

Al and Master Data Management: A Synergy for Success

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Solution Architect
Onepoint
https://www.onepointltd.com/



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A BIG QUESTION

How can my company avoid the risks of implementing AI with reckless abandon?

_ Agenda

Rapidly evolving AI applications landscape.

Negative impact of poor master data.

Best practice for creating and maintaining accurate master data records.

Use of AI to accelerate cleaning and matching of master data records.

Overview of Boomi's Al & Master Data Management capabilities.

Headlong charge to embrace Al

1 CUSTOMER SERVICE
- Natural Language chatbots → any query, any time, no hand-offs

2 DOCUMENT PROCESSING
- Application Processing, Supporting Documents, Contracts

3 PREDICTIVE MODELS
- Sales, Marketing, Risk, Fraud, AML, Demand Forecasting ...

4 MASS PERSONALISATION
- Telematics, Wearable Devices, Avatars

HUMAN RESOURCES

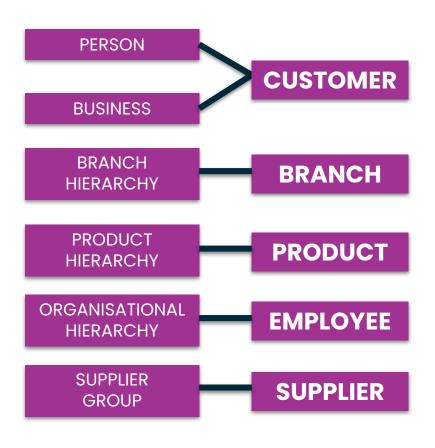
- Recruitment, On-boarding, Reviews, Development Plans

FINANCE
- Accruals, Allocations, Reconciliation - Order-Delivery-Invoice Matching

SENSOR, IMAGE & VIDEO DATA
- Predictive Maintenance, Quality Control, On-Shelf Availability ...

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BUT ... building AI applications on weak foundations



Universal Weaknesses in Master Data

- 1. **RECORDED** in multiple systems or spreadsheets
- 2. Held in **DIFFERENT** table and file structures
- 3. Using **DIFFERENT** reference data codes
- 4. NO controls to prevent **DUPLICATES**
- NO controls to VALIDATE data
- 6. NO systematic way to record HIERARCHIES
- 7. NO **SYNCHRONISATION** across systems

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The impact of poor master data: case study

Names on List	96		
Duplicates	20		
No mortgage	13		
Redeemed mortgage	19		
No telephone number	4		
Invalid telephone number	7		
New sales – in branch	13		
New sales – via partner	1		
New sales – via competitor	4		
Unable to contact	5		
SALES	7		

Client **DID NOT** Accept the need to create a **SINGLE VIEW OF CUSTOMER**

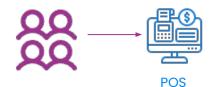
7% Take-Up Rate
Considered 'great' success

The impact of poor master data: case study

Perception versus reality



Product ID Style, Size, Season, Colour, Fabric, Order Quantity, Delivery Date



Product ID Short Desc Price

NO VAT



Product ID Store ID Hanging Packaged



Product ID Hanging Package Size Pre-Processing

Fashion Retail

EUR 10 billion, 14 Countries



VAT Receipt request

VAT Return

Calculation





→ Emo

Email to Finance

Financial System
Country, Total Sales

Enterprise Data Warehouse

Country, Department, Class, Total Sales

Challenge #1: 'Dirty' data is everywhere

Found in EVERY table on EVERY system

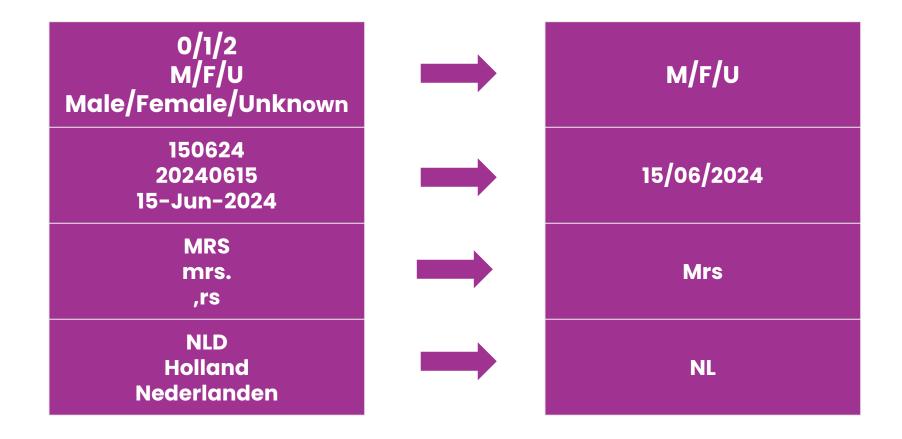
Health Service Provider

GBP 250 million pa 160k Customer Records

Records	Contents of 'title' field (free text field)
755	DISTINCT VALUES
53,614	BLANK (NULL) 33.8% of records
	or or +++
	,Oss or ,R or ,Rs etc
	Refugee, Social Worker, Duty Nurse, Head Teacher etc
	Carer, Wife, Husband, Stepfather, Sister, Cousin
	Anne, Barbara, Craig, Dylan etc
	21/10/1997 etc
	199 High Street etc, Lives with Daughter

Challenge #2: Reference data differs across system

Reference data will need to be translated into a common form = STANDARDISED



Challenge #3: Duplicate and inconsistent records

Dictates the need for SOPHISTICATED capabilities to MATCH & MERGE records

SYSTEM	TITLE	FIRST NAME	FAMILY NAME	DATE OF BIRTH	GENDER	EMAIL	
A	Mr	Madassar	Manzoor	01-Jan-97	М	mm@gmail.com	
A	Dr	Madassr	Maznoor	10-01-1997		mm@gmail.com	
A		Madasser	Manzor	1979/01/01		07711-223344	
В	M.R.	NANSOOR	Madassar	01/10/97	mail	nn@gnail.com	
С	Manzoor, Madassar/MR/Employed/HomeOwner/19970101/MALE/mm@gmail.com						

SYSTEMS

Master Data Management – Best Practice

The **DESIGN** process



What is data enrichment?

Municipal Council

500,000 Residents

Property Occupancy











Master Data Management Sytem

Ingest

Clean Enrich Match Merge

Golden Records

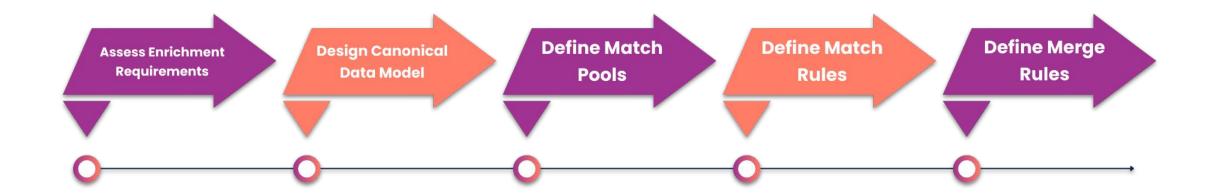


Financial Analysts

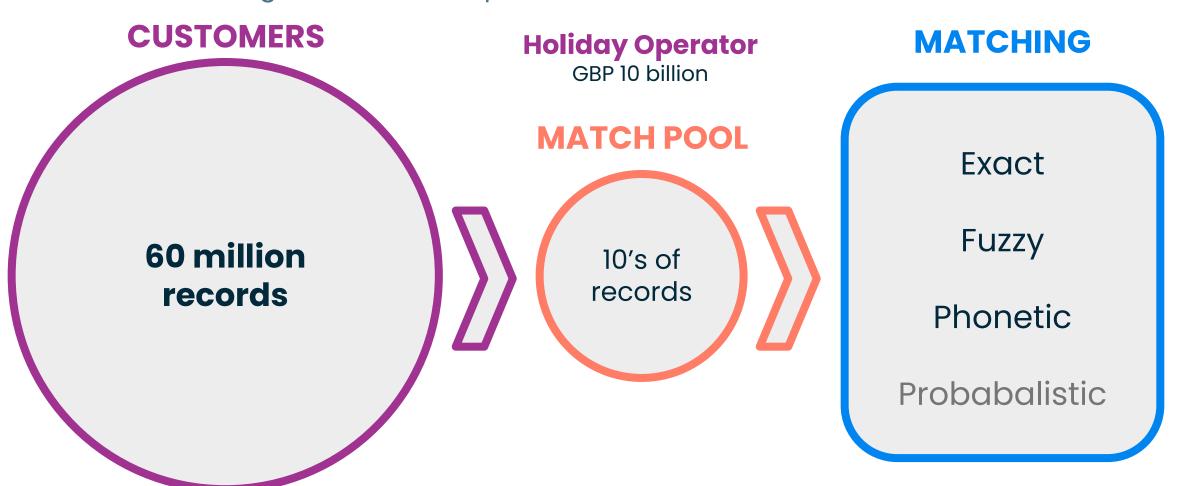
IDENTIFIED:

- **1600** businesses in 'empty' business premises
- 2700 businesses in residential properties
- Potential to increase income by over 25%

The **DESIGN** process ... continued



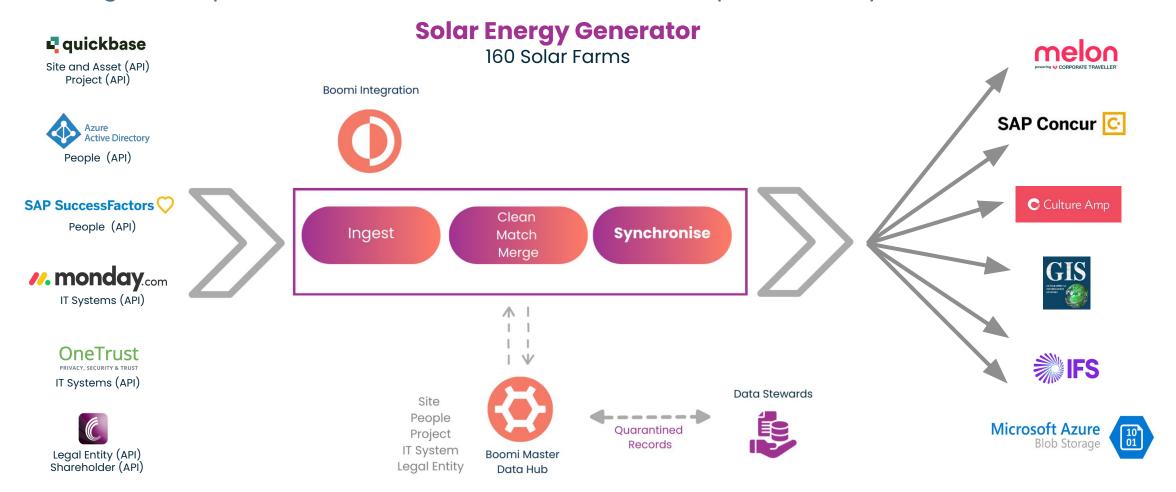
AUTOMATICALLY generate match pools, **AUTOMATICALLY** match records



The **DEPLOYMENT** process

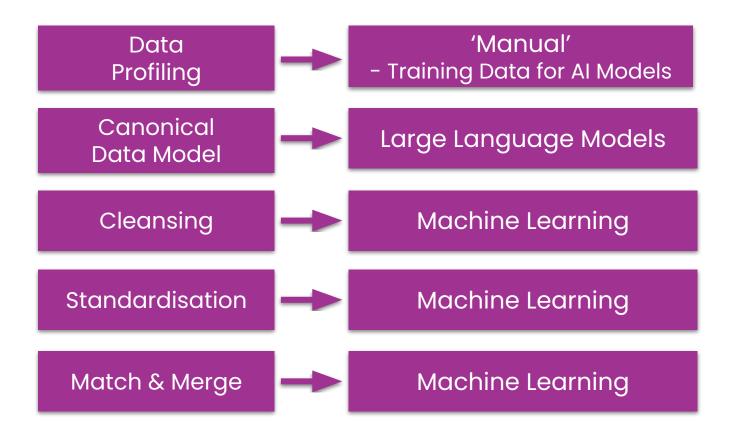


Closing the loop - **SYNCHRONISE** master data across operational systems



Master Data Management – emerging capabilities

Using AI to ACCELERATE development and IMPROVE accuracy



ANOTHER BIG QUESTION

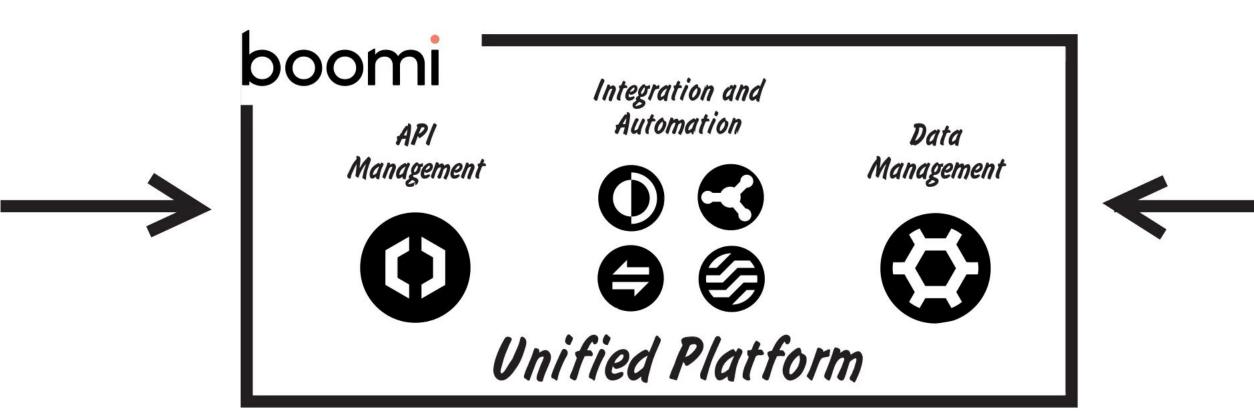
How can my company profit from the Al Revolution, instead of being left behind?

Data is Everything

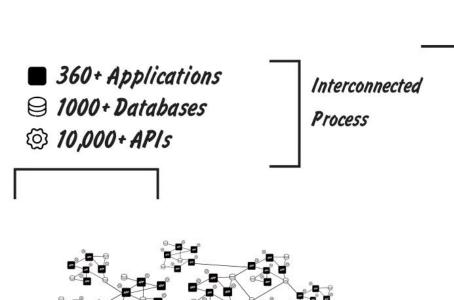
- Select an initiative based on cleanest or best data
- Garbage in / garbage out still applies with Al
- 70% of effort is working on the data

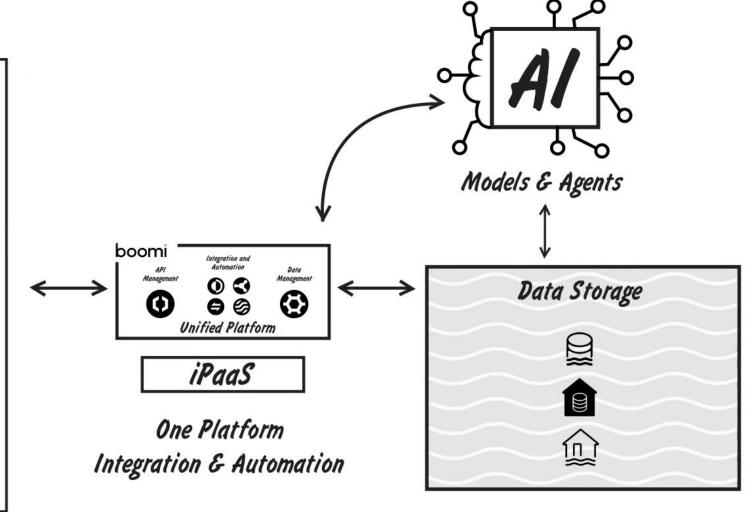


Boomi's Unified Platform

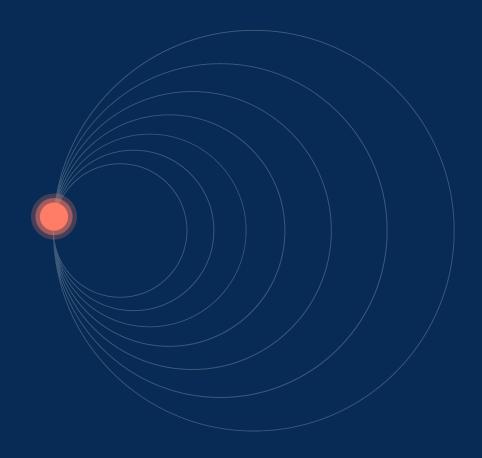


Boomi's Unified, Al Ready Platform





Thank you





Be Bold. Be You. Be Boomi

Introducing Onepoint

https://www.onepointltd.com/

What we do

We architect, prototype, build, and manage data and Al powered solutions around four strategic digital priorities. We partner with clients looking for high-impact, enterprise-grade advice and IT services to realise their most critical digital transformations.



- → Power better total experiences
- → Prove & power products and services
- → Realise value from data, analytics, AI / ML
- \rightarrow Transform, scale & deliver IT

Who we serve

Our primary buyers are business, technology, and data / analytics leaders looking for deep technical experts who 'speak business' and know how to 'get to business value' quickly. Our expertise is transferrable and relevant to public and private sectors.



Lightsource bp



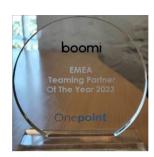




vision express

Onepoint & boomi

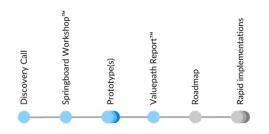
Boomi partners since 2019. 40+ data engineers trained on Boomi products. Successfully completed 4 major projects with Boomi. Recognised as Boomi's EMEA Teaming Partner of the Year 2023.



Onepoint Valuepath[™] and the Rapid Value Method[™]

Onepoint Valuepath[™], the upfront element of our approach, is designed to help you to **quickly prove your technical concept**. Not only that, we also help you prove value, typically within 2-6 weeks.

This approach was borne out of a business outcome focus, human centricity, diverse thinking and multi-disciplinary input, deep technical expertise, and an emphasis on delivering value rapidly.



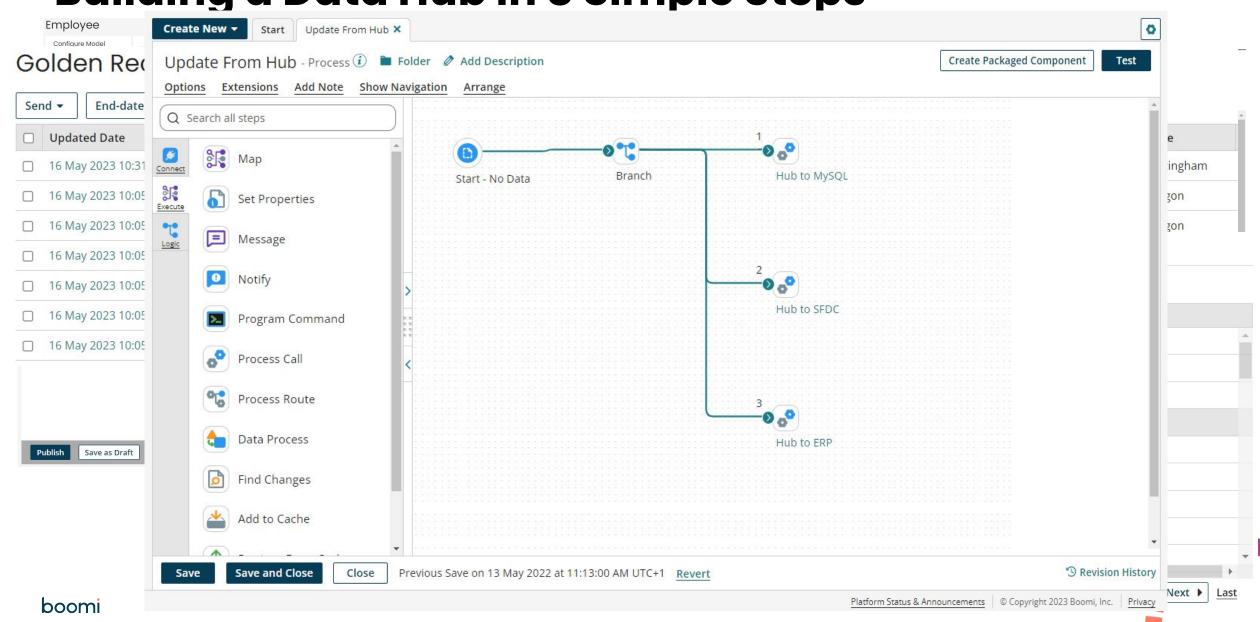
Continuous innovation

We are always experimenting with the next generation of tools and techniques to validate their **ability to influence business outcomes**.

It is through continuous research and development that we are able to demonstrate the art of the achievable, without learning at the expense of our clients.

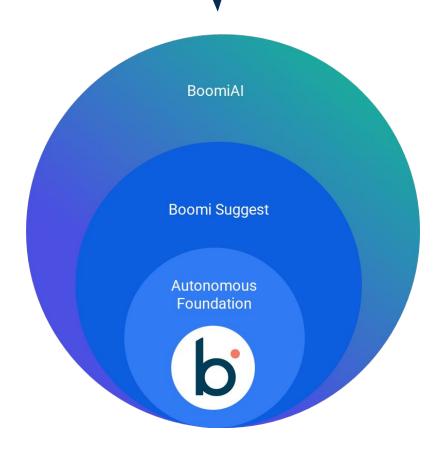


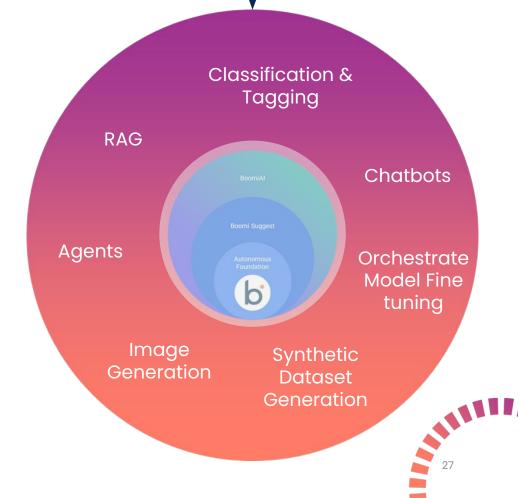
Building a Data Hub in 8 Simple Steps



Al *in* the Boomi platform vs.

Using the Boomi platform **for** Al





Six Tenets of Al Readiness



Set Clear Goals

From implementation to stewardship, knowing what you want and what you're capable of doing with AI is essential



Know Your Processes

Document, catalog, create, manage, and maintain workflows and business processes



Know Your Data

Understand the value of your data, where the data lives, and how it's generated, refined, secured, and governed



Align and Be Accountable

Stakeholders should understand expectations and work together as good stewards of data and processes



Prioritize ThoughtfullyEstablish and balance priorities critical to the business, corporate values, and societal impact

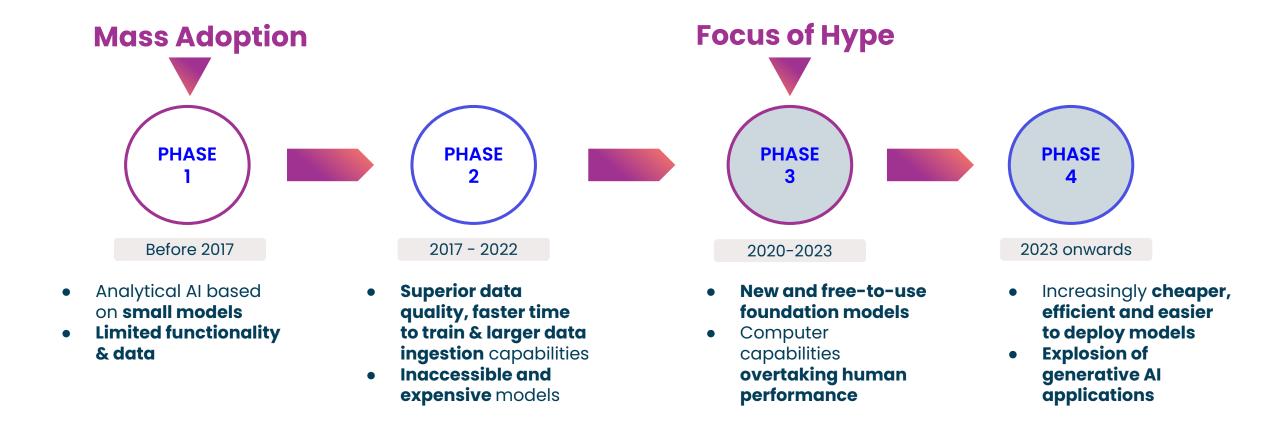


Automate with Intention

Implementing AI without understanding your processes or data could lead to inefficiency and will introduce risk



Al hype vs. Al adoption in enterprise



Adapted from **Insight Partners** report

Solar Energy Generator 160 Solar Farms

Closing the loop – SYNCHRONISING master data across operational systems

