

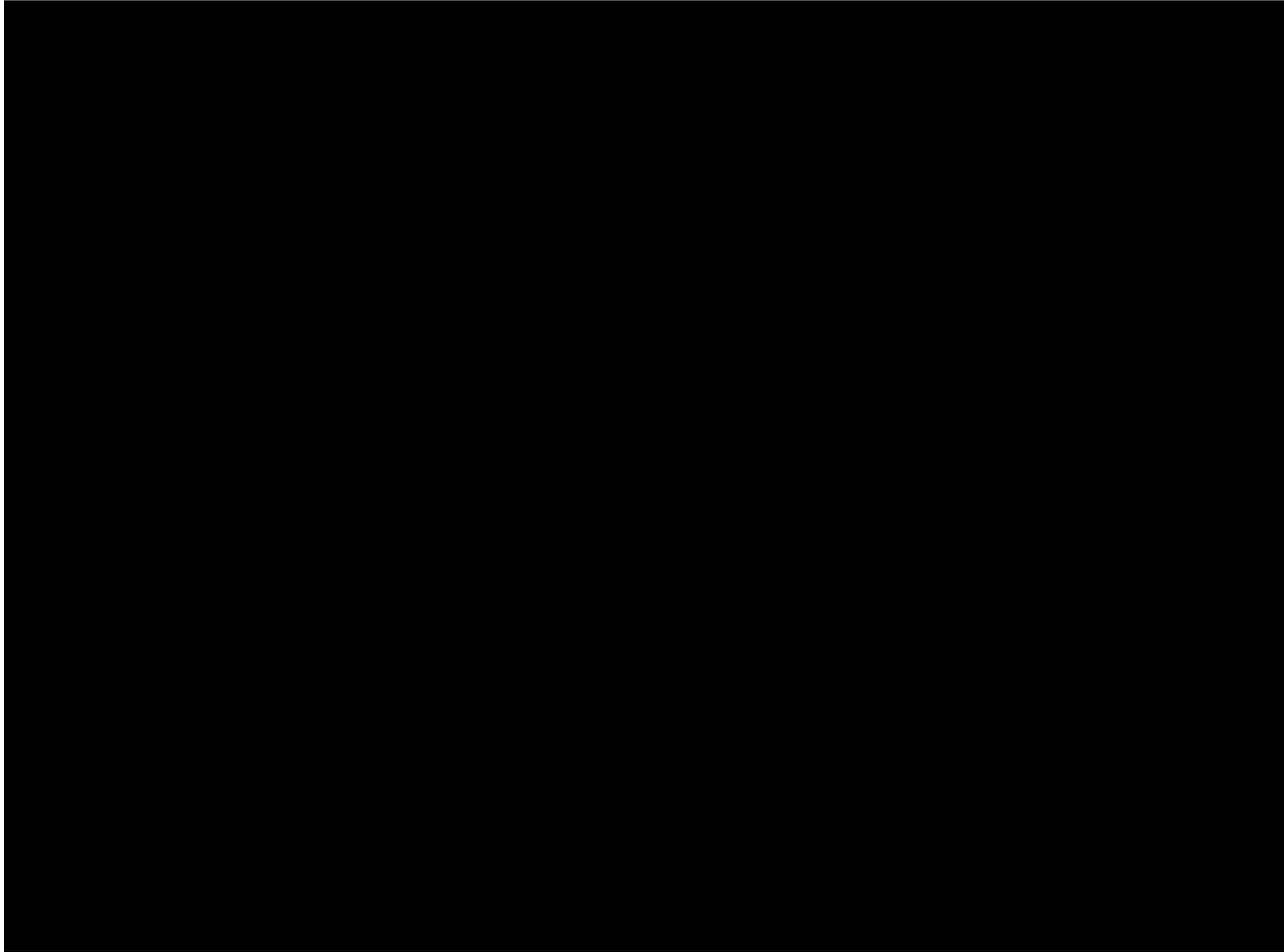
# NIST

Global Standards Information



## Conformity Assessment Basics

# Blast Resistant Trash Receptacle Testing



# Today's Discussion

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

# 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?

1<sup>st</sup> Party  
2<sup>nd</sup> Party  
3<sup>rd</sup> Party

First Party – seller or manufacturer

Second Party – purchaser or user

Third Party – independent entity

Government

1<sup>st</sup> Party

2<sup>nd</sup> Party

3<sup>rd</sup> Party

# Types of Conformity Assessment

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

# Supplier's Declaration of Conformity (SDoC)

1<sup>st</sup> Party  
2<sup>nd</sup> Party  
3<sup>rd</sup> Party

## Characteristics

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

## Examples



- ISO/IEC 17050

# Testing

1<sup>st</sup> Party

2<sup>nd</sup> Party

3<sup>rd</sup> Party

## Characteristics

## Examples

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

- *ISO/IEC 17025*



# Inspection

1<sup>st</sup> Party  
2<sup>nd</sup> Party  
3<sup>rd</sup> Party

## Characteristics

- Simple test measurement or examination
- Code compliance

- *ISO/IEC 17020*

## Examples



1st Party  
2nd Party  
3rd Party

# Certification

## Characteristics

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

- *ISO/IEC GUIDE 65*



## Examples



# Management System Registration

## Characteristics

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

- *ISO/IEC 17021*

## Examples



# Accreditation

1<sup>st</sup> Party  
2<sup>nd</sup> Party  
3<sup>rd</sup> Party

## Characteristics

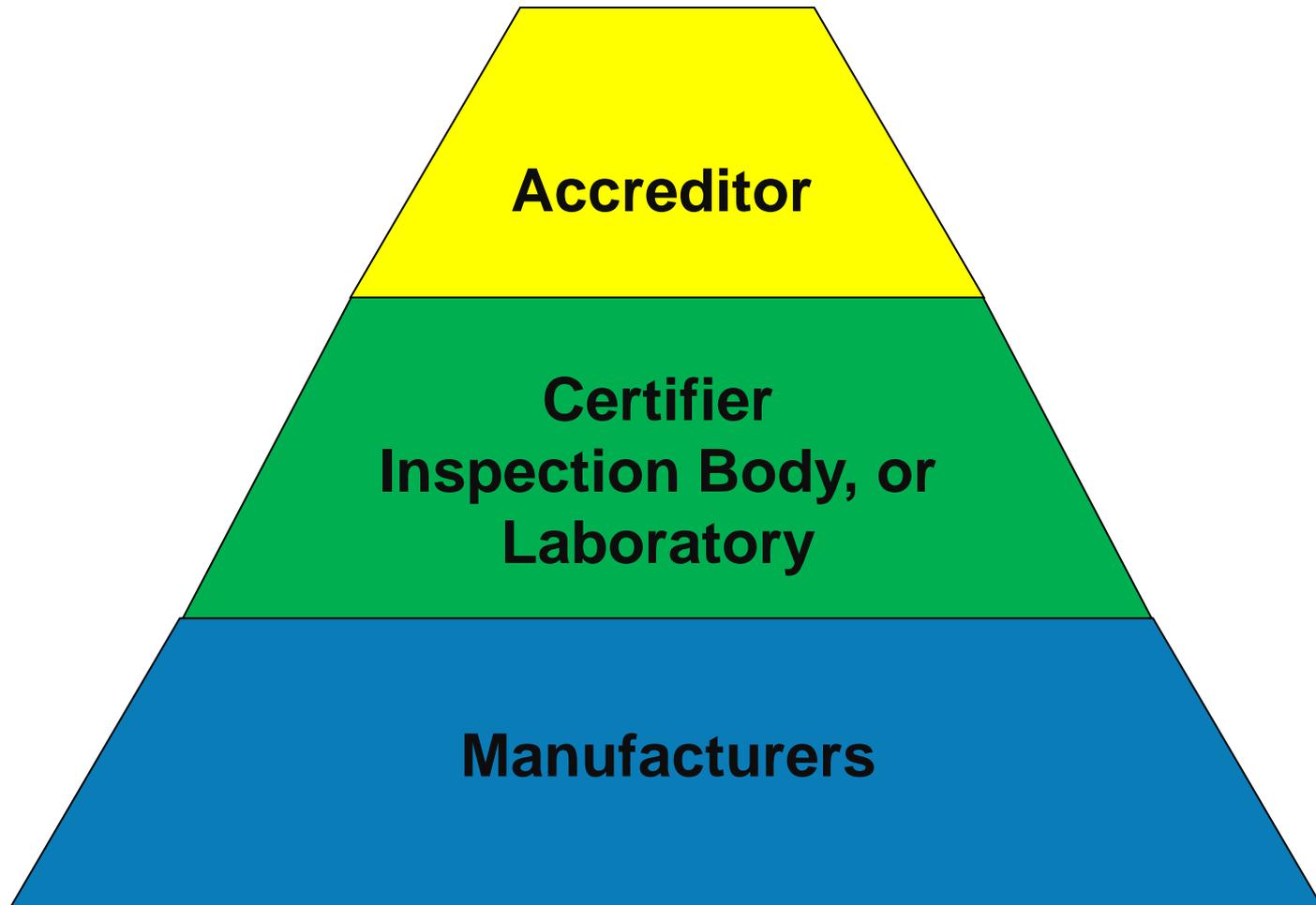
- Confidence in Competence

## Examples



- *ISO/IEC 17011*

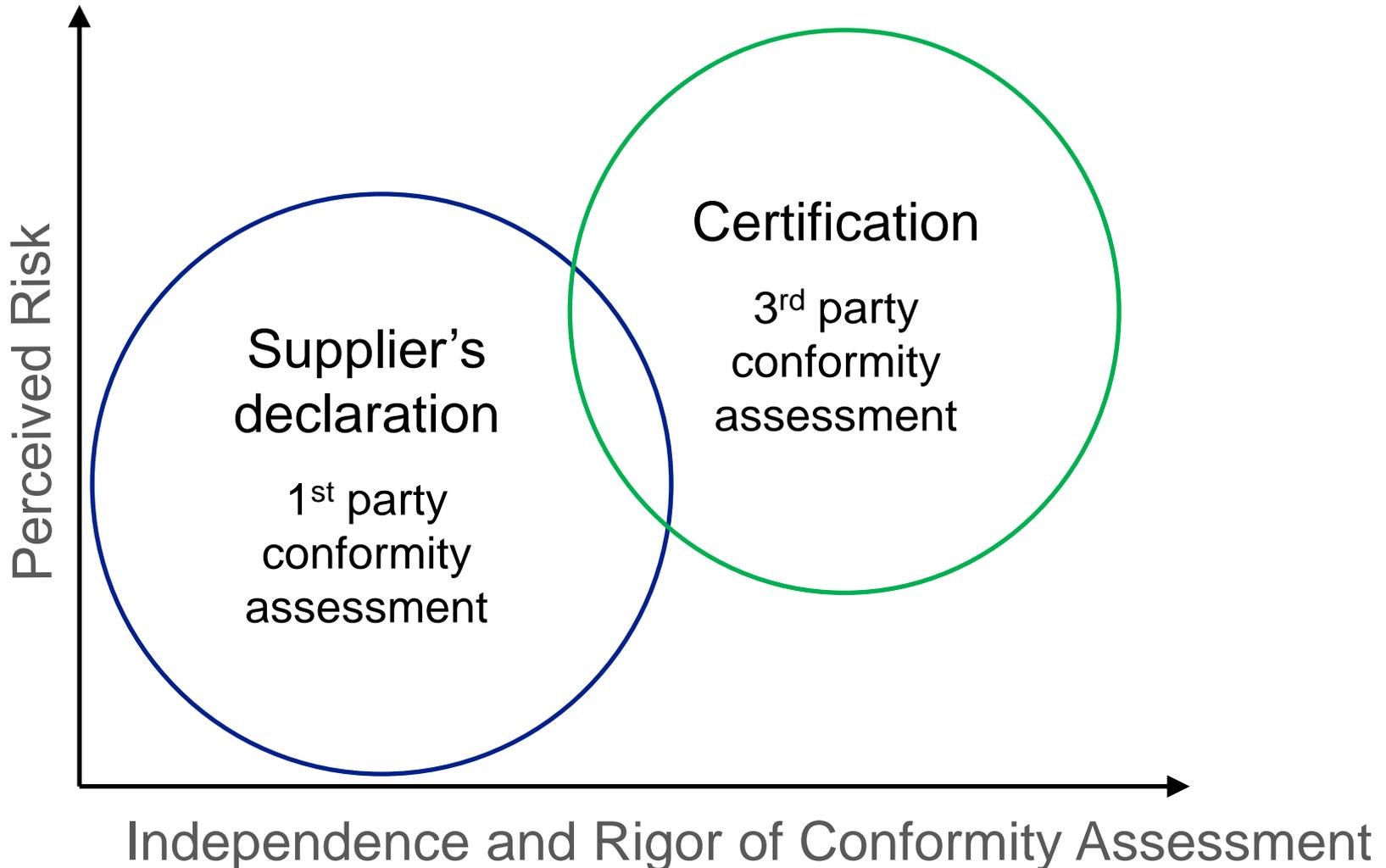
# Who watches the watchers?



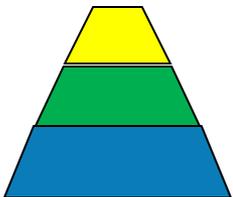
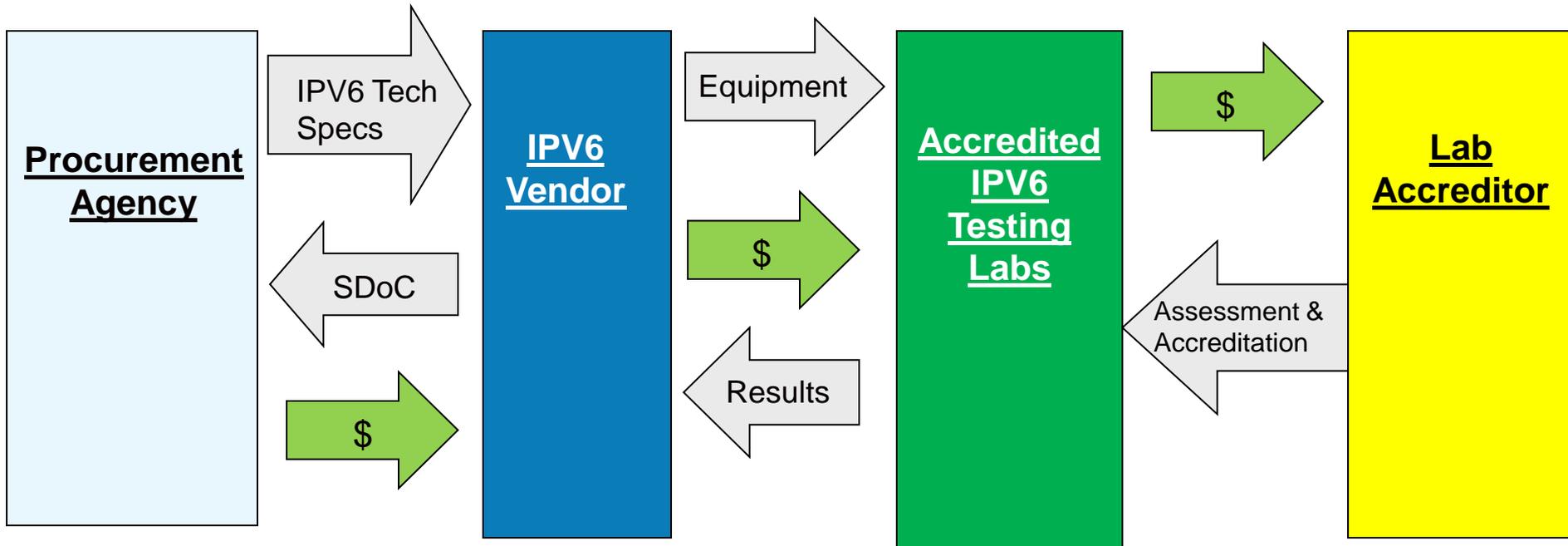
# Factors in Conformity Assessment Systems

- 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

# Conformity Assessment Basics

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