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OVERVIEW

- Who are Syft Technologies
- Our History
- Our Products
- Our Markets
- Bio-security Sector

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Syft Technologies



- 30 staff in NZ
- 3 staff in UK
- 1 in USA
- 4 Distributors in Europe

3 Craft Place, Christchurch

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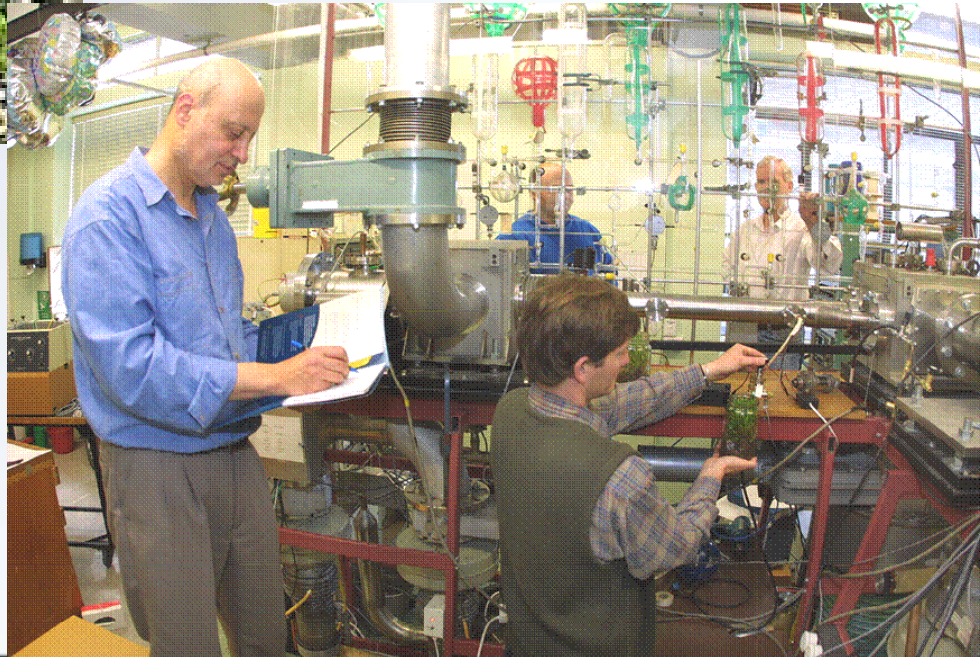
Origins of the Technology



NOAA 1962

University of Canterbury early pioneers

Long scientific pedigree



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syft[™]
Technologies

Benefits of the technology

- Extremely fast, sensitive analysis.
- Wide based applications (medical, security, food).
- Unique direct air measurement technology.
- Very cheap operating costs.
- Simple to operate.

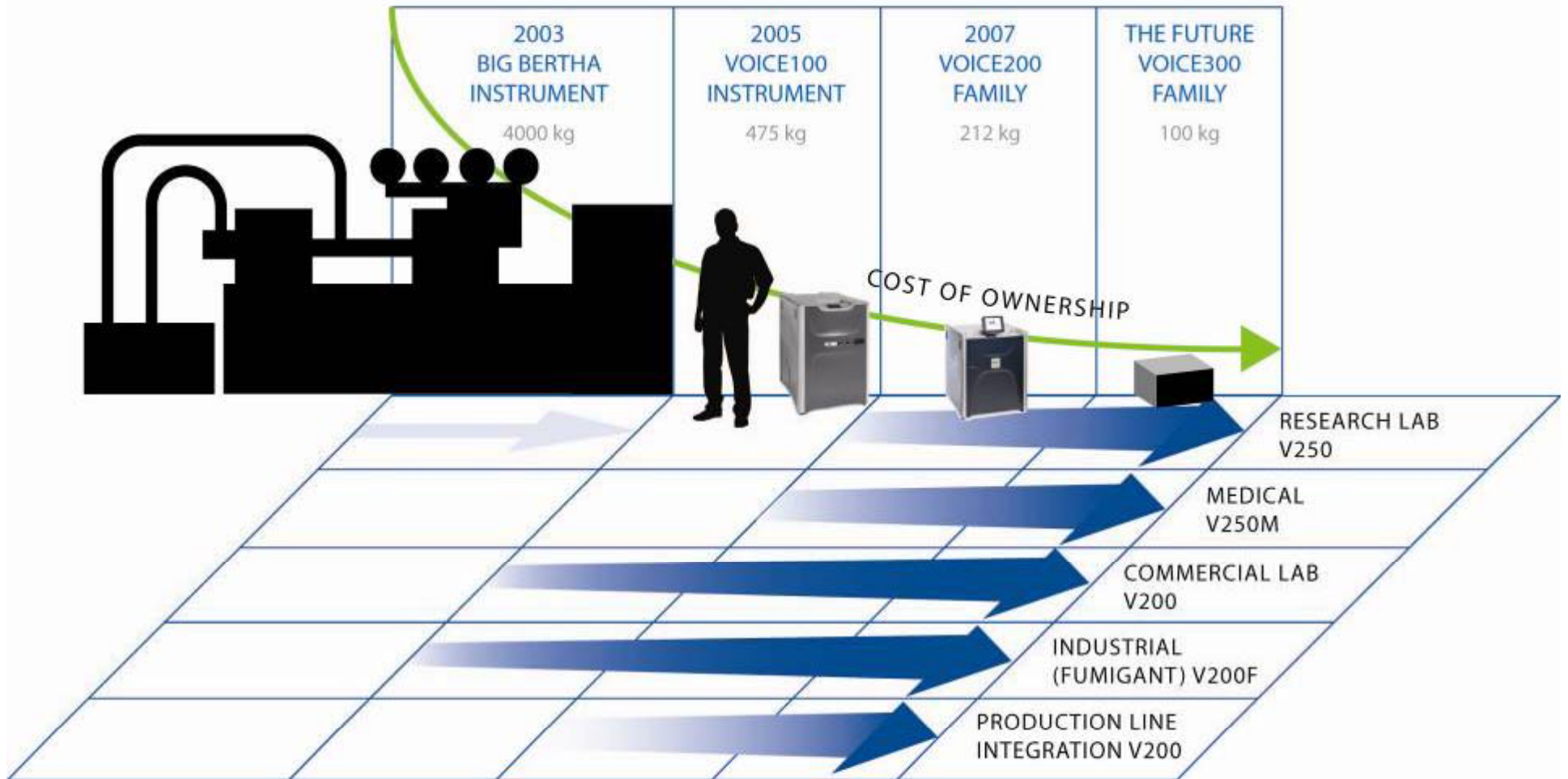
Why is it superior to other techniques?

- Real time detection coupled with lab grade sensitivity (ppt).
- Works in humid environments.
- Simultaneous detection AND quantitation in real time.

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Product Evolution



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V200 family



V100



- 50% smaller
- 5-50x more sensitive
- Lower cost
- Even lower operating costs

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Market Sectors



Container Security



Food and Flavour



Oil and gas



Medical

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Container Security

- Contraband
- Bio-security
- Human trafficking
- Drugs & explosives



LCD Panel - 1.0.0.9862

Syft Voice100	
Cocaine	0.01 Low
Heroin	0.05 Low
Amphetamines	-0.01 Low
Ecstasy	-0.01 Low
GHB/GBL	0.07 Low
Cannabis	-0.01 Low
TATP	-0.01 Low

Next Scan →

Off

Fast, simple, accurate and cheap

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Container Fumigation



40 foot containers

Global retailers are very large.....

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Contraband Example: Tobacco



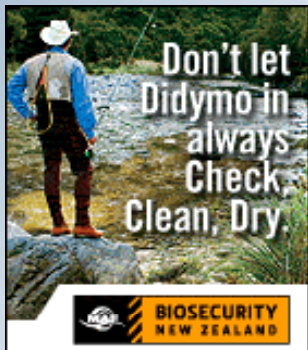
- Tobacco detection huge issue globally
- UK alone 'loses' £4bn pa
- Suits mass screening
- Currently trialling with HMRC

Only solution being tested by HMRC for tobacco detection

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Container Security: Biosecurity



- Major issue for New Zealand/Australia especially
- Economic impact of failure is huge
- Major pathway is via shipping containers
- Cannot scan with X-Rays

Need a solution that minimises logistical over-heads but delivers results

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Container Security: Biosecurity

- LOTS of containers, so screening has to be fast AND effective AND cheap.
- Current “screening” is ineffective
- Diverse range of threats, so solution has to scale well to cope with these
- Not a silver bullet but delivers a significant step in the right direction.

Container Security: Biosecurity

- Characteristics of a SYFT solution
 - Identification via volatile organic compounds
 - (Screen air space within the container)
 - No need to open the door
 - Rapid: (around a minute) to sample a 2TU container
 - Simple: works like a photocopier.
 - Low cost
 - Easy to add new threats

Several installed around the world being used to screen containers

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Container Security: Bio-security

- Finding a single aphid wont work, how many?
- Very sensitive (direct ppt measurements!), but always possible to “hide” a target.
- Need to test each* container
 - who pays?
 - who operates it?
- Characterise each separate threat...who does it?

Current inspection ratios are low, we can do better

Container Security: Biosecurity

- OPTION 1
 1. Characterise each separate threat and when satisfied, load the fingerprint into the machine and start screening.
 - Pros
 - Utterly accurate screening
 - Cons
 - Will take a huge amount of time (years) to work through each possible threat.
 - May not be always possible to ID every threat.

Container Security: Biosecurity

- OPTION 2
 2. Screen for fumigants down to trace levels, then screen for wood as dunnage (terpine compounds).
 - If fumigants are present then container is clean: PASS
 - If fumigants are not present AND wood is identified: SUSPECT
 - PASS = 50-60+% of all containers!*
 - SUSPECT = <10% of all containers
 - Balance are unknown without specific screening

**SYFT have tested 10,000+ containers*

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Container Security: Biosecurity

- Pros
 - Huge improvement in identification of SUSPECTS
 - Effective screen of about 60-70% of containers (compare with less than 0.5% now)
- Cons
 - Not perfect.
- Could make incremental improvements by adding specific screening tests as these are developed.
- No extra cost to add this to the test process.

SUMMARY

Syft already have a commercially proven solutions that can rapidly screen containers safely

By testing for Fumigants and Wood VOC's, the majority of issues can be eliminated

We are a NZ company wanting to add value to a serious NZ issue

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