Stardust

- Applications
- Technology
- Strength & Stability
- Current Capabilities

INTRODUCTION

❖ Timber Supply Chain Control
- Chain of Custody Documents
- Permits, Warehouse Receipts
- Barcodes
- Satellite Survey

❖ Stockpile Security

- CITES restricted species, Timber and Wildlife
- Rosewood, Ivory, Ebony, Coral etc.
- Ownership Integrity
- Links physical goods to custody documents
- Stops Laundering and Stockpile Swell

❖ Law Enforcement

- Controlled Delivery Investigations
- Pilfering, Theft
- Diversion, Dilution
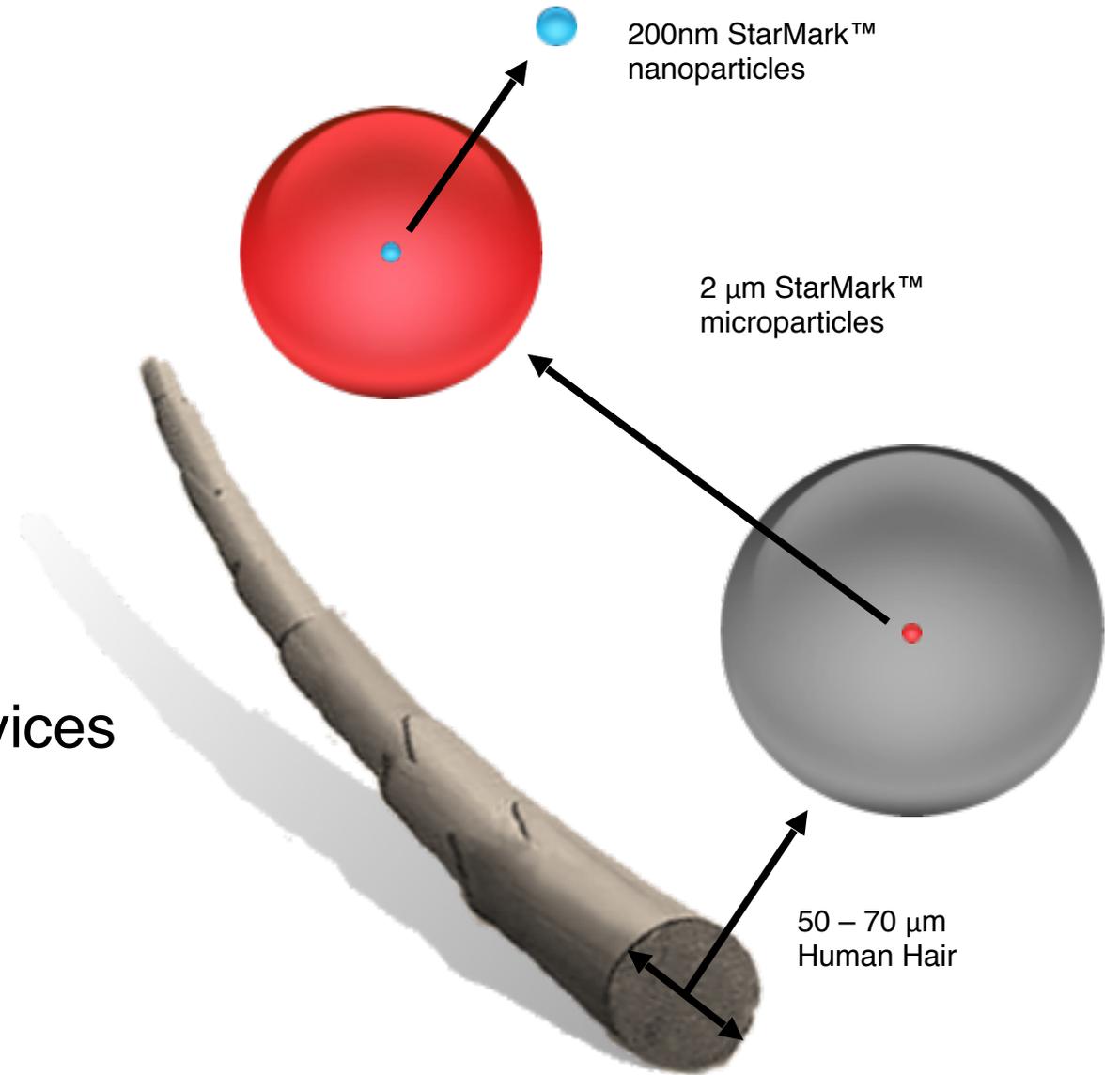- Anti-Corruption Techniques
- Court Admissible Evidence

APPLICATION

Stardust

❖ Technology

- Microscopic optical markers
  - Proprietary
  - Covert
- Hand-held, in-field detection devices
  - Instant authentication
  - Non-destructive
  - Multiple markers

200nm StarMark™ nanoparticles

2 µm StarMark™ microparticles

50 – 70 µm Human Hair

TECHNOLOGY

Stardust

❖ Strength & Stability

- Thermally and chemically stable

- Extremely lightfast

- Very long lifetime

- Nearly impossible to reverse-engineer

- Inert and nontoxic

  - Will not damage wood products or people

❖ Security Printing and Inks

- Supplier to US, Mexico, Germany, Thailand, Indonesia - Government Printers
- Tax Stamps
- Official Documents, Permits, Transport Papers
- Invisible Serialization, QR Codes
- Overt Features in addition to covert features
- Layered Security prevents forgery

❖ Security Printing Recommendation
- Watermarked Security Paper
- Embedded UV fibers
- Serialization
- Covert IR duplicate serialization (StarMark)
- Controlled and Secured Document Custody

APPLICATION

❖ Spraying

- Spraying – Manual Spray Can – Variable marking amount
- Spraying – Metered Spray Can or Pump – measured marking amount in controlled environments

❖ Wood Marking

- Spray Paint Can – Multiple Colors for Different SMC teams at regional level
- Paint has embedded markers only detectible with IRIS
- Application of mark can be validated as soon as paint dries
- Controlled and Secured Chain of Custody
- Logbooks for inventory
- Covert features can be validated on export and again at import of buyer by law enforcement or NGO investigators

❖ SABRE - Bluetooth Phone App

- Reads data from IRIS tester
- Controls tester
- Adds Geolocation to Authentication of Marker
- Adds Timestamp
- Adds User Data
- Incorporates into supply chain management protocols
- Allows user entered notes, site information, misc. data

❖ SABRE Mobile Application (cont.)

- Accessing results/data from website

- Varying levels of information based on tiered access

- Highest levels have total access to view and edit with update commentary

- Lower levels have less oversight and cannot edit information

CURRENT CAPABILITIES

❖ SABRE

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CURRENT CAPABILITIES

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❖ Printing (post press)
- Handheld Invisible Printing
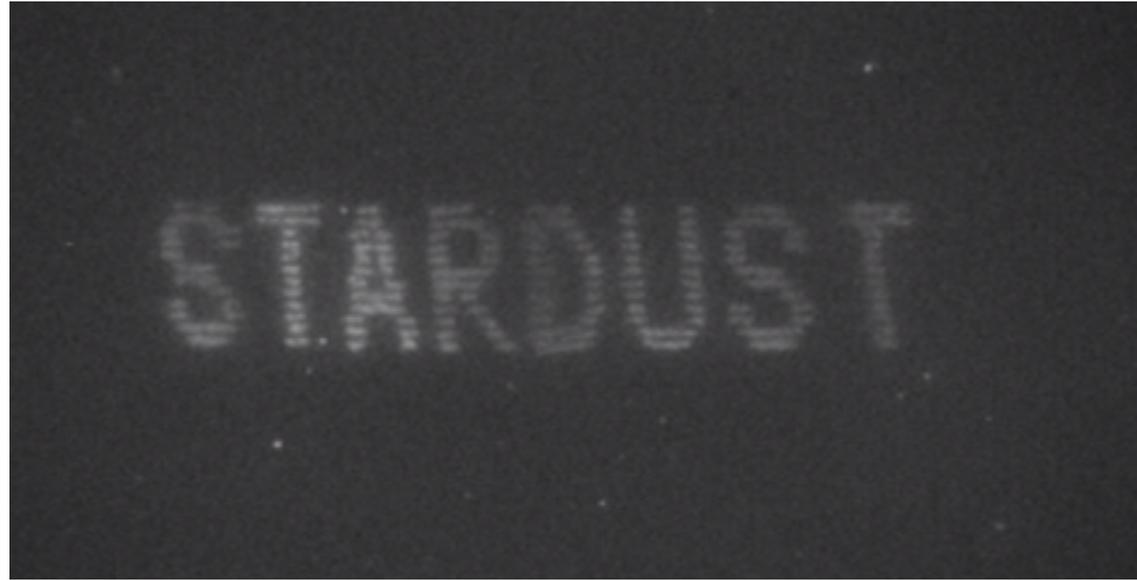
Stardust

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