

NIST

Global Standards Information



Conformity Assessment Basics

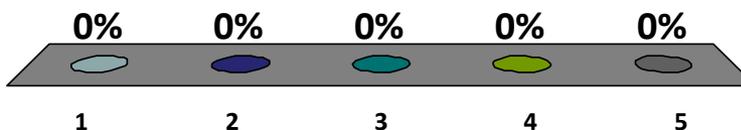
Today's Discussion

- Terminology
- Types of conformity assessment
- How it works
- Examples

POLLING QUESTION:

What do you think of when you hear the term “conformity assessment”?

1. Testing
2. Certification
3. Inspection
4. Lunch
5. All of the above



Conformity Assessment

“demonstration that specified requirements relating to a product, process, system, person, or body are fulfilled”

- *ISO/IEC 17000*



The Parties – who done it?

1st Party
2nd Party
3rd Party

First Party – seller or manufacturer

Second Party – purchaser or user

Third Party – independent entity

Government

1st Party

2nd Party

3rd Party

Types of Conformity Assessment

- Supplier's Declaration of Conformity (SDoC)
- Inspection
- Testing
- Certification
- Registration
- Accreditation

1st Party

2nd Party

3rd Party

Supplier's Declaration of Conformity (SDoC)

Characteristics

Examples

- Used when low product risk
- Penalties for noncompliant products
- Effective recall system



- ISO/IEC 17050

Blast Resistant Trash Receptacle Testing



1st Party
2nd Party
3rd Party

Testing

Characteristics

Examples

- Measures Characteristics
- Representative samples are often used
- May be element of SDoC or certification system

- *ISO/IEC 17025*





Inspection

1st Party
2nd Party
3rd Party

Characteristics

- Simple test measurement or examination
- Code compliance

Examples



- *ISO/IEC 17020*



1st Party

2nd Party

3rd Party

Certification

Characteristics

- Used when moderate – high product risk
- More expensive
- Surveillance

Examples



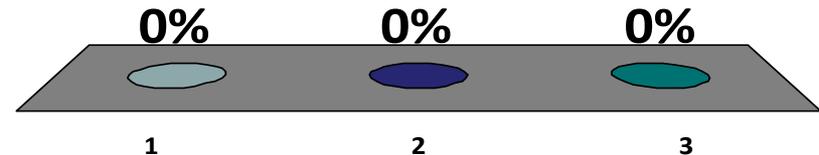
- ISO/IEC GUIDE 65

POLLING QUESTION:

What does this Mark stand for?



- 1. National Science Foundation
- 2. National Sleep Foundation
- ✓ 3. National Sanitation Foundation



POLLING QUESTION:

This certification activity is conducted at potato farms.



1. True 0%

✓ 2. False 0%



1st Party
2nd Party
3rd Party

Management System Registration

Characteristics

- Process requirements
- Scope matters: can be general or specific

Examples



- ISO/IEC 17021

1st Party

2nd Party

3rd Party

Accreditation

Characteristics

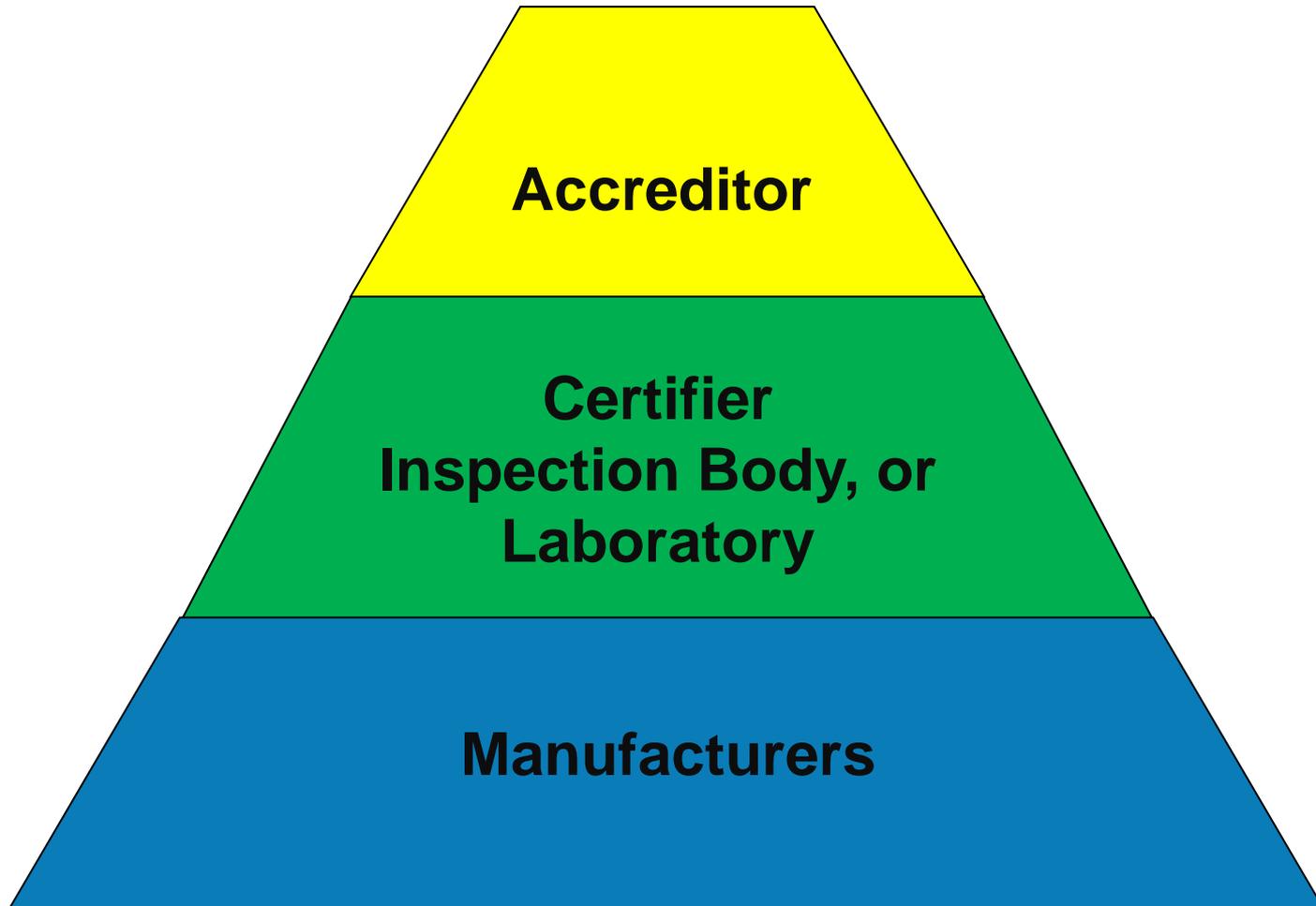
Examples

- Confidence in Competence



- ISO/IEC 17011

Who watches the watchers?

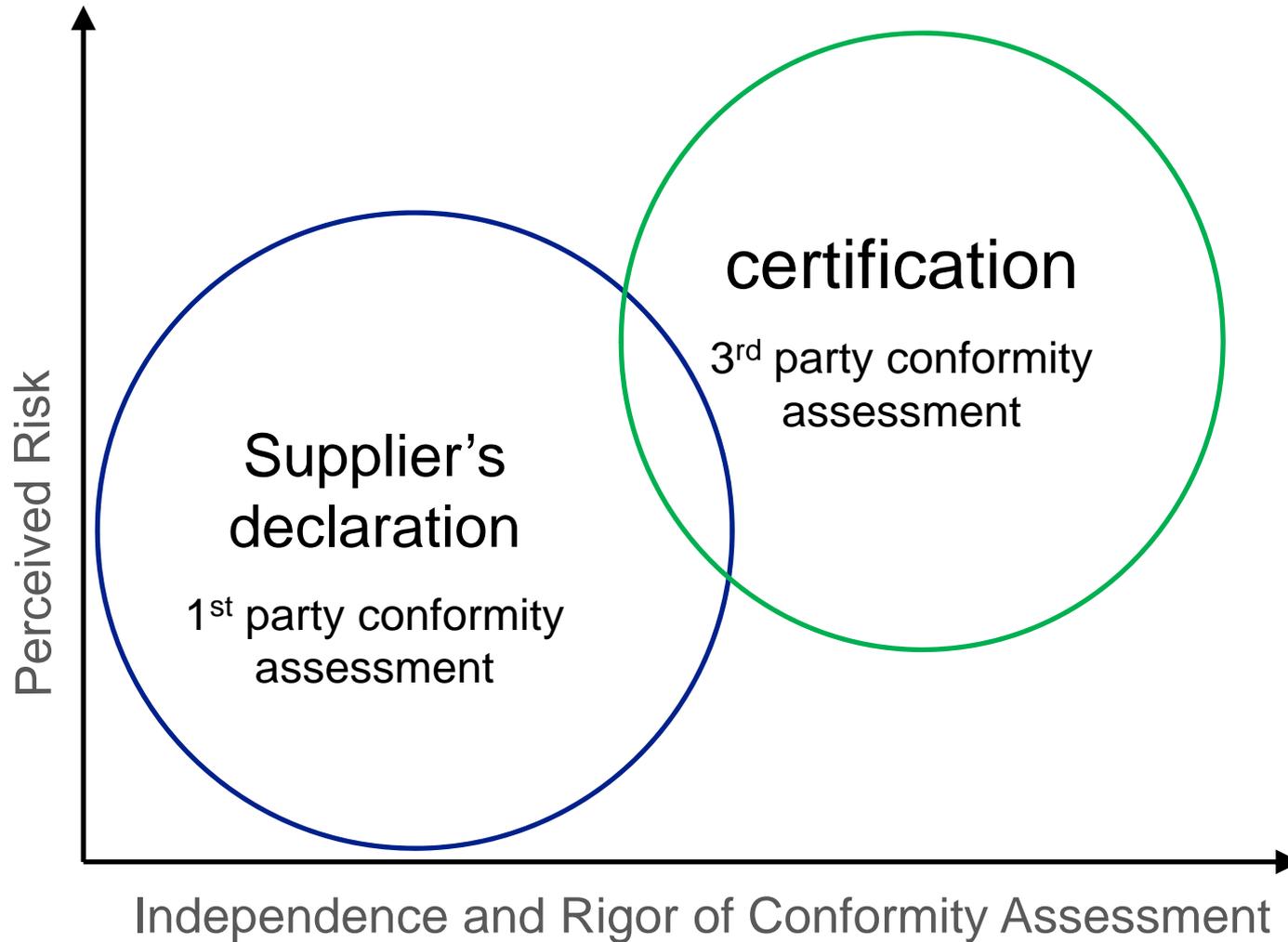




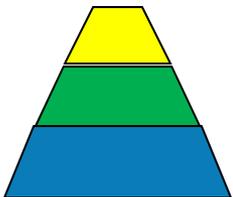
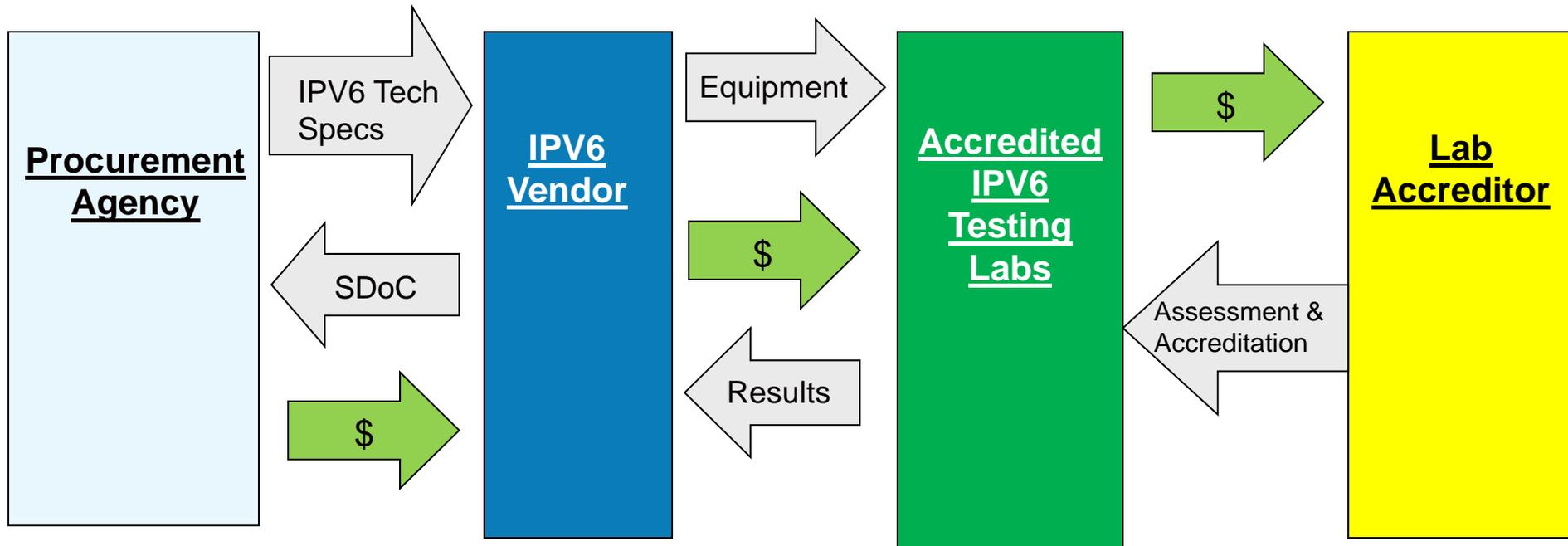
Factors in Conformity Assessment Systems

- Risks associated with non-compliance should be proportional to the rigor of the system design
 - ▶ Over-design costs too much
 - ▶ Under-design gives too little confidence
- Marketplace consequences (penalties) & effective recall allow less rigor

How much confidence is needed?



IPV6 Example of Conformity Assessment System



Review

- Terminology
- Types of conformity assessment
- How it works
- Examples

Thank You

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