

# ARE YOU AUDIT READY?

Here's what you'll need to know...

[thermoscientific.com/RestAssured](http://thermoscientific.com/RestAssured)

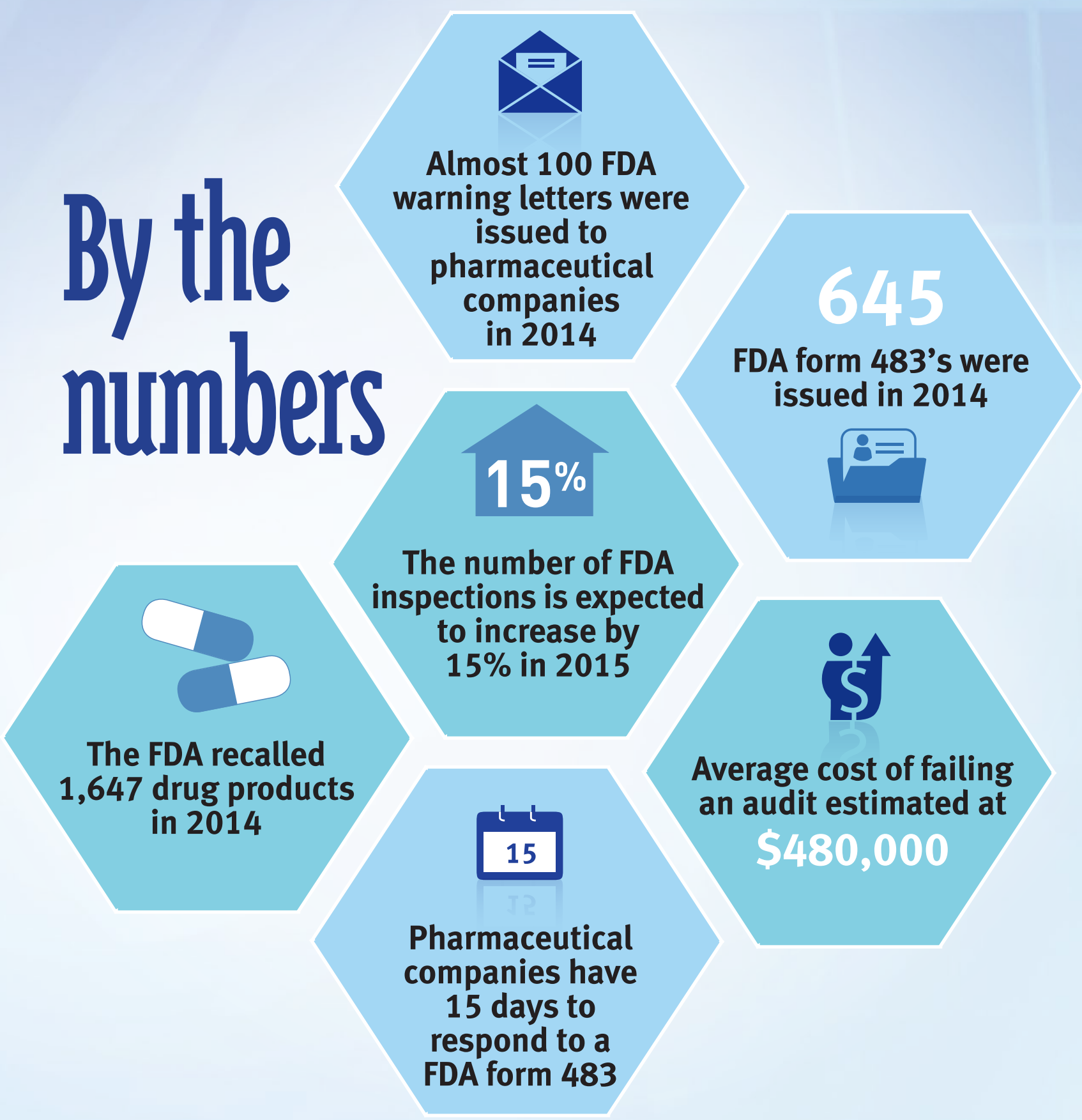
## State of the Industry



### FDA AUDITORS CITE #1 OBSERVATION DURING ONSITE VISITS

Responsibilities and procedures applicable to Quality Control are not being documented or followed correctly.

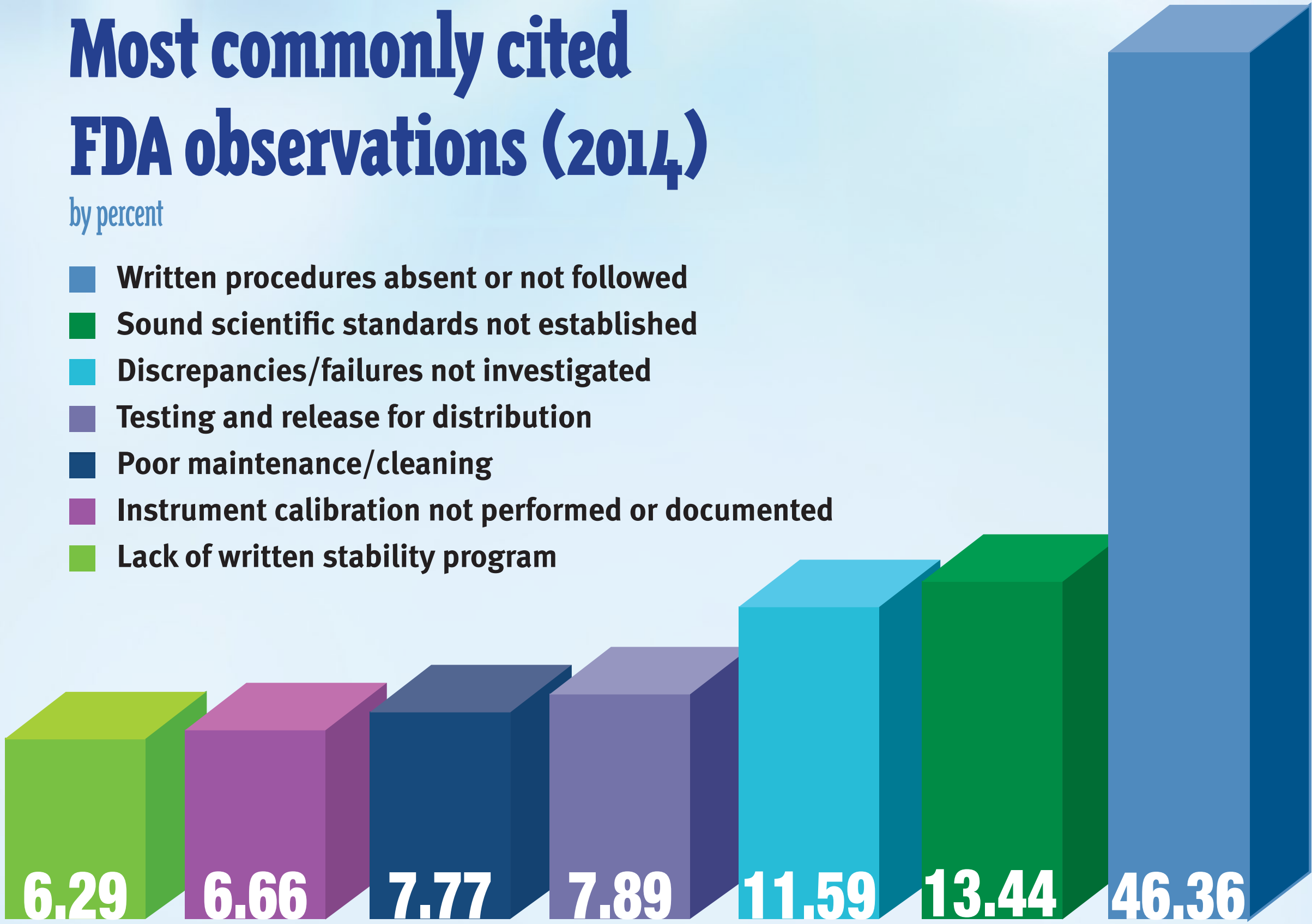
### By the numbers



### Most commonly cited FDA observations (2014)

by percent

- Written procedures absent or not followed
- Sound scientific standards not established
- Discrepancies/failures not investigated
- Testing and release for distribution
- Poor maintenance/cleaning
- Instrument calibration not performed or documented
- Lack of written stability program



## Customer Challenges

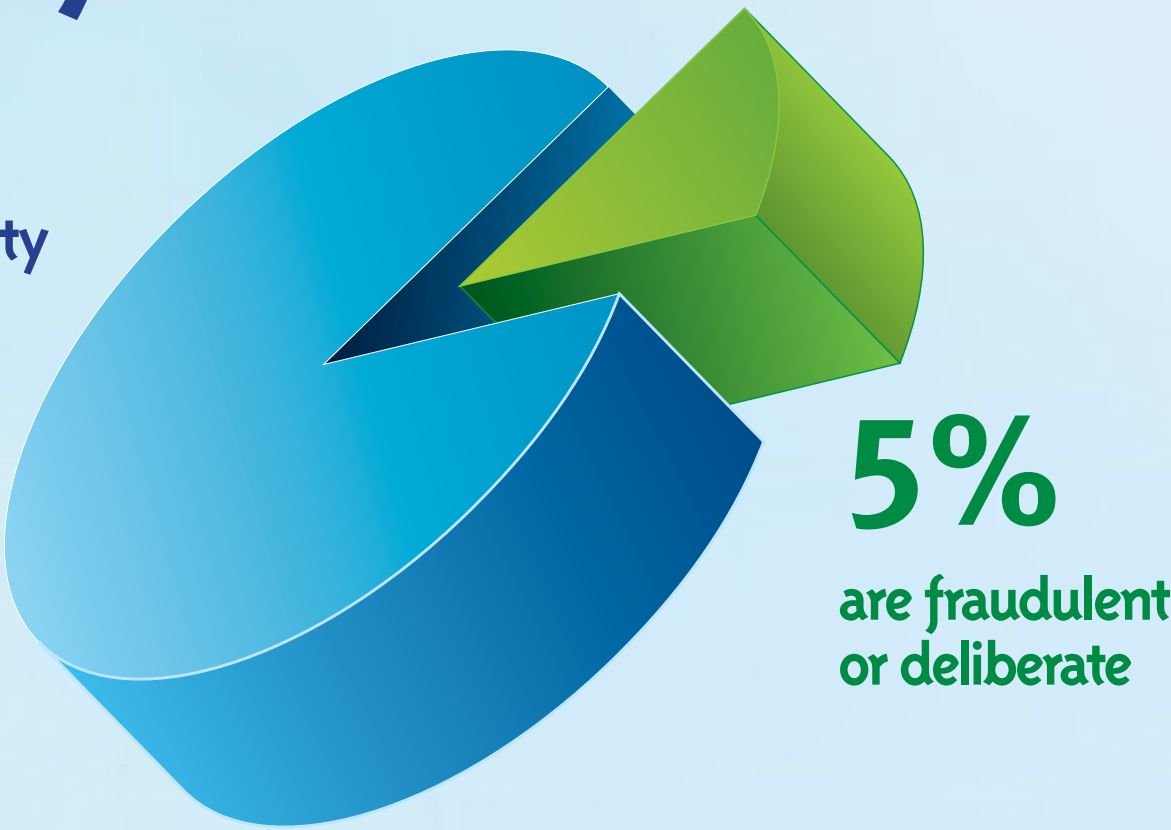
### DATA INTEGRITY

"The accuracy, consistency and completeness of data over its entire lifecycle in accordance with regulations"

### Reasons for data integrity issues

95%

of data integrity issues are due to poor data management practice

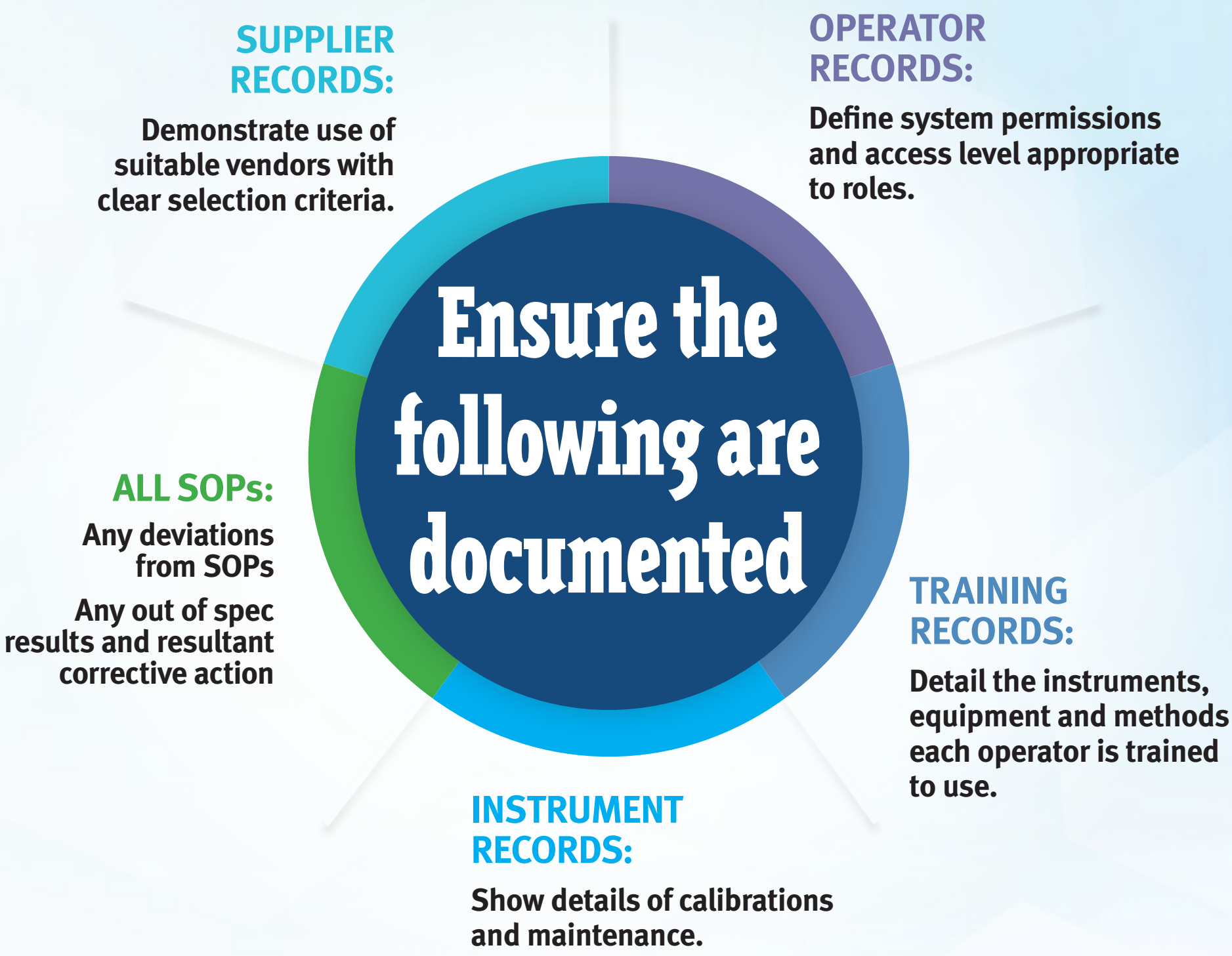


### 5 Added costs of receiving a warning letter



- DECREASED EFFICIENCY
- DAMAGE TO REPUTATION
- LOSS OF BUSINESS
- COMPETITOR LEVERAGE
- STOCKHOLDER CONFIDENCE

## Compliance Solutions

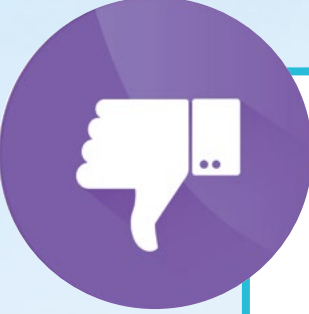


### Use ALCOA+ Criteria for Data Integrity



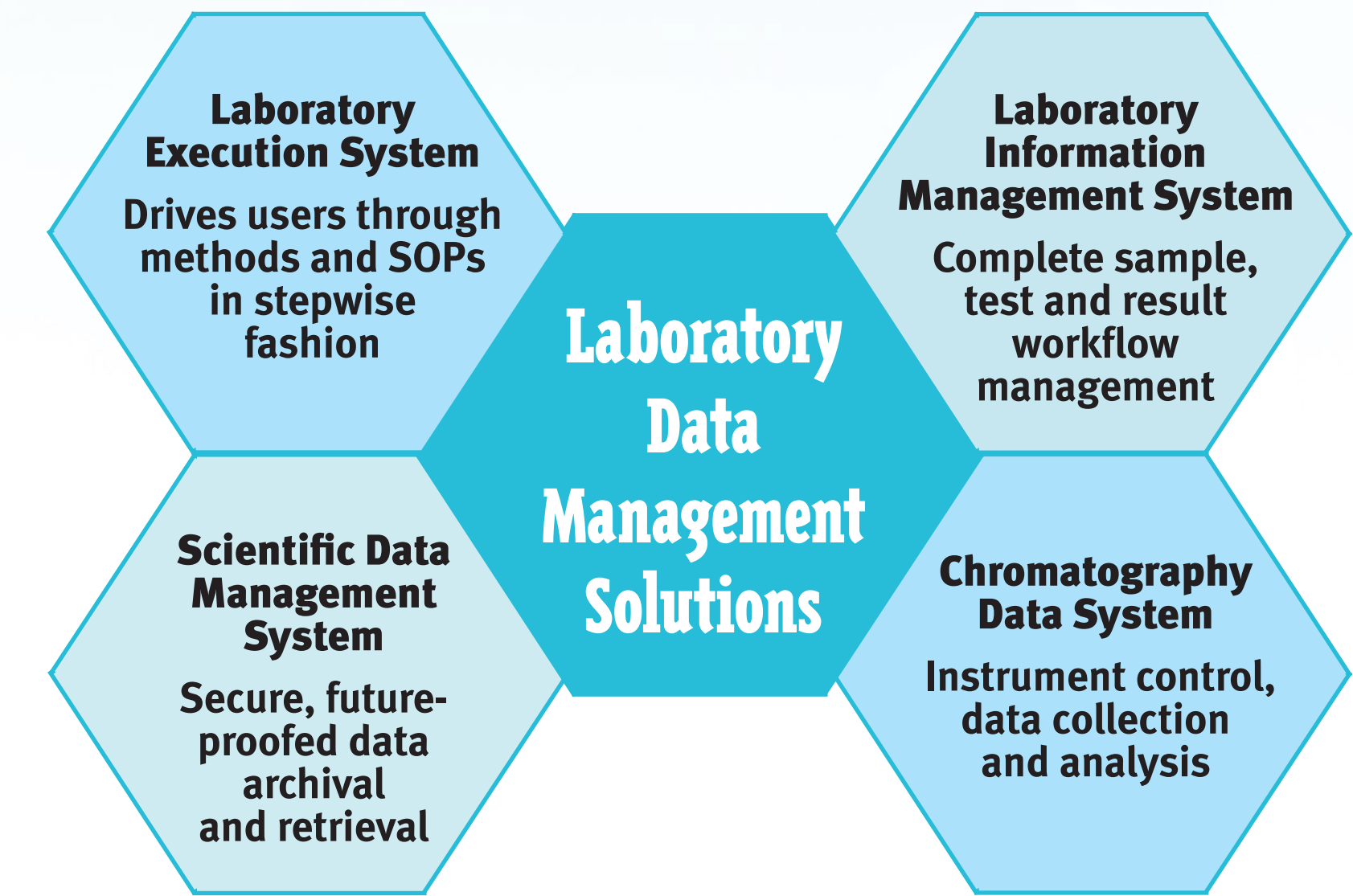
### Audit Do's

- Ensure data is backed up on a secure, centralized server
- Keep metadata to ensure completeness
- Integrate instruments and systems to avoid transcription errors
- Keep access levels to minimum required for role



### Audit Don'ts

- Share user identities
- Use test samples for System Suitability Tests



### 4 Types of Data Must be Managed

- Audit trail
- Visual observations
- Raw data from instrument or equipment
- Associated contextual metadata (column used, temperature, operator, time and date, reagent used, etc.)

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