



Use **Text-AI** to find 15% downtime savings in your shiftlog and maintenance comments

Topics

- Introduction
- Walkthrough App
- How to use

Your maintenance logs is a hidden asset that you can use with Text-AI

€ 4200.-

Gains per machine/month

€ 3840.-

15% downtime savings
from addressing repeating issues

€ 360.-

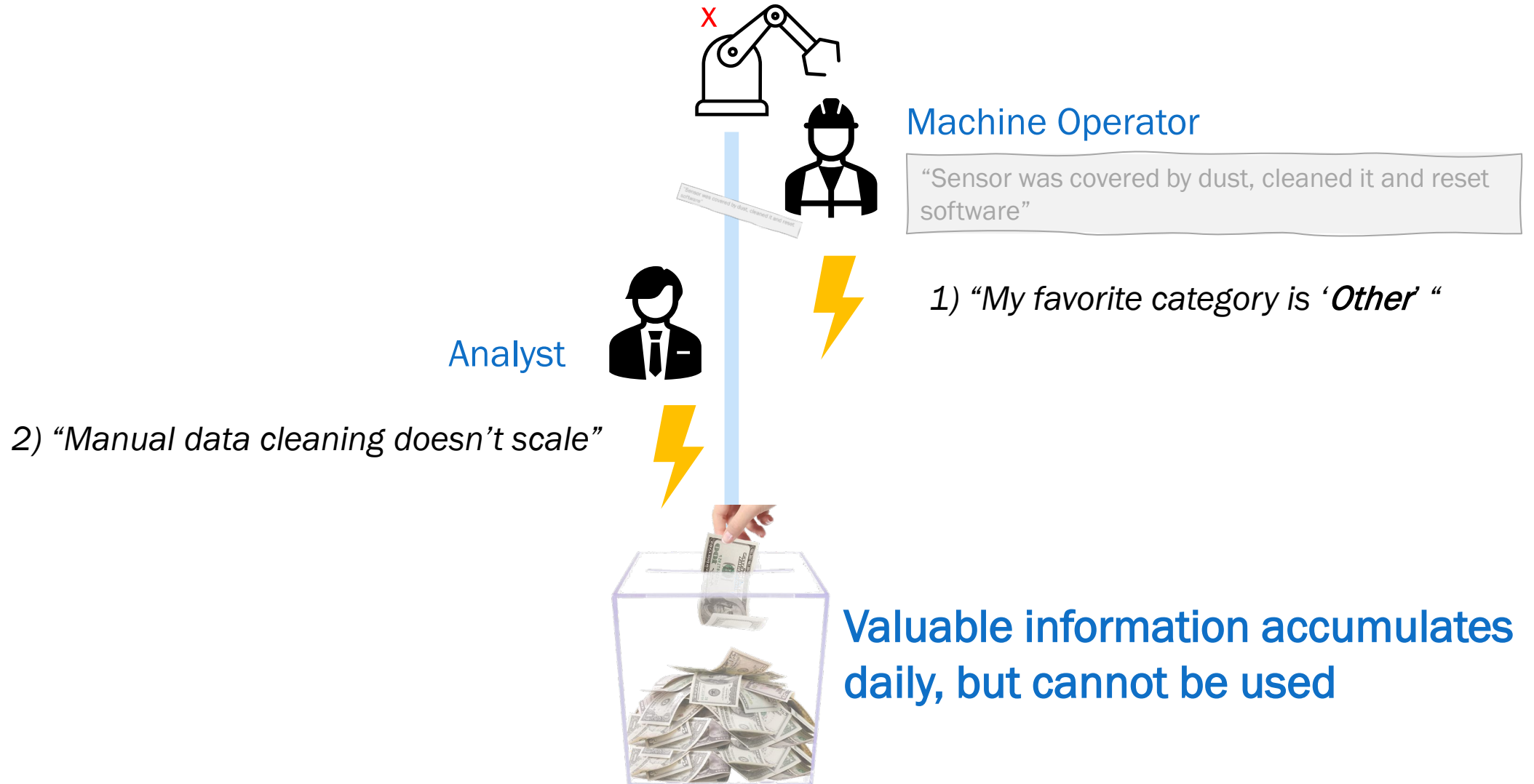
Eliminate manual Data Analysis

priceless

Eliminate discussion around
manual log categorization

THE TRADITIONAL APPROACH

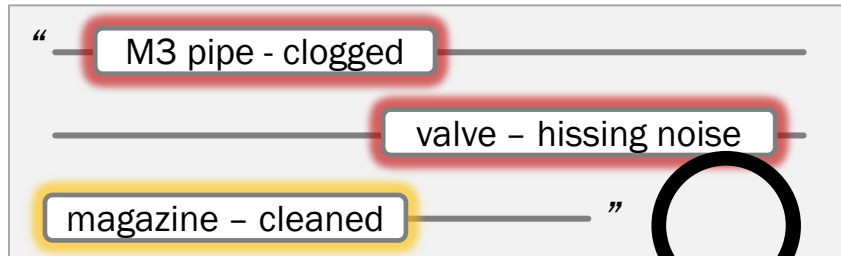
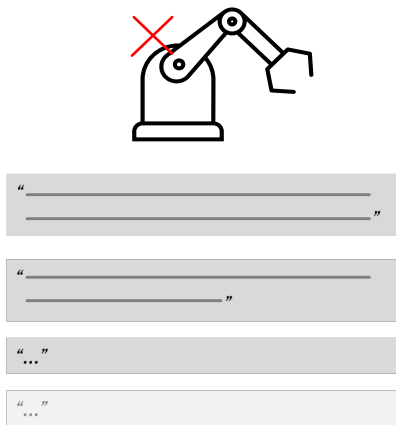
Gaining insight from maintenance texts was time intensive and caused lots of discussion



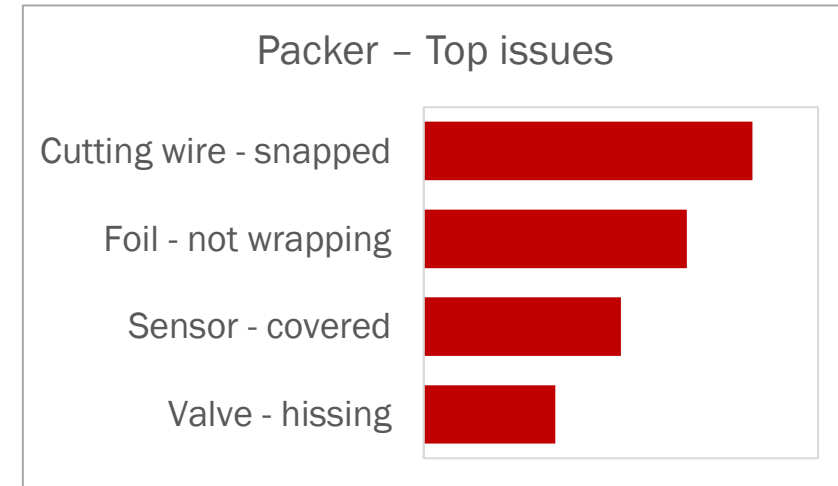
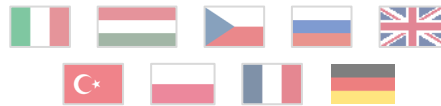
Text AI reads the maintenance texts for you and tells you the top repeating issues and unplanned maintenance work

AI - Detects Domain Topics

Provides summary of top issues

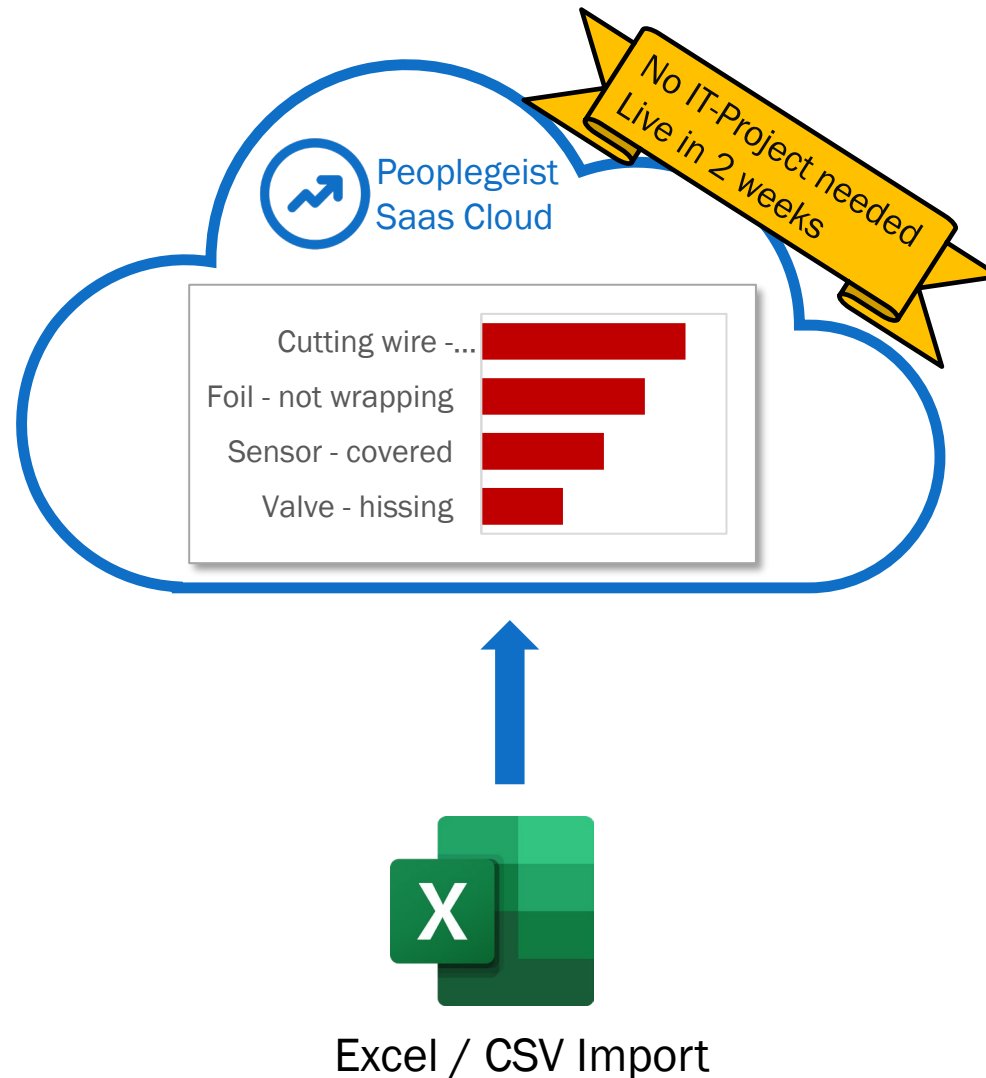


AI reads 50 languages



WHAT YOU NEED

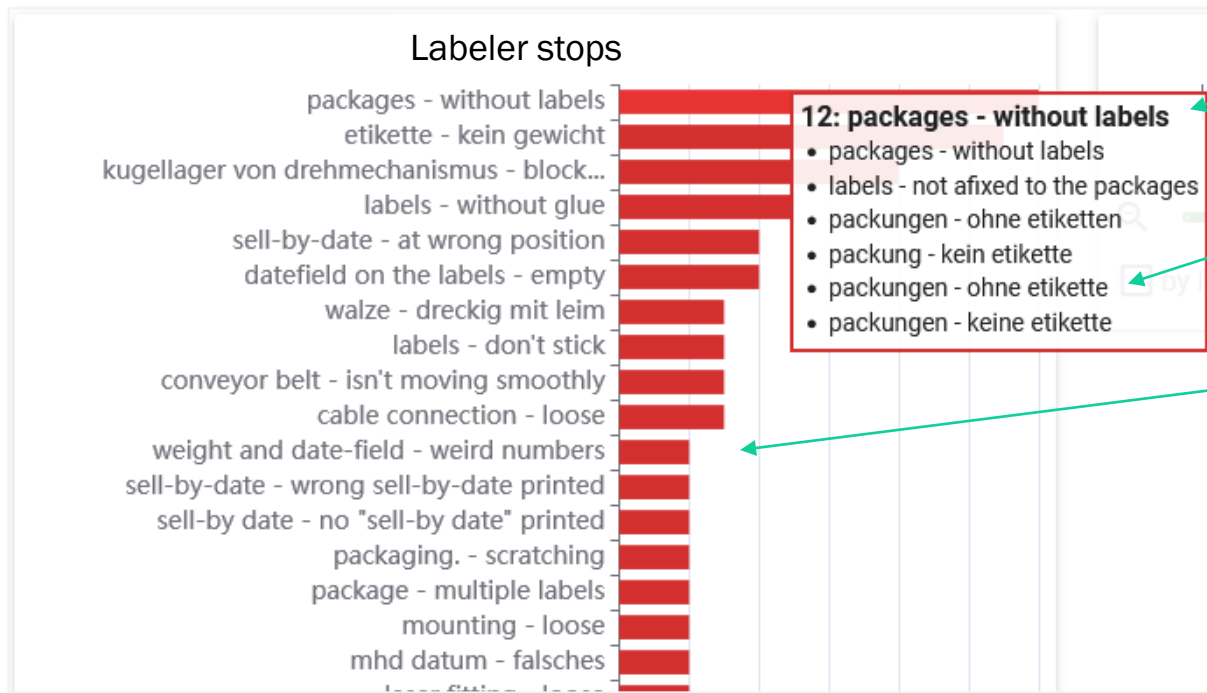
You can simply upload an Excel file and start finding your 15% downtime savings in its content



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You can see repeating issues hidden in the text-logs and eliminate the need to manually categorize logs



1. No matter the phrasing

2. No matter the language

3. Sort by downtime-time / waste / occurrence

4. Categories detected automatically

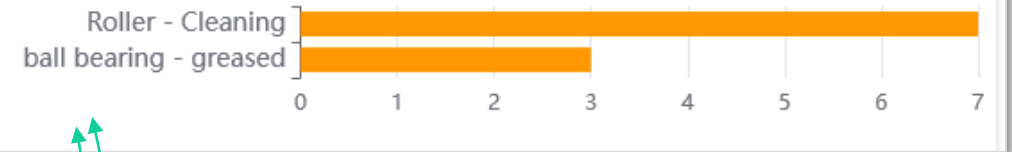
If resolutions are documented, the AI can show applicable action which also serves as a root-cause analysis

Labeler stops



- 12: packages - without labels**
- packages - without labels
 - labels - not afixed to the packages
 - packungen - ohne etiketten
 - packung - kein etikette
 - packungen - ohne etikette
 - packungen - keine etikette

Suggestions



1. Shows typical solutions applied

2. Candidates for adding to regular maintenance?

What's the issue?
les étiquettes n'ont pas de poids

QUERY

label - weight is missing tara - neu einstellen ersatzteil - bestellt laser
ausgetauscht gewicht - auf 0 halterung - neu justieren waagenbühne -
verklemmt tare weight - set new scale - restarted scale - crashed

label - weight is missing

issues / ideas / near misses?
weight is missing on the label...
The weight is missing on the label

Linie 2 > Etikettiermaschine
Kein Gewicht auf der Etikette Lösung: L...
Laser war nicht an. Laser mit Linie 3 **ausgetauscht**. Ersatzte

Linie 2 > Etikettiermaschine
Kein Gewicht auf der Etikette Lösung: T...
Tara nicht umgestellt. **Tara neu einstellen.**

Linie 2 > Labeler
no weight printed on label Solution:...
Tare **weight** not updated. **Set new** tare weig

Linie 2 > Labeler
prints 0 for the weight Solution:...
Scale crashed. **Restarted scale** and

SHOW ALL

tara - neu einstellen

Linie 2 > Etikettiermaschine
Tara nicht umgestellt. Tara neu einstellen....
Tara nicht umgestellt. **Tara neu einstellen.**

NLP-SEARCH DELIVERS QUESTION-ANSWER LIKE RESULTS

Query 'by meaning', cross-lingual and solution proposal is ideal for multi-site setups

1. Search in French

2. Same meaning ~~not~~ keywords

3. Match in any source language

4. Cluster results

5. Possible solutions

6. Built-in translations

label - weight is missing

issues / ideas / near misses?
weight is missing on the label...
The weight is missing on the label

laser - ausgetauscht etikette - kein gewicht ersatzteil - bestellt 10.10.2022 02:10

Kein Gewicht auf der Etikette

Lösung:
Laser war nicht an. Laser mit Linie 3 ausgetauscht. Ersatzteil bestellt.

🇫🇷 Aucun poids sur l'étiquette Solution: Le laser n'était pas allumé. Laser remplacé par la ligne 3. Pièce détachée commandée.

Addition:
Laser war nicht an. Laser mit Linie 3 ausgetauscht. Ersatzteil bestellt.

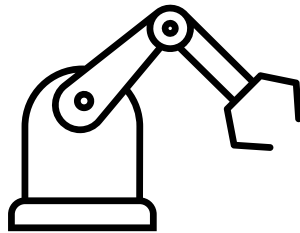
issues / ideas / near misses?

poll	#123 Operations Demo
channel	kiosk
impact	72
escalated	Y
linie	Linie 2
machine	Etikettiermaschine

FURTHER APPLICATIONS

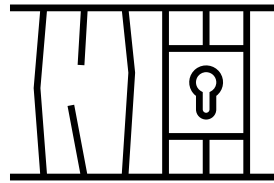
Maintenance-logs is the main use-case but the Text-AI can be used for other texts too

Shopfloor Maintenance logs



Improve machine & shopfloor operations

Product Quality / Rejects



Get defects by SKU

Machine Support Requests



Find maintenance and training gaps
Reduce calls and onsite visits

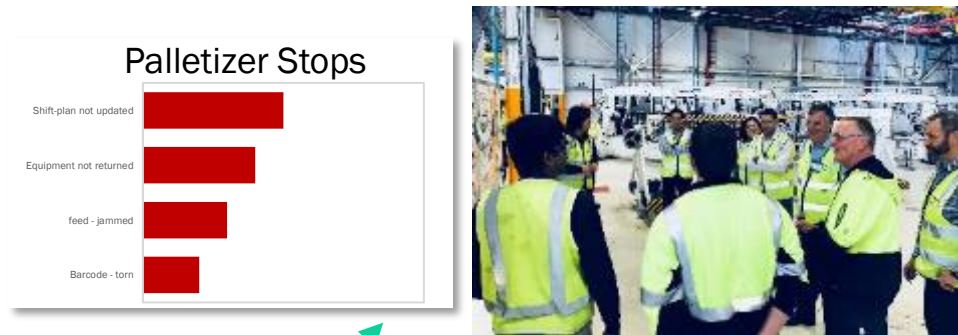
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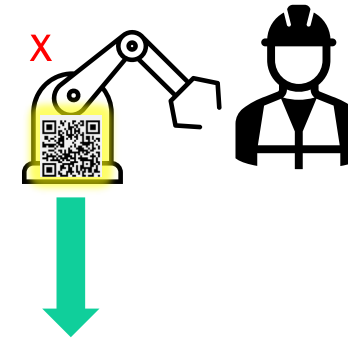
HOW TO USE

The insights can be used for shopfloor management, SOP improvement, reduce onboarding & trouble shooting time

Shopfloor Management, SOP improvement



Trouble shooting & new joiner training



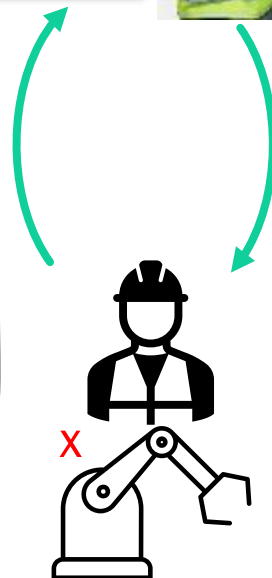
Typical problems 'picker'

Reason	Frequency
Shift-plan not updated	High
Equipment not returned	Medium
feed - jammed	Low
Barcode - torn	Very Low

- recalibrate
- restart
- Unlodge clamper

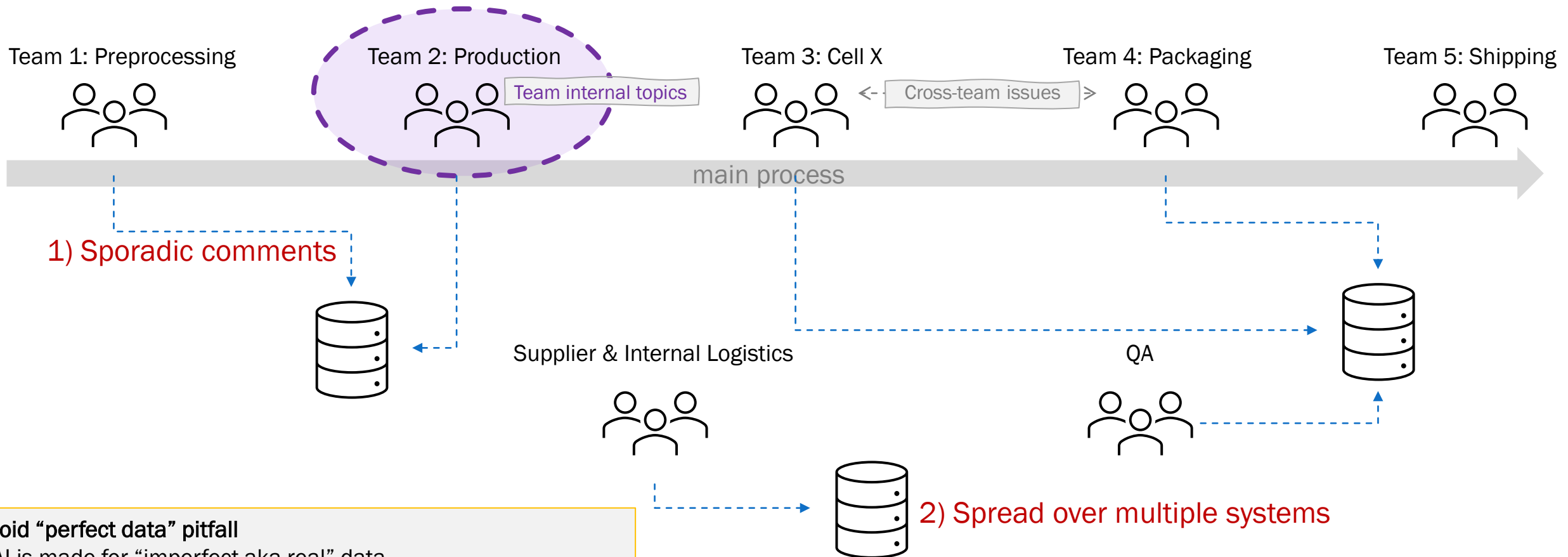
Search

Clamper makes hissing noises and the clamper doesn't open



"Sensor was covered by dust, cleaned it and reset software"

Start reaping benefits with a **spearhead team** focusing on **team-internal topics** to drive **1) better logging** and **2) cross-team data collection**



Avoid “perfect data” pitfall

- AI is made for “imperfect aka real” data
- Data harmonization projects are large and involve many parties
- Benefit now vs 1 year after the data harmonization project

Stop missing out on 15% downtime savings and start benefiting from your maintenance logs

> € 4000.-

Gain per machine/month

Automate

Automatic reports without manual data cleaning

Eliminate discussions around manual log categorization

No IT-Project

All you need is Excel
Ready in 2 weeks

Appendix

TYPICAL DATA RECORD

Each record or “event” can have multiple texts and unlimited meta fields

Timestamp	Machine	Text	Text Maintenance	Service Technician	Downtime in min.	Line	Cell	SKU	Packaging	Misc. Meta
2022-02-02 23:15	Labeler	Packages come out without label on it.	Labels are on package again after cleaning cylinder, but there is still a black streak on the label.	Readjusted printer head, was nudged.	95	Line 2	Packaging	1324	Wrap per 5x7	

Mandatory

Optional

Typical improvement of records

“Station has gone dark. HMI is dark too. Found that the power adapter was broken.”

- Machine name is needed in meta-data

“Today we had 2 power alerts on the mixer, a torque error on the assembly robot, the rest of the day was good.”

- Summary-message: Split into 3 messages

“I sanded down the cylinder on the warehouse pick robot”

- ‘warehouse pick robot’ is a big installation, add subcomponents/submachines to meta-data or text-body

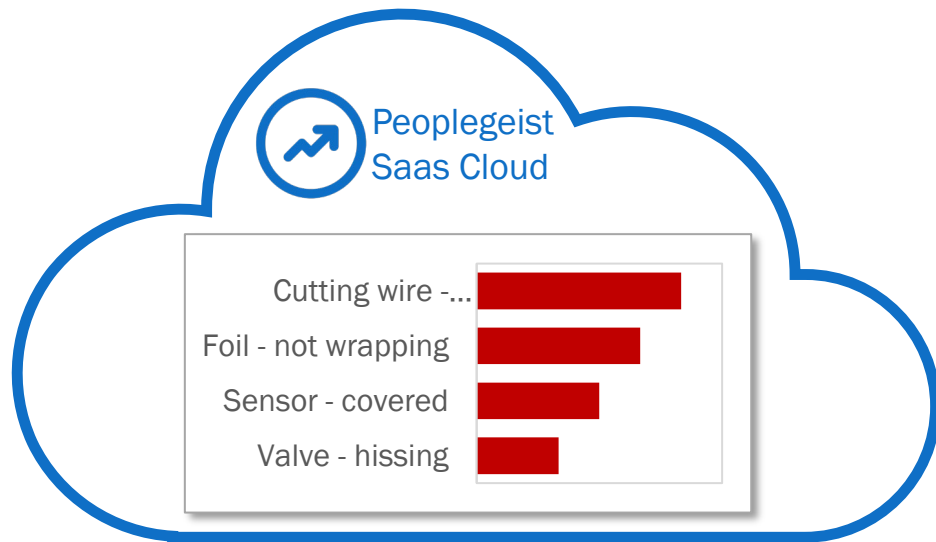
“Station 12 has overheated tank. I tried steps in SOP already. Need help”

- Record not only unresolved issues, but all problems
- Record resolution as well

“We are running 5dl PET and we vent 12 on filler is making hissing noise”

- Add to metadata SKU or Config ‘5dl PET’

You only need to subscribe to the cloud solution and use your regular internet browser



Shopfloor Management

- Desktop computer internet access (no IE)
- Large screen for team-huddles with internet access

Trouble Shooting

- QR Codes sticker on machine
- Smartphone/tablets with camera and internet access

YOUR BENEFITS

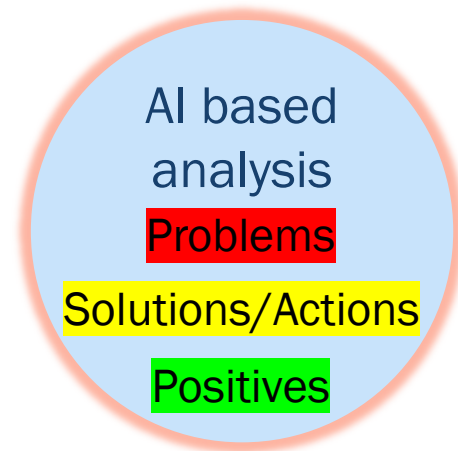
The benefits per machine can easily amount beyond € 4000.-/month, based on 15% downtime reduction

Your gains per machine/month **€ 4200.-**

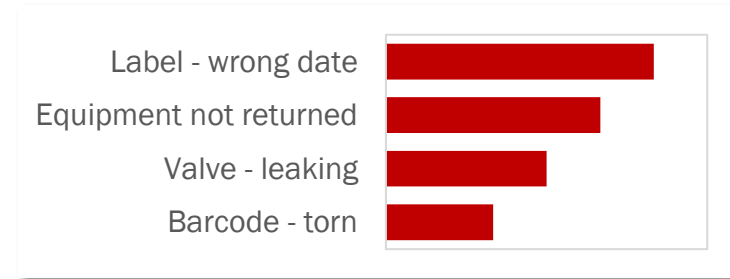
	hours/month	rate/hr	
Eliminate manual Data Analysis	3hrs	€ 120/hr	€ 360.-
<ul style="list-style-type: none">• Review comments manually• Manual categorizing• Compile reports for team huddles			
Additional Production	32.4hrs	€ 120/hr	€ 3840.-
<ul style="list-style-type: none">• Production hours / month• Current OEE / productive %• Reduction downtime/waste	<ul style="list-style-type: none">72070% (30% non-productive)15%		
No discussions around categories			priceless

Our AI reads your shift log texts and understands the problems and solutions your operators encounter

Text logs
(MES / shiftlogs / connected worker / cmms)

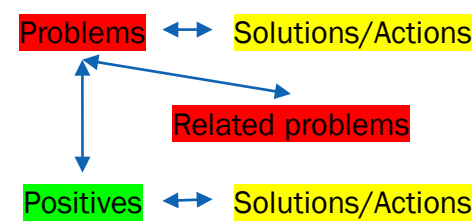


Summary / breakdown



- "Dented paper rolls cause jammed feed. Don't drop rolls but use the lift to unpack carefully."
- "Lately barcodes from the cheese are half torn and cannot be scanned"
- "The shift-plan was not updated for next month"
- "..."

- "The valve was making hissing noises, I replaced the rubber ring of the air tube"
- "The cycletime has improved by 2sec after fixing the new mould"



Query with natural language

Pasteurizer doesn't cool down within time limit 🔍