

The background of the slide is a collage of industrial images. On the left, there are blue industrial motors. In the center, a worker in a red safety jacket and white hard hat is looking at a laptop. On the right, there are large industrial gears. The entire image is overlaid with a white geometric grid pattern.

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Reliability

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## Maximize the Value of your MRO Data

Presented by:

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**Troy Miller from I.M.A. Ltd.**

November 3, 2021

# Meet the Speaker



## Troy D. Miller

*Vice President and Chief Operating Officer*

- 
- 25 years working with asset intensive organizations
  - Master Data Quality Manager ISO8000:2009
  - Started with I.M.A. Ltd. In 2012



Collect • Clean • Govern • Apply

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Maximize the Value of your Material Master Data

## POLL QUESTION No. 1



Have you embarked on a data cleansing initiative?

(Click only one answer)

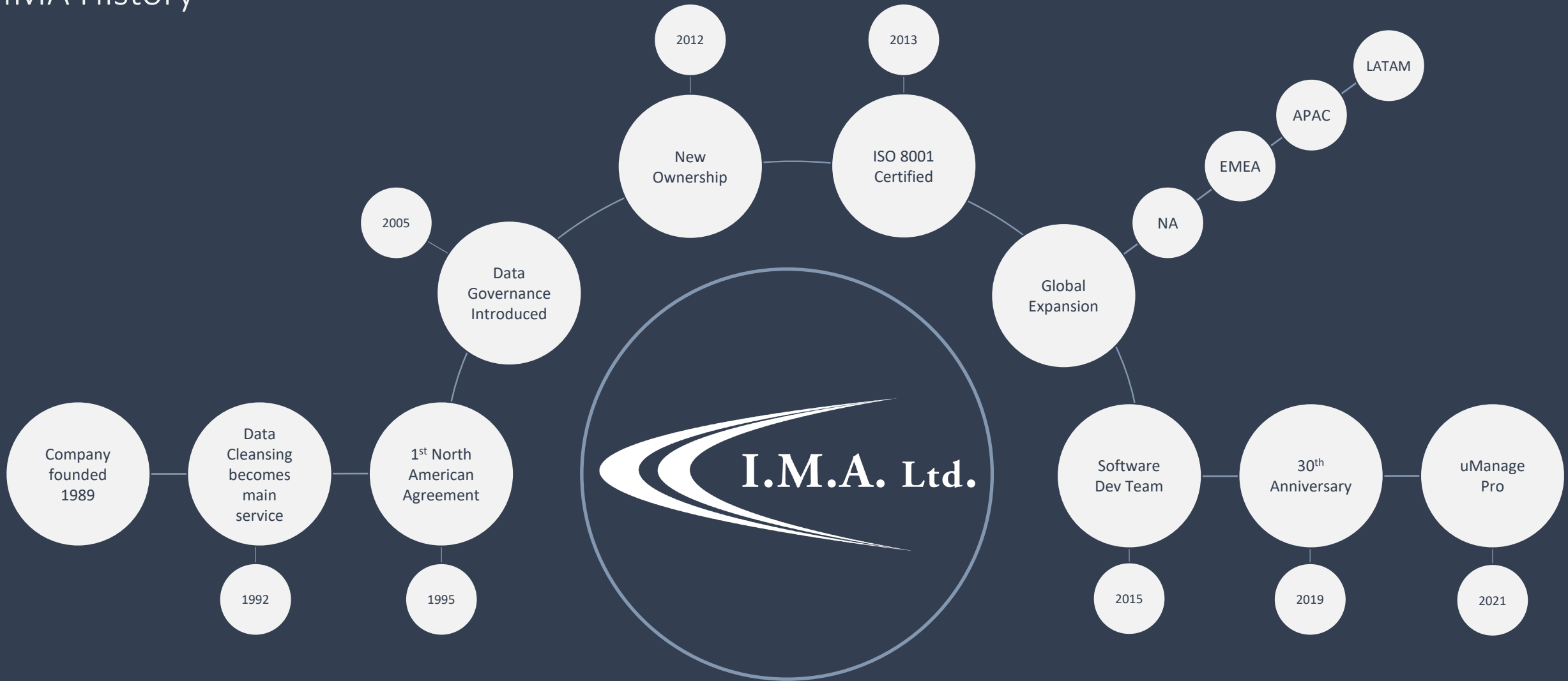
- Yes
- Plan to within the next 6 months
- Plan to within the next 12 months
- No

# Agenda

1. I.M.A. Ltd. Introduction
2. Material Master Data Challenges
3. The Data Excellence Journey
  1. Collect, Evaluate, Plan, Clean, and Govern
4. Data Application
5. Q & A



# IMA History



# Material Master Data Challenges

## Typical Data Faults

- Duplication
- Spelling Mistakes
- Inconsistency
- Inaccuracy
- Incompleteness
- Incorrect Formatting

## Challenges

- Difficulty Searching
- False Stock-Outs
- Spot Buys
- Excess Inventory
- Limited Spend Visibility
- Unreliable Reporting

# How did my data end up like this?



Unrestricted User Access



No formal data schema or standards



Company Merger and Acquisition



Multiple ERP/CMMS' operating simultaneously



# How did my data end up like this?

 User 1

Writing instrument,  
pen, blue ink, clip

 User 2

Blue pen



 User 3

Pen, ballpoint,  
retractable, medium,  
blue

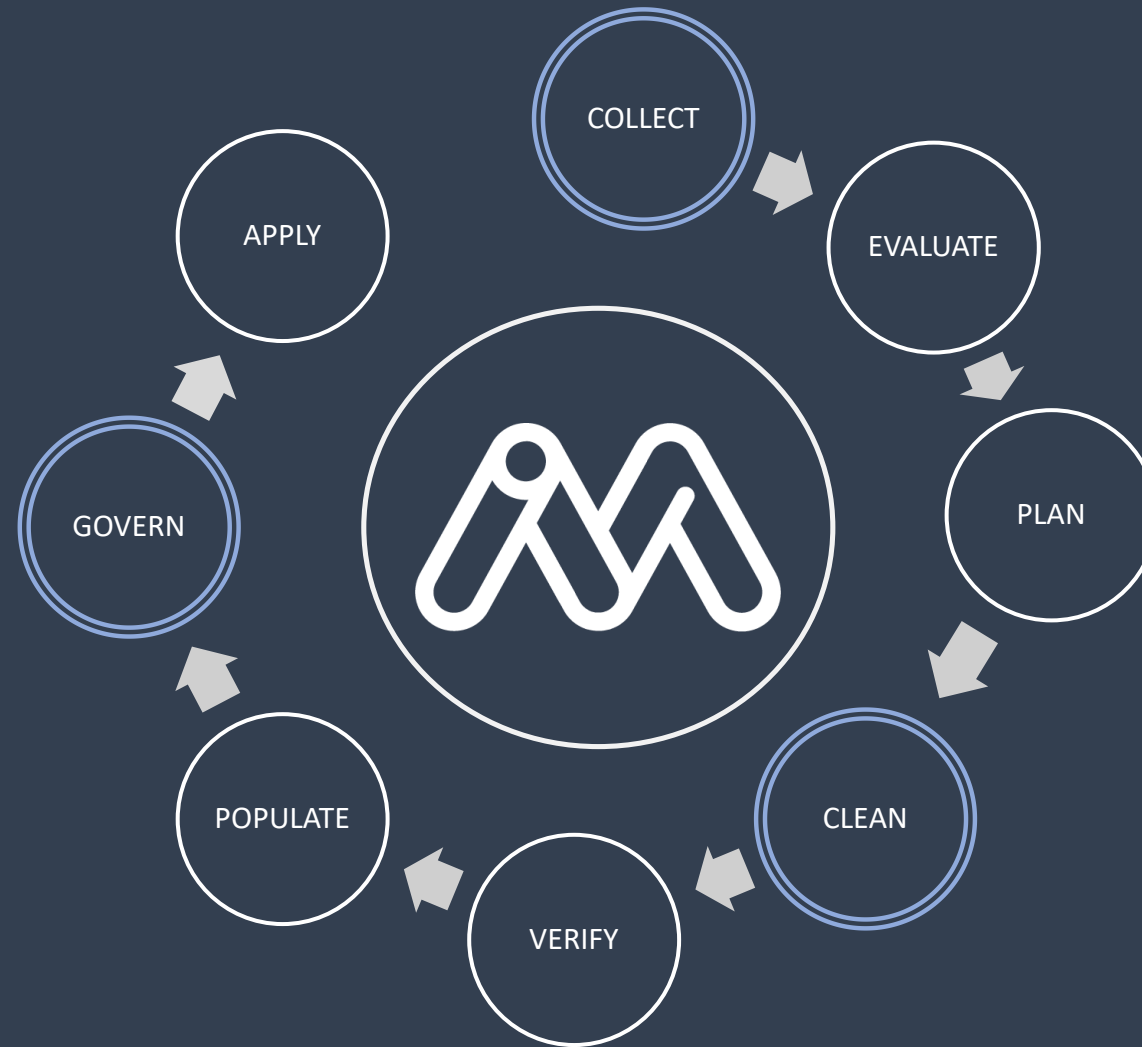
 User 4

BIC, PN ABC123

INSTRUMENT, WRITING, PEN, BALLPOINT, RETRACTABLE, MEDIUM, BLUE, BIC, ABC123

( Category ) ( Attributes )(Mfg. + Part #)

# Material Master Data Excellence Journey



### Capture ALL Material Master Data

#### Physical Data Capture

Identify and collect pertinent part information:

- Manufacturer Name
- Manufacturer Part Number
- Item Number/Stock Number
- Part Description
- Image (optional)

#### Digital Collection

Extract from:

- Current CMMS/ERP/EAM
- Legacy system(s)
- Critical Spare lists
- Bill of Materials
- Vendor Managed Inventory

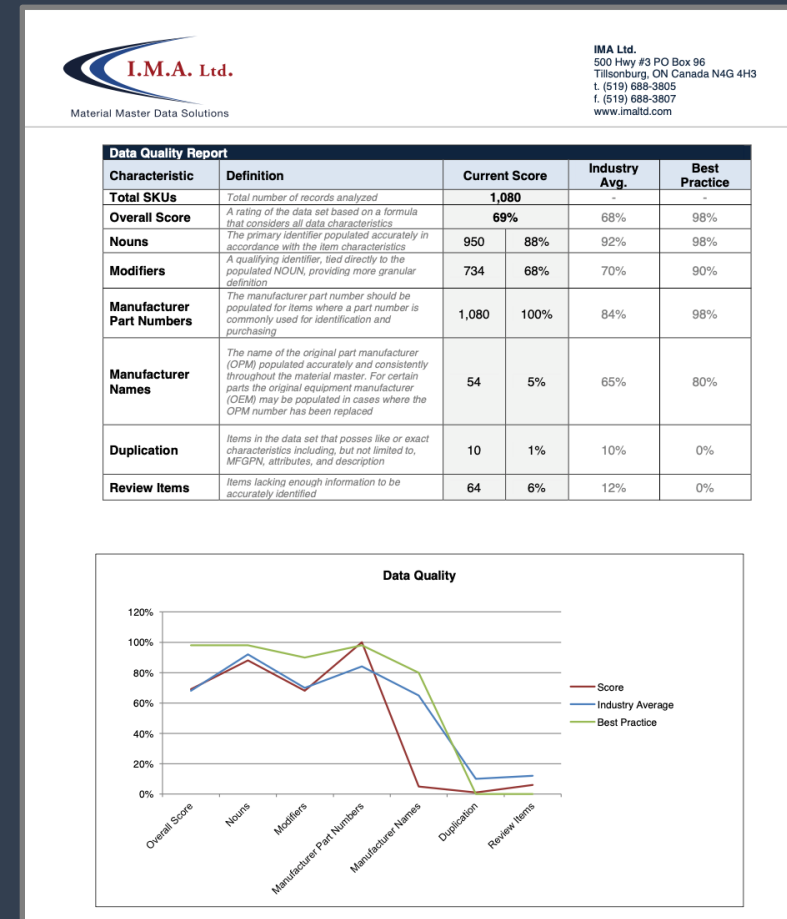


# Material Master Data Services

## EVALUATE

### Determine current state of Material Master Data

- Number of line items
- Consistency of categories (Noun / Modifiers)
- Manufacturer naming table
- Item Number/Stock Number
- Part description quality
- Attribute population
- Duplication
- Incomplete/Unidentifiable Items
- Character limitations



# Material Master Data Services

## PLAN

Determine Data Requirements to ensure Quality Outcome

### Data Schema

- Clearly defined Categories, Sub-Categories, and associated Attributes

### Data Standards

- Identify how data is to be populated
  - Full or abbreviated category names
  - Attribute value specifics where required
    - Ex. Totally Enclosed Fan Cooler = TEFC

### Formatting

- Description build requirements
  - Ex. 40 character description = Part Number, Category, Attribute 1
- Data Upload Field Name and Type
- Comma Separated built descriptions or Label:Value format

### Duplication Definition

- Exact MFG Name and Part Number
- Form, Fit, and Function

### Codification

- UNSPSC, Custom code set, Customer coding



# Material Master Data Services

CLEAN

## Original Item Data Description

Bearing, 25 mm ID, SKF, 6205-2rs/c3

### Original Data Identification and Verification

Category = BEARING

Inside Diameter = 25MM ID

Manufacturer = SKF

Part Number = 6205-2RS/C3

### Library Enhancement and Data Research

Outside Diameter = 52MM ID

Width = 15MM WD

Type = CONRAD

Row = SINGLE ROW

Series = LIGHT DUTY

Style = 2 SEALS

Clearance = C3 CLEARANCE

Cage Material = STEEL

### New Item Data Description

BEARING, BALL, 25MM ID, 52MM OD, 15MM WD, CONRAD, SINGLE ROW, LIGHT DUTY, 2 SEALS, C3 CLEARANCE, STEEL, SKF, 6205-2RS/C3

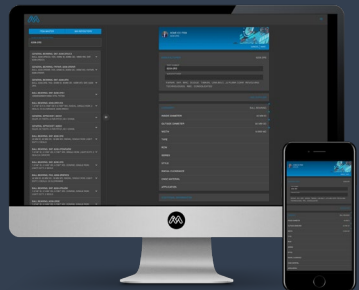
### Codification

UNSPSC = 31171504

IMA PRODUCT GROUP = 0101 BALL BEARINGS

# What is Data Governance?

Managing data inputs according to a defined schema and set of rules to ensure a consistent output.



# What is Data Governance?

## Key Considerations for Data Governance

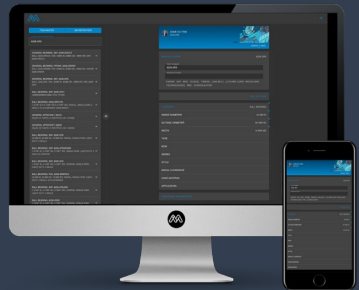
Will the solution adapt to my custom data schema?

Is my rule set and data standards embedded in the solution?

Are we limited to a specific number of users?

Will value inputs be managed to be consistent regardless of user?

Does the tool fully integrate with my CMMS?





# Data Application

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## Maximize the value of your Material Master Data

### Duplication

- 10% average item duplication within an un-cleansed material master
- 25% of the duplicate value is available for inventory reduction

### Procurement

- 60% of annual purchases typically qualify for leverage opportunities
- 5% average purchase price reduction through spend leverage and vendor consolidation

### Maintenance

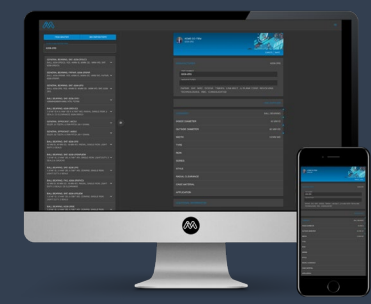
- 0.5 hour saved per day per maintenance team member due to efficient search ability

### OEM Conversion

- 30% of material master typically represented by OEM items
- 10% of OEM items qualify for conversion to standard MRO items
- 25% average purchase price reduction on OEM to MRO converted items

### Excess-Active Indirect Material Overstock

- 10% of on-hand inventory exceeds the MAX stock quantity once recalculated using best-in-class data



# QUESTIONS?



Thank you!

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[www.imaltd.com](http://www.imaltd.com)

# Next webinar: November 17 - Motion Amplification® and its Rapid Evolution for the Reliability and Maintenance Professional



**Jeff Hay**

## Motion Amplification® and its Rapid Evolution for the Reliability and Maintenance Professional

**BEST PRACTICE WEBINAR | Wednesday, November 17, 2021, 11 a.m. ET**

With new technology comes rapid evolution, new capabilities, and new use cases. Advances include the ability to visualize frequency and phase across the entire video in a single image, visualize and measure thermal growth, and new advanced techniques to measure shaft dynamics while undergoing rotation.

Motion Amplification® is a proprietary video processing technique that detects subtle displacement and then converts that movement to a level visible with the naked eye, enabling visualization of the movement.

Join Jeff Hay, CEO of RDI Technologies, as he shares why he thrives on creating innovative products that disrupt industries and help customers see things in a whole new way. He believes that cameras are the sensor of the future.

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Reliability

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