Work smarter.

CEMENT QUALITY

CEMENT QUALITY

LDMS

Laboratory Data Management System

PSCL

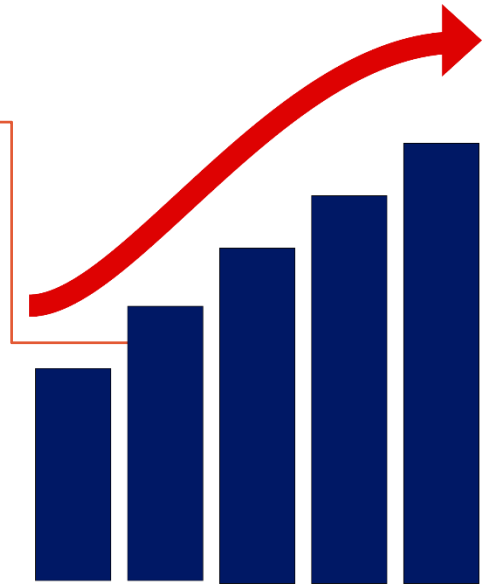
Work smarter:

With over 60 installations LDMS is a world leader in laboratory information systems for the cement & bulk construction materials industries.

What does LDMS bring to your operation?

Continuous Quality Improvement

Through enhanced testing and a direct link to process control the quality of your output is assured.



Insurance

Certificates produced by LDMS can be instantly audited to verify:

- Testing Procedures,
- Instrument Calibration
- Personnel Qualifications

Helps with Sarbanes-Oxley compliance.

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LDMS delivers on your journey towards Industry 4.0 and digitalization

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Laboratory Data Management System

LDMS becomes the Hub of your Lab

LAB

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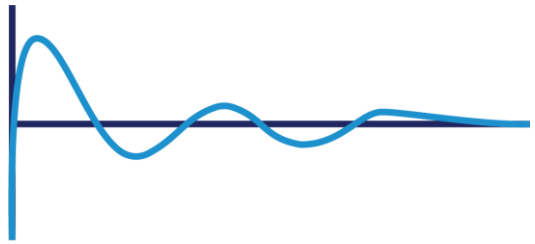
Laboratory
Data
Management
System



PROCESS

PEOPLE

ACCREDITATION

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How does LDMS bring value to your operation?

LDMS maximizes your lab's value by turning raw data into actionable knowledge.

1. Data Management
2. People Management
3. Security / Integrity

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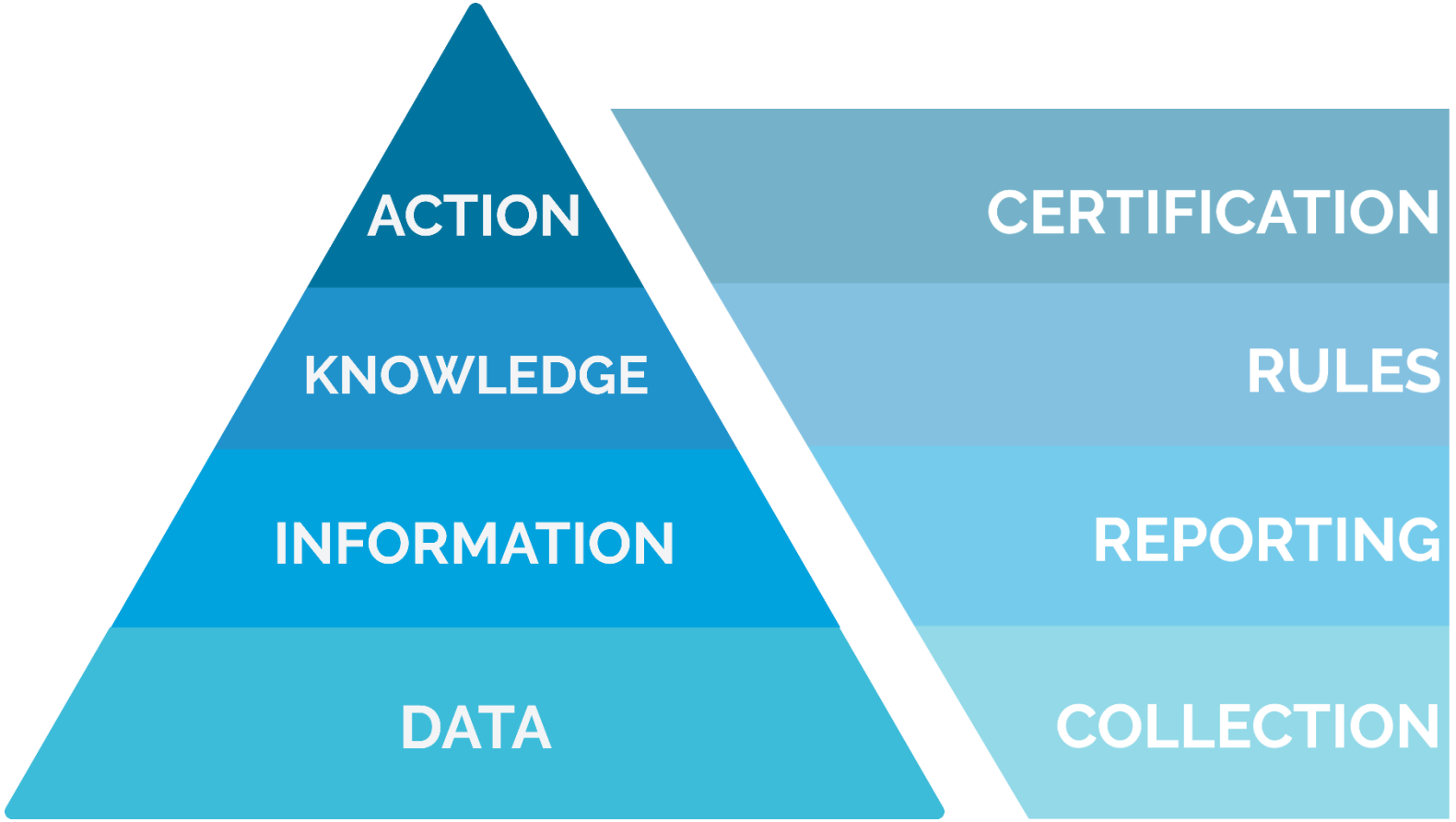
Data Management

LDMS Data Management

LDMS turns raw data into actionable knowledge



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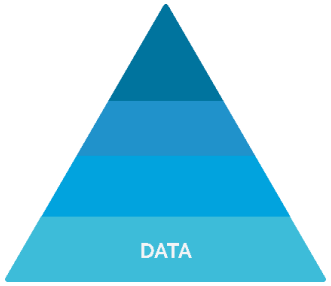
Data Management

The LDMS difference starts with getting data into the system



Manual Input

1

Range Checking

Reduce manual entry errors with range checking

2

Real Time Results

Calculations are updated in real time upon user entry

3

User Certifications

Only qualified staff can enter data

4

Instrument Calibration

Only properly calibrated instruments can be used

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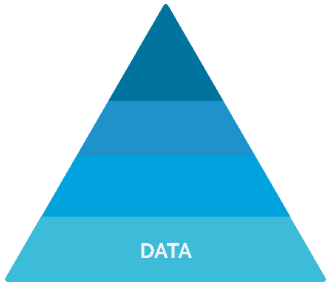
Data Management

The LDMS difference starts with getting data into the system



Automated Input

1

Multi-Value Instruments

XRF, XRD, PSD use multi-value analysis that's attached automatically to the sample

2

Single Value Instruments

Calculations are updated in real time upon user entry

3

Process Data

Only qualified staff can enter data

4

Microscopy Image Analysis

Helps turn you chemists knowledge into repeatable results.

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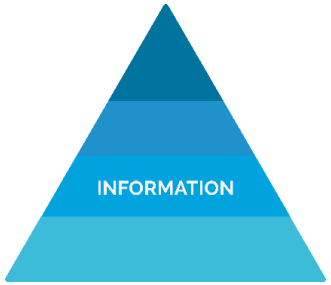
Data Management

LDMS lets you see your data where and when you need it



Reporting

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Automated Email of Reports

Familiar Excel tools for in-depth analysis

Configurable to Report ‘Raw’ or ‘Published’ Results

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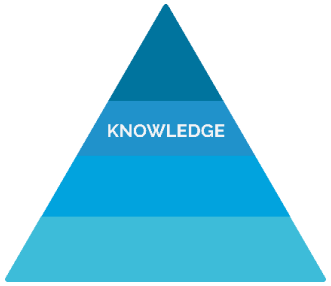
Data Management

LDMS helps you understand your data



Calculations

1

Calculations are part of Configuration

Assurance that results are achieved the same way every time

2

Real Time Calculations

You can see your result immediately and will know if there are any range violations immediately

3

Auditing

Know how you obtained every result

4

Modular Calculation Capability

LDMS is always building for the future

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Data Management

LDMS helps you understand your data

KNOWLEDGE

Control Chart (SQC/SPC)

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Control Charts can show clearly when the process is out of control and when action needs to be taken

The CC (Control Chart) Monitor program runs in the background. It continuously checks for rule violations. Once these violations are detected the end users are alerted to this event.

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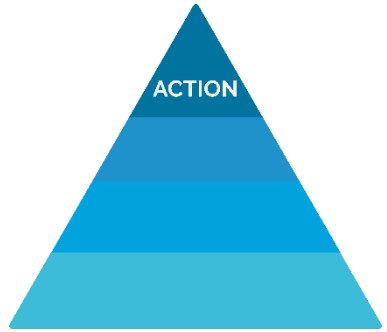
Data Management

LDMS Data Management - Action



PROCESS

Results are written directly and without delay to the control system historian or PLC allowing for control algorithm integration for **immediate quality improvement**

CERTIFICATES

Certificates produced by LDMS can be instantly audited to verify:

- **Testing Procedures,**
- **Instrument Calibration**
- **Personnel Qualifications**

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People Management

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LDMS allows you to manage the different roles and responsibilities within your lab

- Shift Analyst
- Control Room Operator
- Physical Lab Analyst
- Central / Chemical analyst
- Lab / Quality Manager
- Process Engineer
- Quality / Production Manager
- Corporate User / Manager

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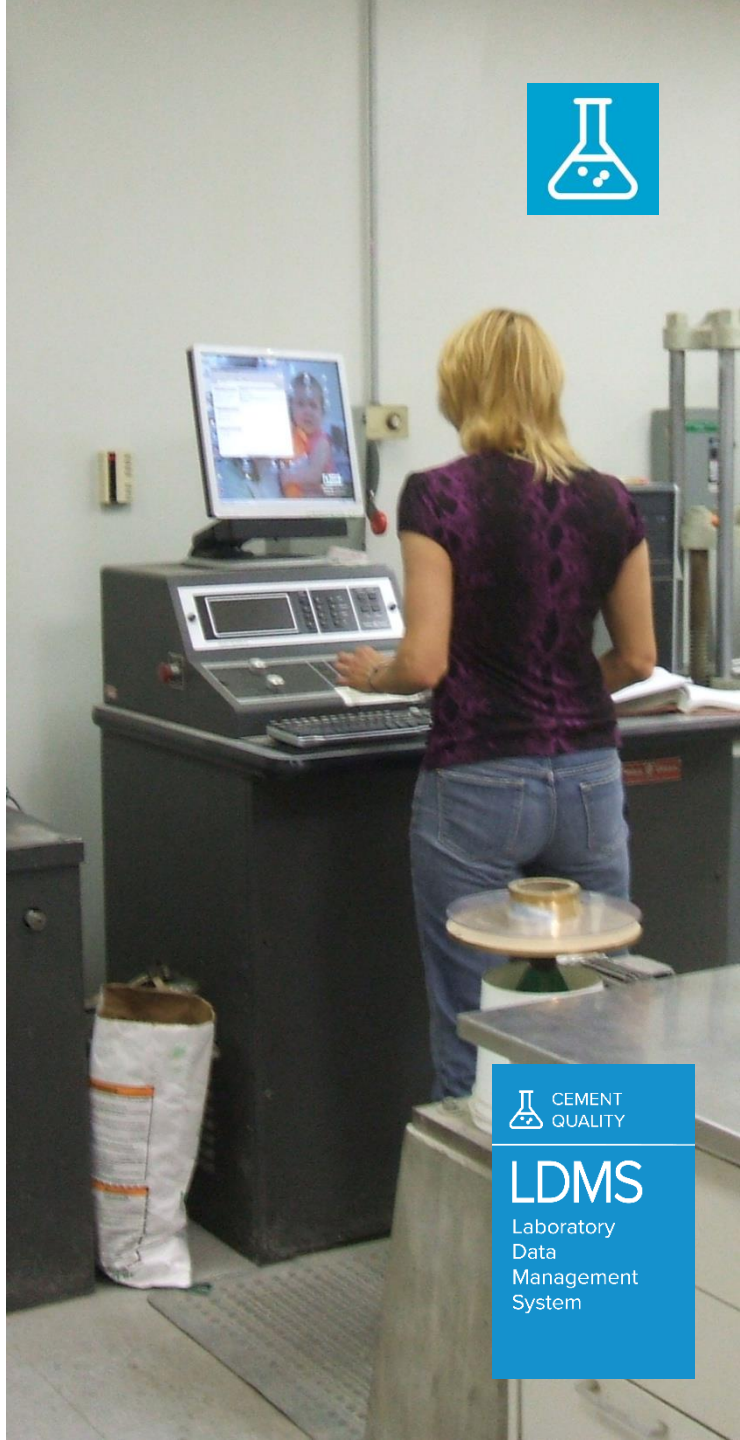
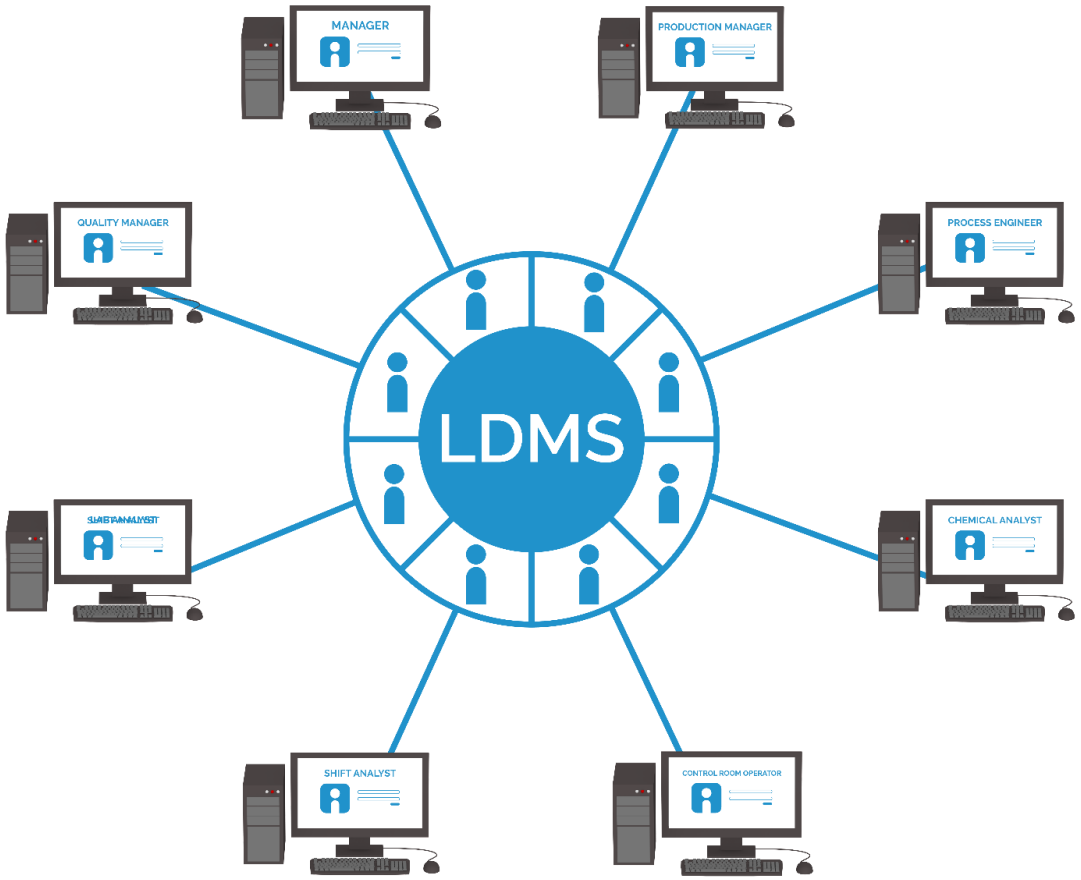


People Management



When they log in, users will see a unique interface based on what is required to do their job.

LDMS allows you to manage the different roles and responsibilities within your lab

LDMS puts the right tools in front of users based on their role in your organization

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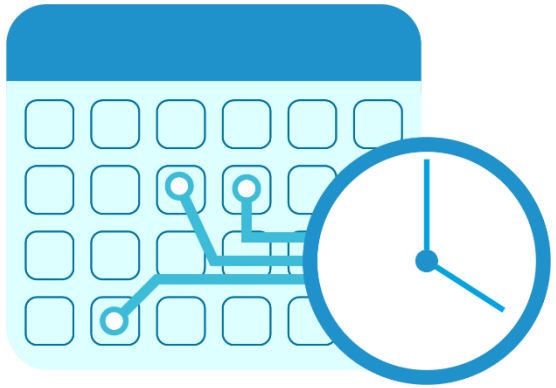
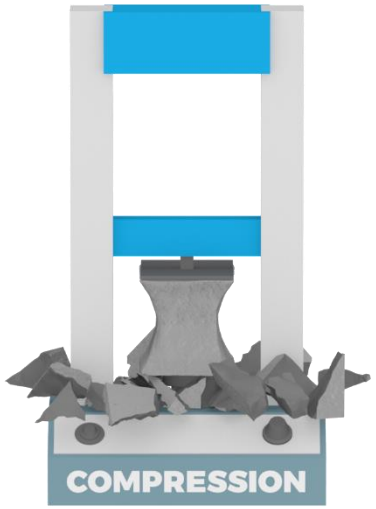
People Management

LDMS scheduling endures that your staff know what tests to do and when

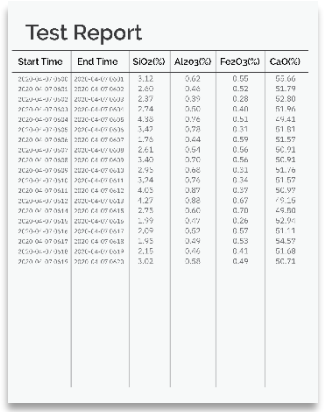
- Prevent missed tests.
- Enjoy the ease of multi-task management



Sample Schedules Based on Shift



Break Schedules



Report Schedules

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People Management

LDMS helps your people reduce errors

Range Violations and Alarms

User is immediately notified of range violations

Helps your people reduce errors.

Ranges can be configured to require confirmation from supervisors

Problems are immediately escalated to a level where they can be dealt with.

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LDMS provides field proven Data Integrity
...because you never need it until you need it

DATA AUDIT

- ✓ Every entry is has an audit trail
- ✓ Out-of-range or re-test can require user comment
- ✓ Complete sample tracking history

DATA SECURITY

- ✓ Data entry controlled by authorisation and user capability
- ✓ Out-of-range entries requiring supervisor or second-user verification
- ✓ Physical key login allows multi-station use.
- ✓ Published results are locked from overwrite

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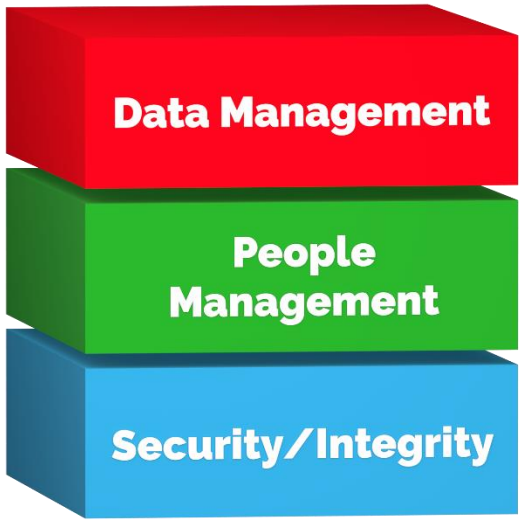
LDMS brings value to your operation with its unique blend of **Data Management, People Management & Security**



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LDMS Enterprise Functionality

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