FAEDAH SOLUTIONS

SDT Society of Dairy Technology
Passion for Dairy

DIGITALISATION DOESN'T HAVE TO COST THE EARTH!!!!

FAEDAH SOLUTIONS

Applying or installing new technologies or systems, such as digitalisation, can be a daunting thought. Many companies believe that it will cost a significant amount, take years to install and the same amount of time to get beneficial data and is only for larger companies!
Some points can be true, but it doesn't have to be.
Data is all around us, but not all data is beneficial to every business. Main questions to ask: -

1) What are the reasons for digitalising systems? (Sustainability, paperwork reduction, energy savings, efficiency improvements etc.)
2) Review the data that makes a difference to you (This could be just packs per minute, energy)
3) Where will the best data come from?
4) Does the system need to be fixed or portable?
5) Do you need the data permanently or would renting systems be more beneficial to get the required data to make a change?
6) Do you have in-house expertise or do you need help?

FAEDAH SOLUTIONS

Lets look at each question in more detail……

WHAT ARE THE REASONS FOR DIGITALISING SYSTEMS? (SUSTAINABILITY, PAPERWORK REDUCTION, ENERGY SAVINGS, EFFICIENCY IMPROVEMENTS ETC.)

1) Ease of Use
2) Sustainability – Reducing materials usage / waste/ Paper
3) Paperwork Reduction / Removal – What paperwork do you want to remove and how much is there. Are there key areas which will make more of an impact initially? (Production/Audits/Despatch).
4) Do you need one new system or can you link your current systems together into one reporting system?
5) Energy Savings – Do you currently know where and when your energy usage is coming from?
6) Are you monitoring your current equipment? Often the biggest savings are not the most obvious.
7) Efficiency improvements - Increasing line speeds is not always the best way of improving efficiency. This can cause increased bottle necks, resulting in adverse effects. Do you know your short stoppages as this can be a “death by a thousand cuts”!!! Do you still use a sheet of paper and a pen and “stand & watch” line analysis. How accurate is your data?

PAPERWORK REDUCTION & SUSTAINABILITY

Quality check paperwork is one of the main areas of paper use (Line checks / Goods In/Despatch Checks / Audits etc.) Removal of this will have a significant impact on your paper usage, improved sustainability and speed up your data retrieval when needed.

There are a number of systems available, but you need to make sure they fit with your needs. Don't pay for things that you will never use or are too big for your current set-up. If you only have 3 operators and a few checks, why pay for a system that could cover a 10 line factory!!! Choose a system that can grow with you.

PAPERLESS SYSTEMS

If the reason for moving to digitalisation within the business is sustainability / traceability, then "paperless" systems to capture checks / data, help to remove a large amount of paper from a factory.
Most factories use on average 15 – 20 sheets of paper per line per day just to capture the quality and production checks. Over a year, on average, that is around 6,500 sheets of paper. Did you know it takes 10 litres of water to make 1 sheet of paper. That's around 65,000 litres!!!

Removing paper from the shop floor, not only reduces the costs for the paper, archiving etc. but also reduces the resources required to produce the paper.

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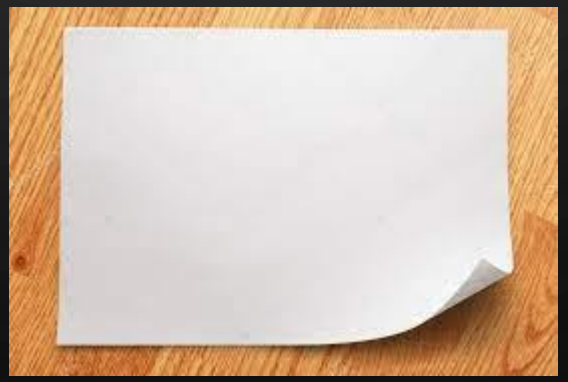

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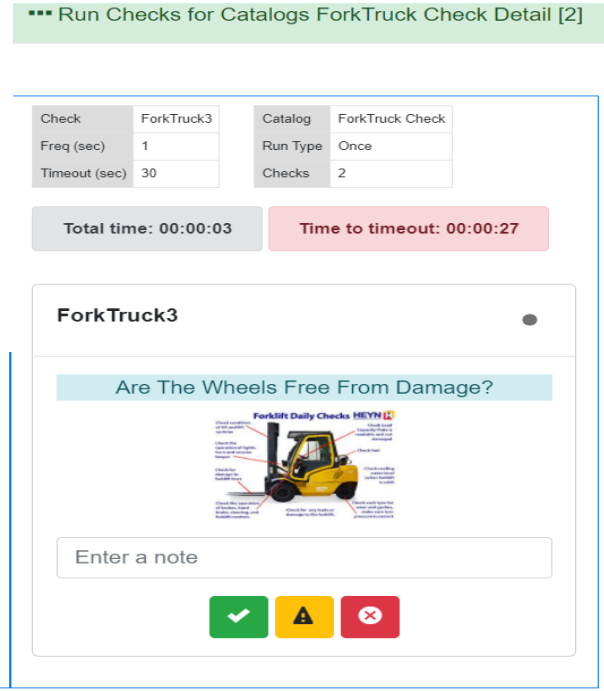
- Paperless Check Systems

A mobile paperless check system is often device agnostic and designed with expansion in mind. Not limited to just checks, it can grow with the business and link into other systems, adding additional functionality. The system can often cover everything from line quality checks, H&S Checks, Equipment Checks or site audits.



CENTRAL CLIENT SERVER

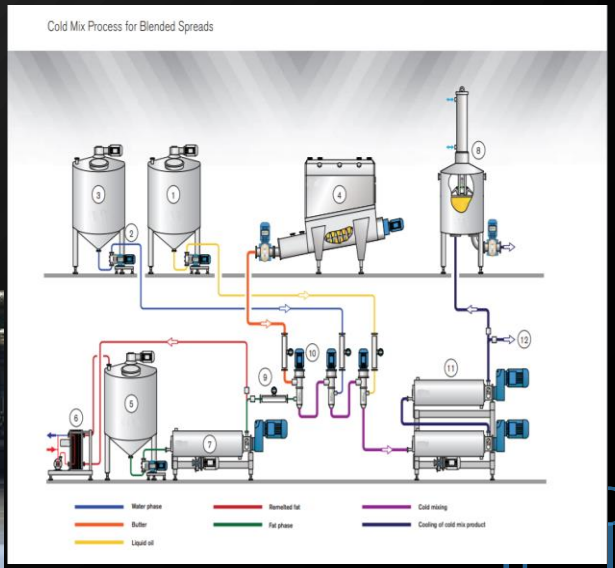
Admin PC (Webserver Connection)

LINE 1

LINE 2

LINE 3

GOODS In



CHECK EXAMPLES

*** Run Checks for Catalogs MD Checks Detail [7]

Check	0104 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	120	Checks	7

Total time: 00:00:42 | Time to timeout: 00:01:18

0104 MD SE

Check if metal reject bin is locked

Enter a note

Check	0103 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	120	Checks	7

Total time: 00:00:42 | Time to timeout: 00:01:18

0103 MD SE

Did the Stainless Steel test pass

Enter a note

Check	0102 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	120	Checks	7

Total time: 00:00:42 | Time to timeout: 00:01:18

0102 MD SE

Did the Non-Ferrous test pass

Enter a note

Check	0101 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	120	Checks	7

Total time: 00:01:31 | Time to timeout: 00:00:29

0101 MD SE

Did the ferrous test pass

Enter a note

Check	0112 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	60	Checks	7

Total time: 00:01:31

0112 MD SE

Check has timed out

Did the memory test pass?

Enter a note

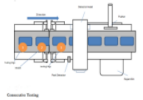
Check	0111 MD SE	Catalog	MD Checks
Freq (sec)	1	Run Type	Once
Timeout (sec)	60	Checks	7

Total time: 00:01:31

0111 MD SE

Check has timed out

Did the consecutive tests pass?



Enter a note

*** Run Checks for Catalogs ForkTruck Check Detail [2]

Check	ForkTruck2	Catalog	ForkTruck Check
Freq (sec)	1	Run Type	Once
Timeout (sec)	30	Checks	2

Total time: 00:00:03 | Time to timeout: 00:00:27

ForkTruck2

Is the Step Damage Free?

Enter a note

Check	ForkTruck3	Catalog	ForkTruck Check
Freq (sec)	1	Run Type	Once
Timeout (sec)	30	Checks	2

Total time: 00:00:03 | Time to timeout: 00:00:27

ForkTruck3

Are The Wheels Free From Damage?

Enter a note

Check		Catalog	
Freq (sec)	1	Run Type	Once
Timeout (sec)	300	Checks	5

Total time: 00:01:35 | Time to timeout: 00:03:25

Glass & Hard Plastic

Is The Machine Guard In Tact

Image

Choose file | No file chosen

Screen on machine A damaged

Check		Catalog	
Freq (sec)	1	Run Type	Once
Timeout (sec)	300	Checks	5

Total time: 00:01:35 | Time to timeout: 00:03:25

Glass & Hard Plastic

Is The HMI Screen Damaged

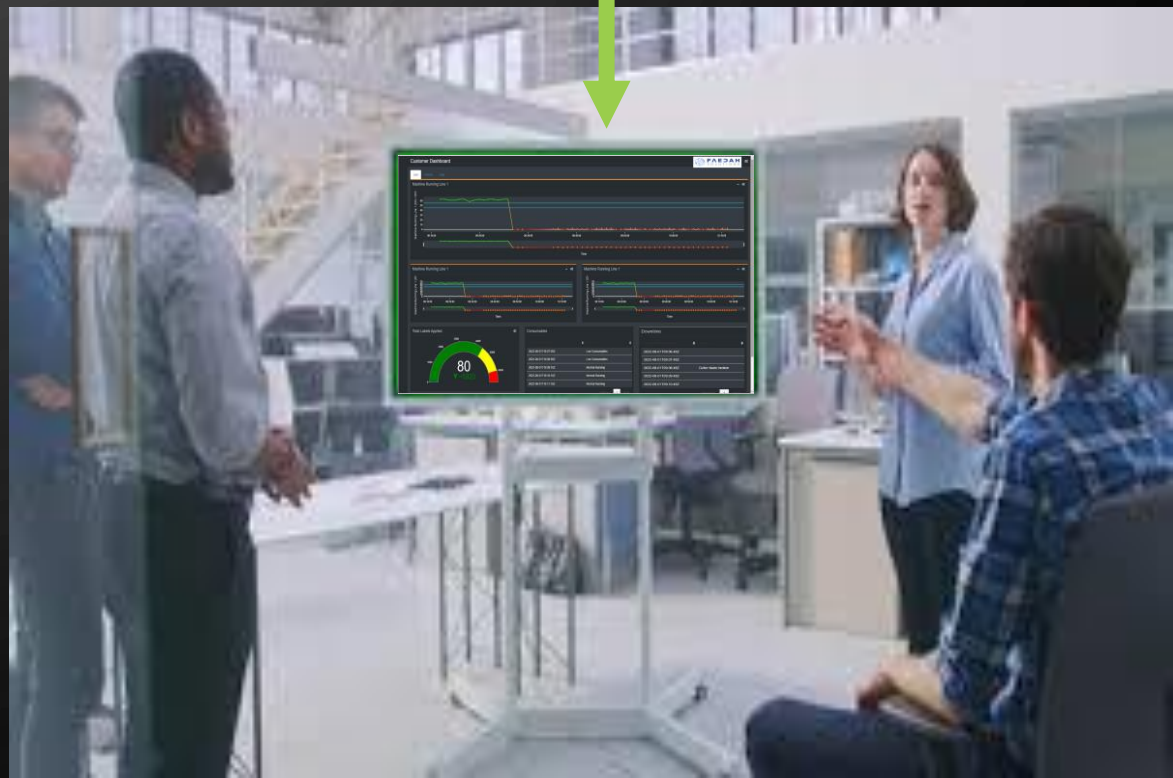
Image

Choose file | No file chosen

Screen Damaged, Needs Replacing

EASE OF USE

Start small. Move from a basic, time-consuming operation to a more visible operation where others can participate.



SUSTAINABILITY - CORRECT PACKAGING

Using the wrong packaging or applying the wrong date codes to packs con have a significant cost implication on any business (large or small). Disposal of stock, product withdrawals, re-run of orders etc. This can equate to tens of thousands of pounds and packaging and materials wastage which end up in landfill.

This can be prevented in any size of business and doesn't have to cost large amounts to implement. Scale the solution to your needs.

Make sure it's Right First Time.

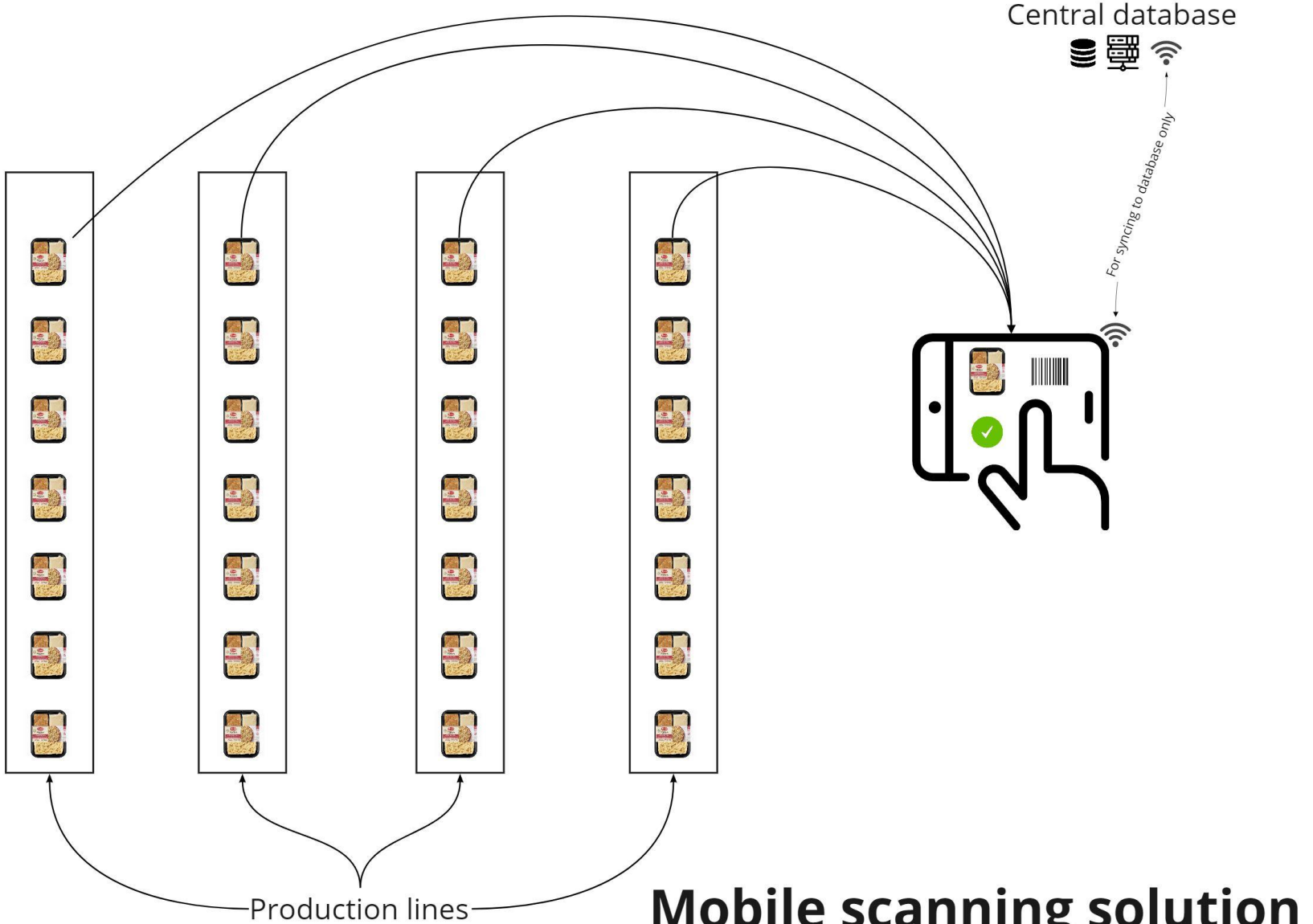
SUSTAINABILITY - CORRECT PACKAGING

3 tiers of label verification & date control solutions are available.

Tier 1 – Fully mobile system for independent checks

Tier 2 – Scanning - In-line scanning only (Stand alone)

Tier 3 – Autocoding - Fully integrated Autocoding system

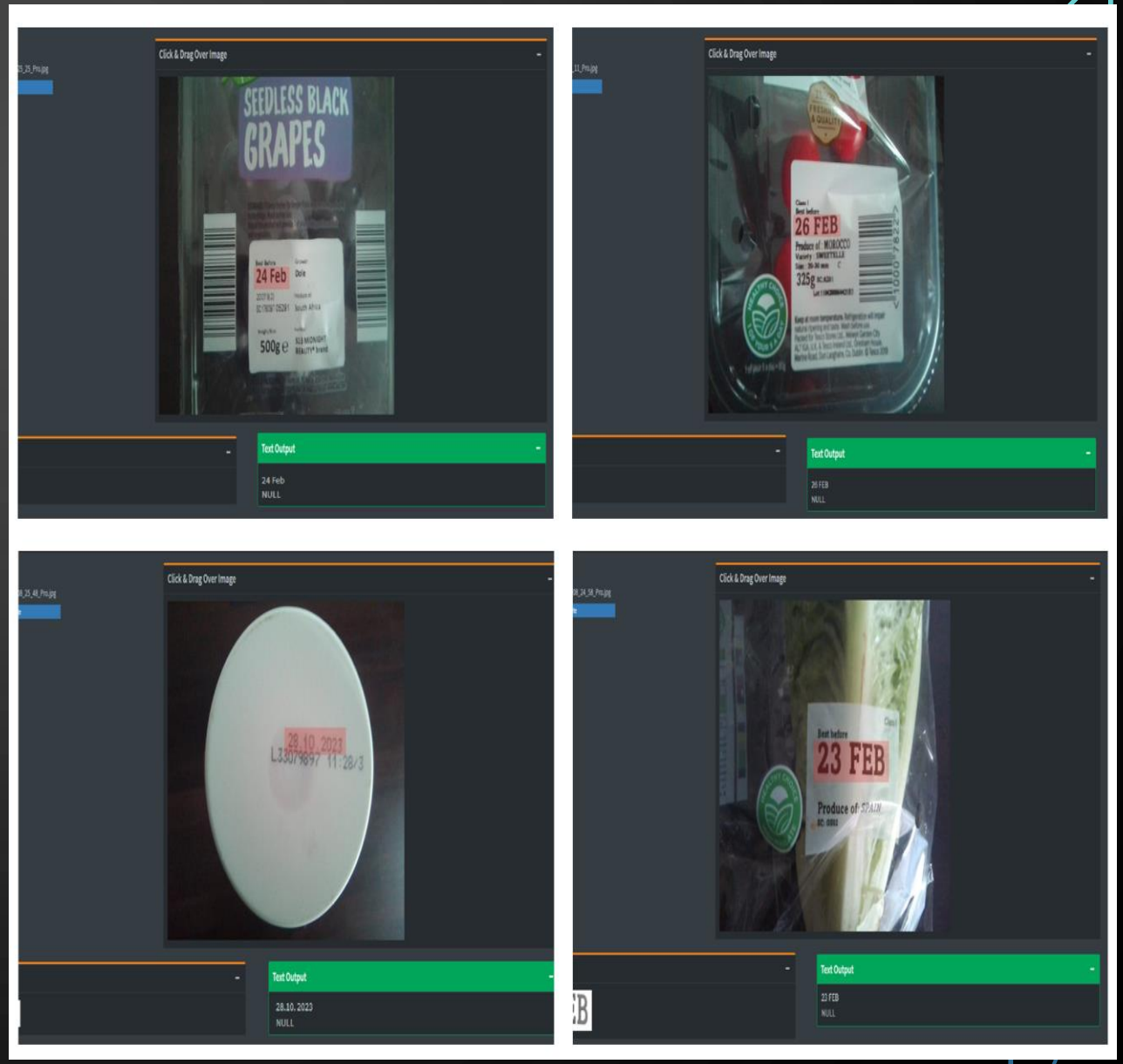


Mobile scanning solution

Check Sure® - Perception (Mobile OCR & Barcode Validation)

Ensure you are using the correct labels for your products. Tier 1

- Mobile
- Easy as 1,2,3….(Enhance current paperwork)
- Entry level “Autocoding”
- Product Database Validation
- Use anywhere

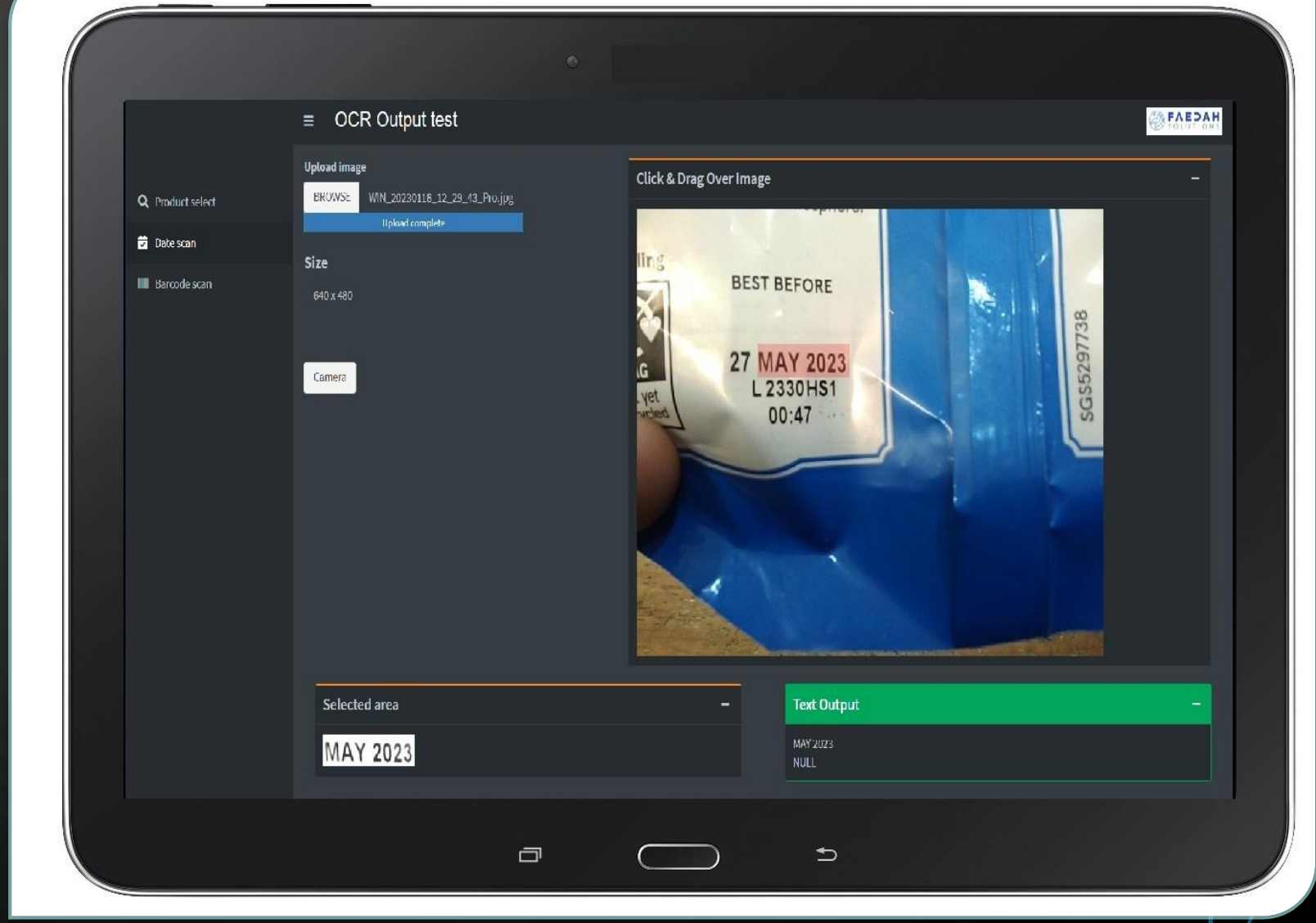


Check Sure® - PERCEPTION (Mobile OCR Validation)

Areas of use: -

- Barcode validation
- Date code validation
- Allergen checks on ingredient lists

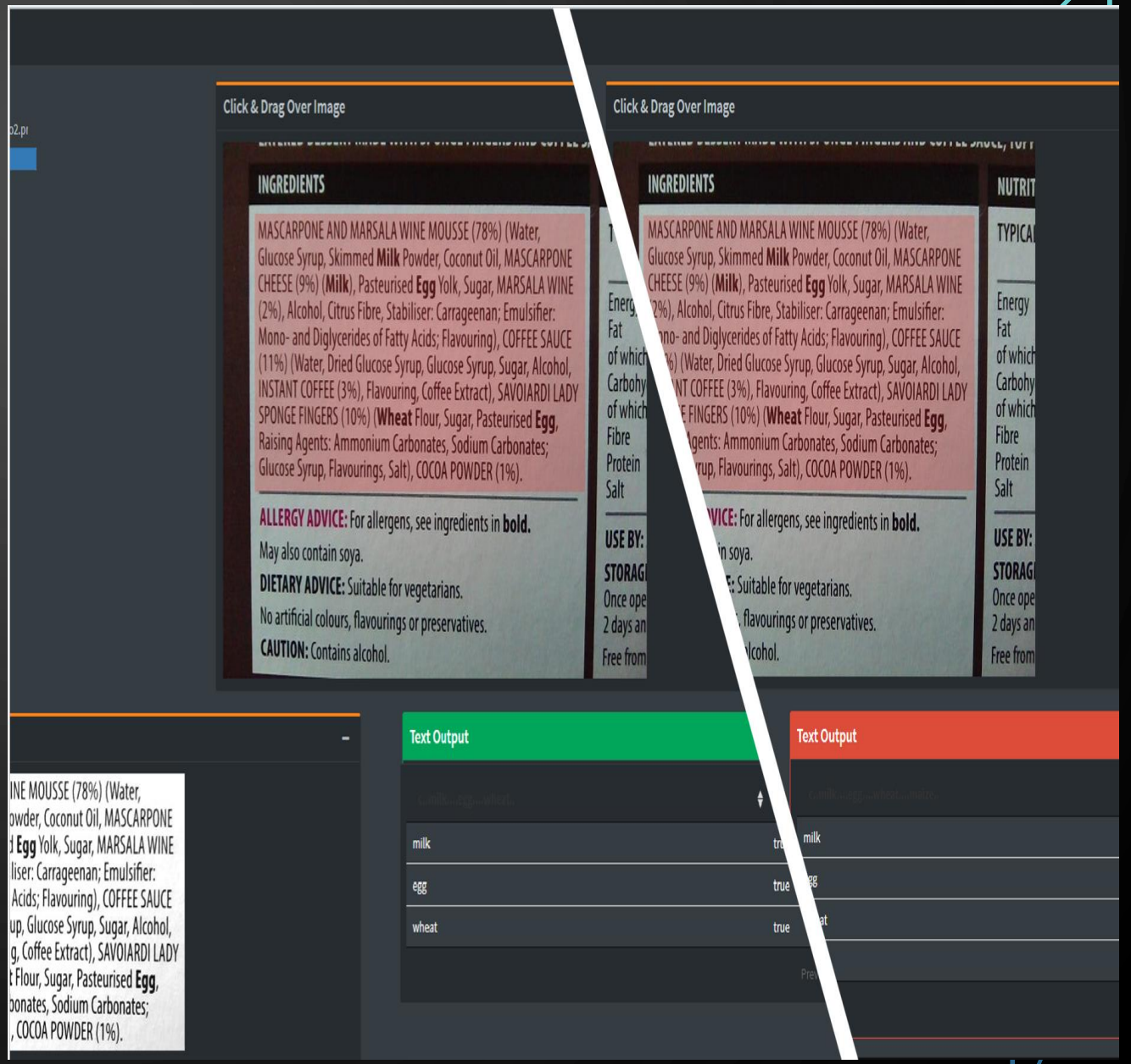
And many more……



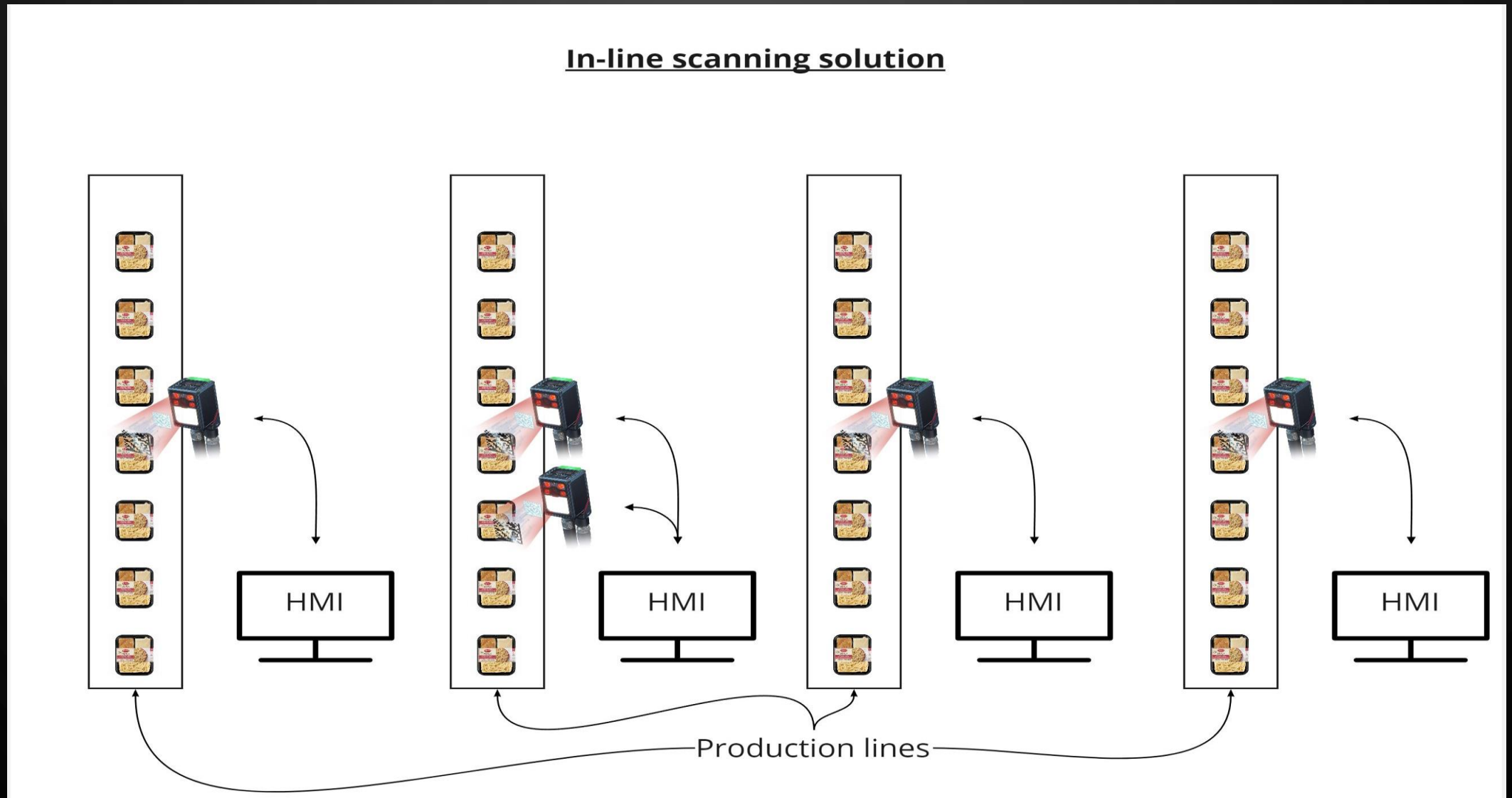
Check Sure® - Perception (Mobile OCR & Barcode Validation)

Areas of use: -

- Allergen Checks
- Packaging Text Checks



TIER 2 – SCANNING ONLY



CORRECT PACKAGING

- **Scanning Only**

If you have printer control in place to ensure the correct date codes & print. Adding scanning only to the line ensures the correct packaging / label is being used.

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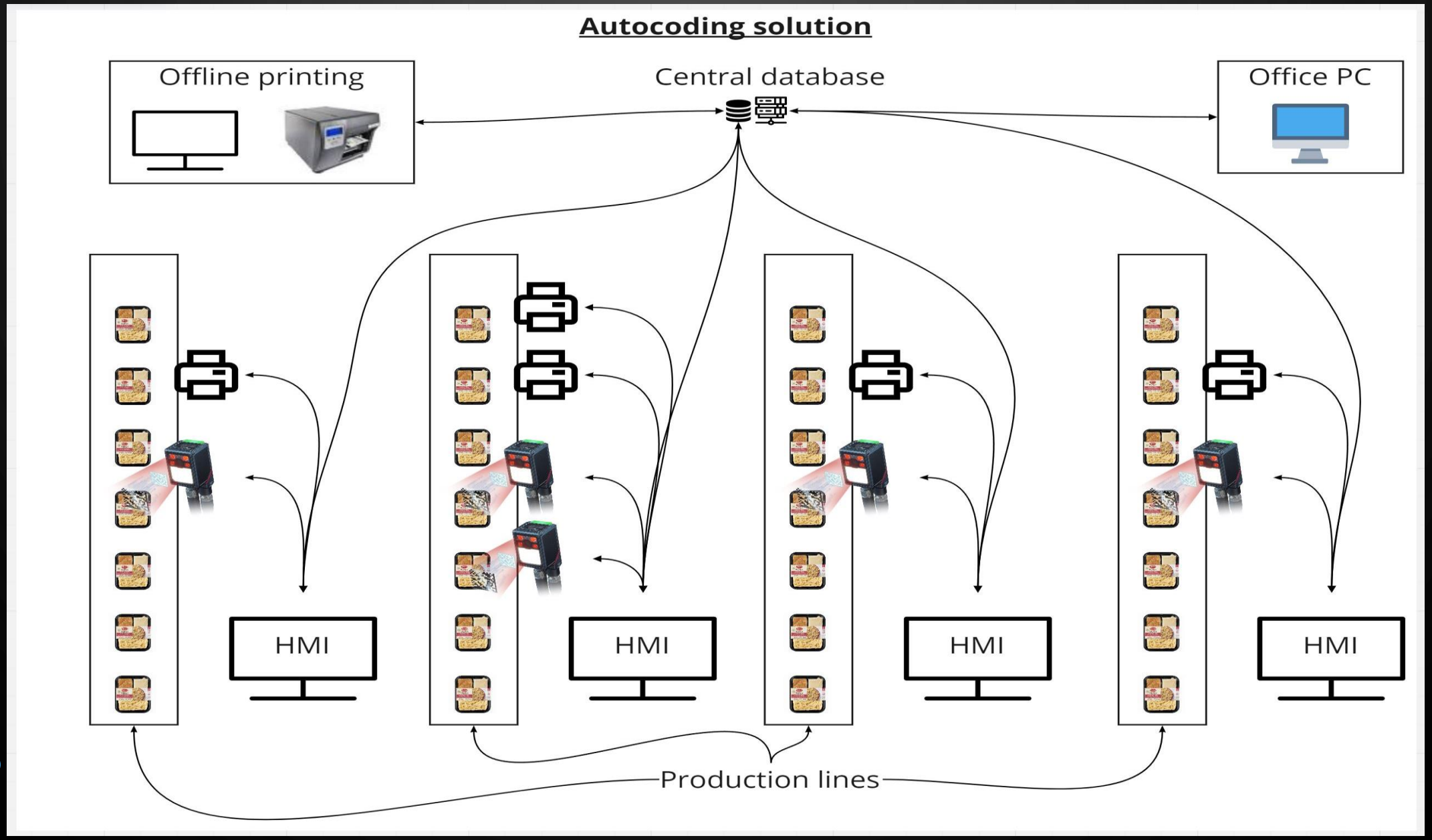
TIER 3 – FULL AUTOCODING



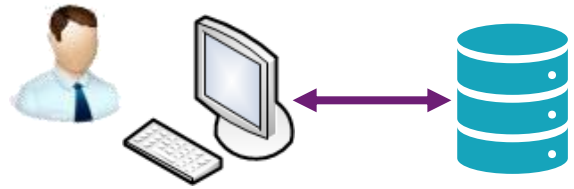
• Autocoding

A fully integrated Autocoding system connects to scanners for reading of 1D / 2D barcodes and/or vision systems to read date codes. Able to communicate with coders to make sure the right date code is printed. Centrally controlled, the operator selects a job from a list and the scanners and printers are setup as per the job specifications. Industry standard protocols means that if a wrong barcode is detected, an alarm (including a line stop) is activated thus preventing wrong packs leaving your facility.

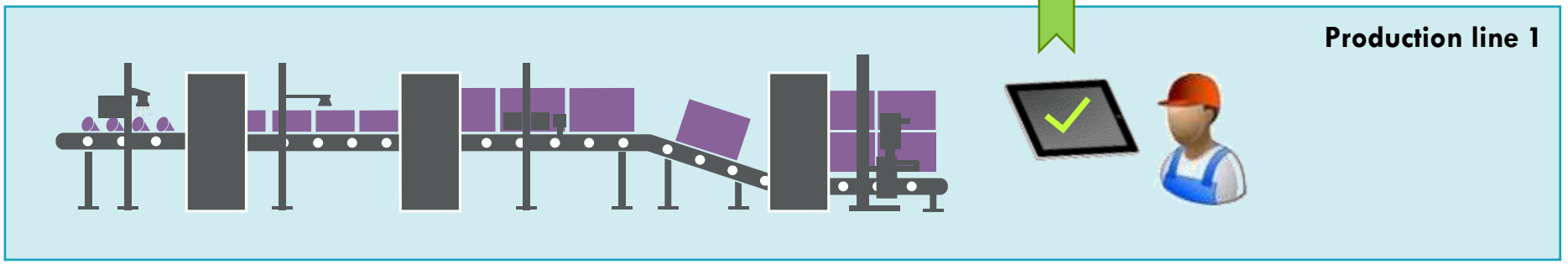
LINE START CHECKLISTS

Flexible task creation process

User actions and data stored in database.
Easy access for historical reporting



Configure line start checks as required for each production line



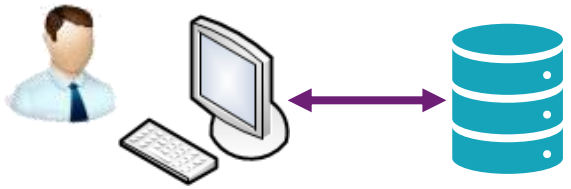
Tasks responses can be checked against order fields

Approval process to allow line to start if tasks are failed and/or skipped

PRODUCT CHECKLISTS

Flexible task creation process. Require data entry to be checked against order field

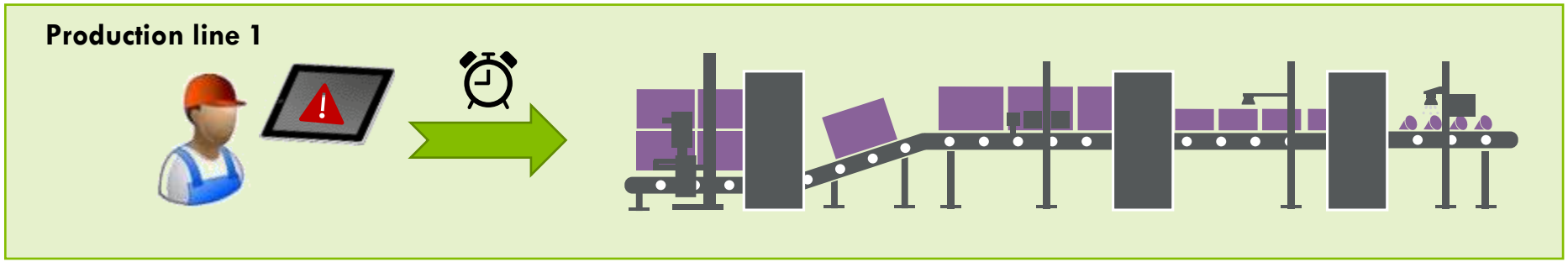
User actions and data stored in database. Easy access for historical reporting



Configure checks as required for each product

Define product check for each product / group of products

Add photo to task to help the user during the activity



Notify users when line check is overdue

Real-time visibility of line status & user actions

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Automated systems can be expanded to include:

1) ERP connectivity
2) Quality Checks
3) OEE
4) Ability to add additional connectivity for other devices, such as checkweighers

ENERGY SAVINGS

1)Do you know where you are using your energy?
2)Do you have systems in place to monitor usage? Can your energy be reduced?
3)Is there a specific piece of equipment that uses more? Purchasing new energy efficient equipment may save thousands.
4)Do you have a team or someone who can focus on it? If not, consultants may be a cost effective solution.

Energy Usage dials

Training

Main | Help

Live data - Time frame

- (•) Last hour
- ( ) Last 2 hours
- ( ) Last 4 hours
- ( ) Last 8 hours
- ( ) Last 12 hours
- ( ) Last 24 hours

Historic - Date range

to

Load historic data

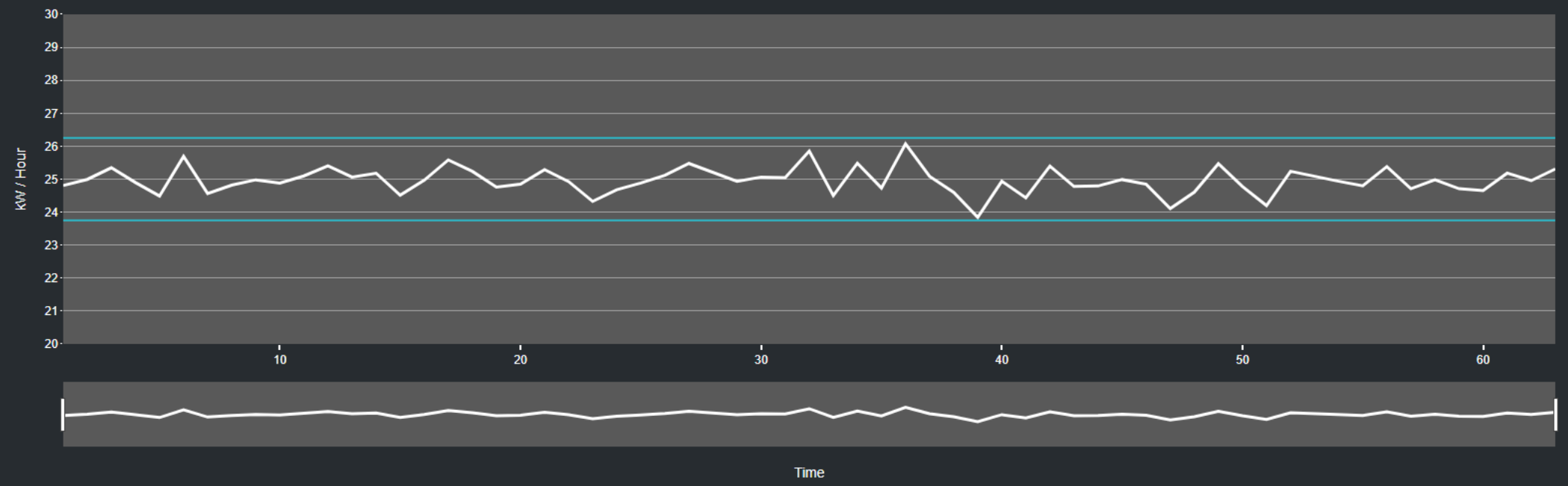
Historical data - Aggregation

- (•) By default
- ( ) By quarter hour
- ( ) By half hour
- ( ) By hour
- ( ) By eight hours

Aggregation type

- (•) Sum
- ( ) Mean

Total Energy Used



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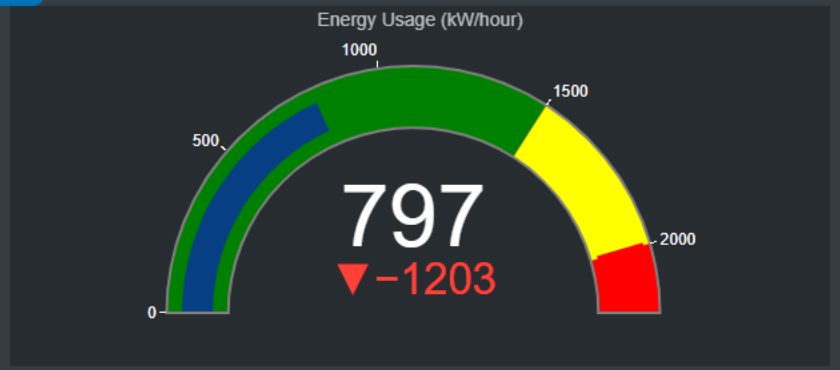

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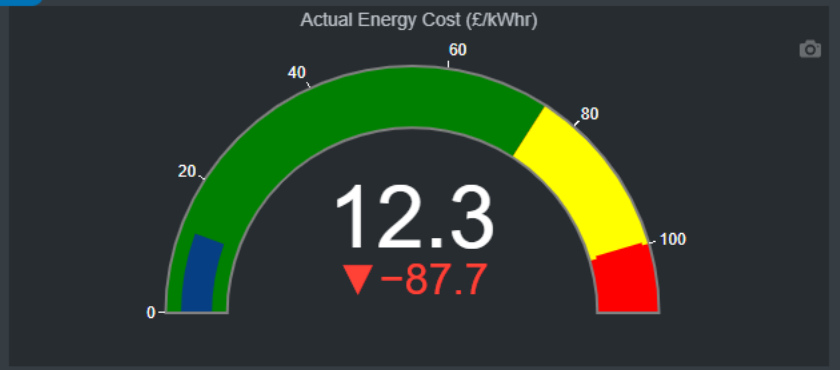

front

Actual Cost of Energy Cost Used

£ 1205

Water Usage dials

Training

Main | Help

Live data - Time frame

- (•) Last hour
- ( ) Last 2 hours
- ( ) Last 4 hours
- ( ) Last 8 hours
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Historic - Date range

to

Load historic data

Historical data - Aggregation

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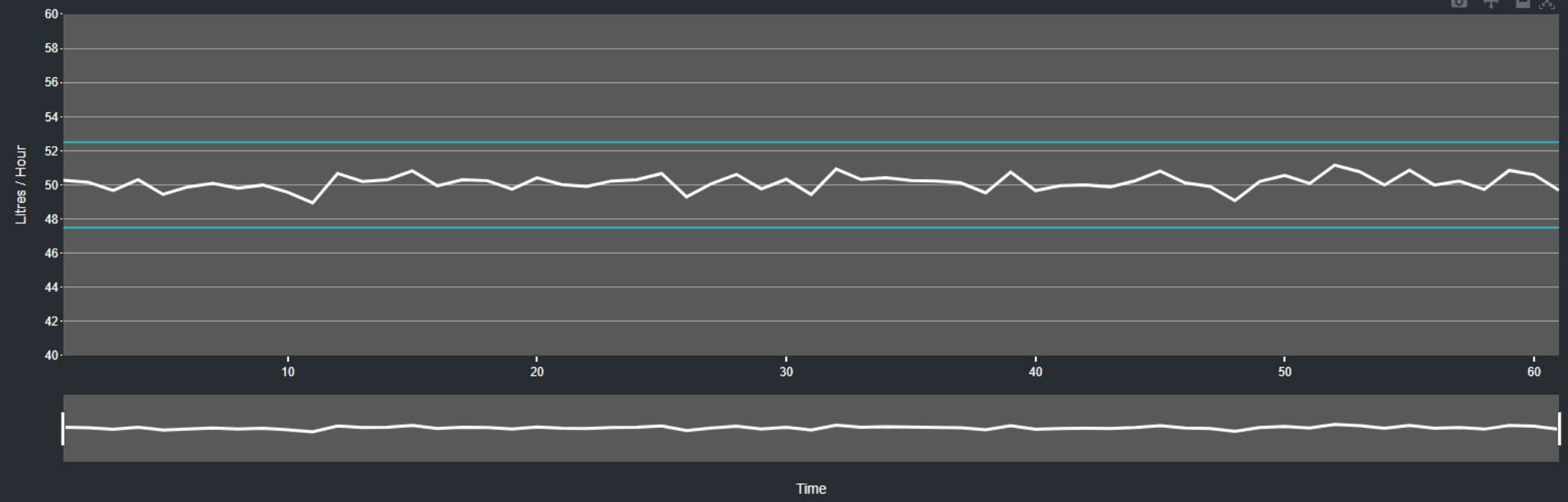
- ( ) By eight hours

Aggregation type

- (•) Sum
- ( ) Mean

Total Water Usage



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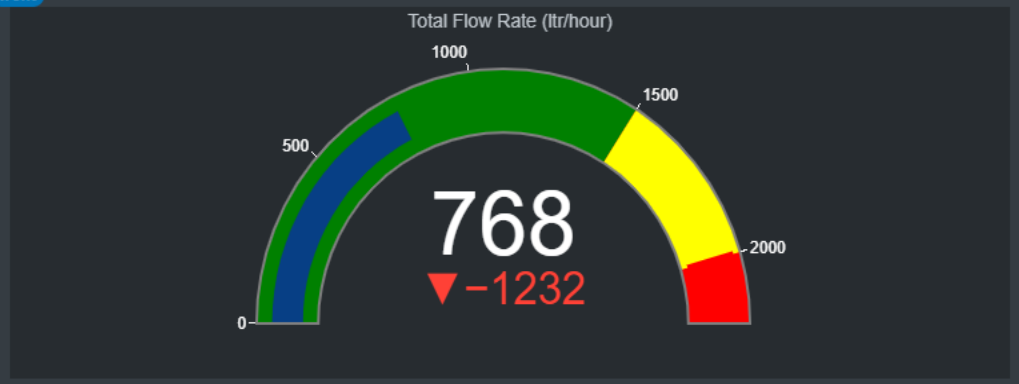

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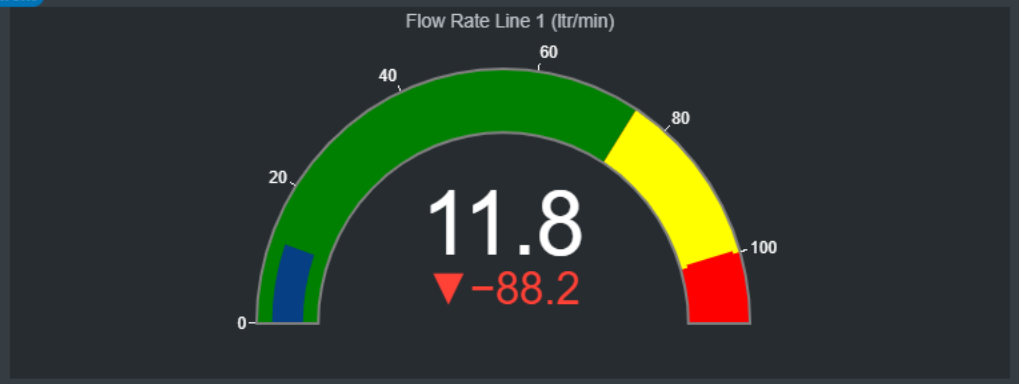

EFFICIENCY IMPROVEMENTS

Gathering pack or efficiency data could come directly from the machine by either built in systems or retro fitted.

1) Packs per minute produced –improve throughput / efficiency
2) Number of labels used – reduce consumables / stock levels / reduce waste
3) Number of cases produced – accurate order achievement / stock levels
4) How to change over quickly – training – increases operator retention / reduce downtime
5) How many hours of use for machine – OEE / equipment optimisation
6) Mean time to failure. If PPM planned in and completed before the equipment fails = less unplanned downtime

Mean time to failure (Hours of running)

Training

Main | Help

Live data - Time frame

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Load historic data

Historical data - Aggregation

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Aggregation type

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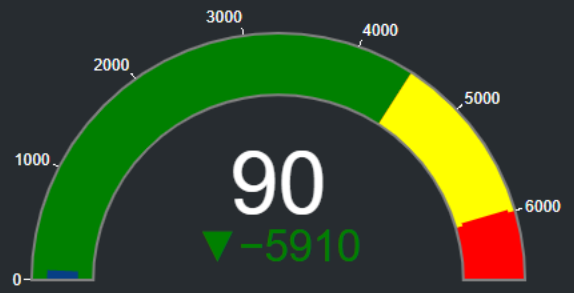
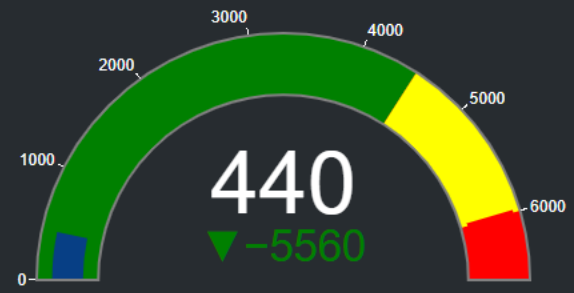
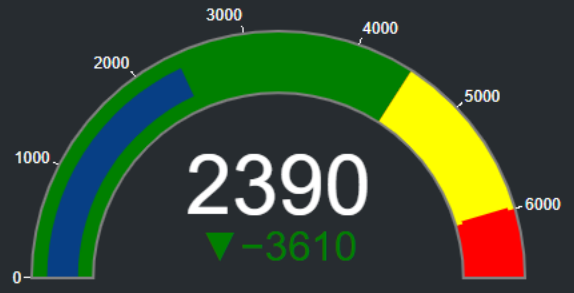
Motor 1



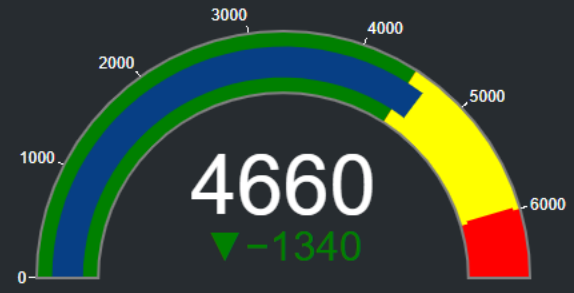
Machine 2



Motor 2



Machine 4



Drive motor / vibration Monitoring

Training

Main | Help

Live data - Time frame

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- ( ) Last 2 hours
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- ( ) Last 12 hours
- ( ) Last 24 hours

Historic - Date range

to

Load historic data

Historical data - Aggregation

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- ( ) By quarter hour
- ( ) By half hour
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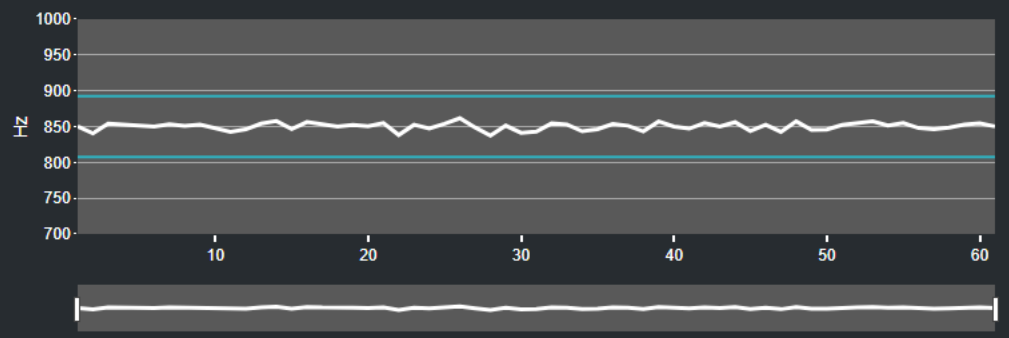
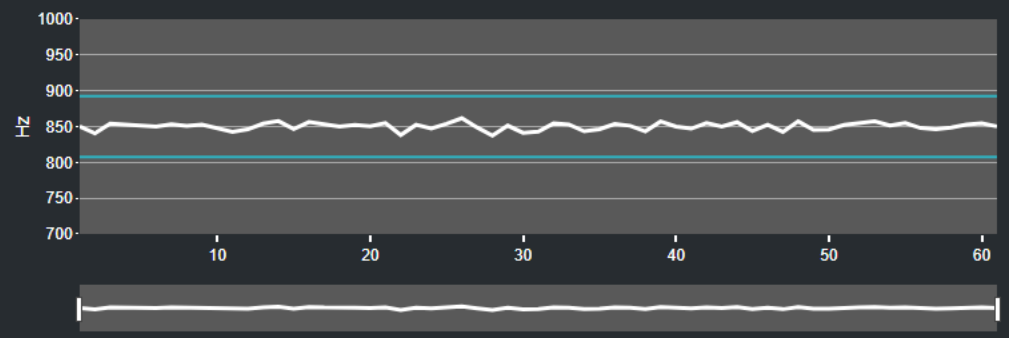
Aggregation type

- (•) Sum
- ( ) Mean

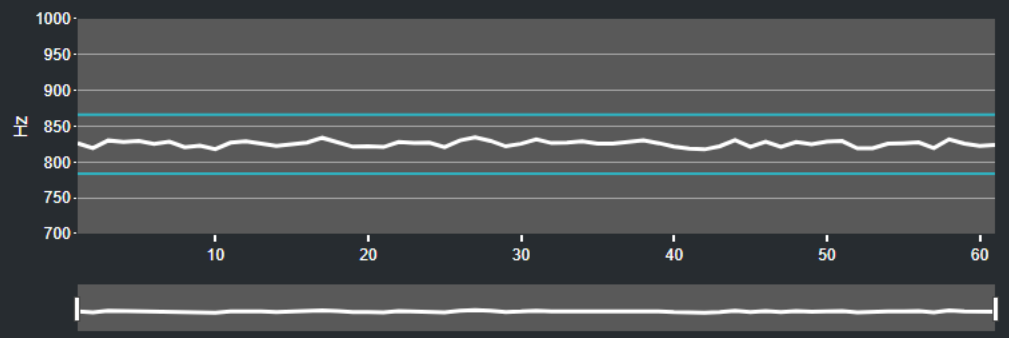
Motor 1 - Vibration



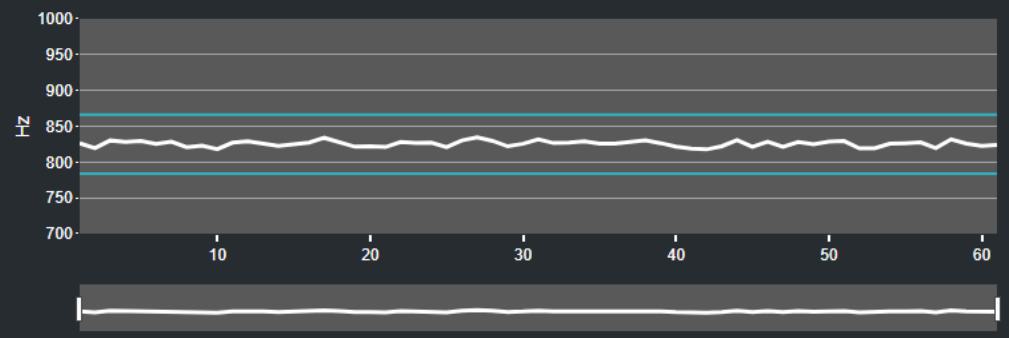
Motor 2 - Vibration



Motor 3 - Vibration



Motor 4 - Vibration



Live data - Time frame

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Historic - Date range

to

Load historic data

Historical data - Aggregation

- (●) By default
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- ( ) By eight hours

Aggregation type

- (●) Sum
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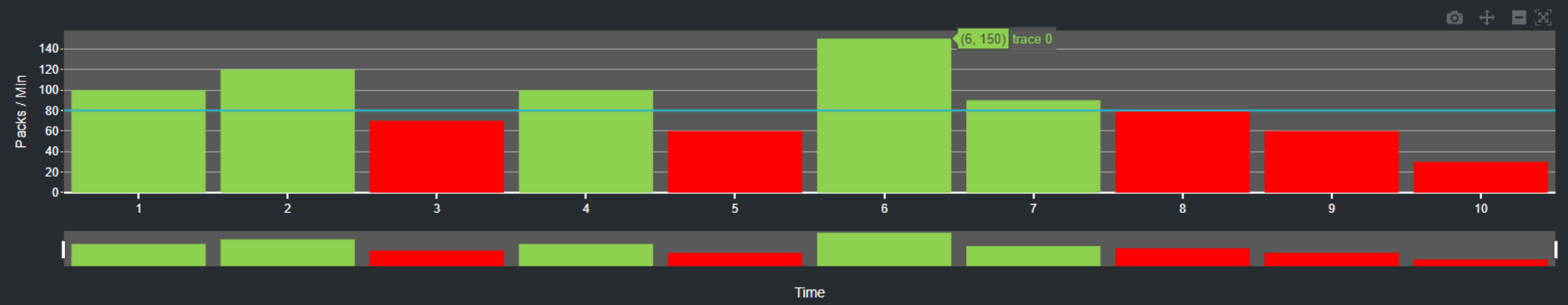
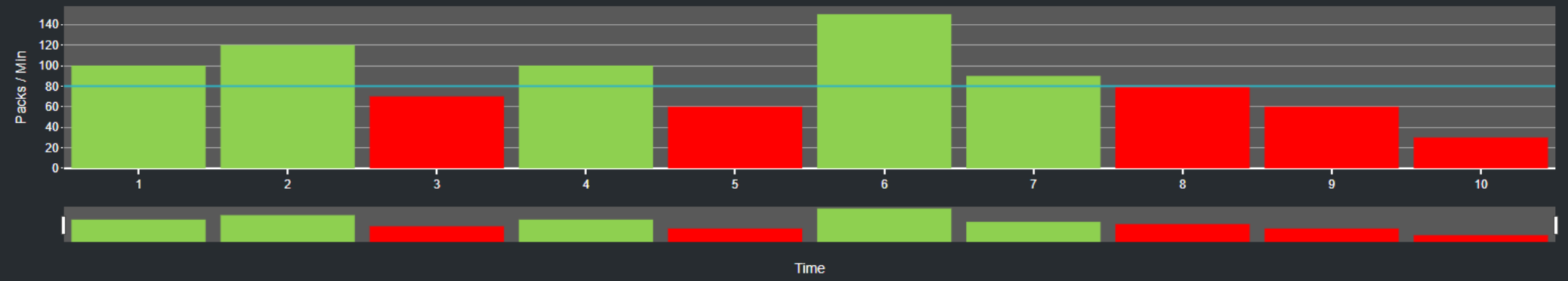
Packs Per Minute Line 1



Packs Per Minute Line 2



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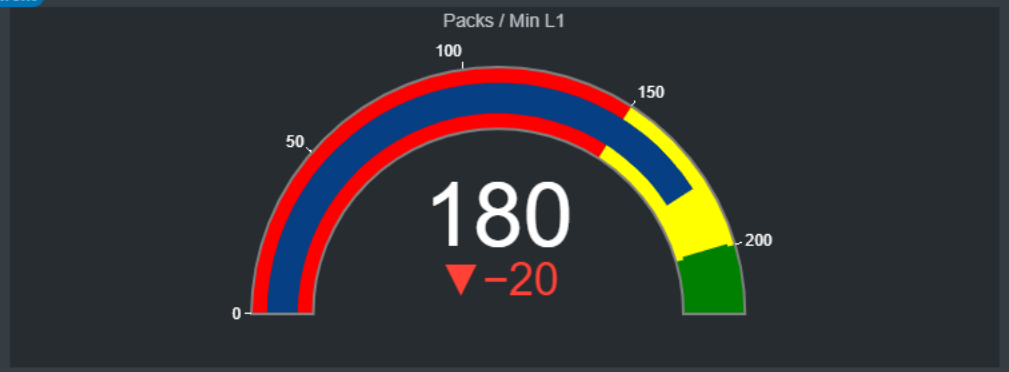

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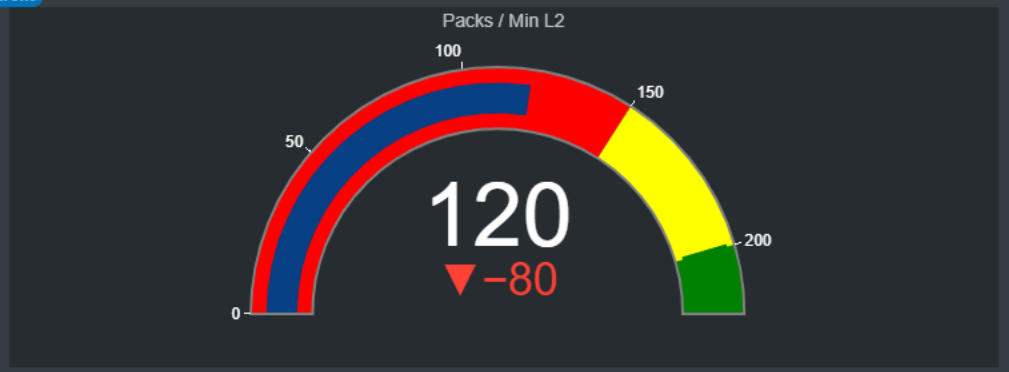
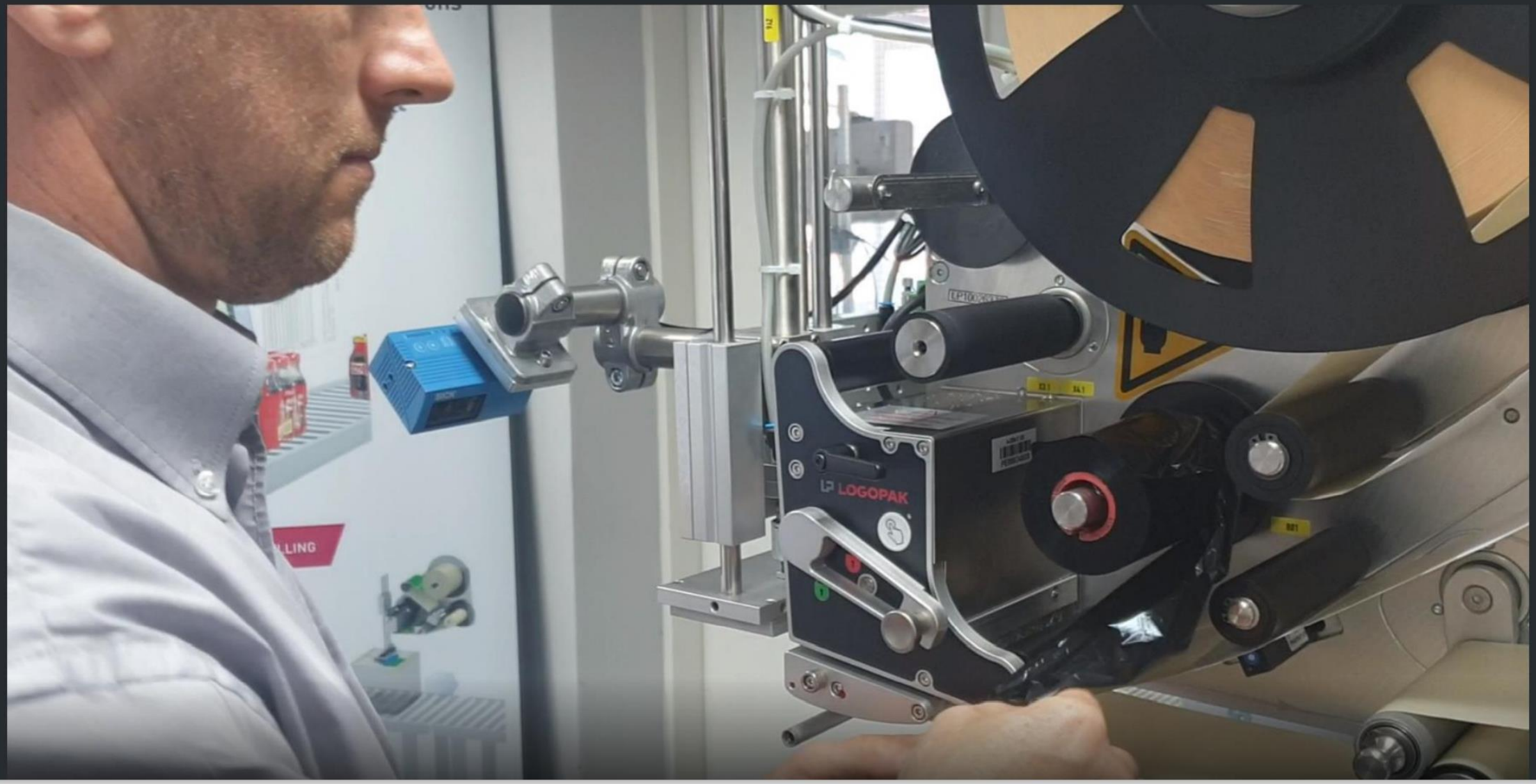


Dashboard

Live Monitor Historic Help

“Help” Training Videos

Video playback



RENT OR PURCHASE?

To rent or purchase a system can depend on a number of factors: -

1) Current cash-flow / CAPEX Freeze
2) Is the system required for constant monitoring or a particular task
3) Used by site Continuous Improvement teams to monitor specific parts of the site e.g. CIP systems to optimise current chemical / water usage, process timings) (Move/ Monitor / Move again)
4) Used as justification for a larger system instead of a Time & Motion study
5) No in-house resources to complete so outsourced

RENT OR PURCHASE?

Check Sure®
CI
Continuous Improvement

Line Speed, RPM, Counts, Etc.

Process temperatures, CIP, Fridge/Freezer monitoring Etc.

Pallet/Tray counts

Weigh Scales
Waste Scales

Line review video for downtime cause and analysis

Ultrasonic/Standard
Flow meters

Relay Trigger

Live | Historic | Help

CIP Monitoring (Temperature, pH, flow)

Multi-plot Graph

Downtime

InsertedDateLocal	Value
2022-07-19T13:46:50Z	
2022-07-19T13:47:51Z	
2022-07-19T13:48:51Z	Cutter blade broken
2022-07-19T13:49:51Z	No Product
2022-07-19T13:50:51Z	Line running

Previous 1 Next

FAEDAH SOLUTIONS

Valve Monitoring (On / Off)

Training

Main | Help

Live data - Time frame

- (•) Last hour
- ( ) Last 2 hours
- ( ) Last 4 hours
- ( ) Last 8 hours
- ( ) Last 12 hours
- ( ) Last 24 hours

Historic - Date range

to

Load historic data

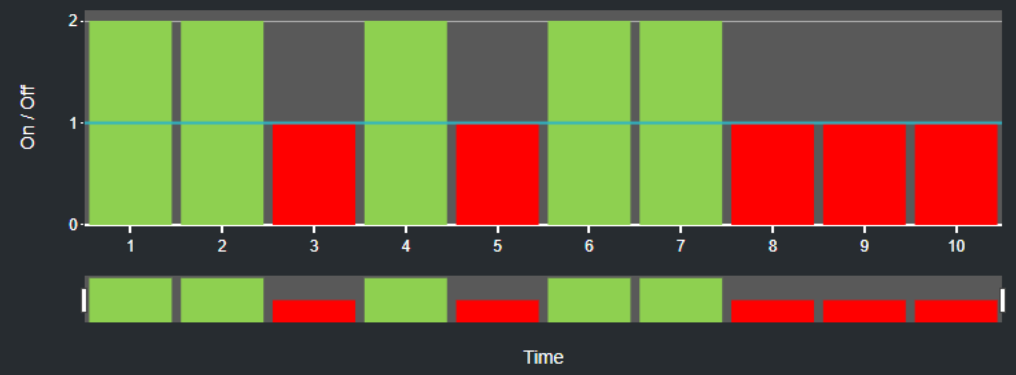
Historical data - Aggregation

- (•) By default
- ( ) By quarter hour
- ( ) By half hour
- ( ) By hour
- ( ) By eight hours

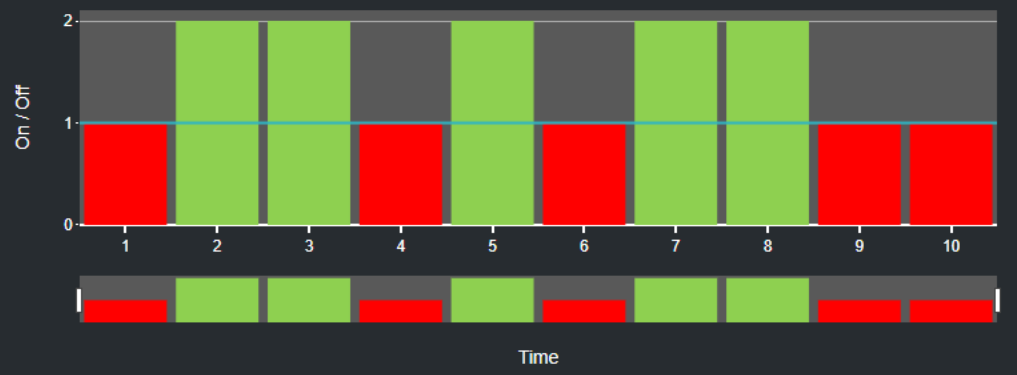
Aggregation type

- (•) Sum
- ( ) Mean

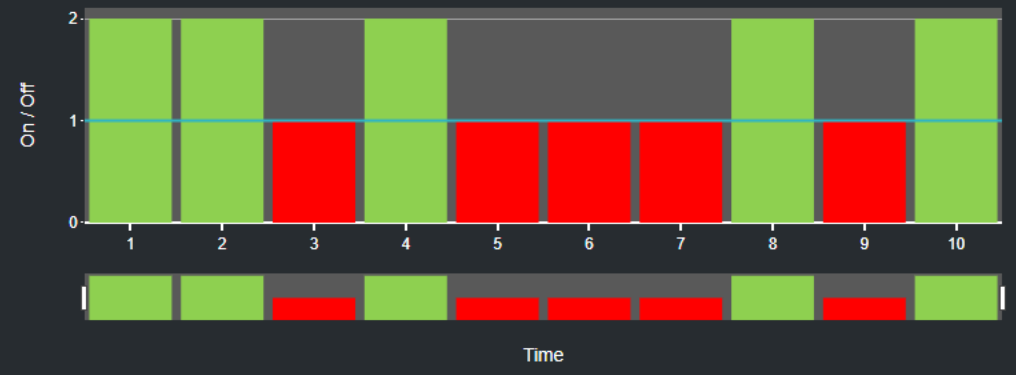
Valve 1



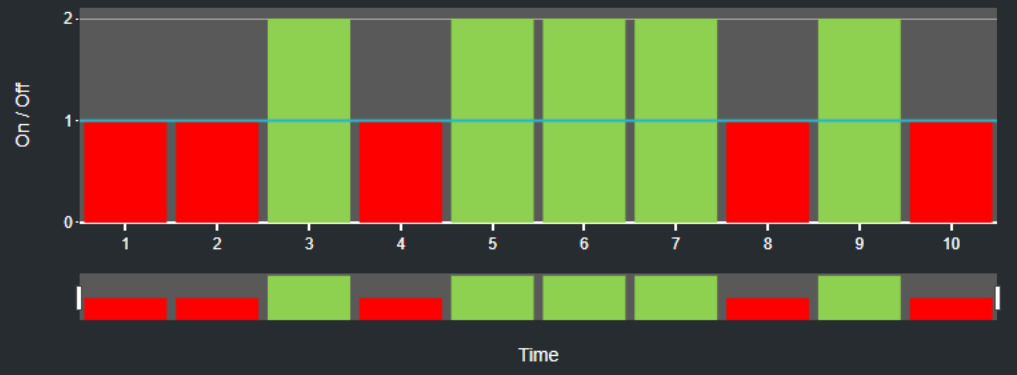
Valve 2



Valve 3



Valve 4



YOUR CURRENT SYSTEMS

You may not need to replace existing software systems with a new system just to get centrally managed reports.

A lot of systems use a central database which suppliers will usually allow access to. Using a report system, such as Power BI or others, will allow data to be taken from a number of databases then combined into one central report. Eliminating the need for accessing multiple software reports while still keeping existing systems.

FAEDAH SOLUTIONS

OPTIONS

Paperless Checks

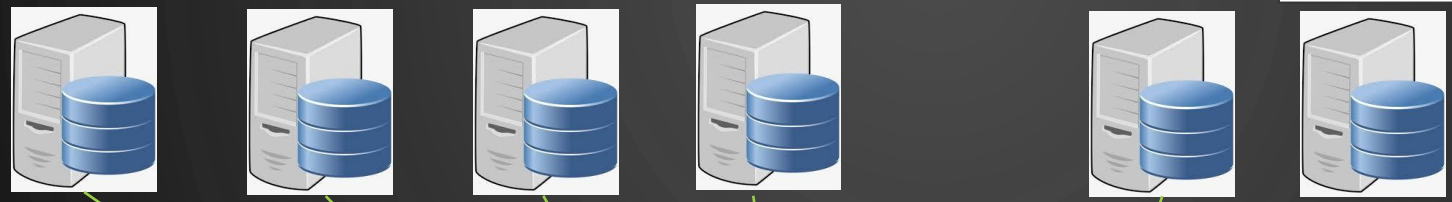
Finance

Line Data

HR

Audits

Entry Forms
Knife Logs
Plaster logs etc.



Reports Config
e.g. Power BI / Bespoke reporting

AREAS TO REMEMBER

With increased digitalisation and networking of equipment and the requirement to view data remotely, Cyber Security is a crucial part of any system. Ensuring that you have robust protection in place is a must to keep the site protected.

SOME OF OUR CUSTOMERS

CheckSure CI

UNIVERSITY OF LINCOLN

NATIONAL CENTRE FOR FOOD MANUFACTURING

Systems Review

FRESHWAYS

Consultancy

genius Gut Lovin' Greatness

THE Ochil Fudge PANTRY

DCNORRIS

Paperless / Support / Autocoding

SOMERSET FARMING SINCE 1861

WYKE FARMS

est 1850

CURTIS

the ingredients people

ichiban UK

FAEDAH SOLUTIONS

THANK YOU FOR LISTENING
FOR MORE INFORMATION, PLEASE VISIT OUR STAND