MICRO-X Ltd

ACN 153 273 735

MX1: The Year in Review

Annual General Meeting:

24th October, 2017

Peter Rowland Managing Director, Micro-X Ltd.

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Overview:

- Nano
 - Carestream FDA 510(k) approval was achieved in 73 days
 - Some challenges encountered with transitioning x-ray tube manufacturing in USA from development to volume production
 - Mx Manufacturing Team deployed to North Carolina have solved problems
 - Final pre-commercialisation well advanced
 - Market interest very strong
- Rover
 - Successful trial by ADF and now under tender procurement action.
- MBI
 - Proof of concept demonstration very successful

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Tonsley Manufacturing Processes implemented and validated





- Sized for 4 units per day on single shift
- Training & Documentation in place
- Supply chain issues with transition to production solved
- Assembly times on-budget



ISO 13485 Accreditation



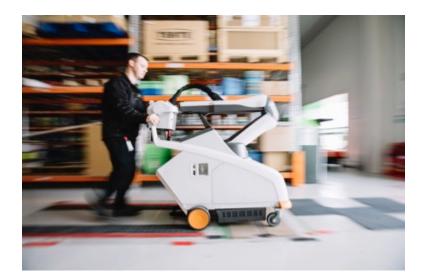
- Organisational Quality Management System
- Medical Devices version of ISO9001
- Achieved with only one audit



MX1: This year's Achievements Reliability Growth Testing completed to 10 Years



- 60 Patient Procedures per Day
 - = 220,000 cycles over 10 year life
- Reliability issues found and solved



X-Ray Tube Life Testing Completed to Five Years....and counting



- Stress Test of typical Nano Exposures
- One Shot every four minutes
- Test will continue utill failure



MX1: This year's Achievements Reliability Growth Design Improvements introduced



- 140 Design Improvements implemented for:
 - Reliability
 - Durability
 - Ease of manufacture



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'First from Production' Units Formally Accepted by Carestream Health





•First of anticipated A\$600k pre-launch orders

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Market Introduction: Carestream generating strong market interest world-wide

Carest	ream			Sign In Select your location \$ Search			
► Solutions	► Products	► Service and Support	► Corporate	► News & Events	► Contact Us		
Home > Radiogr	raphy > CARESTRE	AM DRX-Revolution Nano Mobile	X-ray System				
 DR Systems DRX-1 System DR Detectors DRX-Mobile Retrofit Kits DRX-Revolution DRX-Revolution Nano DRX-Revolution Plus DRX-Ascend System PRO Retrofit System Computed Radiography Fluoroscopy Analog Systems Motion Mobile Software Printing Systems Film Systems 		Mobile X-ray Revolutionary Per The DRX-Revolution motorized system the in cramped critical of Fully integrated of Carbon nanotube iron phosphate b with a total weigh A sleek design w around the syste A compact footprise and position in the	<section-header> CARESTREAM DRX-Revolution Nano Mobile X-ray System Revolutionary Performance On A Smaller Scale The DRX-Revolution Nano system is a lighter weight, non- motorized system that is easier to move and position even in cramped critical care areas. The new system includes: Fully integrated digital workflow Carbon nanotube technology and an advanced lithium iron phosphate battery that contribute to longer life with a total weight of approximately 200 pounds; A selek design with enhanced visibility both over and around the system; A compact footprint that makes it easy to maneuver and position in tight spaces; and Available to use with all Carestream DRX Detectors </section-header>				

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Market Introduction: Carestream generating strong market interest world-wide



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•Nano's Trade Show Itinerary last

12 months:

- •RSNA, Chicago, 1st Dec
- •Arab Health, Dubai, 30th Jan
- •ECR Vienna, 2nd March
- •Genoa, Italy, 6th April
- •Sao Paulo, Brazil, 4th May
- •Leipzig, Germany, 24th May
- •Manchester, UK, 12th June
- •Anaheim, USA, 9th July



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Rover: Contracted Ph 1 Demonstration of Rover Environmental Suitability



- 2nd General Health Battalion, ADF
 Deployment Exercise 'Giant Viper' Nov 2106 in Qld
- Fully Deployed Medical Facility
- Rover use trials in
 - Operating Theatre
 - Resuscitation Unit
 - Intensive Care Unit
 - Radiology Unit
- Ph 2 higher x-ray power demonstration in preparation

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Rover: Tendering to Australian Defence Force: Joint Project 2060



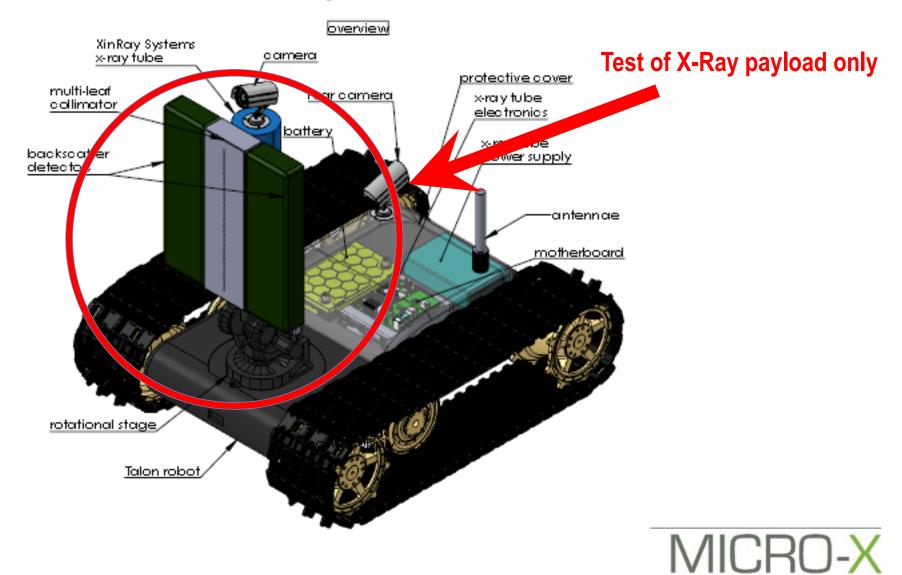
- \$400M 'Turnkey' Defence Acquisition Project to supply fully-equipped new Deployable Health Facilities
- Five prime contractors bidding in competition
- All five have requested bids from Micro-X for Radiology Imaging Suites
- Tenders close Nov 2017
- Contract award in 2018/9

DoD Contract: Backscatter Proof-of-Concept Demonstration

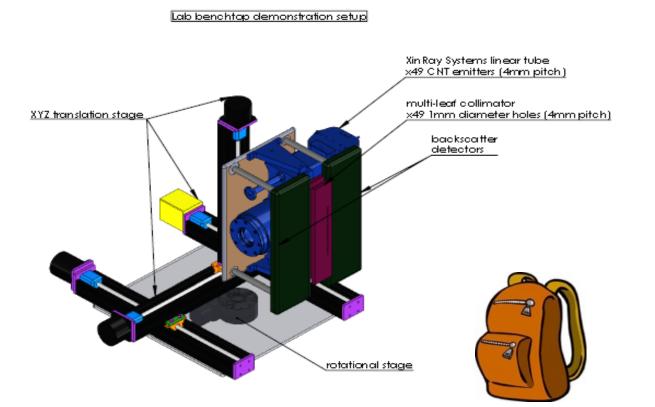


- Assisted and/or attended by:
 - ADF Counter-IED Task Force
 - Australian Federal Police
 - US Office of the Secretary of Defense
 - ADF Explosives Ordnance Disposal
 - SA Police Bomb Squad
 - Defence Science & Innovation
- Completes DoD contract
- Voice-of-Customer started yesterday
- Higher capability product now envisioned
- Further DoD funding in prospect
- First working prototype in 12 months

Mobile Backscatter Imager - Product Concept



MX1: This year's Achievements: MBI: Contracted Imaging Demonstration of MBI Proof-of-Concept



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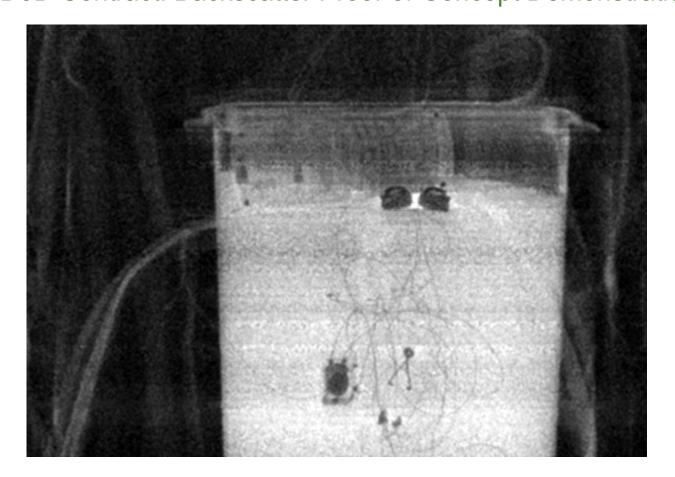
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MX1: This year's Achievements: MBI: Contracted Imaging Demonstration of MBI Proof-of-Concept



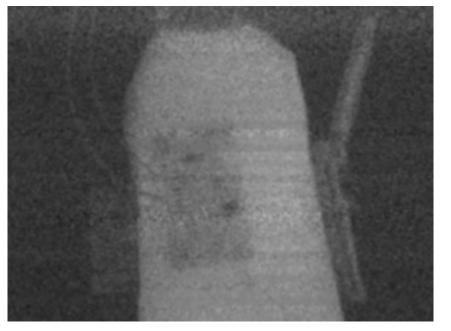
• X-Ray tube with 75 emitters used in the demonstration

MX1: This year's Achievements DoD Contract: Backscatter Proof-of-Concept Demonstration

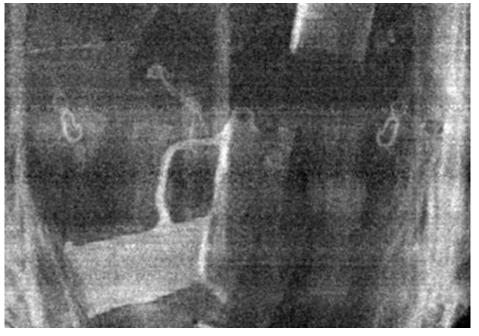


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MX1: This year's Achievements DoD Contract: Backscatter Proof-of-Concept Demonstration



Imaged through metal



Imaged inside backpack



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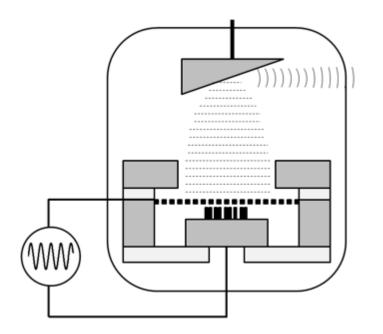
Foundations laid for Future Security Business in USA: Micro-X Inc. established in USA Agreement signed with Lawrence Livermore National Laboratory



- Collaboration follows visits by Home Made Explosives experts from US Department of Homeland Security & Counter Terrorism Technical Support Office to Tonsley
- Micro-X Chief Imaging Scientist based in USA
- Mx & LLNL preparing joint applications for DHS funding
- Focus on Backscatter and Phased Array Imaging HME materials characterisation



MX1: This year's Achievements Patents Lodged for New Imaging Modality



• The x-ray beam can be modulated because the CNT x-ray tube is electronically controlled

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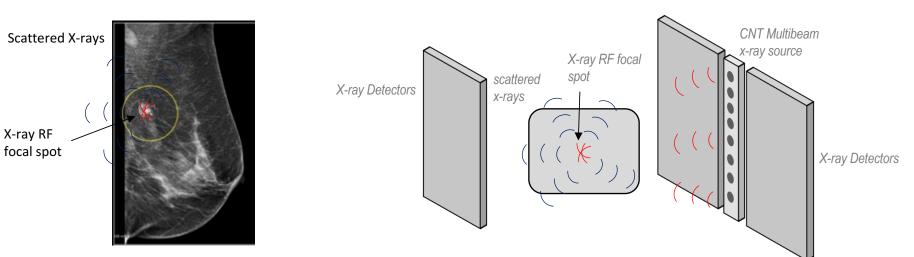
- Beam modulation can be used in an array for beam steering and for getting distance information
- Thus single viewpoint 3-dimensional imaging is possible



Phased Array X-ray Scatter Radar

Game-Changing Imaging Modality

Medical Applications

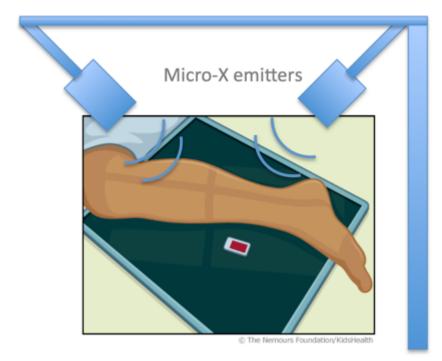


Security/Non-Destructive Testing

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- > Beamforming can concentrate X-ray dose in small focal point away from array.
- > By focusing the X-rays within an object the coherent scatter can be measured.
- > Coherent scatter uniquely identifies a material.
- > Security Applications: *More accurate discrimination of threat items from 3D view*
- Medical Applications: Tissue biopsies with X-rays

MX1: This year's Achievements: New Product Concept: Bedside Cone-Beam CT – First Proof -of-Concept Images



- Multiple X-Ray sources
- Rapidly switched using CNT control
- No tube motion
- Nano technology minimises Tube Head weight



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Product Opportunity: The current definition of Mobile CT





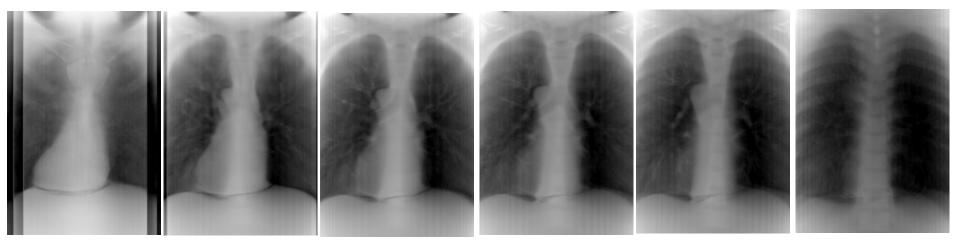
Product Opportunity : Bedside CT

Tomosynthesis Proof of Concept Test – Conventional Chest Image using Nano



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Possible Product Opportunity : Bedside CT Proof of Concept Test – Initial Reconstruction from Nano Images





The coming months in prospect :

- Nano Trade Trials in USA
- Nano CE Marking
- Nano First Customer Shipments
- High Power Rover Ph2 Imaging Demo
- MBI Voice-of-customer trials
- US engagement with DHS



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Thank You; Any questions?