Joost van de Griendt Co-founder and CBO/CMO



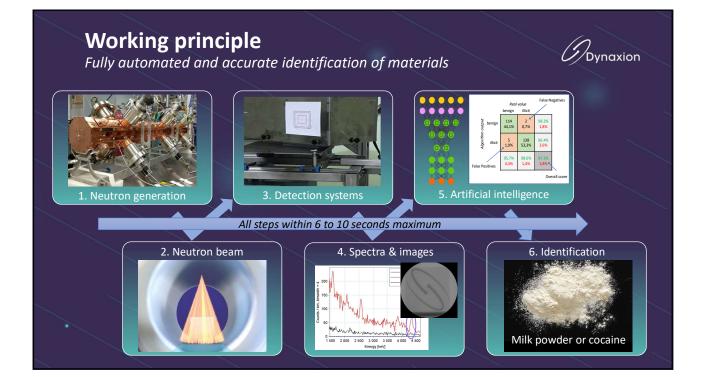
Disruptive, Non-Intrusive Inspection technology for security screening

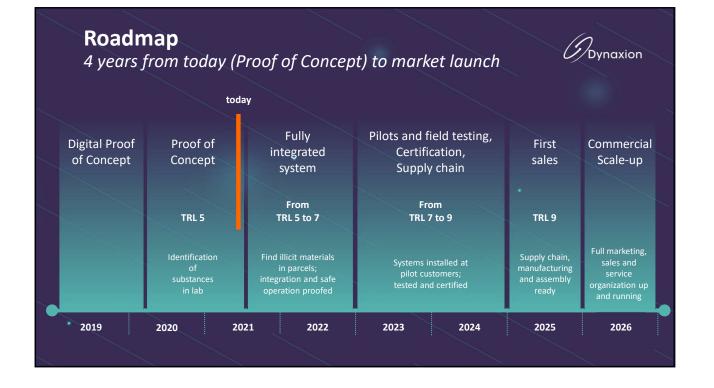
For a safer world

WCO – June 29, 2021





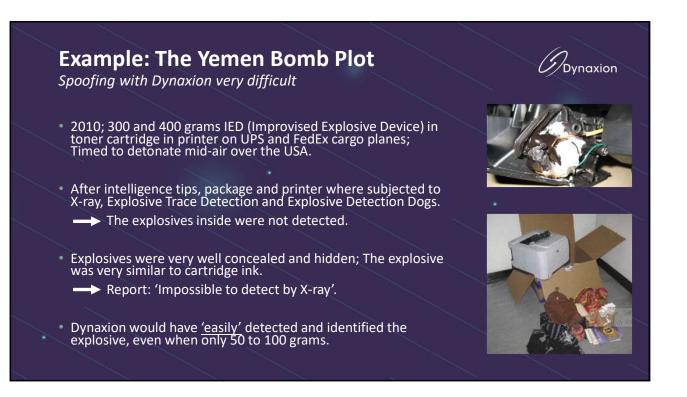


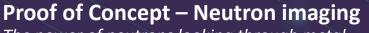




- What to do?
 - Open parcel, open product.
 - Sample the product for drugs
 - Visual inspection, sometimes smell / taste...
 - Electronic analysis (mass spectroscopy, electronic trace detection)
 - In some cases: danger expected, send sample to special laboratory
 - Most cases: no threat; 'costly' false alarm
- Dynaxion: non-invasive, few seconds of scanning and will provide >97% accurate answer









The power of neutrons looking through metal

- Goal: sub-millimetric fast neutron imaging to locate objects
- Object: plastic 3D printed logo (5x5cm)
- Imaging through 5cm of lead
- Spatial resolution: 700 μm





Customs – considerations (1)

- High accuracy and specificity, in combination with automated <u>identification</u>.
- Large numbers and increase of 'direct' shippings
 More unknow shippers = more pressure on screening
- Drugs, Tobacco, Ivory, 'animal/plant related', radioactive materials,
- TNO independent expertise report: 'Spoofing very difficult'.





Customs – considerations (2)

- Much faster import checks than current manual handling and ad-random checks, plus:
 - Less (costly) human handling
 - Immediate identification
- Import but also export control on drugs.
- Higher efficiency, higher effectiveness, lower overall costs.
- Effective way to help stop the flow of illegal goods coming into and going out of country.



Customs – considerations (3)

- Improved border control and protection
 - Higher efficiency
 - More secure supply chain
 - Less physical interventions and inspections
 - Better decision making
 - Securing revenue collection

 We would very much want to cooperate with the WCO in its mission to reach a safer and more prosperous world.







