



ALERT Conference on Automated CT Screening for Customs & Border Protection Applications



21 June 2018

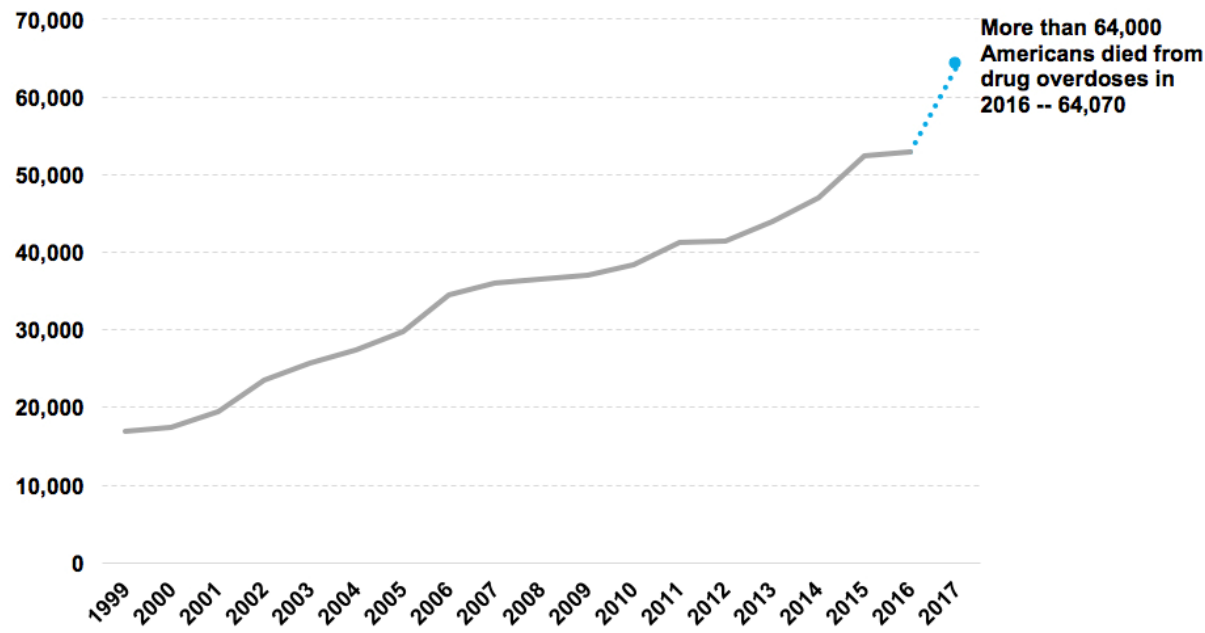
IDSS – Transforming Screening Solutions!

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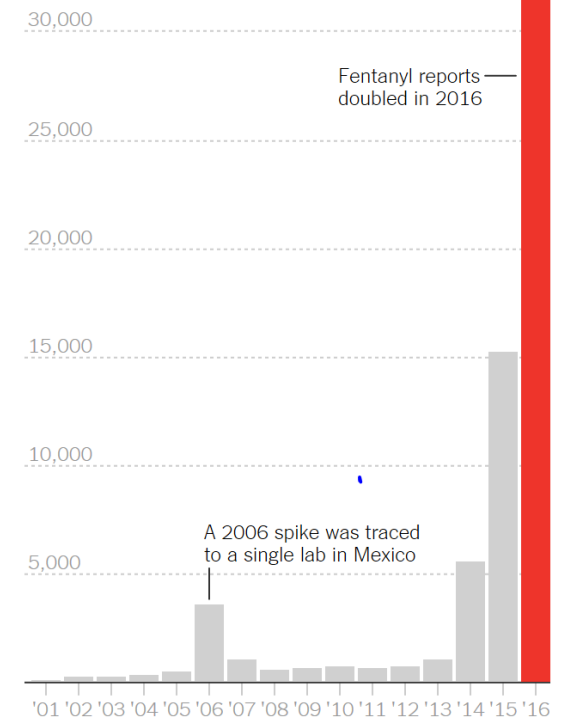
Narcotics Detection – Why We Should Care!

Narcotics Have Become a Major Worldwide Government Concern

Total U.S. Drug Deaths

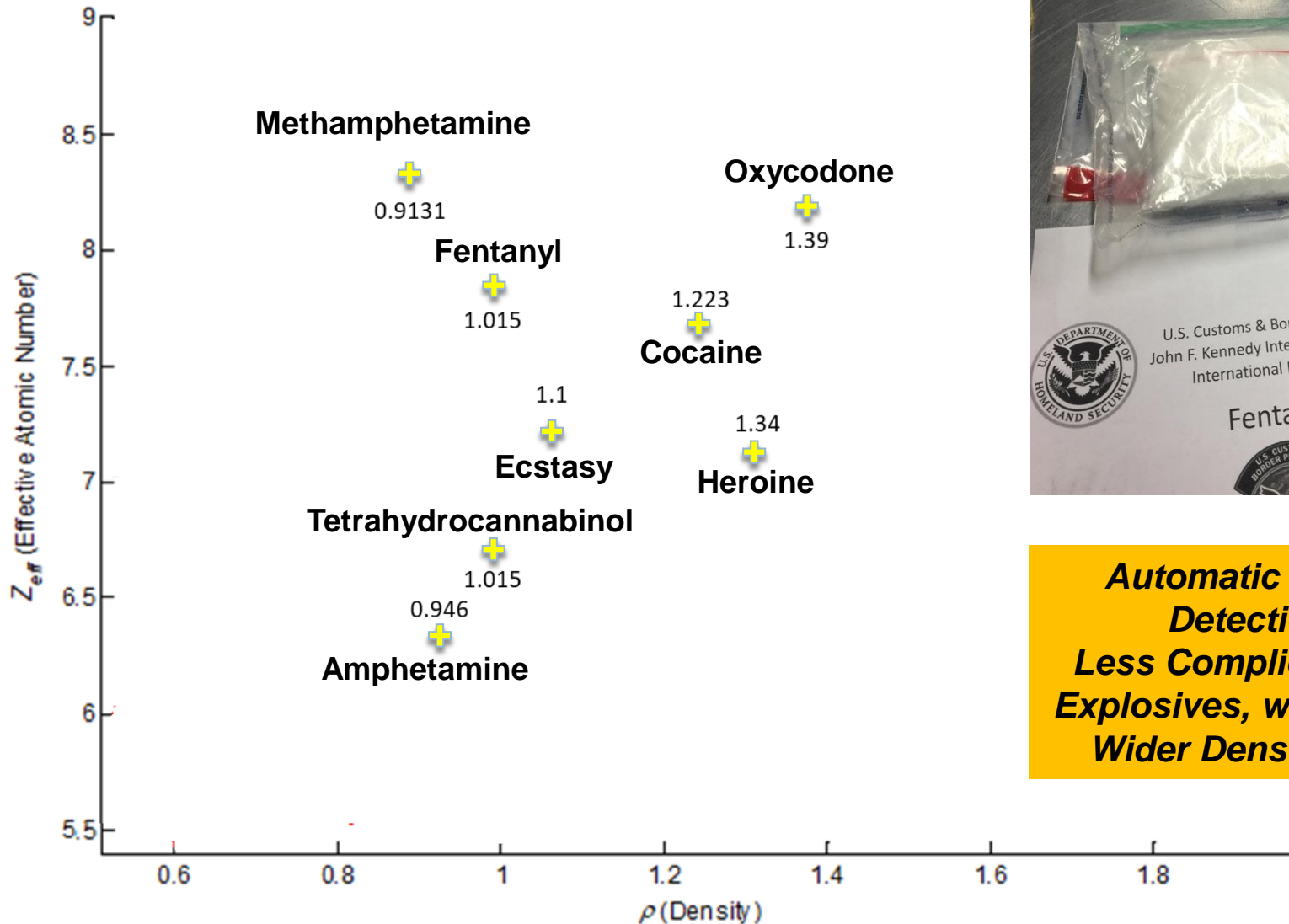


Drug seizures containing fentanyl



Source: D.E.A. National Forensic Laboratory Information System

Automated Narcotics Detection is Achievable



**Automatic Narcotic
Detection is
Less Complicated than
Explosives, which have a
Wider Density Range**

CBP Seizures are Various Shapes and Types



Samples of International mail drug seizures.

1) Anabolic Steroids; 2) Fentanyl; 3) Modafinil; and 4) Diazepam

U.S. Customs & Border Protection (CBP) Requirements



- ***Customs and Border Protection (CBP) is Tasked to Intercept and Seize Illegal Items Entering the United States:***
 - *Narcotics*
 - *Money and Fake Checks*
 - *Counterfeit Documents (e.g., Passports)*
 - *Prescription-type Drugs*
 - *Counterfeit Items*
 - *Bio Threats*

- ***Systems Best Suited for CBP Requirements***
 - *High Resolution for Small Object Detection*
 - *High Power to Image through Metal Objects*
 - *High Throughput to Increase Search Rate*
 - *Small Enough to Fit in CBP Limited Space Facility Locations*

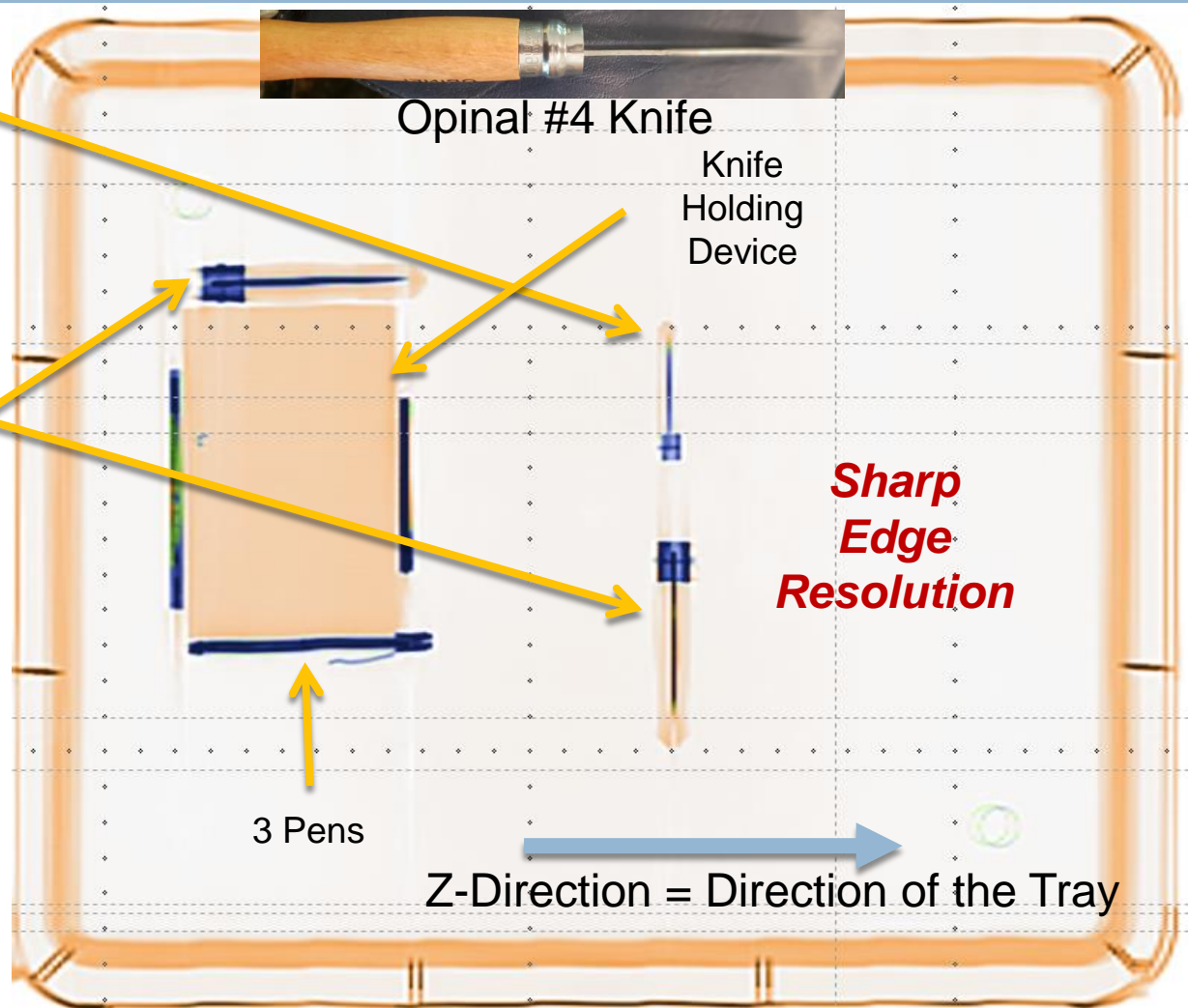
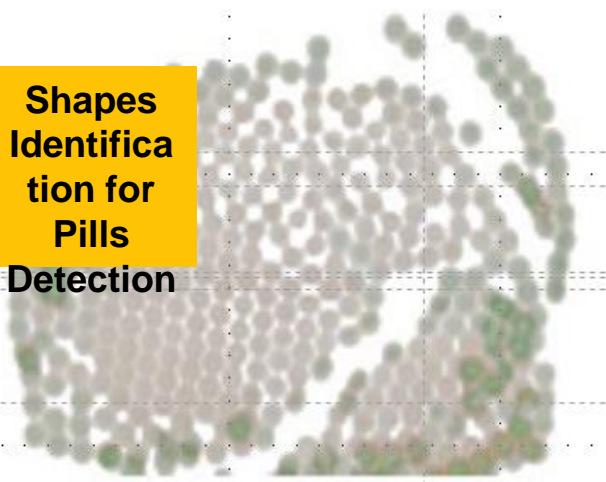
High Image Quality Drives Ability to Detect with More Measurement Accuracy

Bottom/Sharp Edge of Blade



Top of Blade

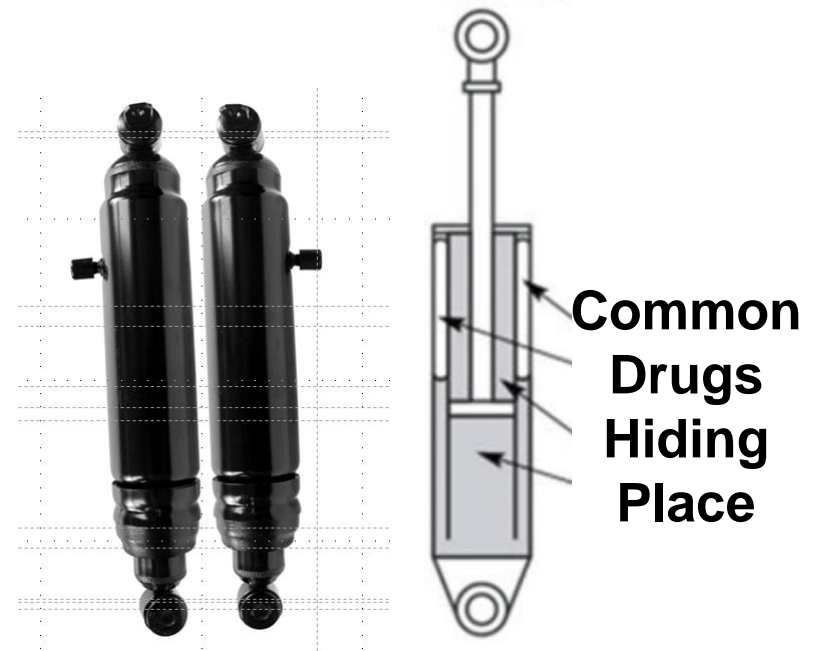
Shapes
Identifica
tion for
Pills
Detection



3D X-ray Vision – The Need to See like Superman!

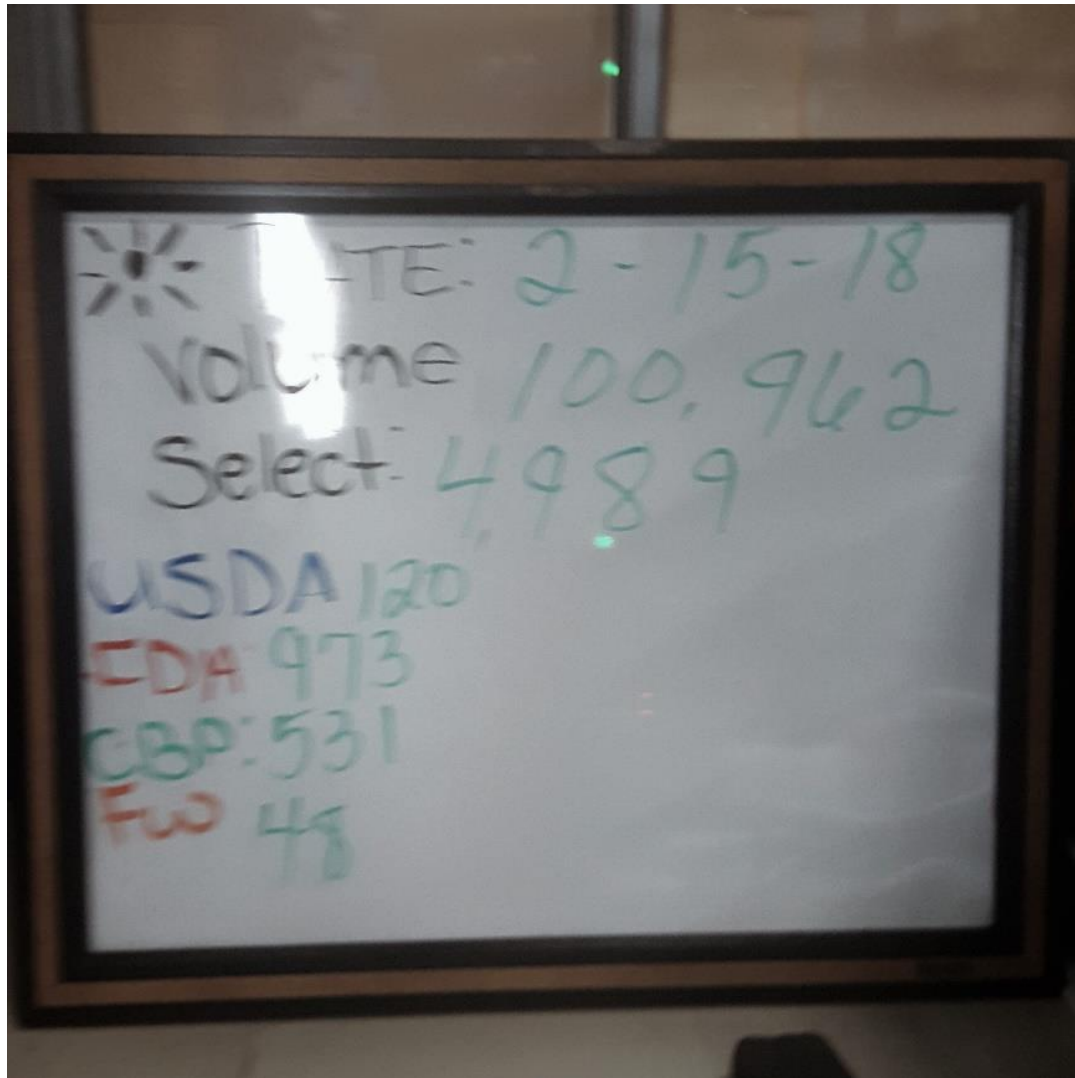


**Major Seizure = 2 Kg
Crystal Meth Hidden
Inside Car TV Headrests**



**Automobile Parts
are a Common
Hiding Place for
Smuggling Narcotics**

Narcotics Detection – The Need for Speed!



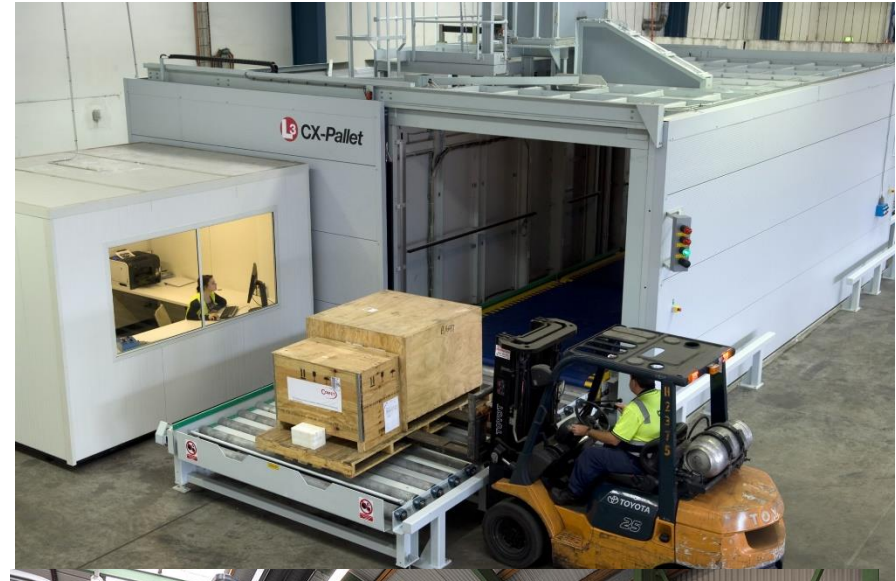
**FedEx Parcels = 100,962
Typical Day
Parcels Examined = 531
~0.526% CBP Inspection
Daily**

**USPS Mail Letters and
Parcels = 1M/Day
0.01% Screened**

Examples of Cargo Requiring Screening by CBP



Present Cargo Pallet Scanners Big, Expensive and Only 2D



*Thank You for your
Interest and
Consideration!*

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