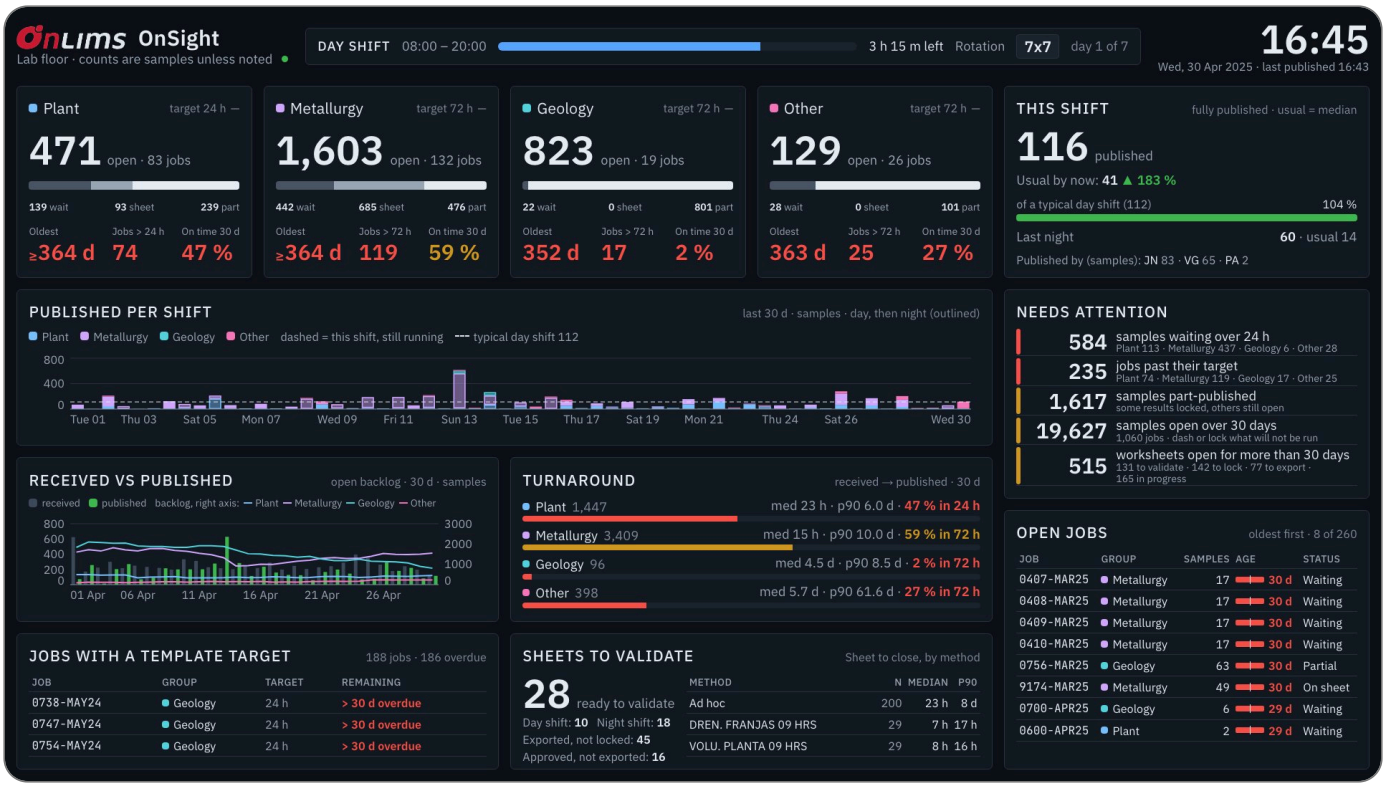
ONLINE LIMS · LABORATORY BOARD

OnSight

Your laboratory on screen, **in real time**, from the data OnLIMS already holds.



> What is running late, where and why — in plain sight for the whole lab, without building a single spreadsheet.

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The problem

The lab manager cannot see, in real time, whether the laboratory is falling behind, in which group or why.

The data is in the LIMS, but seeing it means pulling it out. Every week someone exports, merges spreadsheets and builds an Excel or Power BI report by hand. By the time the report is ready, the shift that fell behind is over.

Late

The report arrives after the problem is gone. Nobody sees it while it can still be fixed.

By hand

Hours of exporting, filtering and pasting. Everyone counts differently.

No context

A blended total does not say which client is waiting, which sample is stuck or which standard went out.

What OnSight is

A board for the laboratory's screens, built on the data OnLIMS already holds.

Read-only

It reads the OnLIMS database and writes nothing to it. Nobody has to change how they work.

Refreshes itself

Every few minutes (the interval is a setting). Nobody has to reload or export.

No login on the TV

A TV just opens a web address. Editing screens and settings takes the OnLIMS supervisor login.

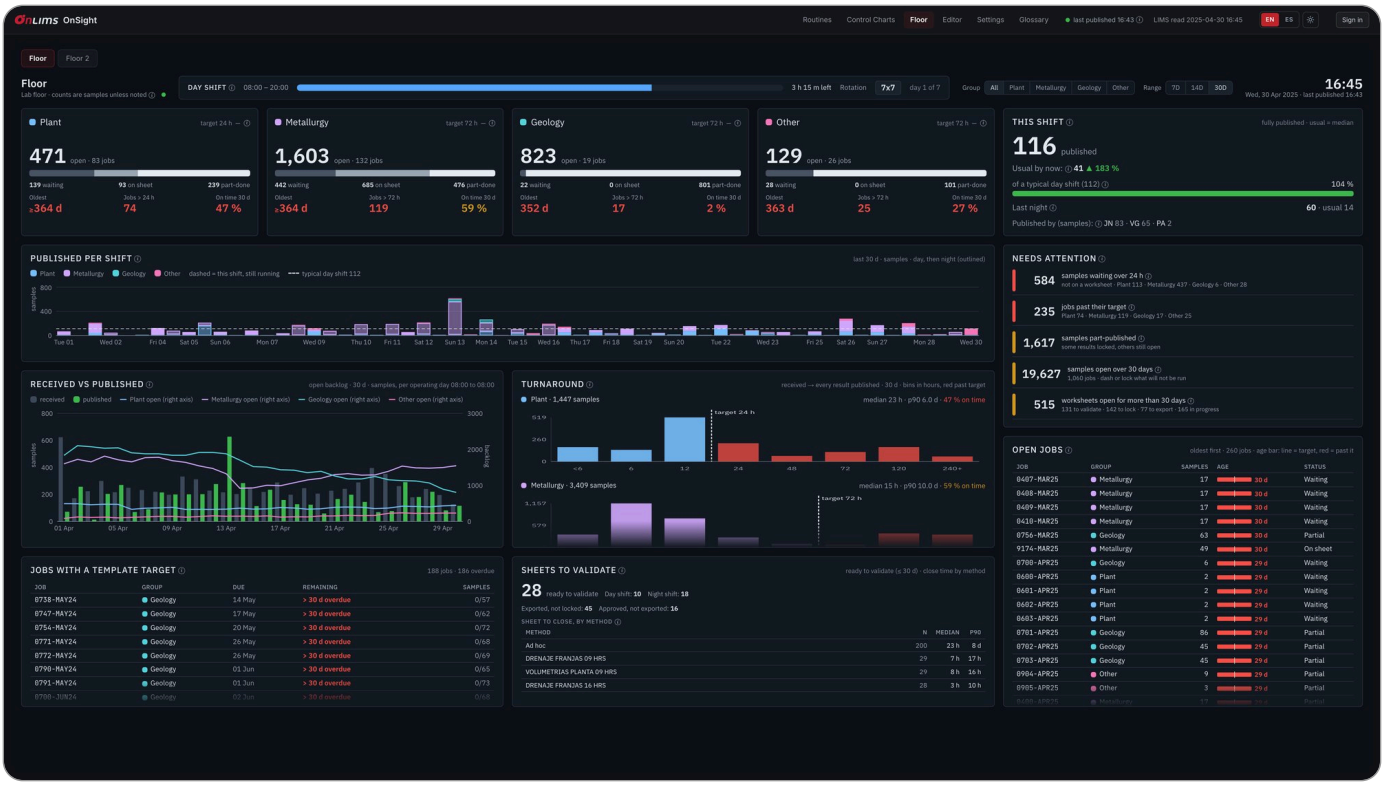
Only what is published

A sample counts as done when all its results are published in the LIMS. No half-entered values.

Control charts on the QC TV, rotating through the chosen standards.

Floor: are we falling behind?

The answer at a glance: open work per group, what this shift has published and what needs someone to act.



The Floor screen on the supervisor's monitor.

Open work per group

Plant, Metallurgy, Geology... each with its samples waiting for a worksheet, on a worksheet and part-published, the oldest one and the % on time over the last 30 days.

This shift against usual

What has been published since the shift began, against the median of the 13 previous days at the same point.

Needs attention

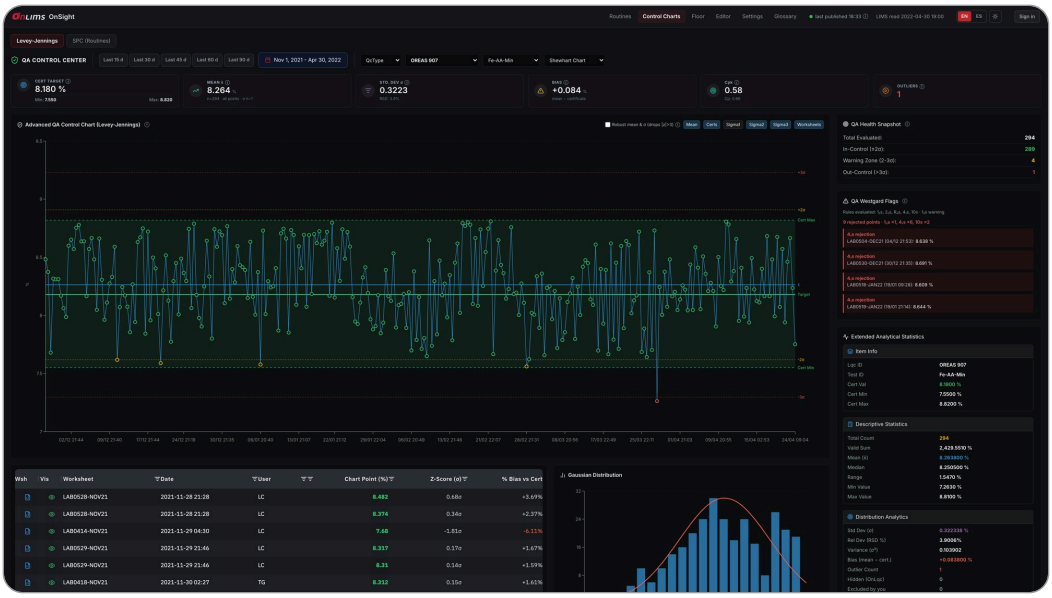
Samples waiting over 24 h, jobs past target, part-published samples, stale work and abandoned worksheets, with counts and detail.

Trends

Received against published, turnaround (median and p90) against target, published per hour and per crew.

Control charts

Levey-Jennings for standards, blanks and duplicates; SPC for the plant routines.



Levey-Jennings of a certified standard, with Westgard and statistics.

Levey-Jennings

Every published reading of the control in its test, with mean, ±1/2/3σ and the certified range. Clicking a point opens its worksheet.

Westgard

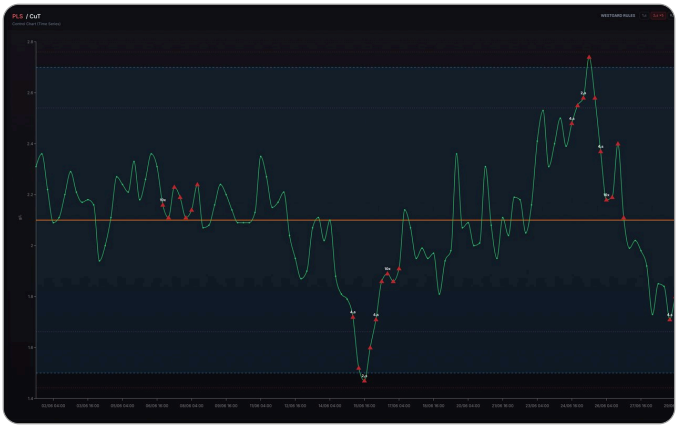
Rejection on 1_3s, 2_2s, R_4s, 4_1s and 10x; warning on 1_2s. The same rules in Levey-Jennings and SPC.

Statistics

Mean, σ, RSD, bias against the certificate, Cp and Cpk, outliers and distribution.

Routine SPC

The series of a plant point with the target and specification limits the chemist types in, Cpk and yield in spec.



SPC of a plant routine, with target and limits.

The standards mosaic: every control at a glance.

Routines

How the plant is running: four slots per screen, one routine and one test in each.

The Routines screen.

Last value

The latest result, with its time, at the top of each slot.

Last samples

A table of the most recent published samples.

Trend

The series over the chosen date range.

Histogram

The distribution of the values next to the trend.

Many screens, many people

Each TV shows its own screen. Each supervisor can have their own.

Each TV, its screen

Floor in the lab, control charts in QC, routines in the plant office. Each one is just a web address.

Rotation

A TV can move from one screen to the next every N seconds. The screens and the seconds are chosen in the editor.

Lab screens and personal screens

Laboratory screens for everyone and personal screens for each supervisor.

Desktop and TV

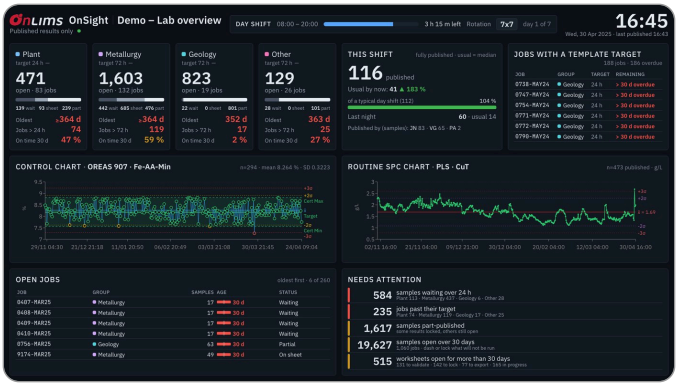
The same screen on the supervisor's monitor or full-screen on the TV, at 1080p or 4K.

English and Spanish

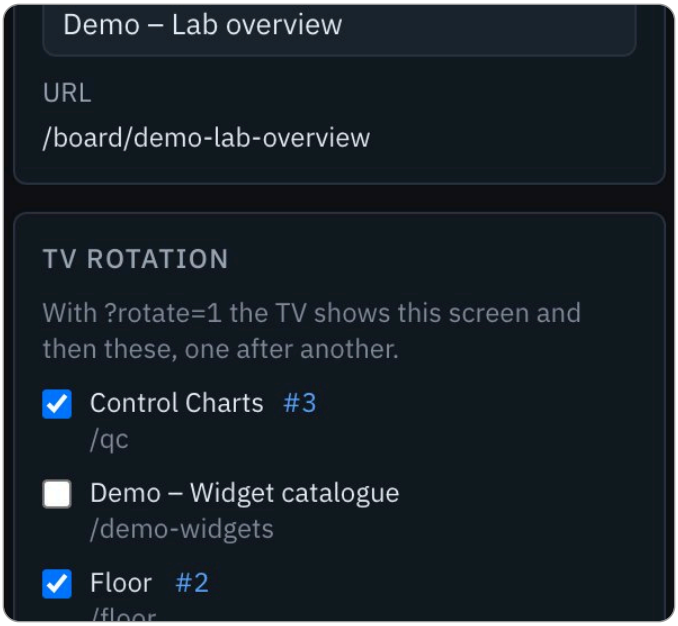
A language per site, and each screen or link can ask for the other.

No per-user licence

OnSight sets no limit on screens or viewers: anyone on the lab network sees it in a browser. The server computes once per interval and shares the result with every screen.



A screen of the lab's own, built in the editor, on the TV.

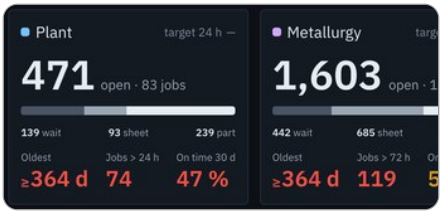


Rotation: which screens and how many seconds each.

28 widgets included: ready-made reports

Each widget is a report the laboratory no longer has to build. They combine freely in the editor, in three widths: **S** (a quarter), **M** (half) and **L** (full width).

FLOOR · 23 WIDGETS



Open work by group

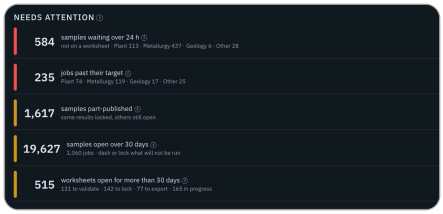
One tile per group: open, waiting, on a worksheet, part-published, the oldest, jobs past target and % on time.

S · M · L

This shift

What the running shift has published, against usual by now, the typical shift and last night.

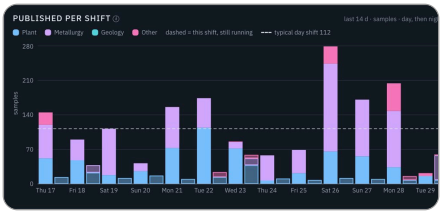
S · M



Needs attention

The exceptions that need someone to act, with how many and in which group.

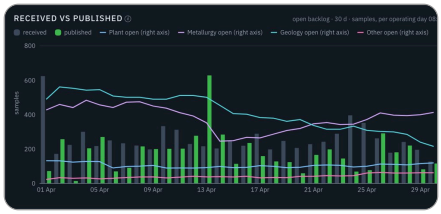
S · M · L



Published per shift

Samples published in each day and night shift of the last days, per group.

M · L



Received vs published

Per day: how many arrived and how many left. If more arrive than leave, the queue grows.

M · L

Turnaround

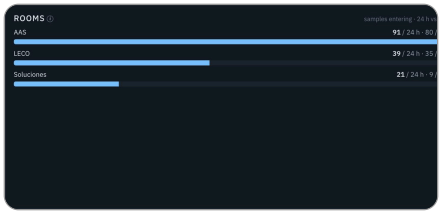
Median and p90 from arrival to publication, per group, with % on time and the target.

M · L

Open jobs

The jobs with open samples, oldest first, with their age against the target.

M · L



Rooms

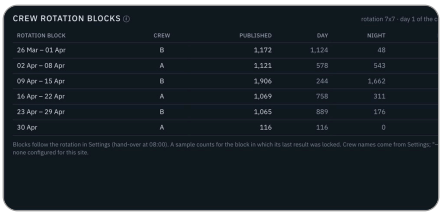
How many samples entered each room in 24 h, against the 7-day average.

S · M

Published by hour

At what hour and on what weekday work is published: a heat map of the last 4 weeks.

M · L



Crew rotation blocks

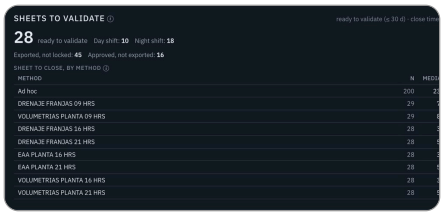
What each crew published in each block of its rotation, day and night.

M · L

Jobs with a template target

Jobs that carry their own target from the OnLIMS template, with the time left or how far overdue.

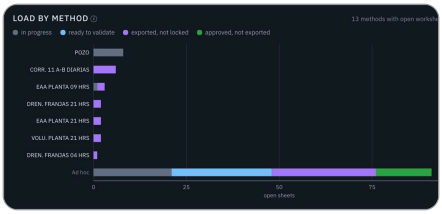
S · M



Sheets to validate

Complete worksheets waiting for the supervisor's sign-off, the ones exported without a lock or approved and not exported, and how long each method takes to close.

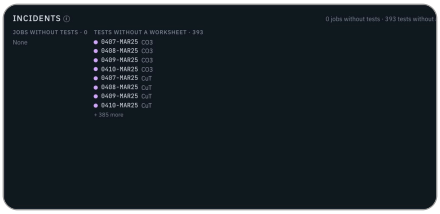
S · M



Load by method

How many worksheets are open per method, in progress, ready to validate or approved: where the bottleneck is.

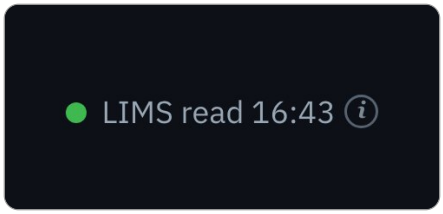
S · M · L



Incidents

Work that never started and the LIMS does not flag: jobs without tests and tests that never reached a worksheet.

S · M



LIMS pulse

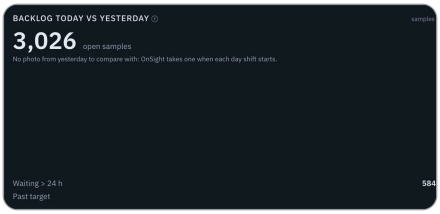
Green while results are being published; amber and red after a time without publications (60 and 180 min, adjustable).

S

Received in the last 24 h

What arrived since this time yesterday and is not published yet, per job: client, reference, tests and samples still open.

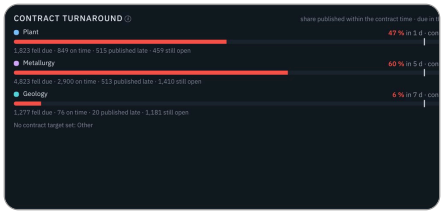
S · M · L



Backlog today vs yesterday

How many samples are open now against yesterday's snapshot, plus those waiting over 24 h and the jobs past target.

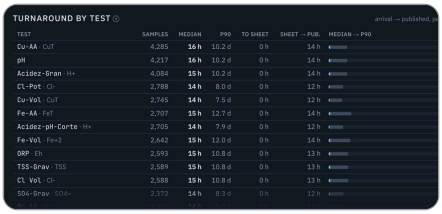
S · M



Contract turnaround

The share of each group's samples published within its contract time, against the share the contract asks for (for example 90 % in 5 days).

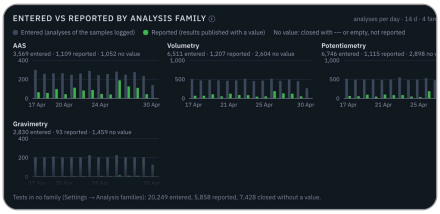
S · M · L



Turnaround by test

How long each test takes from the sample's arrival to its publication.

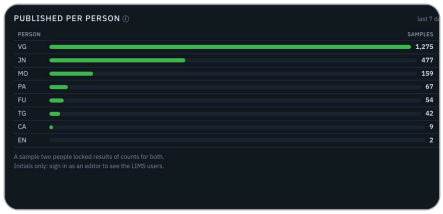
S · M · L



Entered vs reported by family

Per analysis family (atomic absorption, volumetry, potentiometry…): analyses in and analyses reported each day. It counts analyses, not samples.

M · L



Published per person

Samples and results each LIMS user published in the last 24 h, 7 or 30 days. Shown on a monitor only: on a TV it is a one-line note.

S · M

Sheets open too long

Per method, how long its oldest worksheet has been open, in red past the site's limit, and how many sheets are past it.

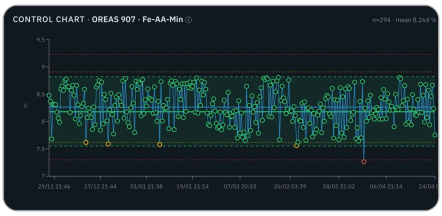
S · M

Load vs capacity

Bench work each area still has to do, against how many samples it can handle in one shift.

S · M · L

CONTROL CHARTS · 4 WIDGETS



Control chart

The Levey-Jennings of a standard, blank or duplicate in one test, with its certificate and ±σ.

M · L

Standards mosaic

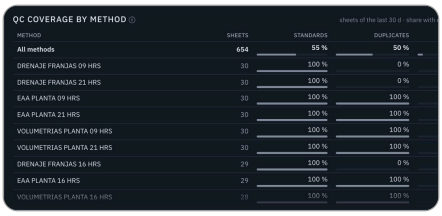
One box per control and test of the last days, with its last reading and a colour by its distance from the mean.

M · L

Routine SPC chart

The series of a routine in one test, with mean and ±σ.

M · L



QC coverage by method

Per method, the share of worksheets that carried a standard, a duplicate and a blank. It describes the lab's practice and does not grade it.

S · M · L

ROUTINES · 1 WIDGET

Routine + test

Last value, last samples, trend and histogram of a routine in one test.

M · L

The editor: screens without programming

The supervisor builds a screen by picking widgets from a catalogue and dragging them into place. No code, no ticket to IT.

The editor: catalogue on the left, the screen in the middle, the chosen widget and the rotation on the right.

Drag and drop

Add a widget with one click and order it by dragging. The grid arranges itself.

Three widths

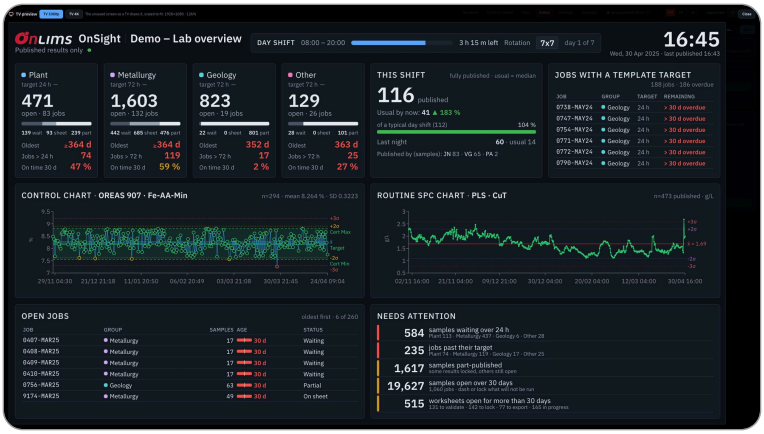
Each widget in S, M or L, as far as it allows. Its parameters (group, days, control, routine) are set in the side panel.

TV preview

Before saving, the screen as a 1080p or 4K TV draws it. The editor says whether everything fits on the TV.

For the lab or for one person

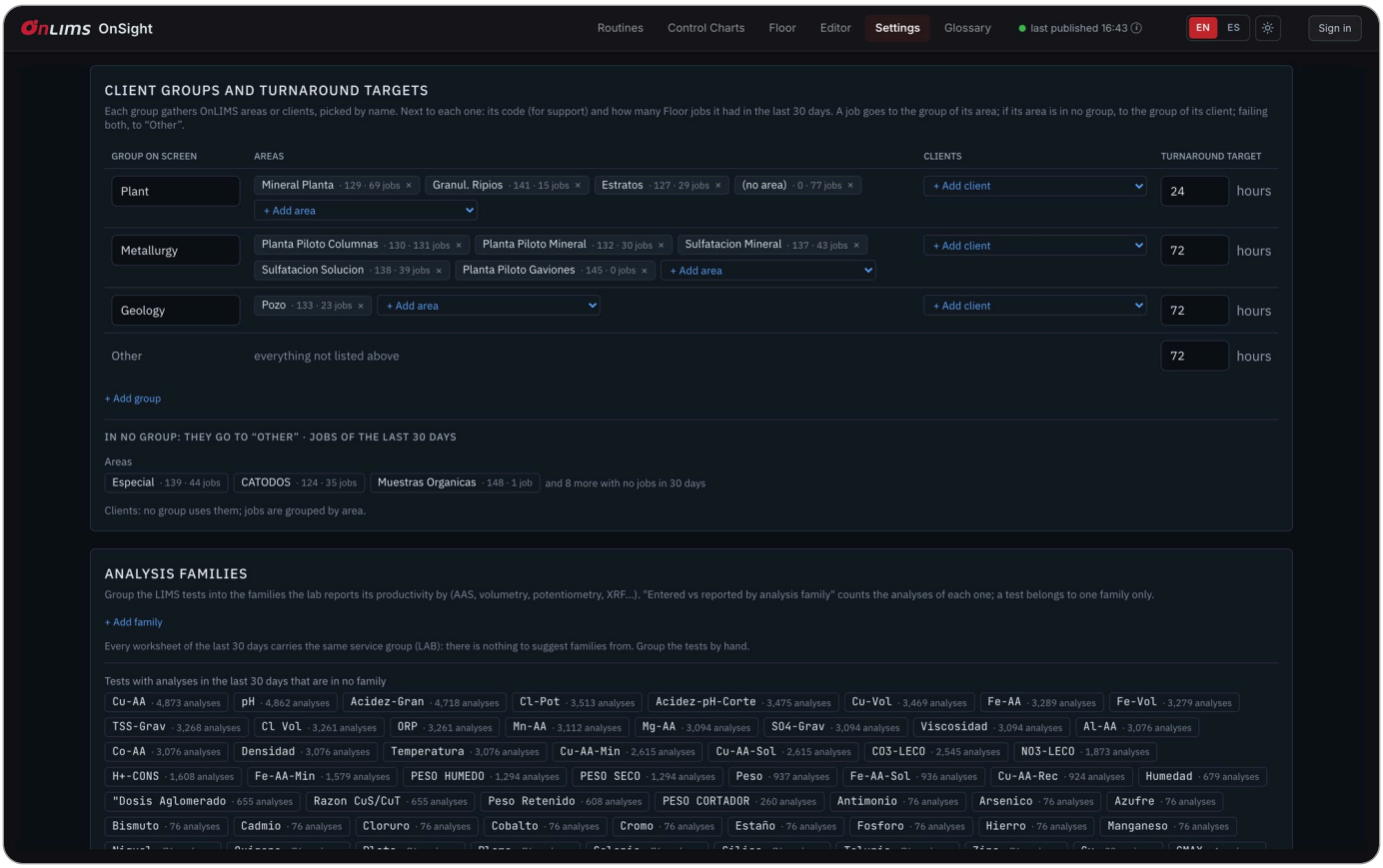
Save it as a laboratory screen or a personal one, and put a factory screen back as shipped.



TV preview of the unsaved screen.

Configured for each laboratory

What changes from one laboratory to the next is configuration, not programming.



Settings: client groups and targets, with the areas picked by their OnLIMS name.

Groups and targets

The OnLIMS areas or clients that make up each group, picked by name, and each group's turnaround target.

Shifts and crews

Day and night shift hours, the rotation (4×3, 7×7, 14×14) and crew names.

Standards on screen

Which controls the control-charts TV rotates through.

Language and density

English or Spanish by default, and a dense mode that shows more on the TV.

LIMS light

The minutes without publications that turn it amber and red.

Refresh

How many minutes between screen updates.

Trust in the numbers

Every figure says what it counts, where it comes from and what it leaves out.

Only published results count

An unpublished result does not appear. A sample is done when all its results are published; its time is that of the last one.

OnLIMS statistics

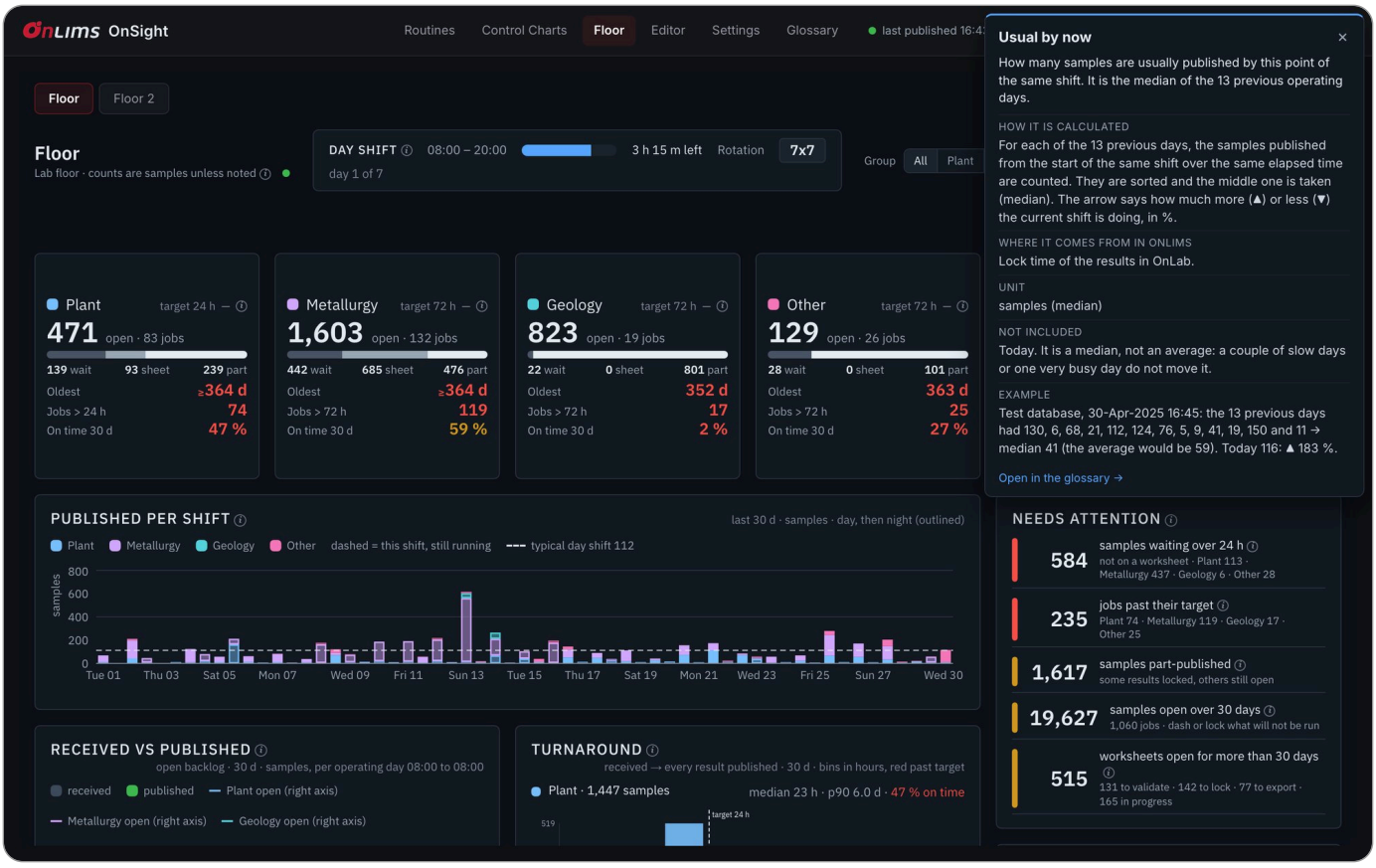
Control-chart mean and σ computed as OnLIMS quality control does (OnLqc). Automatic outlier removal ships switched off.

Glossary in the app

Every widget has an "i" button with its definition: what it is, how it is calculated, where it comes from in OnLIMS, unit, what it leaves out and an example. 73 definitions, with a screen of their own.

Units, always

Every number says its unit and whether it is an average or a median.



The "i" panel: the definition of "Usual by now", opened from the screen.

Safe and light for IT

It installs on a laboratory server, reads the OnLIMS database and touches nothing else.

Two safeguards against writes

A read-only SQL account and, on top of it, a filter inside OnSight that refuses any query that is not a read.

Signed installer

One file, digitally signed by Online LIMS Canada Ltd. It runs as a Windows service under its own service account.

Optional encryption

HTTPS for the screens and an encrypted (TLS) connection to SQL Server, if the laboratory wants them.

No Internet, nothing else touched

It does not need the Internet. It does not change OnLIMS or install anything on the analysts' PCs.

Requirement	Detail
Server	Windows x64 on the laboratory network; it can be the OnLIMS server
Database	A read-only SQL account on the OnLIMS database (the script is provided)
Network	A free port on the server (8080 by default), reachable from the TVs and PCs
Screens	A TV with a Chrome 80 or later based browser, or a mini PC with Chrome or Edge
Editing	An OnLIMS supervisor user, the one already in use

Implementation

A short installation and a start-up done together with the laboratory.

What we ask of the laboratory

A Windows server, the read-only SQL account, an open port on the internal network and a TV (or mini PC) for the lab.

What we do

We install OnSight, set up the groups, targets, shifts and standards on screen together with the laboratory, and train the supervisors.

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>
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