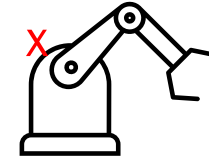# Peoplegeist

Benefit from knowledge in your maintenance comments and save >15% downtime
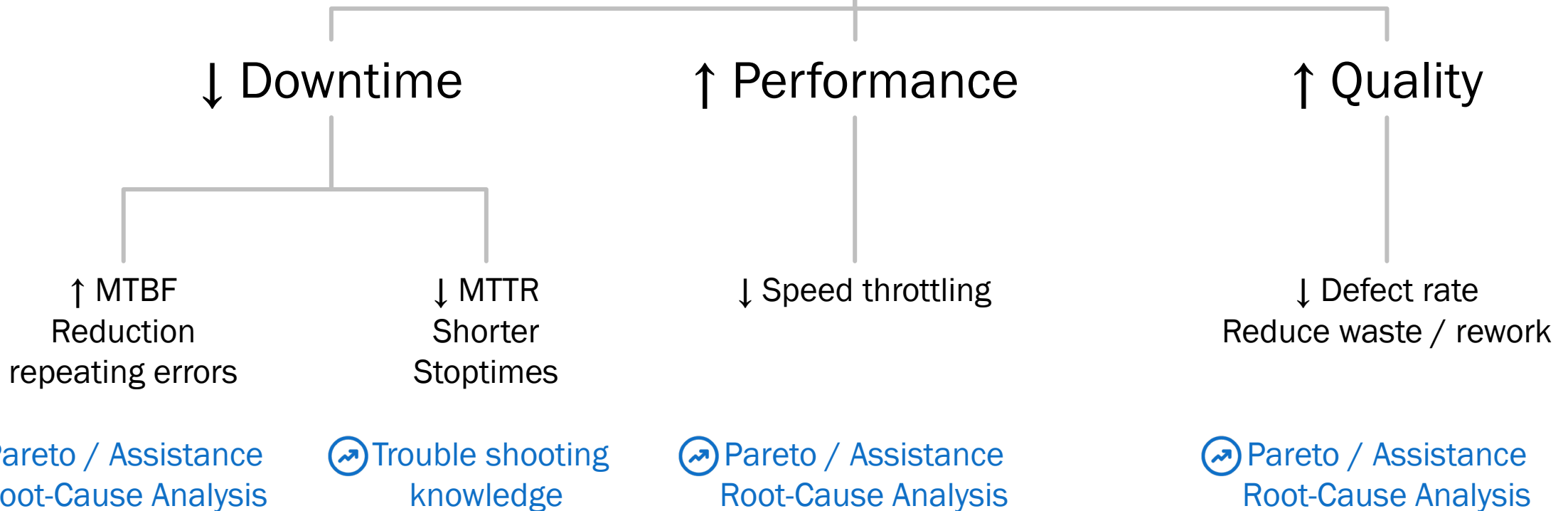
Introduction

Topics

- Introduction

- Walkthrough App

- How to use

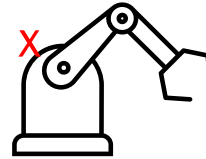# Your maintenance comments are a hidden asset that helps you to improve Machine Productivity

"Sensor was covered by dust, cleaned it and did a reset."

↑ Machine Productivity/OEE

↓ Downtime

↑ MTBF
Reduction repeating errors

⊘ Pareto / Assistance
Root-Cause Analysis

↓ MTTR
Shorter Stoptimes

⊘ Trouble shooting knowledge

↑ Performance

↓ Speed throttling

⊘ Pareto / Assistance
Root-Cause Analysis

↑ Quality

↓ Defect rate
Reduce waste / rework

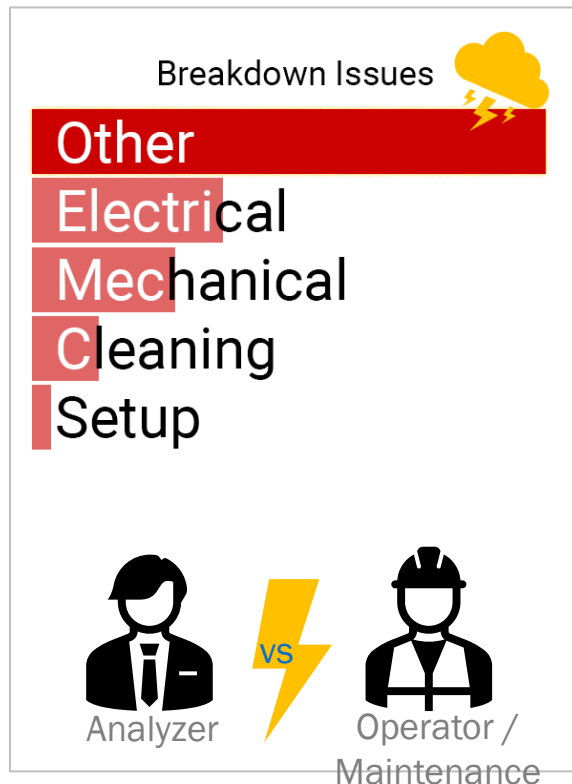⊘ Pareto / Assistance
Root-Cause Analysis

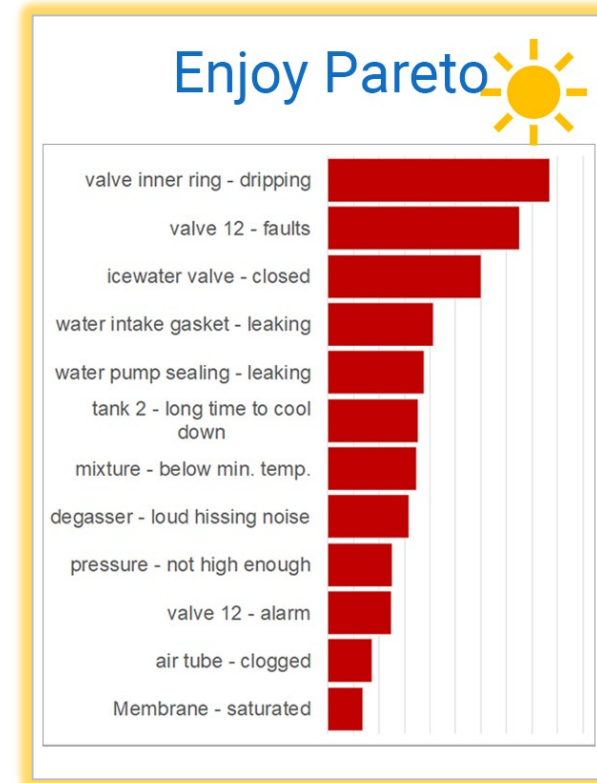# You documents stops and maintenance, but can't get the insights you would like

X

"Sensor was covered by dust, cleaned it and did a reset."

The problem

Breakdown Issues

Other
Electrical
Mechanical
Cleaning
Setup

Analyzer

vs

Operator / Maintenance

New

Enjoy Pareto

valve inner ring - dripping
valve 12 - faults
icewater valve - closed
water intake gasket - leaking
water pump sealing - leaking
tank 2 - long time to cool down
mixture - below min. temp.
degasser - loud hissing noise
pressure - not high enough
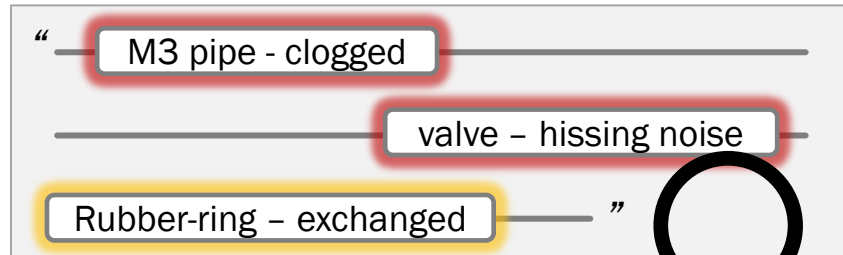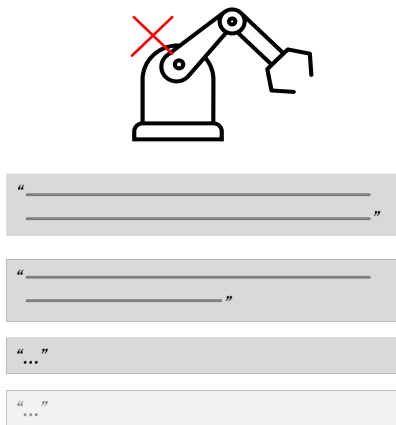valve 12 - alarm
air tube - clogged
Membrane - saturated

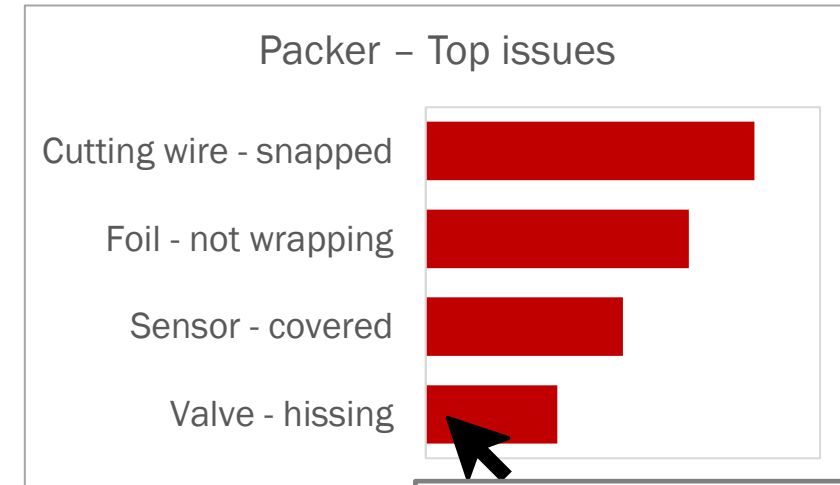# Text AI reads the maintenance texts for you and tells you the top repeating issues and unplanned maintenance work

AI - Detects Domain Topics

Provides summary of top issues

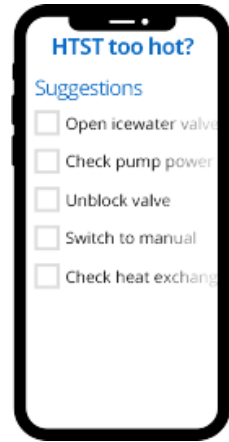M3 pipe - clogged

valve – hissing noise

Rubber-ring – exchanged

AI reads 50 languages

Packer – Top issues

Cutting wire - snapped

Foil - not wrapping

Sensor - covered

Valve - hissing

Tip:
Rubber-ring exchanged

Your team can apply the insights directly in production

↓ MTTR: Trouble shooting tips from colleagues

HTST too hot?

Suggestions
- Open icewater valve
- Check pump power
- Unblock valve
- Switch to manual
- Check heat exchang

X

X

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

↑ MTBF / ↓ Defect: Shopfloor/Continuous Improvement

Shift-plan not updated
Equipment not returned
feed - jammed
Barcode - torn
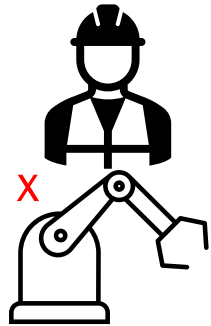
Employee Involvement
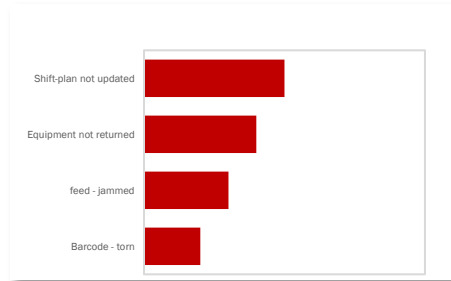
Downtime reduction

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

Peoplegeist
Saas Cloud

No IT-Project needed
Live in 2 weeks

Cutting wire -...
Foil - not wrapping
Sensor - covered
Valve - hissing

Excel / CSV Import
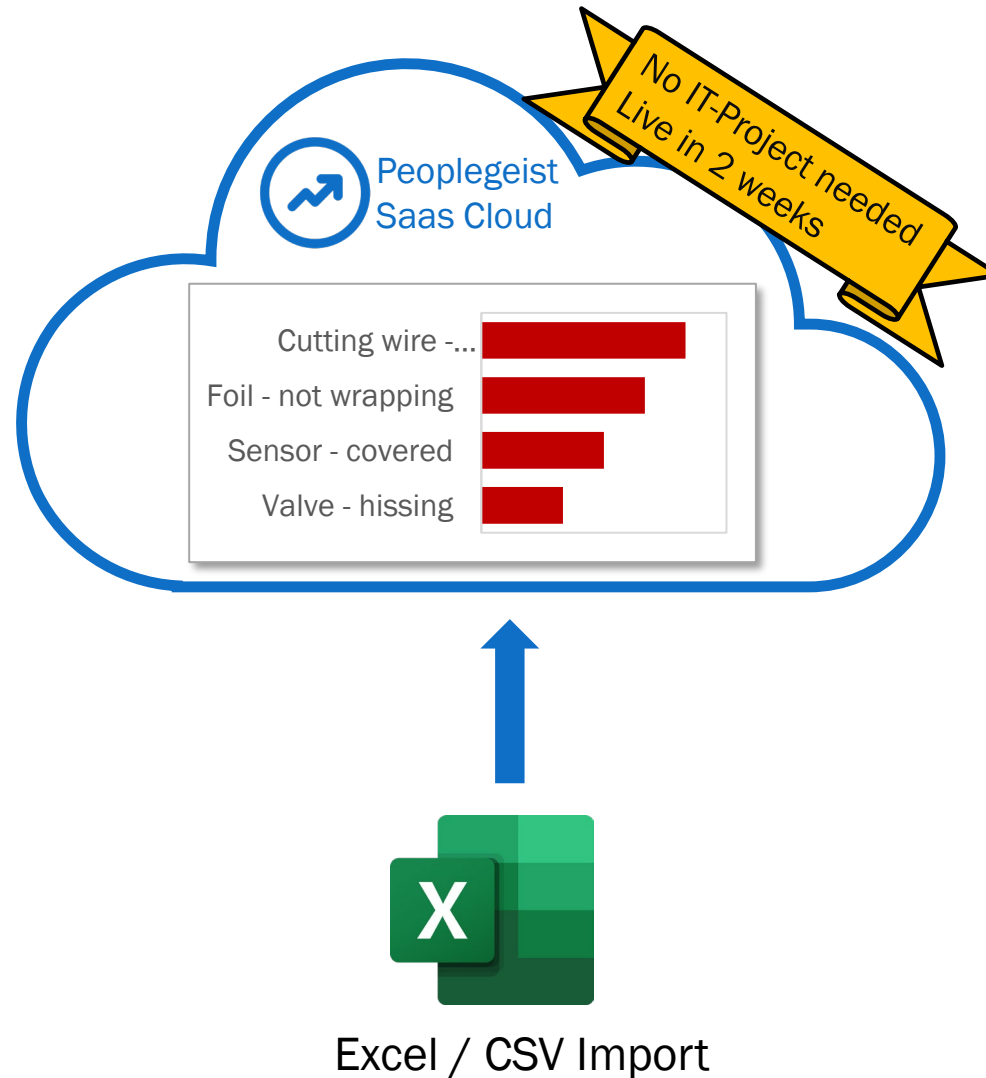
Topics

- Introduction
- Walkthrough App
- How to use

You can see repeating issues hidden in the text-logs and drive your continuous improvement based on it

Labeler stops

packages - without labels
best-before - isn't correct
weight - no weight printed
label - weight is missing
kugellager von drehmechanismus - block...
no "best-before date" - printed
best-before - isn't saved
weight and date - not printed at the r...
labels - wrinkled
laser fitting - loose
mounting axis - dried glue
laser - verdreht
weight and date-field - weird numbers
computer - wasn't logged in
labels - don't stick
camera cable - not connected
date and weight - printed outside of c...

14 × : packages - without labels
- packages - without labels
- etiketten - ohne klebstoff
- labels - not afixed to the packages
- packungen - ohne etikette
- labels - without adhesive
- packungen - keine etiketten
- packung - kein etikette auf die packung gedruckt
- packungen - ohne etiketten
- packungen - fehlt die etikette

Count: 14
Total downtime: 05:21:00
- average [min-max]: 00:22:56 [00:10:00 - 00:47:00]
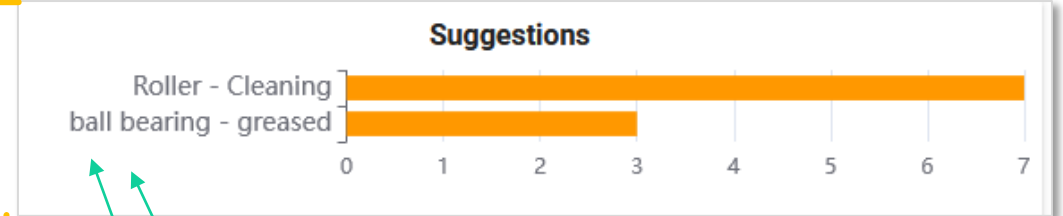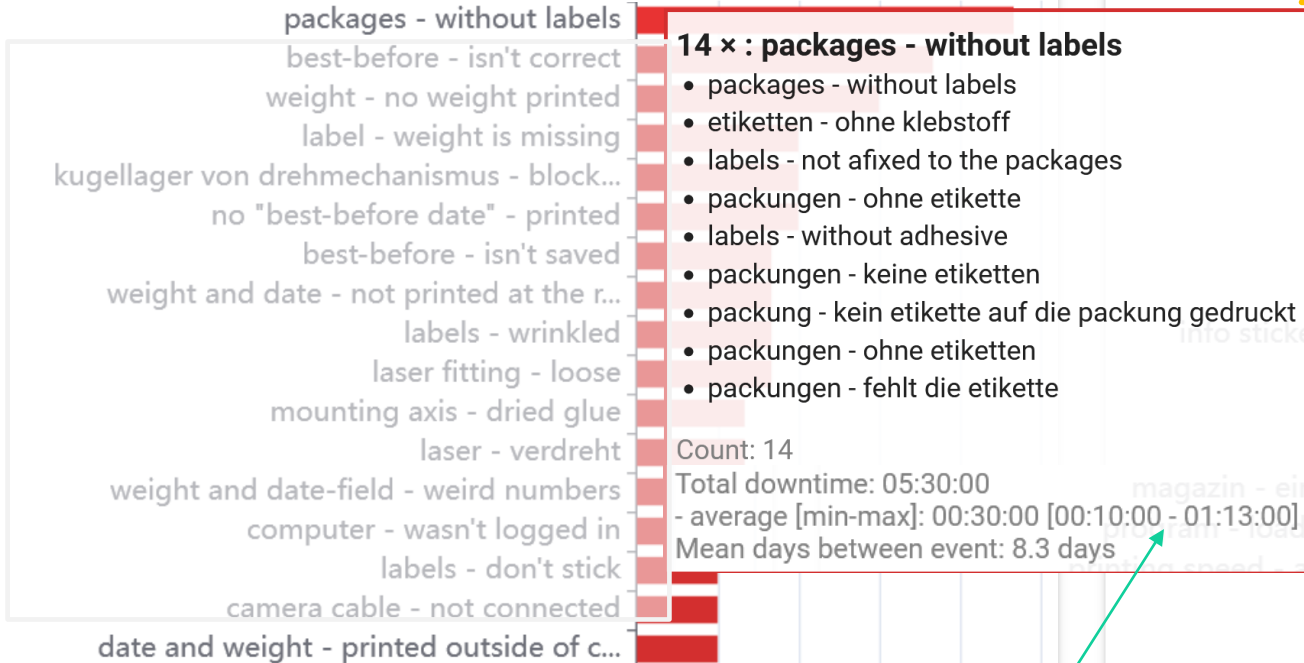Mean days between event: 6 days

1. No matter the phrasing

2. No matter the language

3. Sort by downtime-time / waste / occurrence

4. Categories detected automatically

You get hints for root cause analysis

Etikettier Stopps

packages - without labels
best-before - isn't correct
weight - no weight printed
label - weight is missing
kugellager von drehmechanismus - block...
no "best-before date" - printed
best-before - isn't saved
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- packung - kein etikette auf die packung gedruckt
- packungen - ohne etiketten
- packungen - fehlt die etikette

Count: 14
Total downtime: 05:30:00
- average [min-max]: 00:30:00 [00:10:00 - 01:13:00]
Mean days between event: 8.3 days

Suggestions

Roller - Cleaning
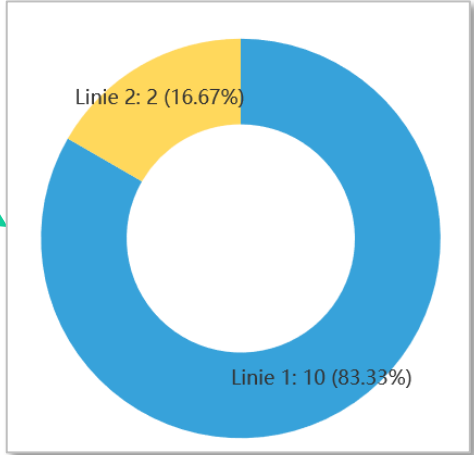ball bearing - greased

0   1   2   3   4   5   6   7

1. Hint causes

2. Candidates for adding to regular maintenance?

3. Problem more frequent on specific line/team/product?

4. Large spread may indicate staffing- or knowledge shortage

Linie 2: 2 (16.67%)
Linie 1: 10 (83.33%)

10

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

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**.

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

Describe your problem and get a trouble shooting checklist based

1. QR-Code to pre-select machine

2. List of most frequent issues

3. Describe issue if it's not on the list

4. Get checklist of typical culprits

line

Linie 1   Linie 2

machine

Etikettiermaschine   HTST   KZE   ✓ Labeler   Station 5 Mitsubishi RV-4F

Freetext

Topic(s) or description ☰

separate topics by '|'

SUGGESTIONS   HISTORY

1   PACKAGES - WITHOUT LABELS   ⓘ

2   LABEL - NO WEIGHT PRINTED   ⓘ

3   MOUNTING AXIS - DRIED GLUE   ⓘ

4   PASTEROLL - BLOCKED   ⓘ

5   LASER FITTING - LOOSE   ⓘ

6   SELL-BY DATE - NO "SELL-BY DATE" PRINTED   ⓘ

7   LABELS - DON'T STICK   ⓘ

8   WEIGHT AND DATE-FIELD - WEIRD NUMBERS   ⓘ

Linie 1   Linie 2

#1 "packages - without labels"

☐ cylinder - cleaned   ⓘ
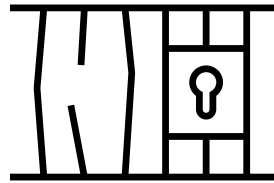
☐ magazine - cleaned   ⓘ

CLOSE   ⊕ MORE   ⊖ L   ⬤ Include symptoms

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

Shopfloor Maintenance logs

Product Quality / Rejects

Machine Support Requests

Improve machine & shopfloor operations
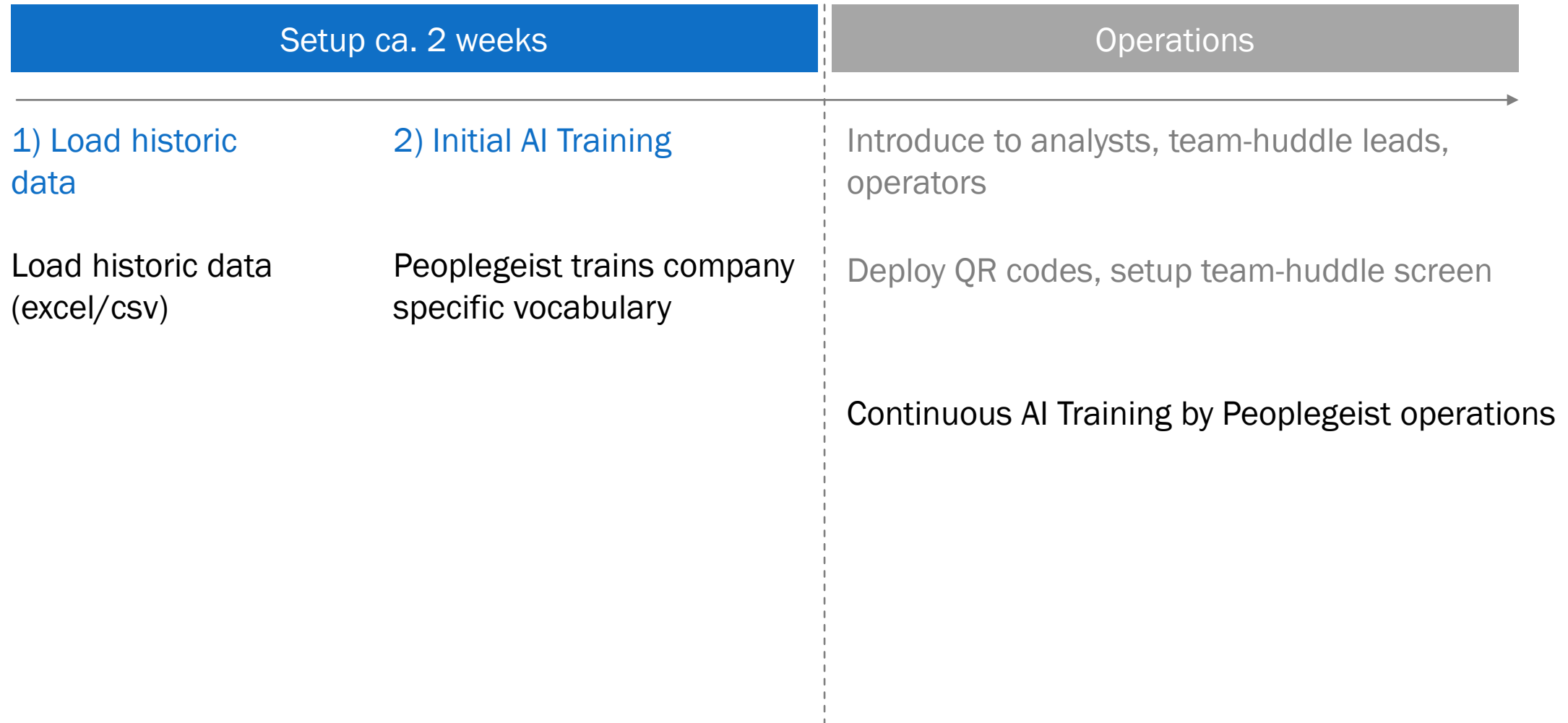
Get defects by SKU

Find maintenance and training gaps
Reduce calls and onsite visits

Topics

- Introduction

- Walkthrough App

- How to use

The system is ready within 2 weeks

Setup ca. 2 weeks		Operations
1) Load historic data	**2) Initial AI Training**	Introduce to analysts, team-huddle leads, operators
Load historic data (excel/csv)	Peoplegeist trains company specific vocabulary	Deploy QR codes, setup team-huddle screen
		Continuous AI Training by Peoplegeist operations

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

> € 50'000.-

- Pareto with concrete problems and their reasons

- Trouble Shooting suggestions

Automate

Automatic reports without manual data cleaning

No IT-Project

All you need is Excel
Ready in 2 weeks

Appendix

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	Reason Code
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	Wrapper 5x7	

Mandatory   Optional

20

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'

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