# SAMS

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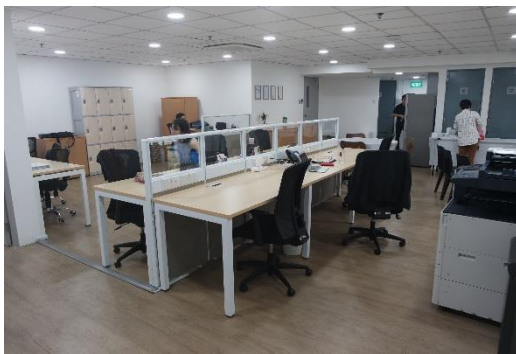
## COMPANY PROFILE

eWaste Recycling & ITAD Services

# Sustainable Asset Management Solutions

www.samsolu.com

# OUR FACILITY



Facility located      : 31 Penjuru Lane, 04-01/02, 06-02 & 08-02, Singapore 609198

Total Facility Size   :      Office Size             : 2,000 square feet

**42,500** square feet      Recycling Facility     : 13,500 square feet

                                     ITAD Facility          : 13,500 square feet

                                     Warehouse            : 13,500 square feet

# SAMS AT A GLANCE

## Who We Are

- Founded in Q2 year 2017 - headquartered in Singapore
- **R2V3 Certified Electronic Waste Management company**
- **ISO 9001,14001,45001 and 27001 certified with TAPA FSR Level A facility**
- Services Local, Regional and Global markets
- Pending expansion into parts of Asia

## What We Do

- Sustainable Lifecycle Management of ICT Assets & Inventory
- Electronics Waste (eWaste) Recycling
- IT Asset Disposition (ITAD) Services
- Repair, Refurbish & Repurpose capabilities
- Value Recovery & Asset Remarketing
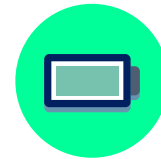- Confidential Document Destruction

# SERVICE SOLUTIONS

## Electronics Recycling

- Environmentally Responsible Recycling
- Proprietary and customised In-house Shredding Capabilities
- Product Reuse & Repurposing
- Downstream Vendor Management

## ITAD Services

- Secure Data Sanitization *wipe, degauss, shred*
- Repair & Refurbishment
- IT Asset Remarketing
- IT Asset Reporting
- Field Service Support
- Onsite & Offsite activities

## Battery Management Services

- End-of-Life Management for Secondary Batteries (portables, industrial)
- Customised and Sustainable Recycling and Reuse Solutions
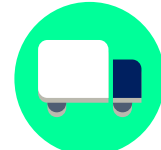- Ensuring Legal Compliance with Local, Regional & Global Legislation

## Intellectual Property Protection

- Product Destruction
- Confidential Document Shredding

## Value Recovery

- Remarketing of EOL, Surpluses, Obsolete Electronic Inventory
- In-house E-commerce Platform

## Reverse Supply Chain

- End-to-End Chain of Custody
- Warehousing & Fulfilment
- Cross Border / Regional Support
- Advice on Waste Handling, Storage, Processing & Transportation

# DATA DESTRUCTION SERVICES



**DATA WIPING**

- Software-based technology from single pass wipe to 35 pass wipe
- Supports multiple data erasure methods and formats
- HDD, SSD, Cell Phone & Tablet

**DEGAUSSING**

- Conforms to NIST 800-88 r1 guidelines
- Meets CESG standards
- Generating peak fields up to 18,000 gauss/Oersted's

**PHYSICAL DESTRUCTION**

- Hard Disk Drive (HDD) V-bend
- Solid State Drive (SSD) puncturing
- HDD, SSD & Flash Drive shredding
- Available both ONSITE & OFFSITE
- Single Phase, 230V 50 Hz shredder

**Data Sanitization Services meets International Data Destruction guidelines and are in compliance with multiple International erasure standards including :**

- U.S. Department of Defence (DoD) Standard 5220.22-M
- HMG Infosec Standard 5
- DIN 66399 (Deutsche Industrial Norm)
- NIST SP 800-88r1
- GDPR (General Data Protection Regulation)
- HIPAA (Health Information Portability and Accountability Act)

# DATA DESTRUCTION SERVICES

## DEGAUSS

**Media : Hard Disk Drive , Magnetic Tape**

Degaussing Cycle : 8 seconds per drive

- Generating peak fields up to 18,000 gauss
- Meet CESG & NIST 800 88 r1 standards



## PHYSICAL DESTRUCTION

### Shredding

**Media : Hard Disk Drive , Solid State Drive , Flash Drive , Optical Disc , Microfiche**



## PHYSICAL DESTRUCTION

### V-Bend / Puncturing / Drilling

**Media : Hard Disk Drive , Solid State Drive , Flash Drive**

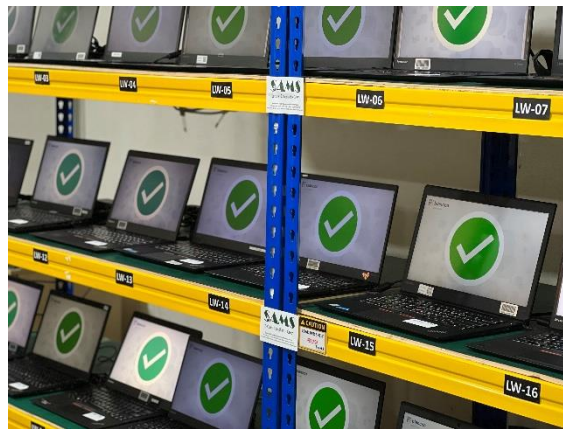Physical destruction in less than 18 seconds

- bending, breaking, and mangling
- puncturing with 90 interlocking spikes

# DATA DESTRUCTION FACILITY


Multiple Bay Loose Hard Disk Wipe


Multiple Laptop & Desktop Wipe


Cell Phone & Tablet Wipe


Data Capture & Validation Checkpoint


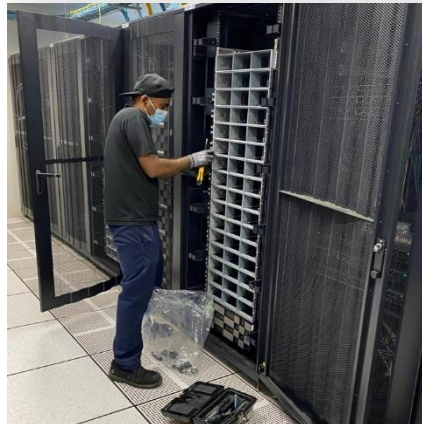Functional Testing Stations


Degauss, Destroyer & Shred Capabilities

# FIELD SERVICE SUPPORT- ONSITE SERVICE

- Provides mobile on-site data destruction services
  - Data Wipe
  - Degauss
  - Crush & Shred

- Packing & Transporting IT assets

- Trained & uniformed personnel

- Customized logistic pickup services

- Vehicles with GPS tracking

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# ONSITE AUXILIARY ITAD SERVICES

Value added services such as inventory validation, storage media to equipment parent-child serial number tracking, data destruction


Serial Number Barcoding & Recording


Asset Serial Number Verification & Tagging


Storage Media Extraction & Data Destruction


Asset Data Capture

Private & Confidential

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# OFFSITE DATA & PRODUCT DESTRUCTION SERVICES

Customized pickup service by trained uniformed personnel

CCTV archived recording of end-to-end process

Locked and security-sealed tote bins for secure transportation

Special purposed shredders (5 units) available for customized destruction

GPS tracking of transport vehicle

Secure online client access for monitoring *(by special arrangement)*

Storage and Processing in TAPA FSR Level A facility

Activity and Process Reports for audit and tracking detail

Scanning for Asset Trace & Track

Certificate of Destruction (COD) upon successful destruction

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# DATA CENTER SERVICES

**01 Decommissioning**

Retiring or shutting down IT equipment when replacing new hardware disposing of the old ones

**02 On-site Data Sanitization**

Provide on-site erasure or drive shredding with certificates issues

**03 Testing, Grading & Refurbishment**

Assets are tested & grading with in-house diagnostics system and go through a rigorous refurbishment process.

**04 Deployment Service**

Packing and shipping of assets with complete chain of custody and asset tracking

**05 Resell/ Remarket**

Create new markets and expand existing ones on ways that maximize hardware value and increase sustainability

**06 Recycle obsolete or proprietary Equipment**

Recycle obsolete or proprietary equipment in most environmentally manner and ensure compliant with environmental policies & regulations

**07 Disposal Service**

Validate the discard asset and dismount from the server rack

# POST-SHRED SIZES (ON-SITE SHREDDING)



3.5" Enterprise HDD
DIN 66399-H4 (18 mm wide blade)



2.5" Enterprise HDD
DIN 66399-H4 (9 mm wide blade)



SSD 3-Stage Shred
DIN 66399-E5 (2mm particle size)



Thumb Drive 3-Stage Shred
DIN 66399-E5 (2mm particle size)



Magnetic Tape Disk
DIN 66399-T2 (18 mm wide blade)



1.44 MB Floppy Disk
DIN 66399-T3 (9 mm wide blade)

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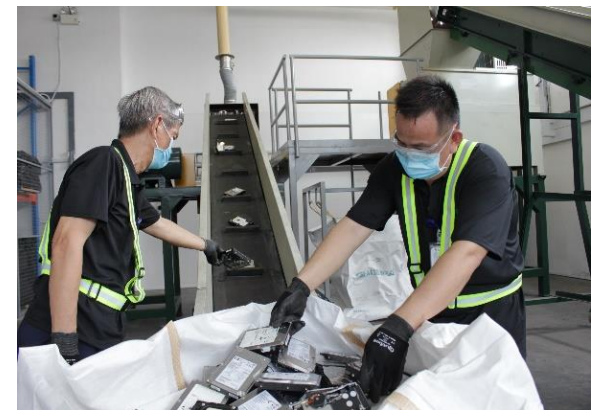# ELECTRONICS RECYCLING SERVICES



## Sorting

- Segregate into various Asset / Commodity Groups
- Kitting into labelled & marked containers for tracking and easy retrieval
- Identifying non-compliant materials *(if any)*
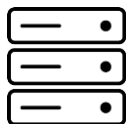- Value Maximization

## Demanufacturing

- Dismantling to various Waste Stream types
  - *Metals, Plastic, Circuit Board, Rubber, Glass, etc*
- Managing Waste Streams distribution to proper downstream recycling channels
- Waste Minimization

## Physical Destruction

- Shredding & other physical destruction methods to deem materials non-functional
- Size reduction of circuit boards & components leading to Precious Metals Recovery
- Intellectual Propriety Protection
- Certificate of Destruction (COD)
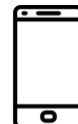
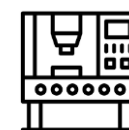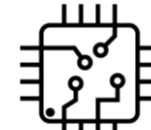Server   Laptop   Desktop   Monitor   Printer   Cell Phone   Tablet   Various Equipment   Components   Circuit Boards

# ELECTRONIC WASTE RECYCLING SERVICES



## SORTING

- Ensuring compliance to SAMS' Asset Acceptance Plan
- Segregating into various Asset / Product Category
  - ❖ ICT Equipment *: Mobile Phone, Laptop/Desktop, Tablet, Server, Printer, Networking Equipment etc*
  - ❖ *Focus Materials : Ink/Toner cartridge, Lithium Ion Battery*
- Kitting into labelled containers for tracking & retrieval
- Value Maximization

# ELECTRONIC WASTE RECYCLING SERVICE



## DEMANUFACTURING

- Dismantling into various Waste Stream types
  - ❖ *Metals , Plastic , Circuit Boards , Glass , Rubber etc*
- Captures individual waste stream's net weight
- Managing waste streams distribution into proper downstream recycling channels
- Records & Reports into ERP system

**SAMS**
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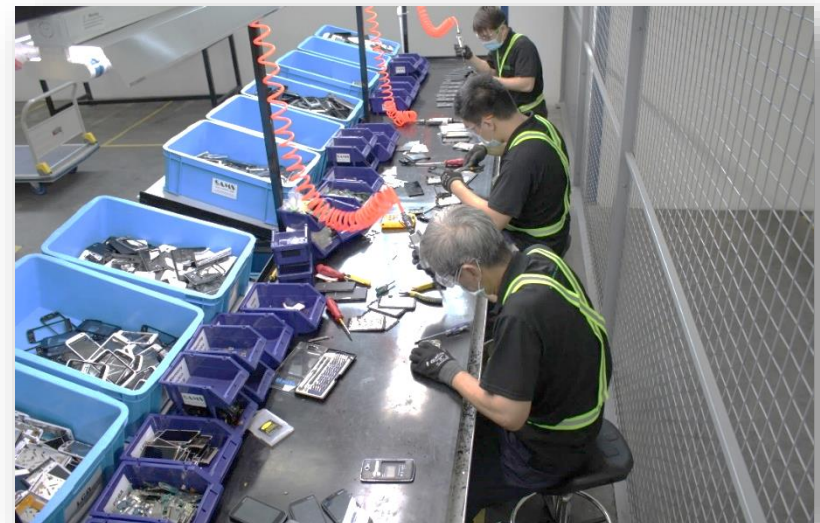# ELECTRONIC WASTE RECYCLING- DEMANUFACTURING


Desktop Demanufacturing into Waste Streams


EOL / Surplus Electronic Merchandise


Customer Takeback Program- Bulky Machine


Dismantling Cell Phone & Accessories

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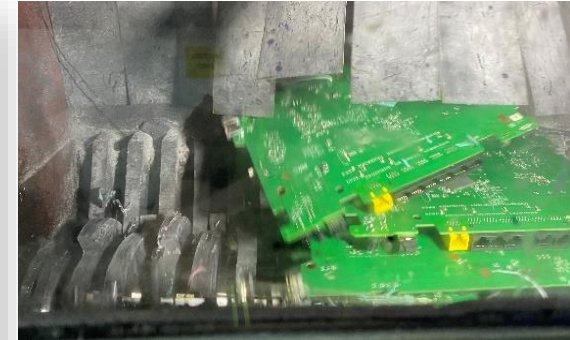
# DESTRUCTION -SHREDDING SYSTEM



1) Twin Shaft Shredder for shredding hard materials eg HDD
2) Single Shaft Shredder with screen and pusher for shredding softer materials - throughput sizes 7mm-40mm

Shredding System No 1 (Twin Shaft Shredder)

Shredding System No 2 (Single Shaft Shredder)

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# ASSET TRACKING AND REPORTING

Online tracking portal for data security and transparency

**24/7/365 Access from Anywhere Anytime**

**Shipment Tracking Report**

**Automated Email Notification**

**Online Visibility to Reports**

**Real Time & Transparent Data**

**Mobile Apps Friendly**

**End-to-End Inventory Tracking**

**Highly Secured Data Storage System**

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Client Tracking Portal
Username:
Password:
Log In

# FACILITY SECURITY MANAGEMENT SYSTEM

**TAPA FSR Level A Certified**

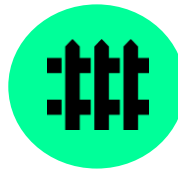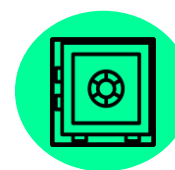| | | | | |
|---|---|---|---|---|
| Facility Security | Security Operations Center | HID card-based access | Walk Through Metal Detectors | Process Security |
| Uniformed Guards | 24/7 Video Surveillance | High Security Fence/Enclosure | High Value Cage | Background Checks |

- 24/7 electronic video surveillance – up to 90 days recording archive
- 24/7-armed Intrusion Detection System
- Employee and Visitor screening at all entry and exit points
- On-site uniformed security guards stationed at strategic locations
- Walk Through Metal Detectors and portable wand scanning
- HID card Access throughout the facility
- Metal Fencing with enhanced access control (critical operations & storage areas)
- High-Security Cage for high value and sensitive materials
- Background screening and nondisclosure agreements for all employees

# COMPLIANCE CERTIFICATION

Certified to the following standards :

- ☐  **ISO 9001 : 2015**        Quality Management System (QMS)
- ☐  **ISO 14001 : 2015**      Environmental Management System (EMS)
- ☐  **ISO 45001 : 2018**      Occupational Health and Safety (OH&S)
- ☐  **ISO 27001 : 2013**      Information Security Management System (ISMS)
- ☐  **R2V3 - Responsible Recycling : 2013**
- ☐   **TAPA Freight Security Requirements Level A**
- ☐  **bizSAFE Enterprise Level Star**

# KEY MARKET DIFFERENTIATORS

## Why Choose SAMS?

- Fortified Facility with high end security system and processes
- Carbon Footprint assessment, Sustainability Reporting and reduction initiatives
- Compliant with Local, Regional and Global e-waste legislation
- Intellectual Propriety Rights (IPR) Protection
- Data Breach Risk Management
- International Accreditation and Certification standards
- Customer portal accessibility for transparent reporting
- Corporate accountability in environmental, social and corporate governance
- Value maximisation of asset recovery
- Secure Chain-of-Custody and Asset Tracking
- Program customization catered explicitly to customers' needs
- Transparency in Downstream Vendor management

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