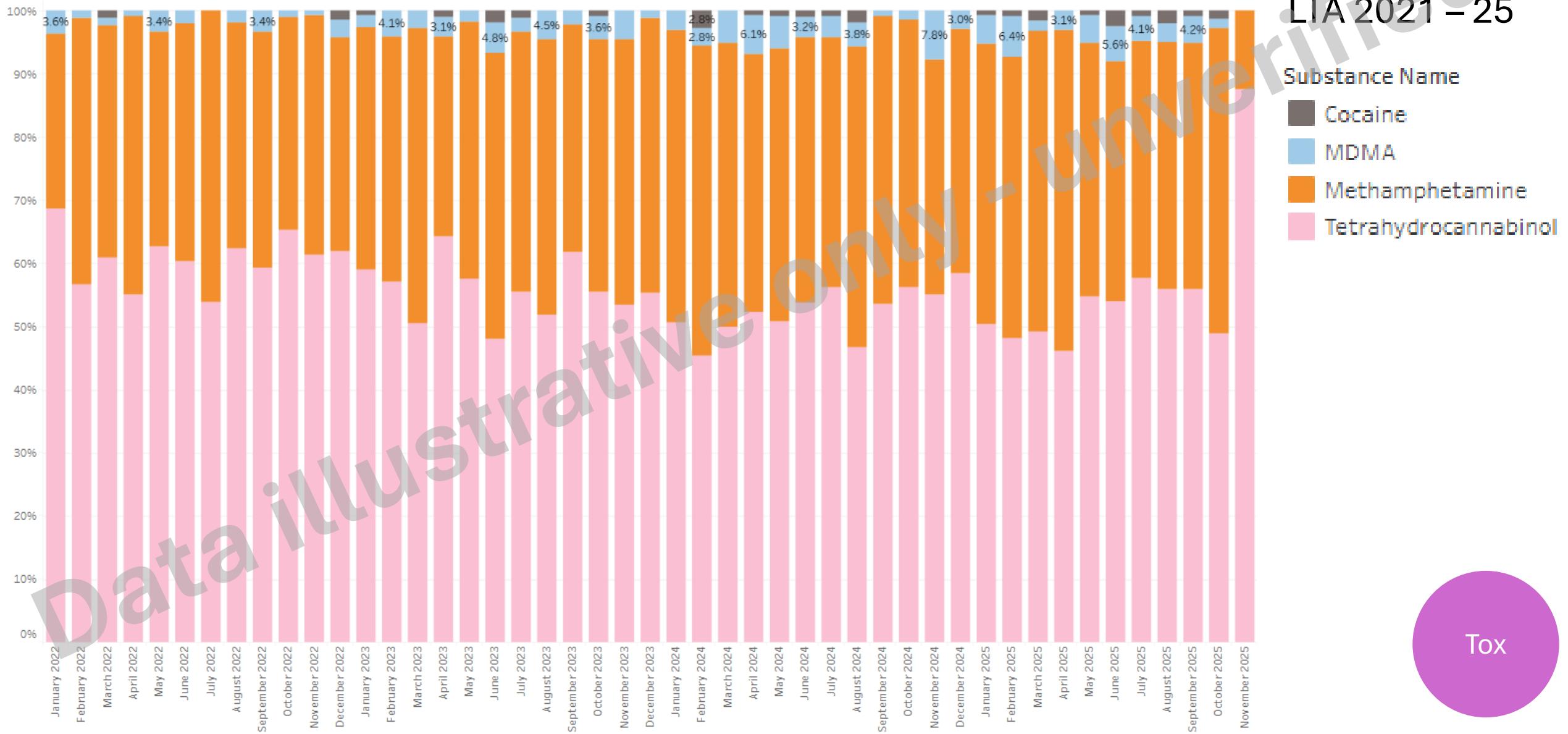
# Temporal Drug Trends

LTA - 2021 - 25



Tox

# Temporal Drug Trends



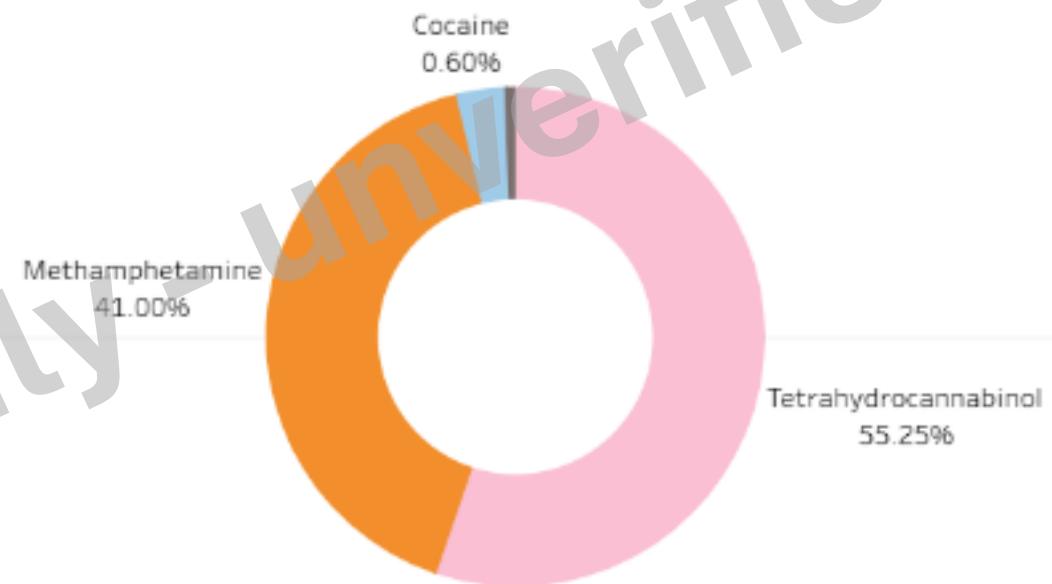
Tox



# Spatial Drug Trends



LTA 2021 – 25



## Substance Name



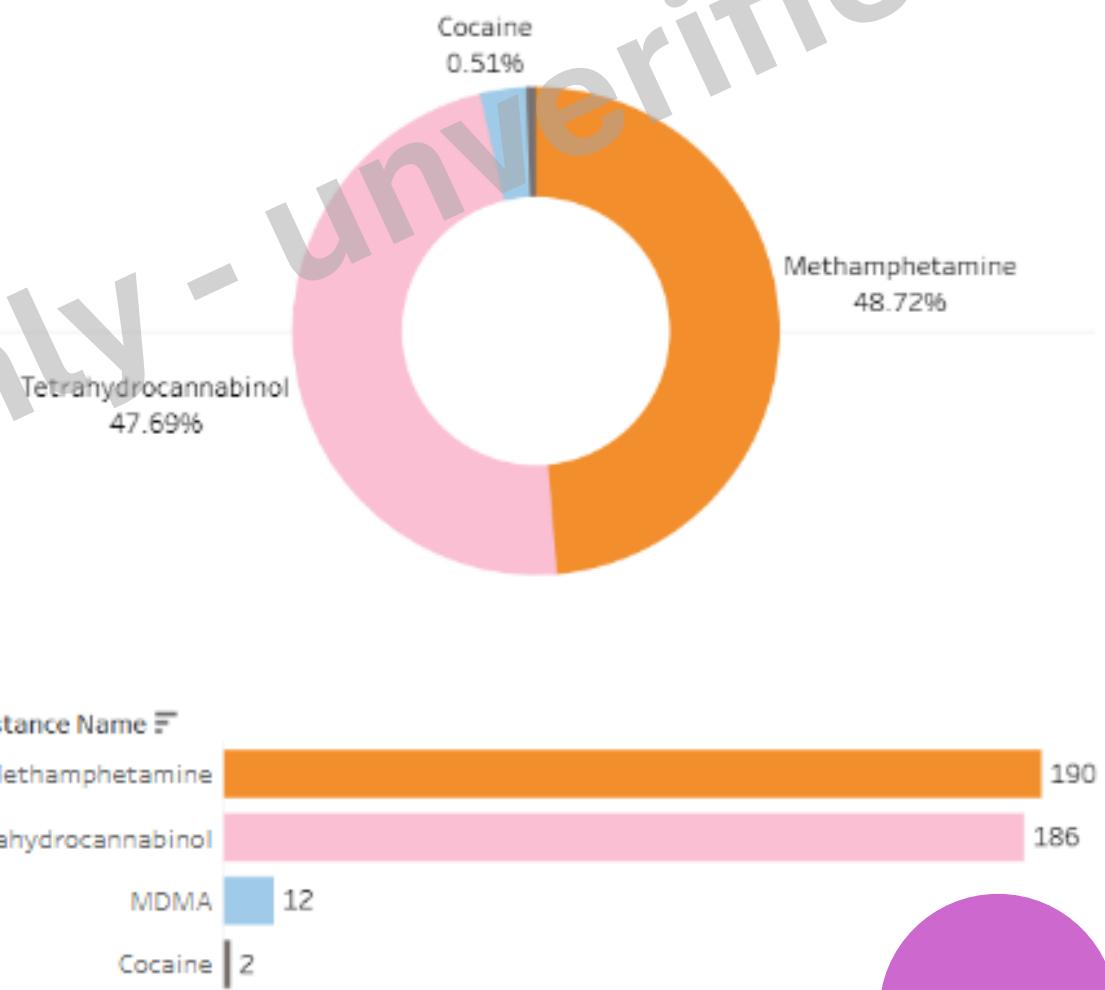
Tox

# Spatial Drug Trends



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# Alerts

- Real time internal alerts
- Early Advice – external notifications



## UAT Test: New Drug(s) Found

The following new drug(s) were identified in the UAT environment:

### Drug Name

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**Substance:** Dibromomescalin

**Sample Reference id:** 25ESR08405-1

**Sample Date:** 2025-08-22

**Sample Type:** Powder

**Detected by:** Forensic\_Drugs\_Lab

**Substance:** Buspirone

**Sample Reference id:** 25ESR07912-1

**Sample Date:** 2025-08-07

**Sample Type:** Blood

**Detected by:** Forensic\_Toxicology\_Lab

# Novel Substances

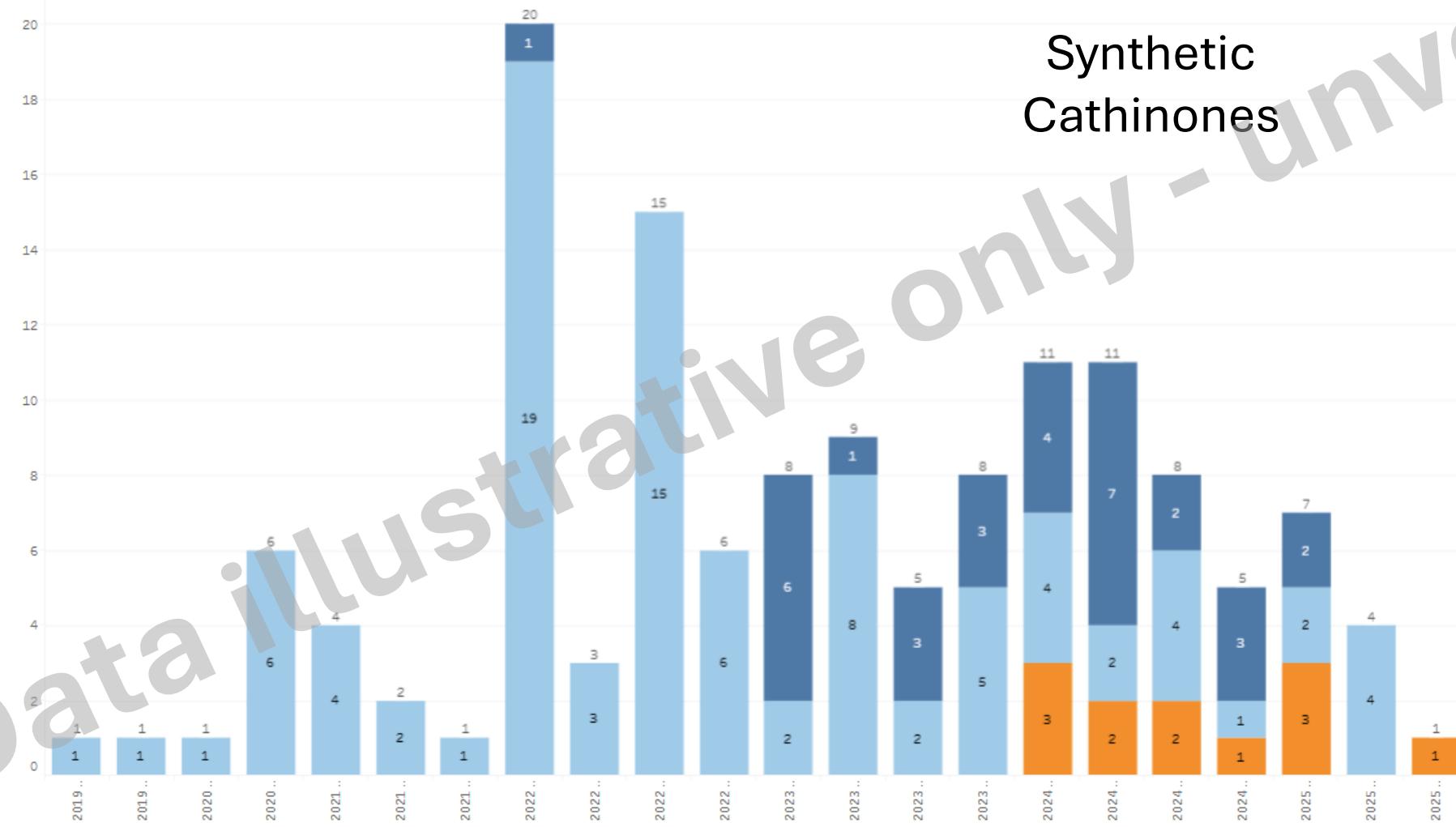
Quarterly, 2019 – 25



## Synthetic Cathinones

Substance Name

- Cyputylone
- Eutylone
- N-Isopropyl butylone



# So what?



- Leverage real-time data
- Enhance rapidly response to potential harm
- Strengthen internal coordination
- Empower external collaborators
- Safer outcomes for Aotearoa communities
- Future development - integrate domestically with external partners and internationally

# Acknowledgements



Wendy Popplewell  
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IDEAS project group  
Business Intelligence Team

