

ASX ANNOUNCEMENT

11 February 2019

ASX Code: DTZ

**COMPANY PRESENTATION
CEO – AUSTRALIAN AND ASIAN ROADSHOW**

Dotz Nano Limited (ASX:DTZ) (“Dotz” or “The Company”) an advanced technology company developing, manufacturing and commercialising marking, tracing and verification solutions.

Please find attached a copy of a presentation to be made by the CEO, Mr Uzi Breier on his Australian and Asian Investor Roadshow.

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About Dotz Nano Limited

Dotz Nano Limited (ASX: DTZ) is a technology leader in research, production and marketing of anti-counterfeiting, authentication and tracing solutions. Dotz has strong, established distributors in North America, Europe, Japan and Australia as well as scientific collaborations and partnerships with leading academic institutes.

Its unique products ValiDotz, BioDotz, Fluorensic and InSpec are exceptional solutions for numerous applications, such as: anti-counterfeiting, brand & reputation protection, oil & gas industry, liquids tagging, lubricants and DEF authentication, polymers tagging and bio-imaging.

To learn more about Dotz, please visit the website and corporate video via the following link www.dotz.tech

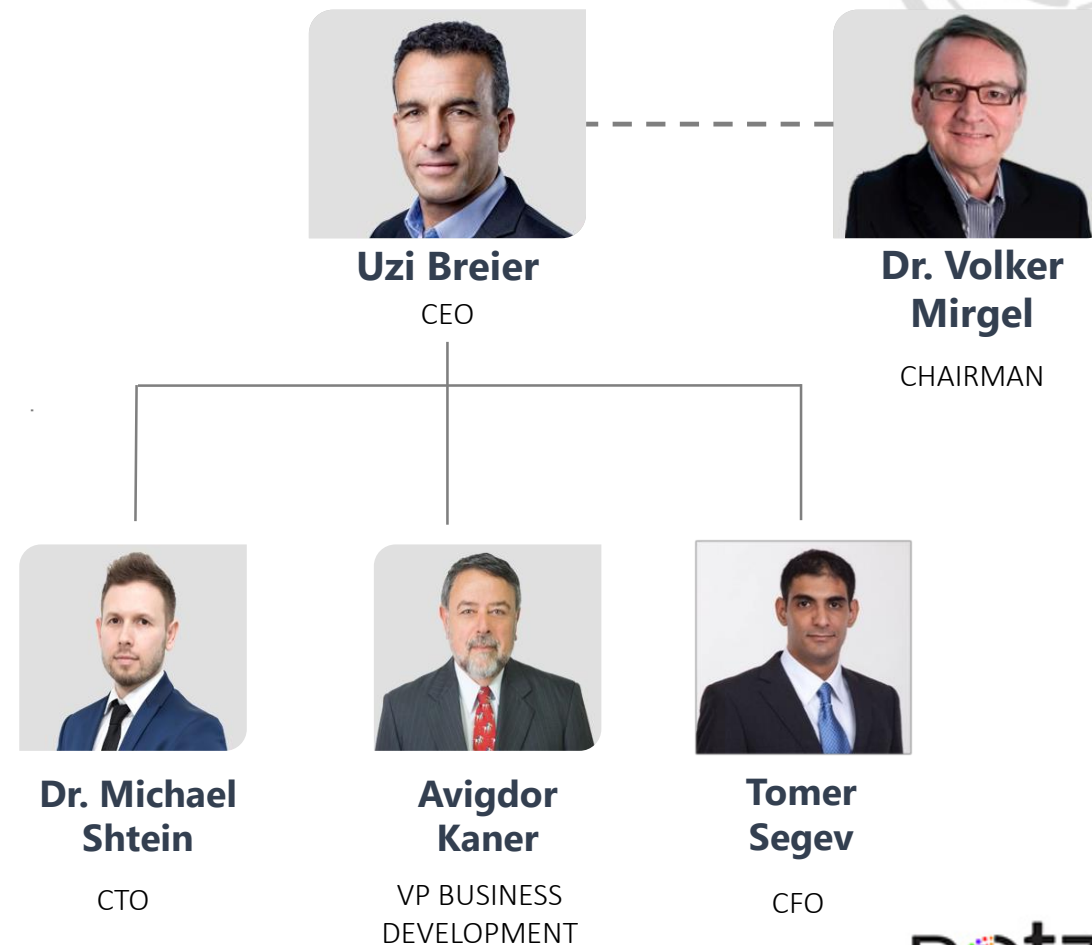
End-2-end security marking, tracing and authentication



The Company

Background and Team

- Public company (ASX : DTZ) IPO – Nov 2016
- Original patents from RICE University (Houston Texas, prof. James Tour) and home-grown IPr (Marking for Oil & Gas industry, Detection & Production methods)
- R&D Center in Israel – 10 PhDs and research scientists, unique mix of expert Chemistry and Materials science professionals
- Sales offices – USA, Japan and Switzerland
- Industrial manufacturing facilities in USA and Germany. Collaborations in Switzerland, Germany and Australia
- To-date total investment of AUD\$13M
- **First customer sales contracts announced in January 2019**



Corporate Overview

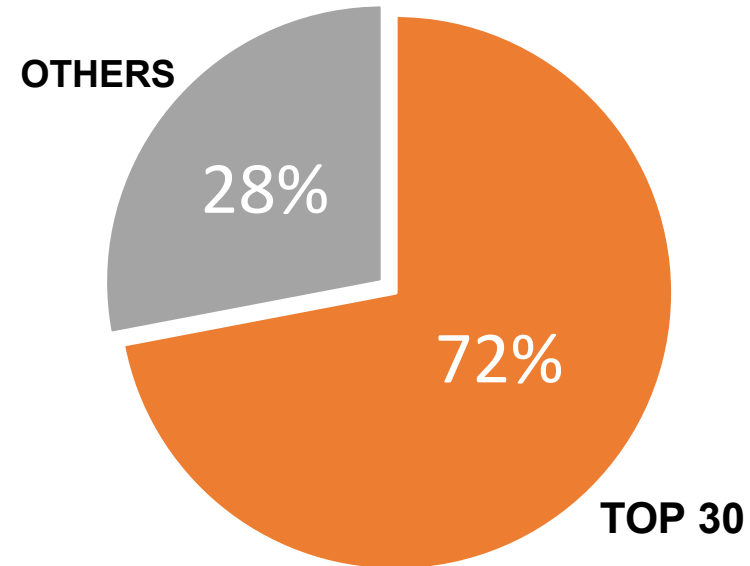


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- 2 Share price: 8.6 cents¹
- 3 Shares on issue: 192.9m
- 4 Market cap: \$16.6m¹
- 5 Sales contracts recently signed



PO for Lubricants received – A\$300k

PO for Plastic received – A\$130k



1. As at 6 March 2019

The challenge:

Product protection and brand authentication



Industrial fluids



Premium consumer products



Industrial products



Health & Safety

\$2.2 TRILLION OF PRODUCTS ARE COUNTERFEITED

INCREASED REGULATIONS

VALIDATING PRODUCT OWNERSHIP BECOMING INDUSTRY STANDARD



Dotz is targeting large global markets



Lubricants

\$166B by 2025



Plastics

\$67B – Packaging
\$25B – Automotive
\$100B – Toys



Fuel

\$288B by 2020



Fracking

\$90B in North America



Adhesives

\$4B in USA



Strategic plan: milestones achieved



Protecting plastics →

- Penetration into plastics
- Real-time authentication
- No effect on the plastic
- On-site testing

First deal marking doping testing tubes AU\$130K PO received

Protecting lubricants →

- Only known existing solution to penetrate into the oil
- No impact on oil properties
- Real time authentication

First deal marking base-oils & greases

AU\$300K – PO received

Tagging Fuel & Fracking Fluids

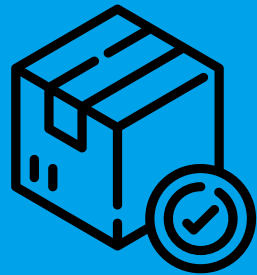
- On-site real-time field detectors
- Stable under high-press/temp
- Detects dilution levels

Advanced negotiations



Dotz state-of-the-art solution:

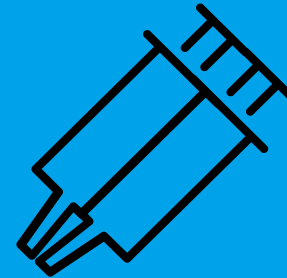
Marking the product substance,
by embedding our unique Validotz™ markers



Packaging



Fuels, Oils &
Lubricants



Polymers



Agrochemicals

Novel security marker + New advanced detection systems

=

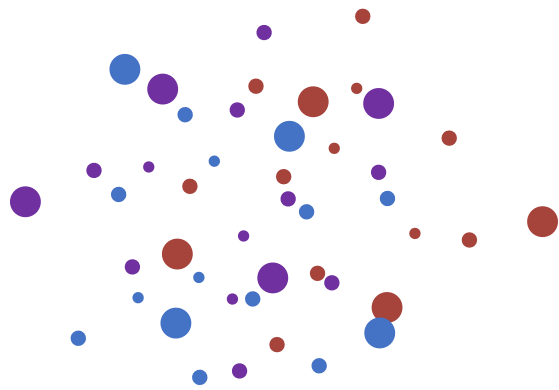
Unprecedented levels of security



The basic technology principle



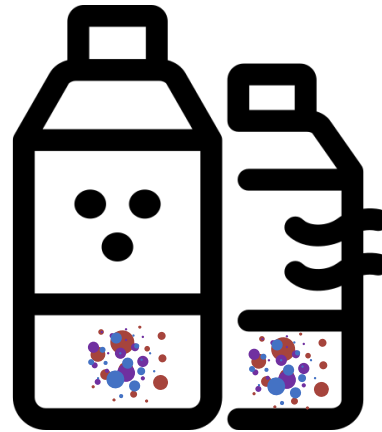
ValiDotz™ markers



ValiDotz™ added as
MasterBatch in company's
production process



Company product



Does not affect the
products properties



InSpec™ detectors



InSpec detectors easily
identify ValiDotz™ marked
products on site



ValiDotz security marker benefits



Impossible to reverse engineer

Does not affect the properties of the materials

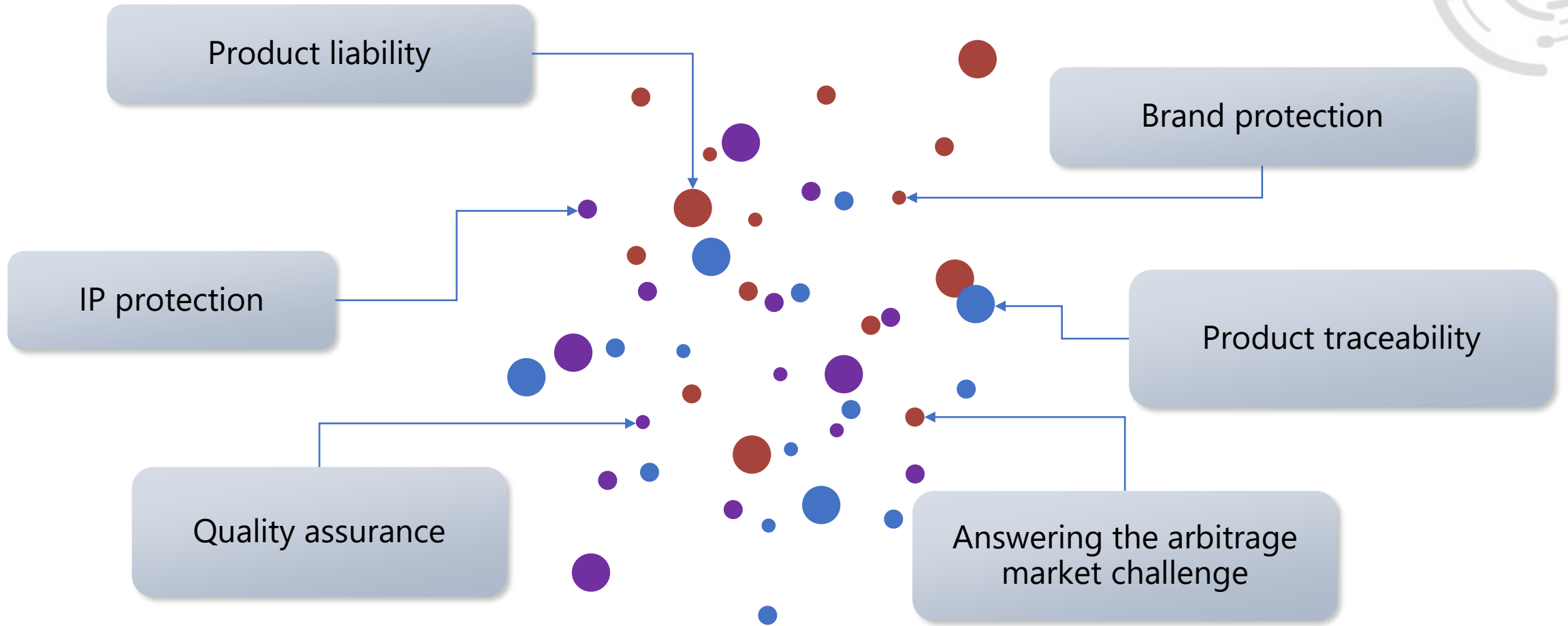


Eco friendly markers
manufactured from carbon
sources only

Simple to detect, in real
time and on-site
Dotz provides affordable dedicated
real time detectors



ValiDotz™ has many use cases



Market applications



Thermosetting Polymers

Adhesives
Silicones
Tapes
Constructions



Thermoplastic Polymers

Packaging
Automotive
Toys
Electronics
ID cards



Lubricants

Grease
Engine oil
Hydraulic oil



Fuels & DEF

Petroleum
Diesel
Exhaust Fluids



Bulk liquids

Fracking fluid
Sewage



Agrochemicals

Seeds
Pesticides



The ValiDotz security marker features

VALIDOTZ™: a new unique security marker not available in the free market



Unique signatures
and identification
traits

Mixtures of
ValiDotz™ create
customised
unique codes

Simple
implementation
and integration into
production process

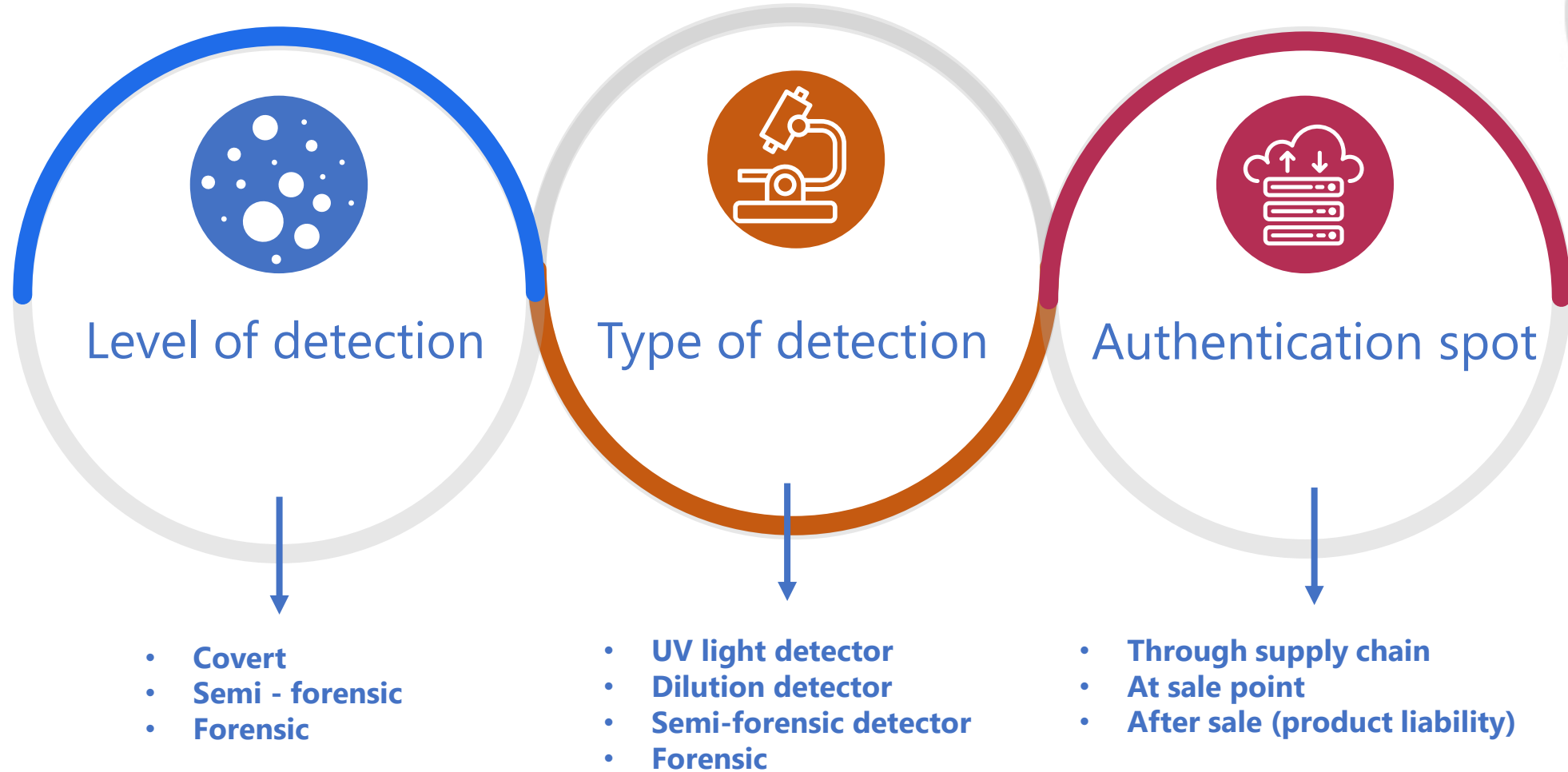
Very low
concentrations
(PPM and PPB
levels)

Stable and robust in
plastic production
processes (300°C, 2000
PSI)



Dotz: Securing products from end-to-end

Flexible solution with tailor-made solutions



Strategic plan: next milestones

Key focus is on executing additional sales contracts



Lubricants

Pursue and close new deals for marking lubricants



Plastics

Engage and close new orders for marking polymers and plastics



Fuel

Win large scale Government contracts with our partner



Fracking

Complete testing required by partner to sign partnership & explore future opportunities



Adhesives

Obtain first order in marking adhesives



Key highlights



- **Material sales contracts announced in January with large customers**
- **Tightly held register composed of supportive shareholders**
- **Addressing a real and large problem – \$2.2 trillion of products are counterfeited**
- **Targeting large global markets and large enterprises**
- **Market leading technology**





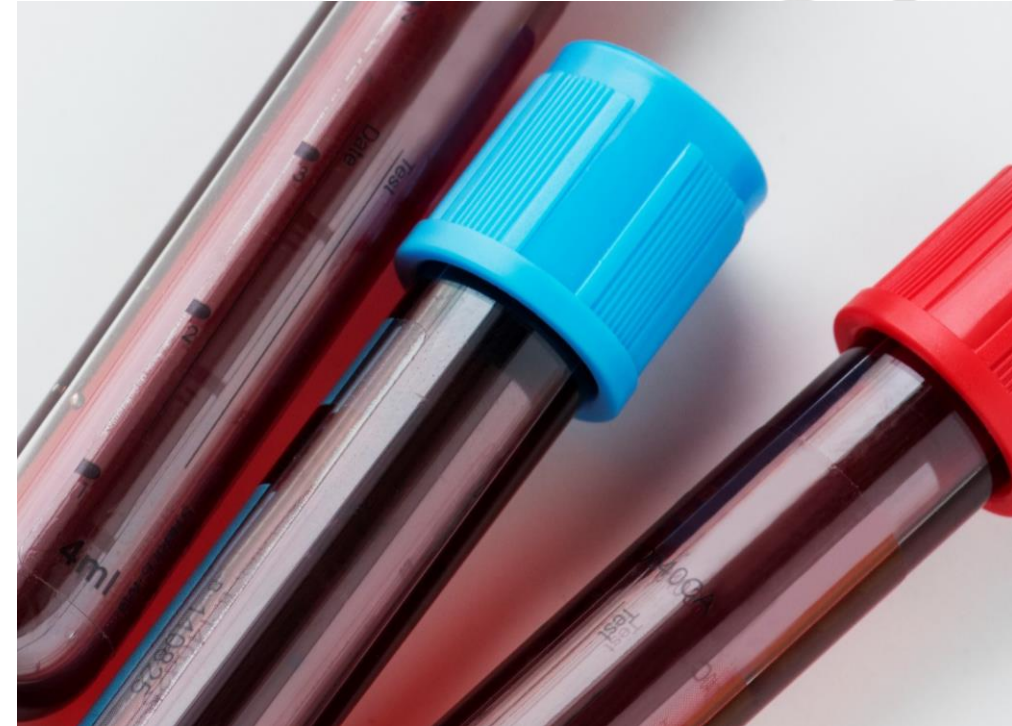
Case studies



Case study: Health & Safety



Industry	Healthcare - Fraud Prevention
Challenge	To prevent counterfeiting plastic parts in medical use
DOTZ solutions	ValiDotz™ markers were inserted to the plastic material prior to the injection molding
Results	Customers product was tagged with unique markers and supplied with customised detector (InSpec™)



Case study: Lubricants & Oils



Industry	Industrial B2B
Challenge	To prevent counterfeiting or dilution of premium industrial lubricants
DOTZ solution	ValiDotz™ markers were inserted at a very low concentration into the lubricant oil Different combinations of ValiDotz™ can be used to create unique codes
Results	ValiDotz™ are easily dispersed and form stable homogenous solutions with oil samples ValiDotz™ show a forensically detectable signal (by on-site InSpec detector) at low concentrations when added to samples, creating a cost effective tagging solution. Permits for detection of dilution attempts or counterfeited inferior products



InSpec™ Semi-Forensic on site detection options

High confidence verification with smartphone based detector



Secure smartphone app

Rapid on-site and real-time verification

High security level due to multiple excitons and emission sources

Suitable for measurement of liquids



Case study: Marking Petroleum

Industry	Industrial B2G
Challenge	Ability to determine whether fuels were smuggled (tax evasion)
DOTZ solution	ValiDotz™ markers were inserted at a low concentrations into fuel tanks ValiDotz™ easily distributed and form a uniform solution with the fuel sample
Results	ValiDotz™ forensically detectable signal at low concentrations when added to samples, creating a cost effective tagging solution This allows detection of dilution attempts with counterfeit or smuggled products



InSpec™ Semi-Forensic on-site detection options



HIGH PRECISION DILUTION DETECTOR



High sensitivity capability; sensitive down to parts per billion detection

Light weight portable device

Rapid, simple and on-site analysis

Capable to decode different ValiDotz™ codes

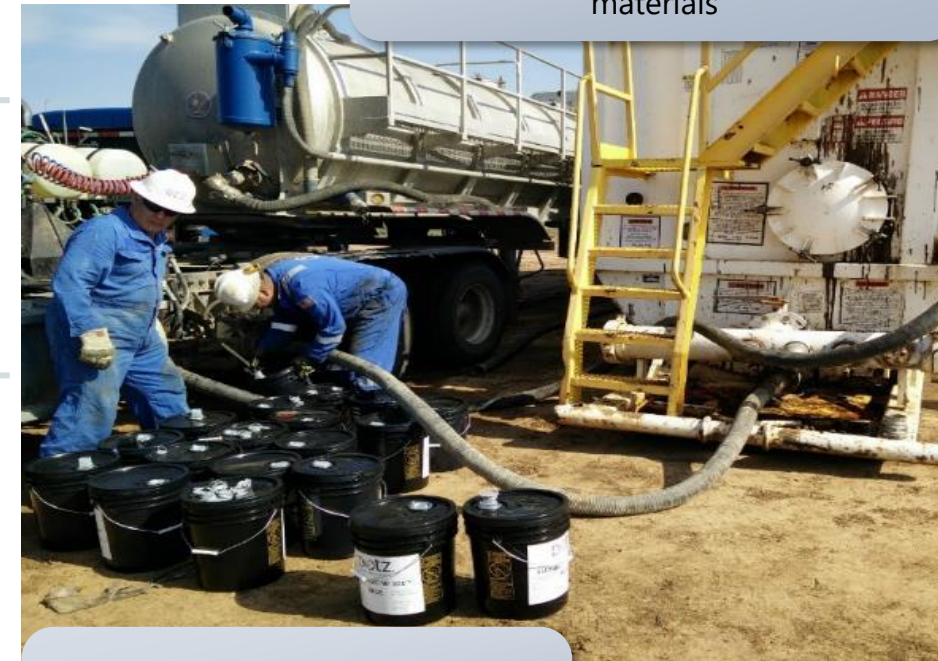
Suitable for measurements of liquids, greases and solids samples



Case Study: Marking Fracking-Fluids

Industry	Oil & Gas - Fracking
Challenge	Improve production efficiency using tracers to track fracking fluids to determine well flows
DOTZ solution	Fluorensic™ Tracers were inserted at PPB concentrations into fracking fluids to allow well flow monitoring Fluorensic™ maintains properties even after being exposed to elevated temperatures (400°F), pressure and chemicals
Results	Aims to improve production efficiency by 20% Different combinations of Fluorensic™ tracer used to monitor different fracking fluids, identifying leaks or optimisation potential Testing stages to determine viability. Average cost to build a Fracking well is US\$7M, 13k wells dug every year in N. America → \$90M

SAFE Fluorensic™ markers -
manufactured from carbon sources
only, contain no radioactive or toxic
materials



ON SITE Fluorensic™ markers
detected on-site, saving time and
money



InSpec™ on site detection options

InSpec™ Forensic detector

ON-SITE, REAL-TIME, HIGH CONFIDENCE VERIFICATION

Parts per Billion detection capabilities

Light-weight briefcase

Rapid, Simple and On-site analysis

Capable to decode different
ValiDotz™ codes



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Thank you



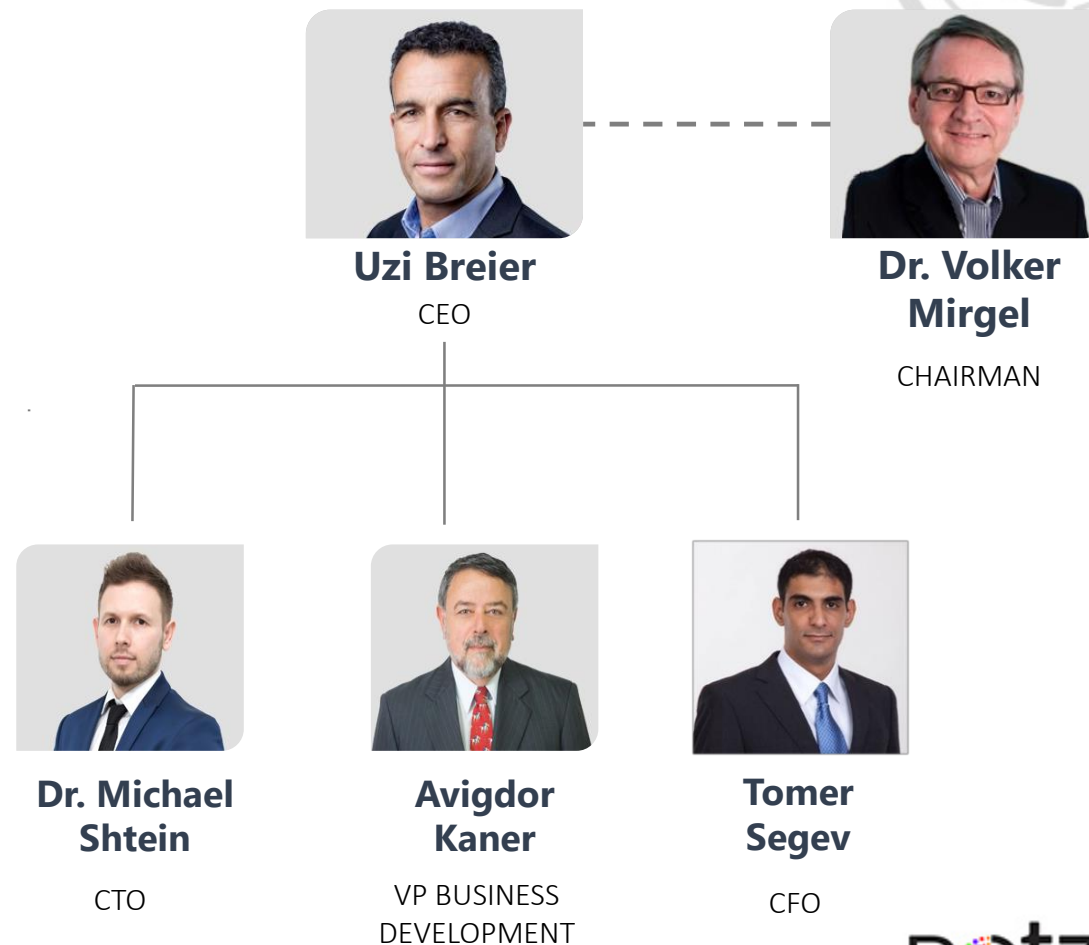
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- R&D Center in Israel – 10 PhDs and research scientists, unique mix of expert Chemistry and Materials science professionals
- Sales offices – USA, Japan and Switzerland
- Industrial manufacturing facilities in USA and Germany. Collaborations in Switzerland, Germany and Australia
- To-date total investment of AUD\$13M
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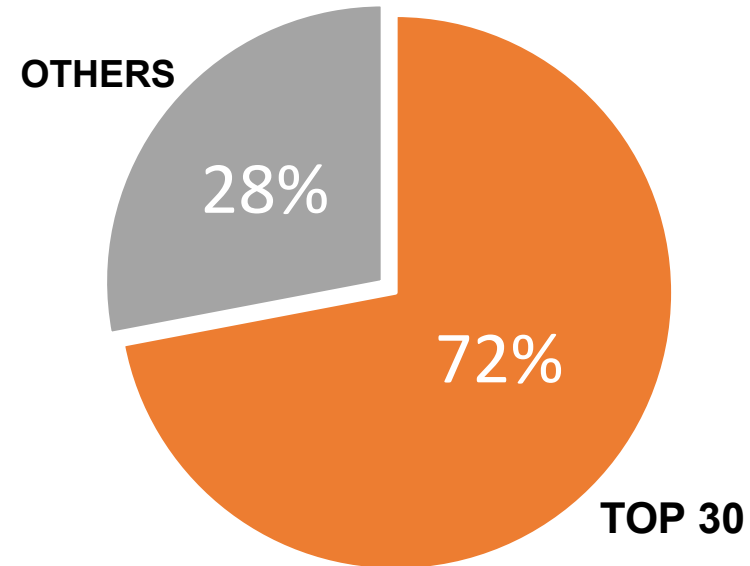


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\$288B by 2020



Fracking

\$90B in North America



Adhesives

\$4B in USA



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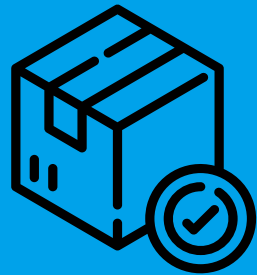
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- Stable under high-press/temp
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Advanced negotiations



Dotz state-of-the-art solution:

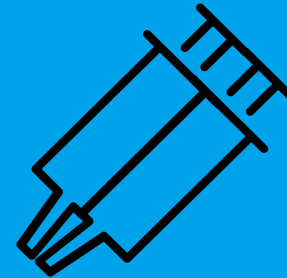
Marking the product substance,
by embedding our unique Validotz™ markers



Packaging



Fuels, Oils &
Lubricants



Polymers



Agrochemicals

Novel security marker + New advanced detection systems

=

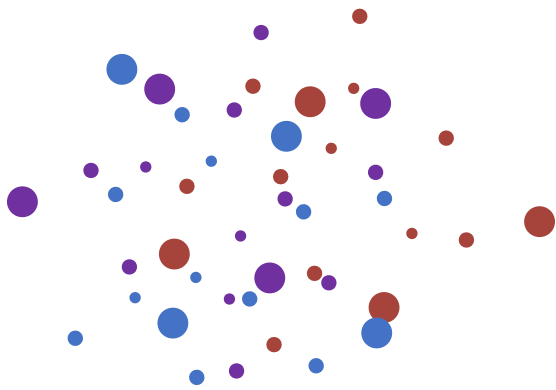
Unprecedented levels of security



The basic technology principle



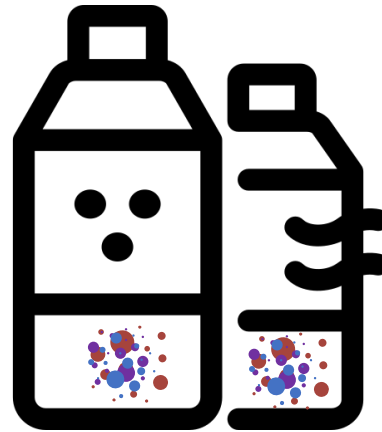
ValiDotz™ markers



ValiDotz™ added as
MasterBatch in company's
production process



Company product



Does not affect the
products properties



InSpec™ detectors



InSpec detectors easily
identify ValiDotz™ marked
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ValiDotz security marker benefits



Impossible to reverse engineer

Does not affect the properties of the materials

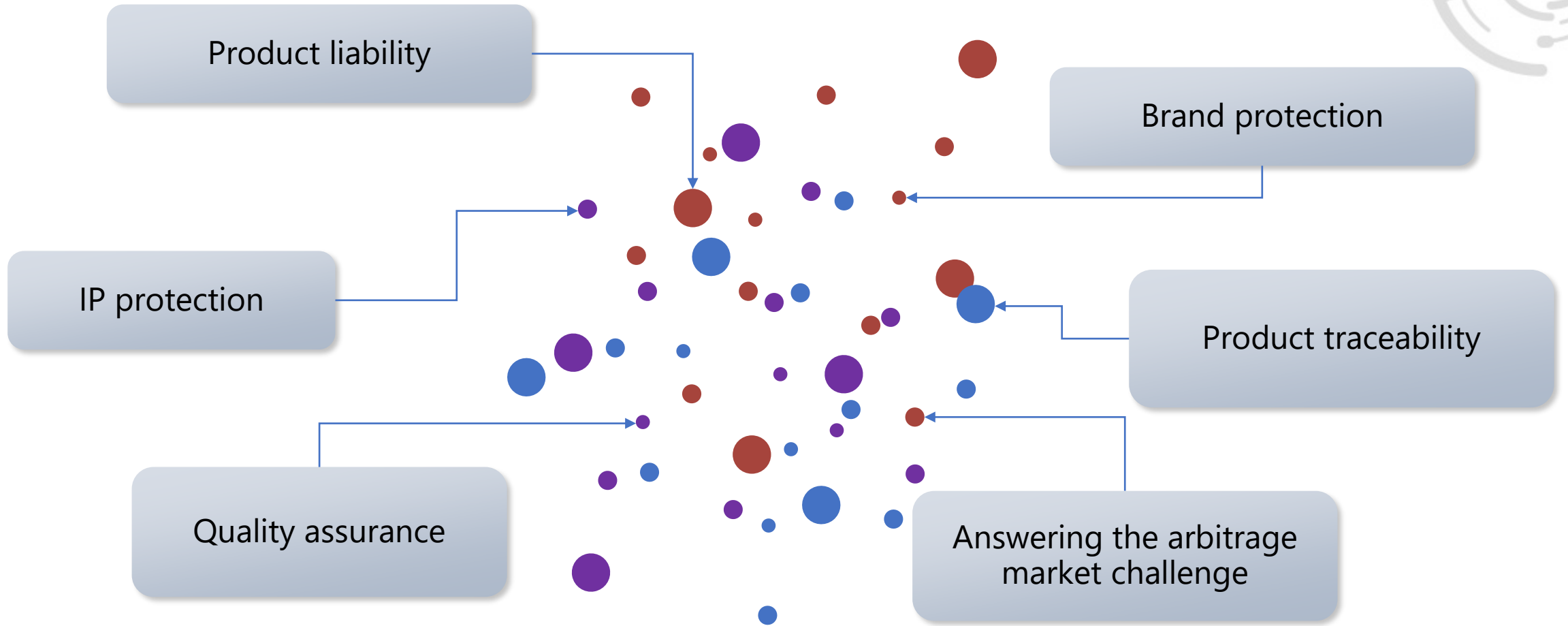


Eco friendly markers
manufactured from carbon sources only

Simple to detect, in real time and on-site
Dotz provides affordable dedicated real time detectors



ValiDotz™ has many use cases



Market applications



Thermosetting Polymers

Adhesives
Silicones
Tapes
Constructions



Thermoplastic Polymers

Packaging
Automotive
Toys
Electronics
ID cards



Lubricants

Grease
Engine oil
Hydraulic oil



Fuels & DEF

Petroleum
Diesel
Exhaust Fluids



Bulk liquids

Fracking fluid
Sewage



Agrochemicals

Seeds
Pesticides



The ValiDotz security marker features

VALIDOTZ™: a new unique security marker not available in the free market



Unique signatures
and identification
traits

Mixtures of
ValiDotz™ create
customised
unique codes

Simple
implementation
and integration into
production process

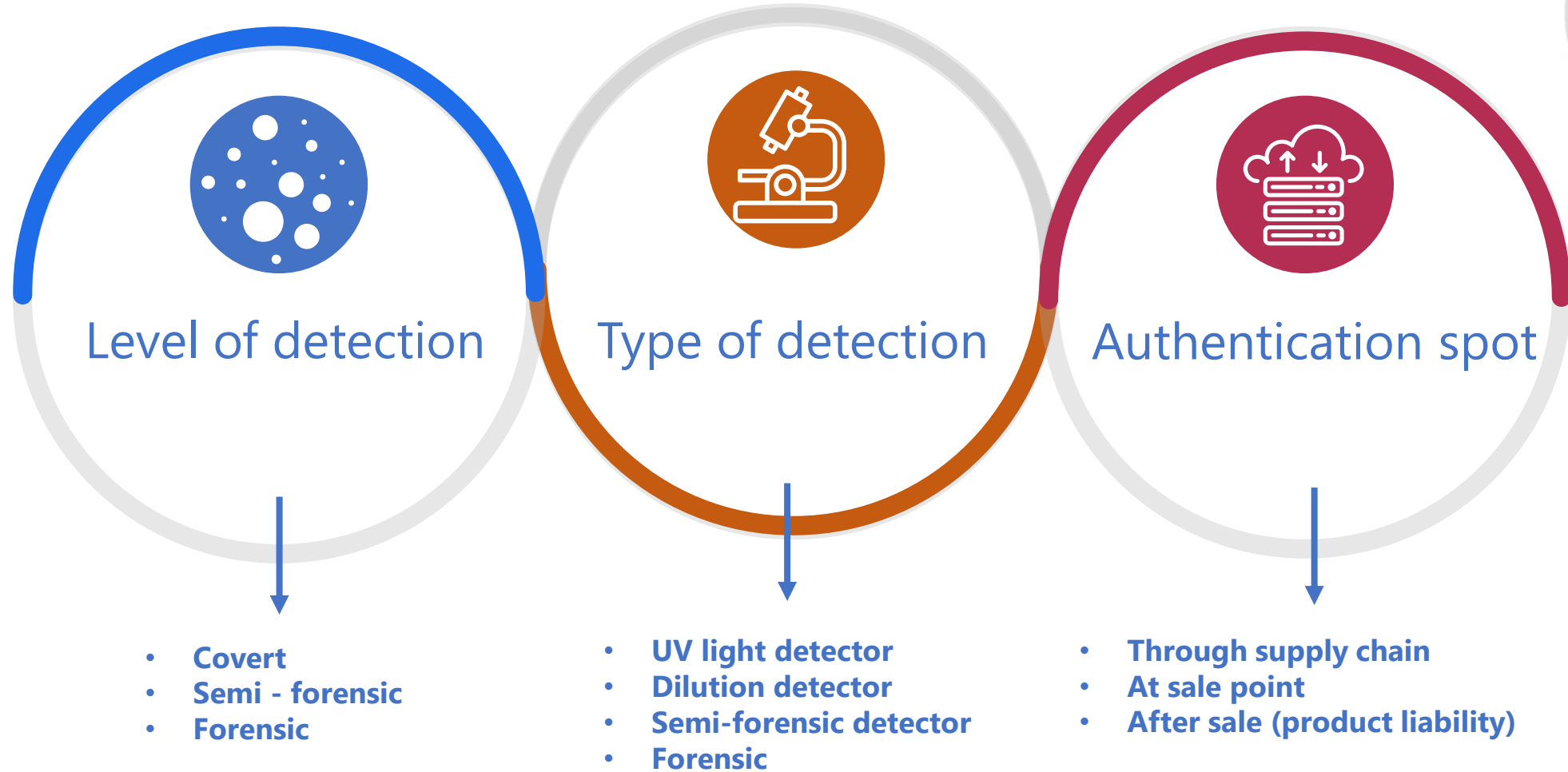
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concentrations
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Stable and robust in
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Dotz: Securing products from end-to-end

Flexible solution with tailor-made solutions



Strategic plan: next milestones

Key focus is on executing additional sales contracts



Lubricants

Pursue and close new deals for marking lubricants



Plastics

Engage and close new orders for marking polymers and plastics



Fuel

Win large scale Government contracts with our partner



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Adhesives

Obtain first order in marking adhesives



Key highlights



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- **Tightly held register composed of supportive shareholders**
- **Addressing a real and large problem – \$2.2 trillion of products are counterfeited**
- **Targeting large global markets and large enterprises**
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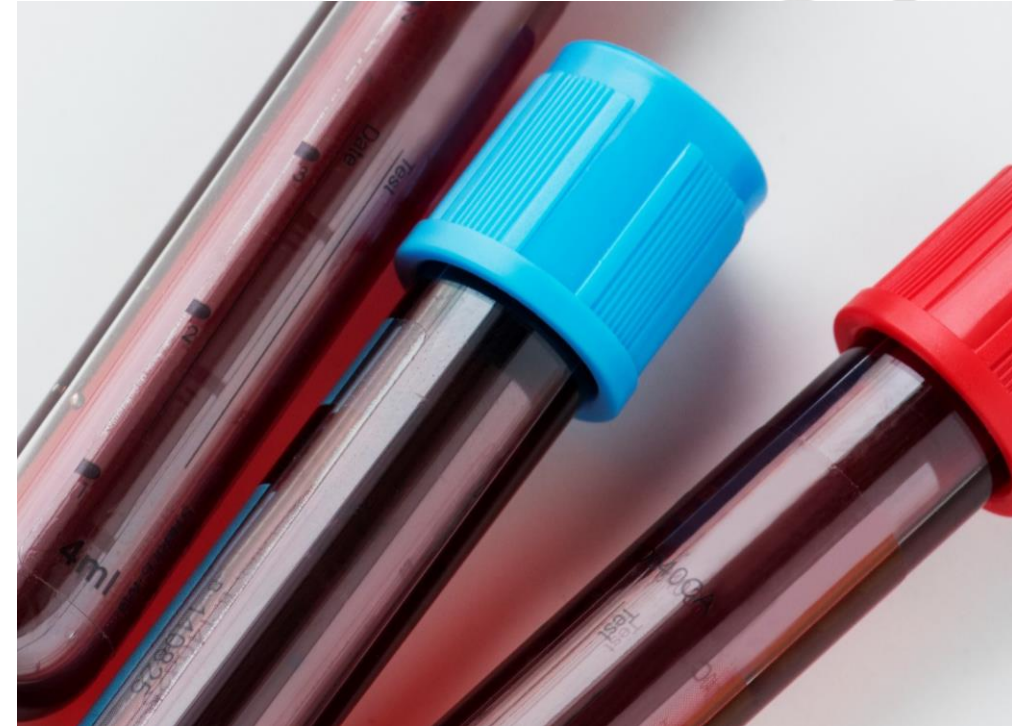
Case studies



Case study: Health & Safety



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Challenge	To prevent counterfeiting plastic parts in medical use
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InSpec™ Semi-Forensic on site detection options

High confidence verification with smartphone based detector



Secure smartphone app

Rapid on-site and real-time verification

High security level due to multiple excitons and emission sources

Suitable for measurement of liquids



Case study: Marking Petroleum



Industry	Industrial B2G
Challenge	Ability to determine whether fuels were smuggled (tax evasion)
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InSpec™ Semi-Forensic on-site detection options



HIGH PRECISION DILUTION DETECTOR



High sensitivity capability; sensitive down to parts per billion detection

Light weight portable device

Rapid, simple and on-site analysis

Capable to decode different ValiDotz™ codes

Suitable for measurements of liquids, greases and solids samples



Case Study: Marking Fracking-Fluids

Industry	Oil & Gas - Fracking
Challenge	Improve production efficiency using tracers to track fracking fluids to determine well flows
DOTZ solution	Fluorensic™ Tracers were inserted at PPB concentrations into fracking fluids to allow well flow monitoring Fluorensic™ maintains properties even after being exposed to elevated temperatures (400°F), pressure and chemicals
Results	Aims to improve production efficiency by 20% Different combinations of Fluorensic™ tracer used to monitor different fracking fluids, identifying leaks or optimisation potential Testing stages to determine viability. Average cost to build a Fracking well is US\$7M, 13k wells dug every year in N. America → \$90M

SAFE Fluorensic™ markers - manufactured from carbon sources only, contain no radioactive or toxic materials



ON SITE Fluorensic™ markers detected on-site, saving time and money



InSpec™ on site detection options

InSpec™ Forensic detector

ON-SITE, REAL-TIME, HIGH CONFIDENCE VERIFICATION

Parts per Billion detection capabilities

Light-weight briefcase

Rapid, Simple and On-site analysis

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Thank you

