



Making Operations Visible 24x7
The Assembly Show 10/24/23

"If you can't measure it, you can't improve it" – Peter Drucker

- How do you tell what people are doing on the factory floor?
- Leela AI automatically measures, summarizes, and reports 24x7
 - Value-add Activity
 - Process Variation
 - Process Non-compliance
 - Safety, Ergonomics



A Copilot to extend ...

the reach of existing teams

US heavy industry
Manufacturers are using Leela AI to increase their capacity with existing resources

- * Proper use of takt timers at all stations
- * Proper placing of units on assembly floor (5S)
- * Proper use of visual management tools

Alerts for: part shortages, defects in process, tool/machine malfunction, safety problems



Automatically measures and evaluates complex assembly processes

capacity improvement
staff management
industrial safety

Broad set of use cases

10%

10-15 x ROI

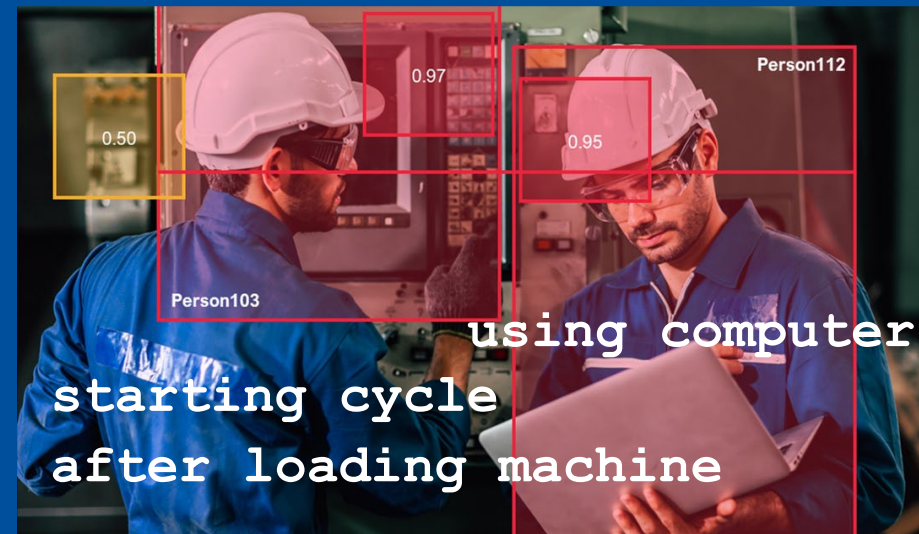
CUSTOMER FORECAST deploying Leela AI on single production line
\$80k/year subscription translating to over \$800k/yr in uplift

capacity increase using Leela AI

CONFIDENTIAL AND PROPRIETARY

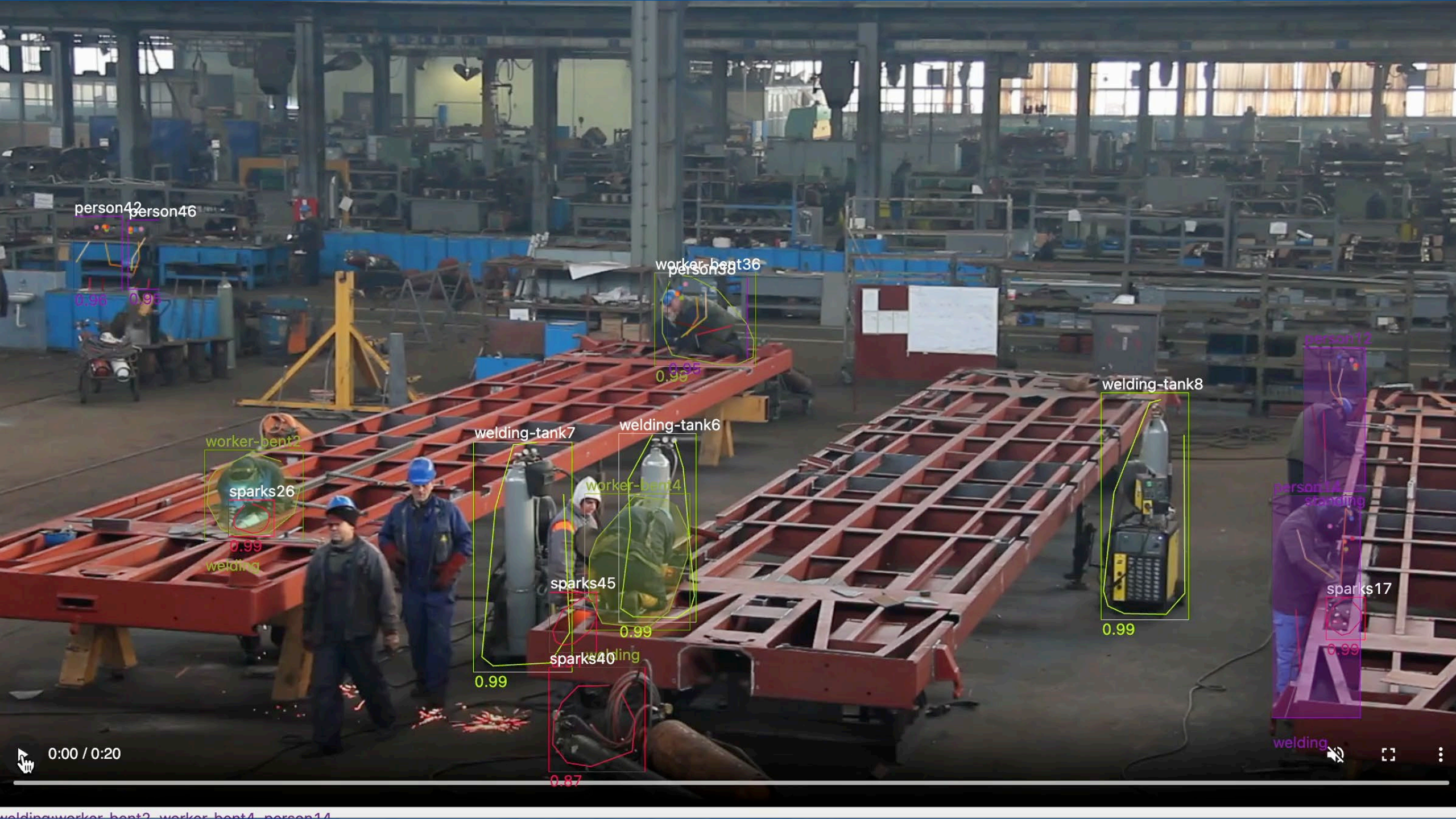


With Leela AI you can measure process steps in detail using data collected 24x7 from video, to build value stream map



You can see everything that happened in an hour, day, week, month, or longer, in a spreadsheet or a dashboard





person42
person46

0.96 0.95

worker_bent36
person38

0.99

worker_bent2

sparks26

0.99

welding

welding-tank7

welding-tank6

worker_bent4

sparks45

0.99

sparks40

0.99

0.87

welding-tank8

0.99

person12

person14
standing

sparks17

0.99

welding

0:00 / 0:20

weldingworker_bent2_worker_bent4_person14

leela.ai

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Confidential an

Drive manual process improvement with data-driven insight

Increase output/capacity with your existing resources

Reduce waste, lead time and cost, improve product quality

VALUE ADD TIME



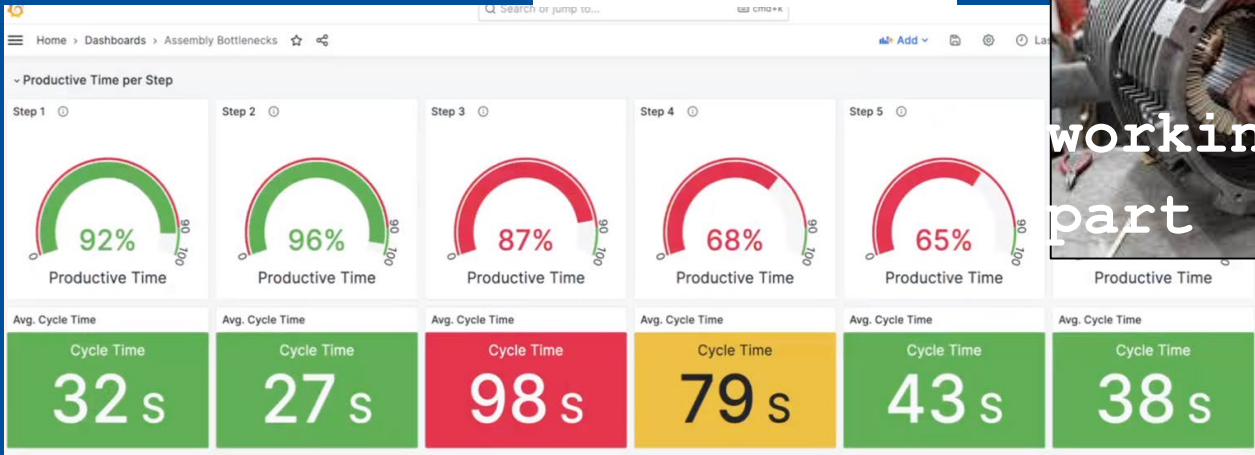
SAFETY SCORE



AREA 1

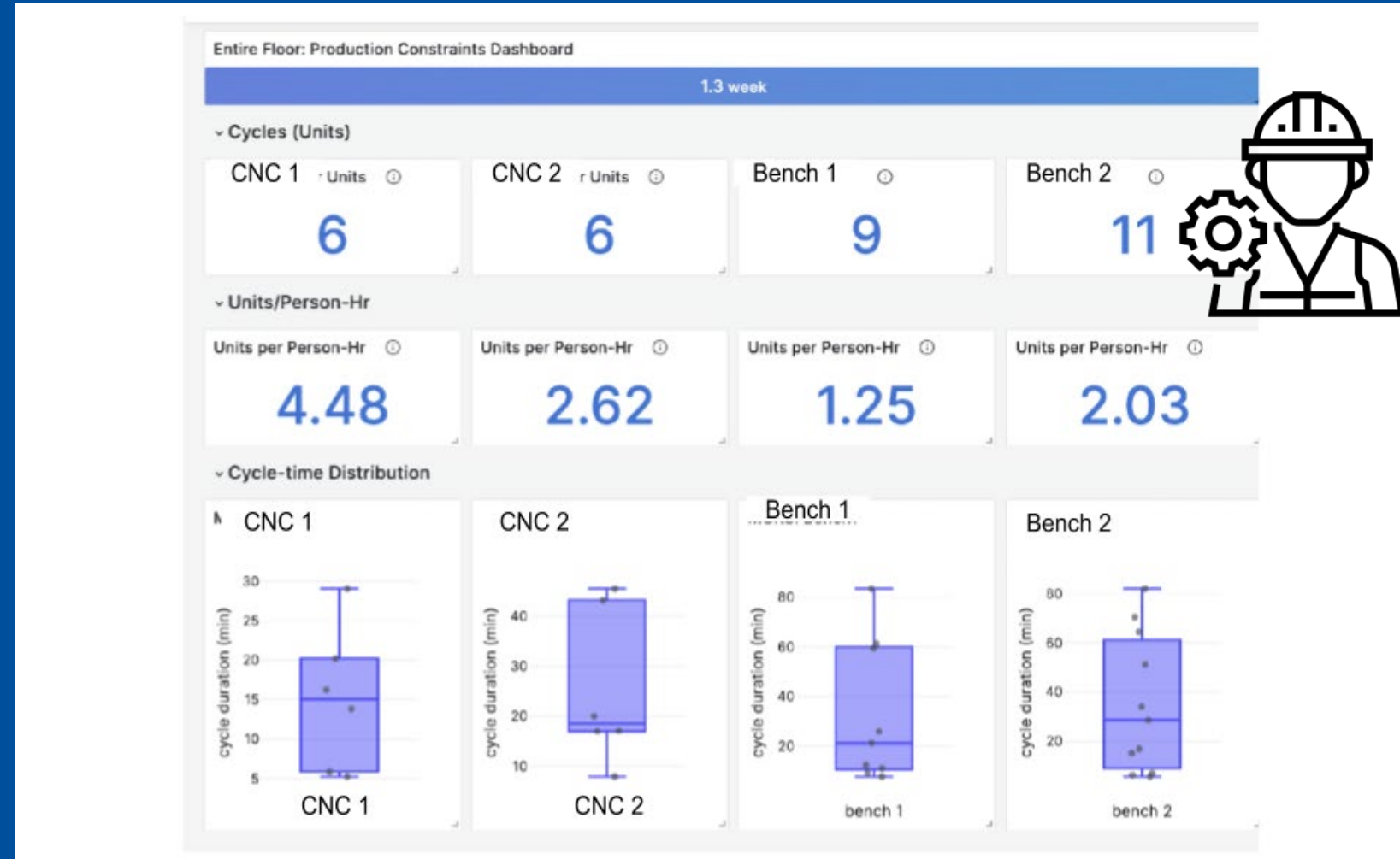


AREA 2



PRODUCTIVE TIME FOR EACH STEP

Leela Works With You and Your Team



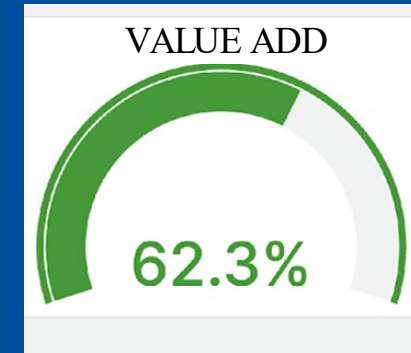
to quickly identify bottlenecks to increase throughput and reduce costs



Visual Intelligence for Productivity and Safety



Shift A



Setup time
30 mins

Work
processes
124 mins

Changeover
43 mins

Maintenance
0 mins



Leela AI gives you insights & analytics to produce more with your existing resources



Observed & Aggregated Report

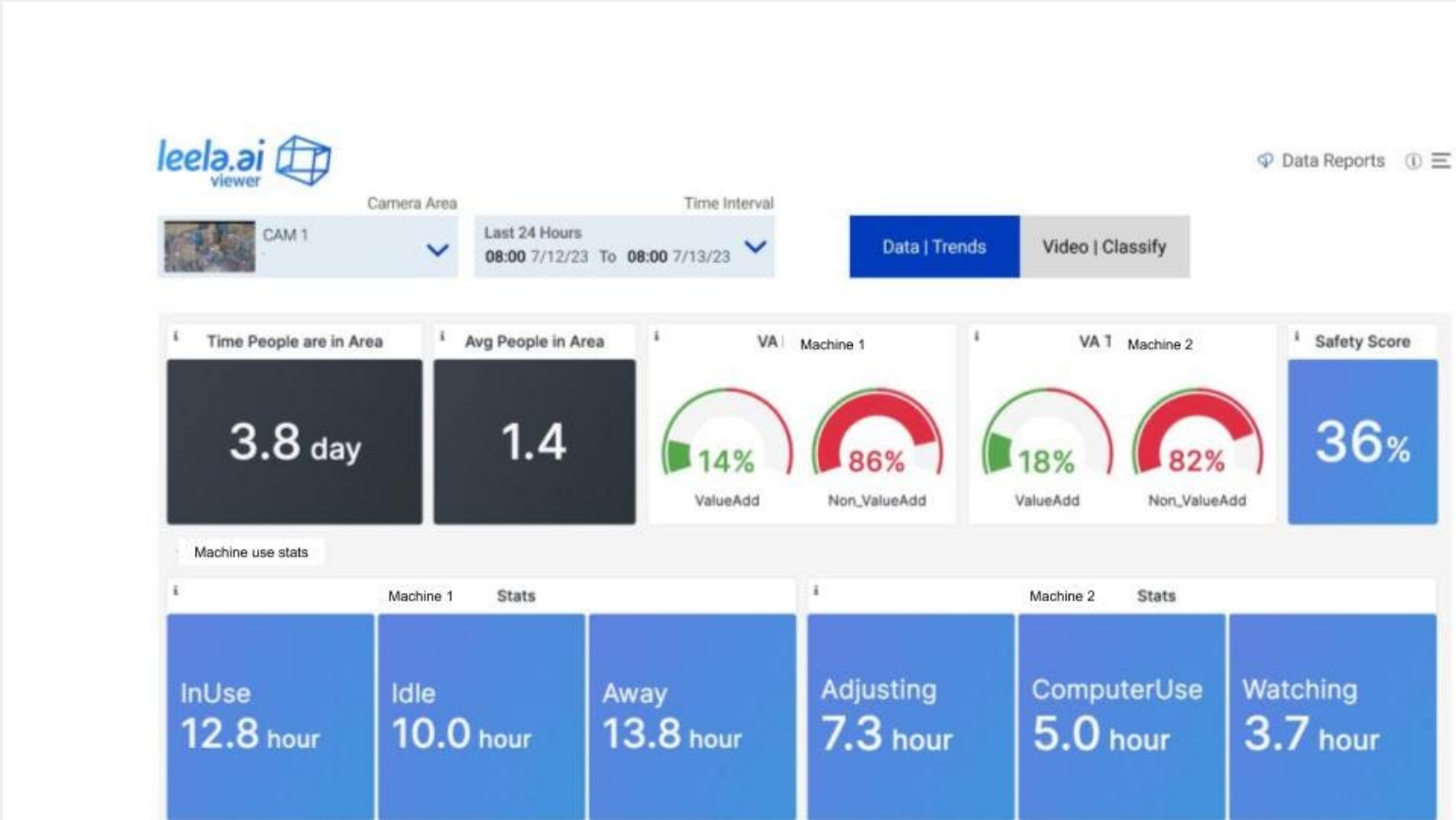


Our AI Copilot Works Together and Across Teams

Supervisors



can distribute labor and materials and monitor safety in real time

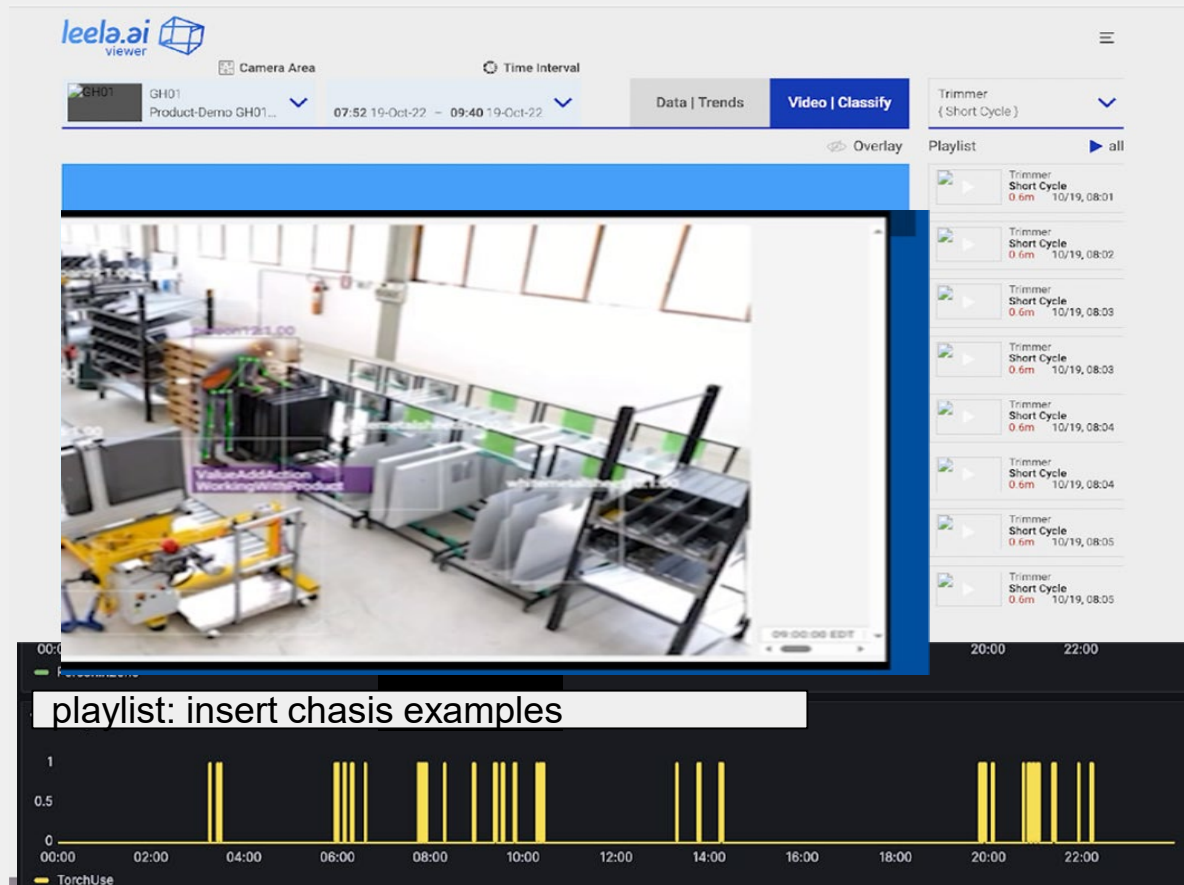


To Drive Improvements and Training with Data from Your Facility

Operators in training



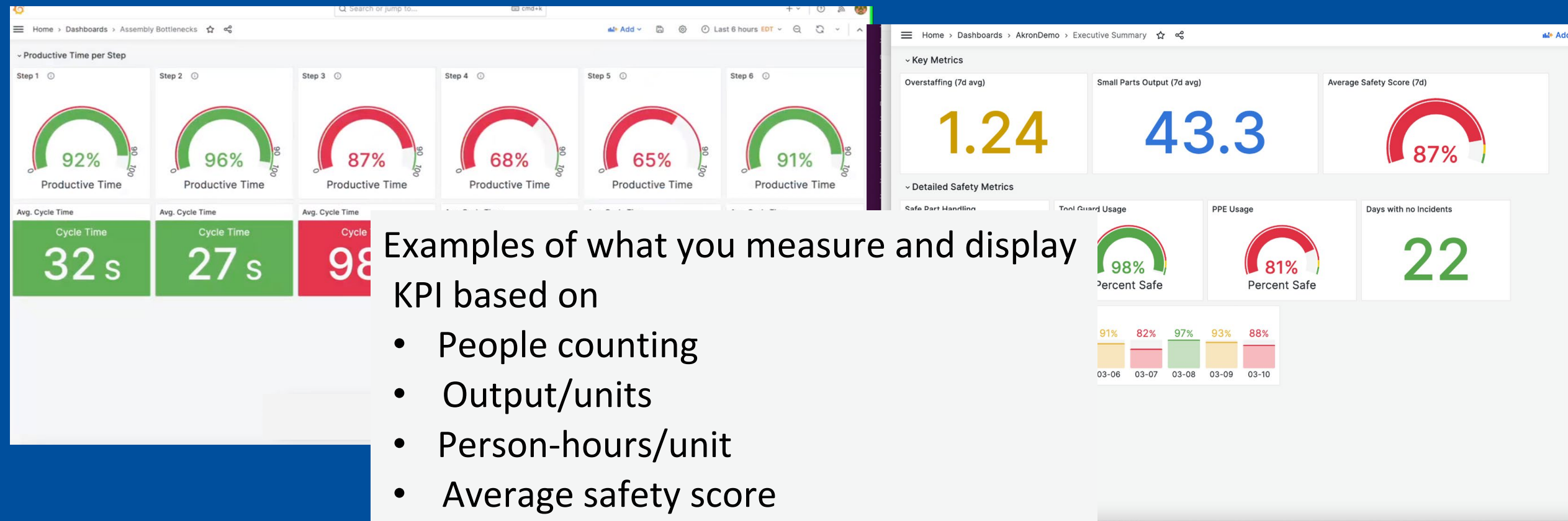
can play and
replay work
processes



‘Ctrl-F’ for video:
Examples of ‘inserting chasis’



Increase Capacity, Reduce Safety Incidents, Improve Your Processes



Examples of what you measure and display KPI based on

- People counting
- Output/units
- Person-hours/unit
- Average safety score
- Safe part handling
- Tool guard usage
- PPE usage
- Days with no incidents



Onboarded & Receiving Value Within 1 Week

*

1
day

You send in
video of the area
and activity

2
days

We ship Leela
enhanced cloud
cameras to you

1
day

You install
cameras

3
days

We configure
activity detectors
and KPI dashboard

Start receiving value in

7
days

* Typical for most environments



Visual Intelligence can

- Identify waste/provide data for continuous improvement
- Measure safety and ergonomics stats
- Improve quality by flagging missed or out-of-order steps
- Reduce friction during handoffs between robots/automation and human operators



Time for questions!

For more information about Leela AI's groundbreaking platform, please see <https://leela.ai/> or find me after this session.



Henry Minsky, CTO

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Leela is an AI Copilot for Line/Manufacturing Managers

US heavy industry
Manufacturer 1 is using
Leela AI to bring capacity
back to what it was



In a huge facility with only a few industrial engineers they are using Leela AI to augment what they can do

- * Measure cycle times, throughput, people placement
- * Across manual processes and machine/manual

Broad set of use cases

capacity improvement
staff management
industrial safety

CUSTOMER FORECAST deploying Leela AI
in this facility will increase capacity by 20%



Most problems
can't be
fixed
without
better data

Capturing assembly
data today is expensive
and intermittent



Engineers can only
gather small
amounts of data
per day



Automation
scales data
gathering
process

From one-offs to
continuous data
collection, capturing
data on operations
that change
frequently

LEELA REDUCES

industrial -engineer-person-hours
that would be required to
accurately capture data * saving

\$ 1B/yr

* Based on data from the US Bureau of Labor Statistics

