

# Sector Initiative for Equipment in Explosive Environments

The comprehensive approach  
of the UNECE  
Model L Regulation

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Chair of SIEEE

**UNECE – Working Party 6**  
10/06/2022, Geneva



**REGULATORY COOPERATION  
AND STANDARDIZATION POLICIES**

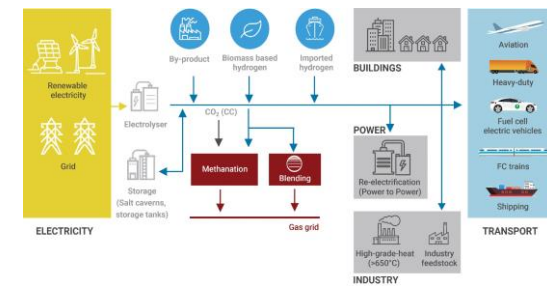


# Agenda



- Introduction of the Sector Initiative
  - What is Explosion Protection?
  - What kind of Products?
  - Importance of the Quality Infrastructure
- Importance of the Market Surveillance
  - Examples of the CRO
- Cooperation with IECEx

# Industry using Ex-Products



# Buncefield, UK, 11. Dezember 2005

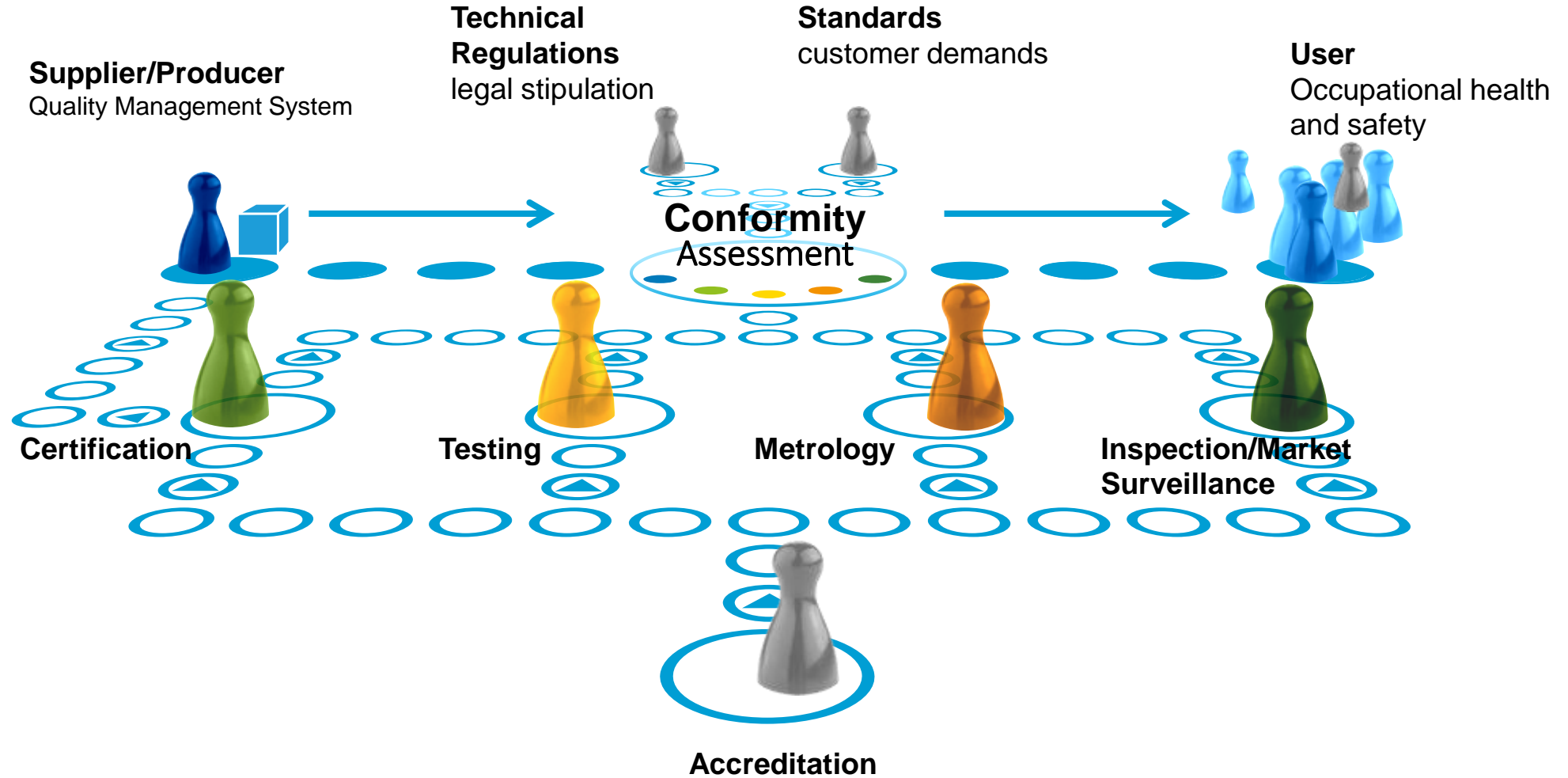




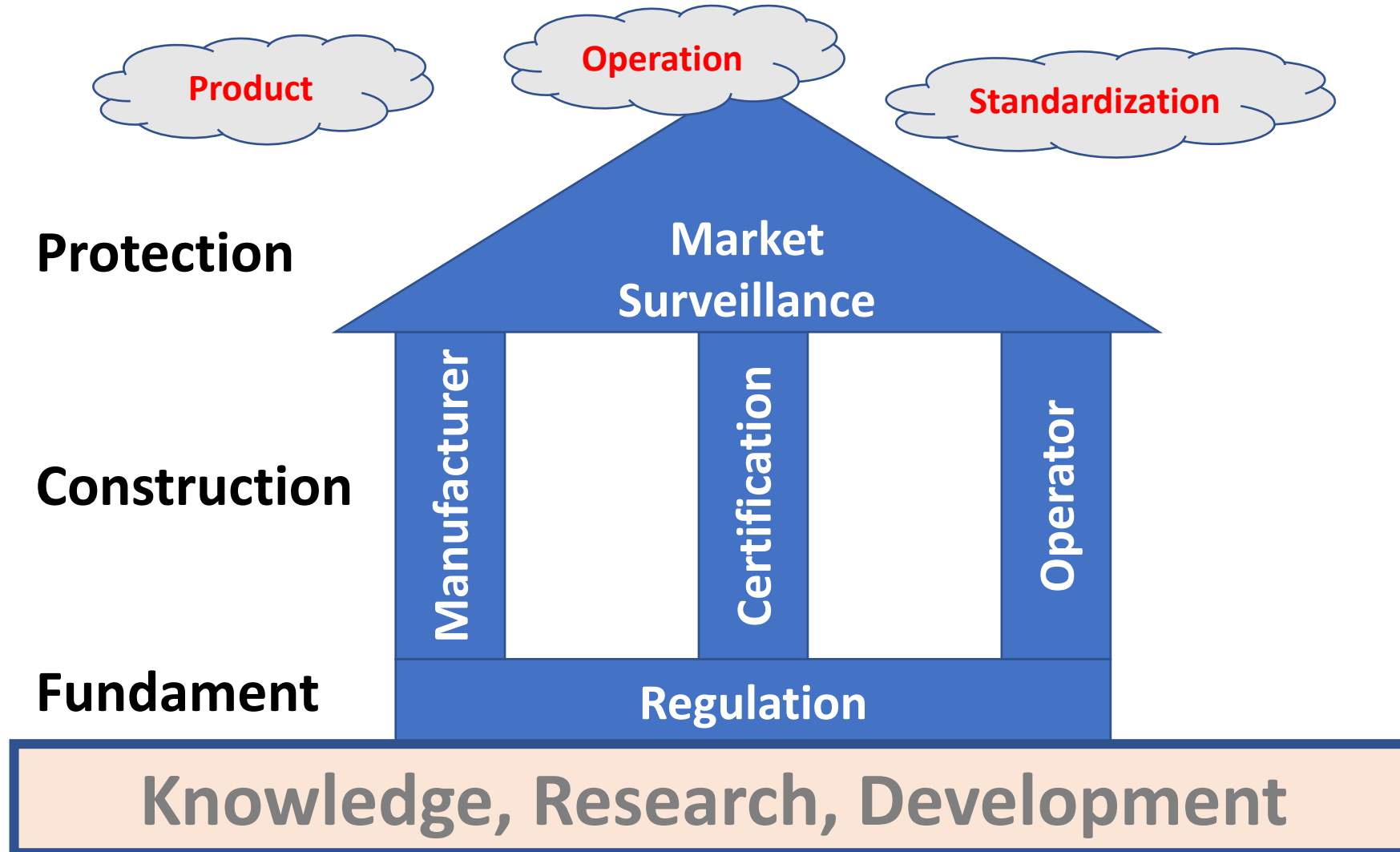
# Industry manufacturing Ex-Products



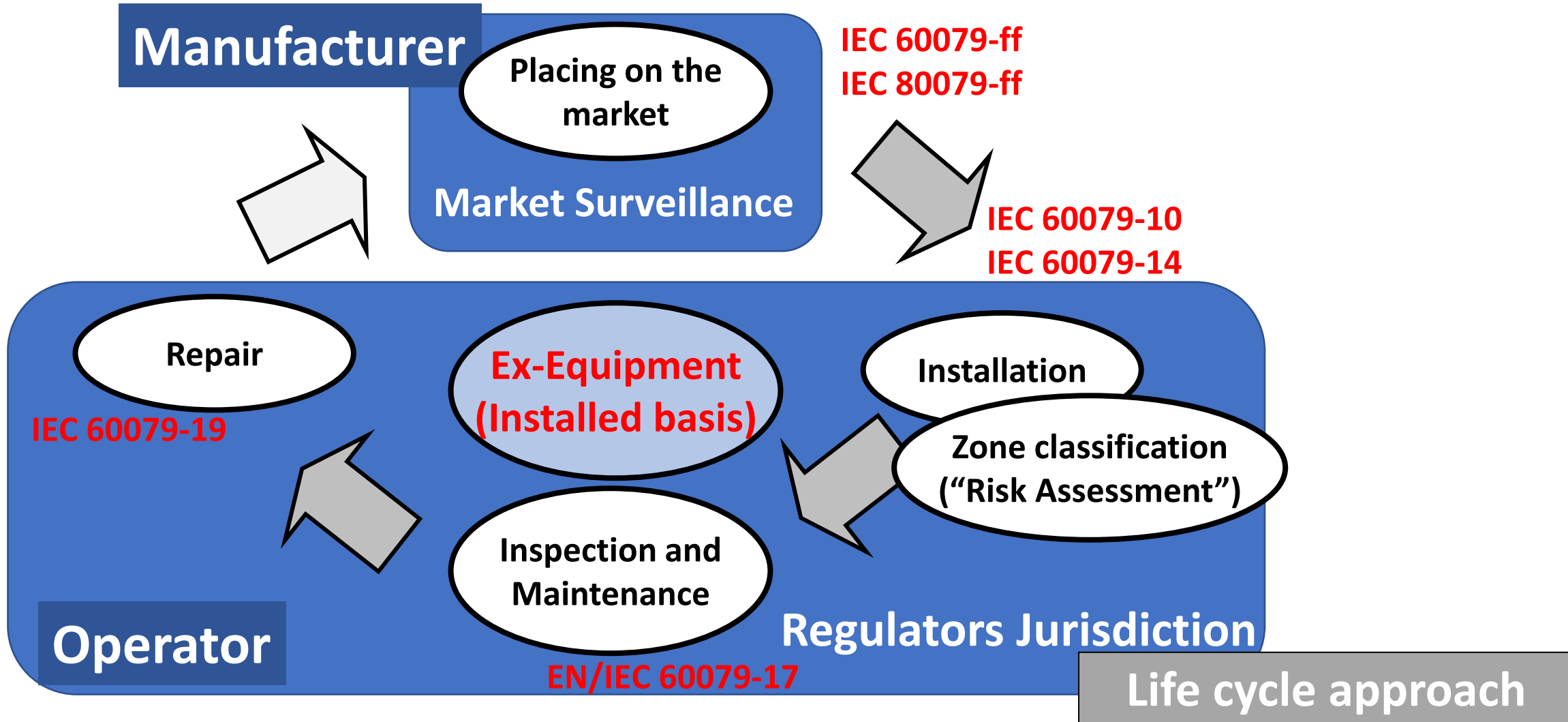
# Quality Infrastructure: A Complex Network



# Principles of the Ex-Business



# Intention of the Common Regulatory Objectives (CRO)

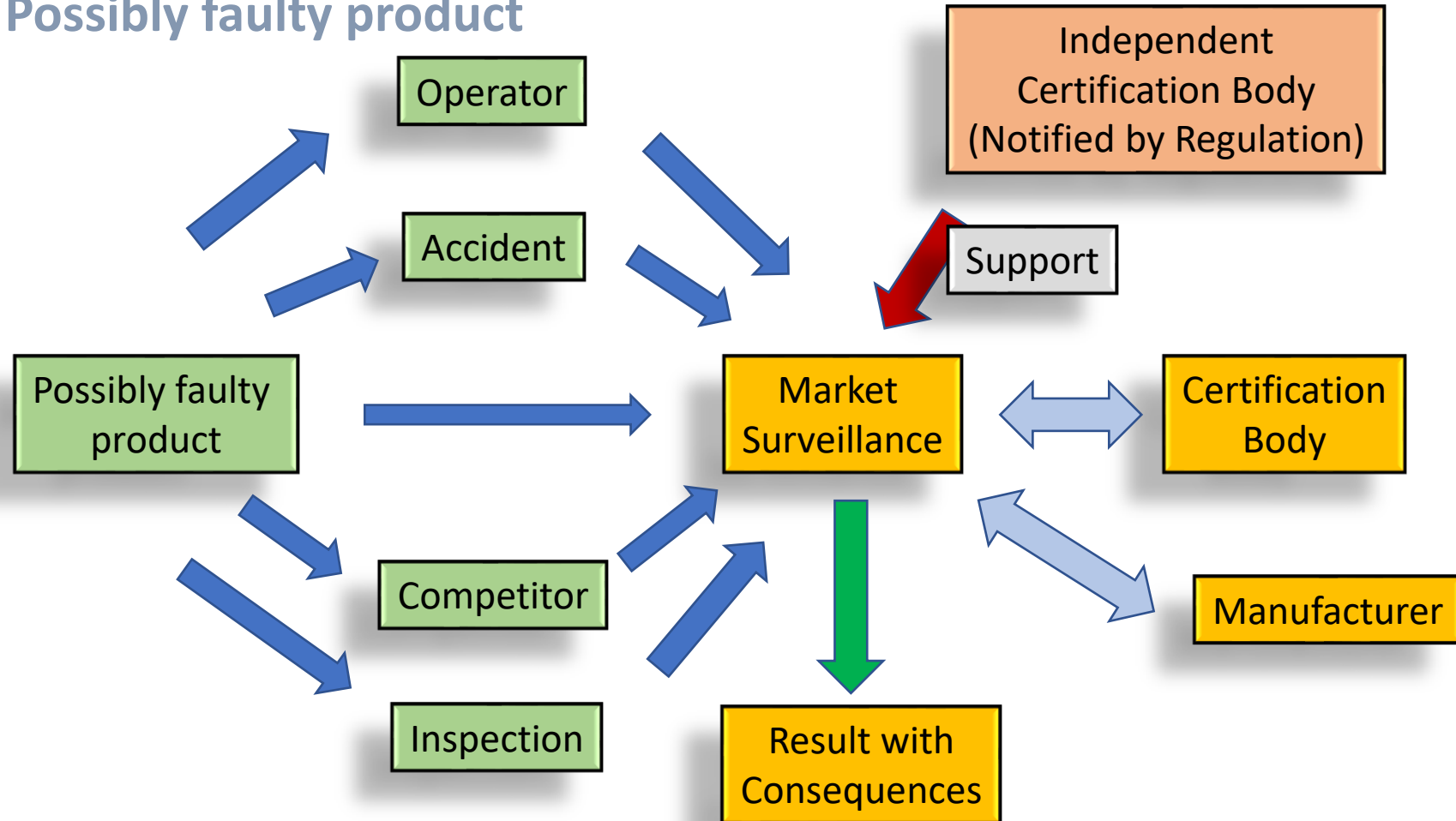




# Procedure for Ex-market surveillance



## Example: Possibly faulty product





# Informative Guideline for national officials for regulation



## Background

Explosion protection is an essential part of the overall risk management to be conducted for industrial sectors such as coal mining, oil, gas and chemical industries, to ensure safety in industrial processes using or producing hazardous materials like – for example – combustible gas, dusts or vapours. The risks to life and health of persons and the risk of loss of property when using the equipment which operates in the presence of explosive atmospheres are high.

Equipment used in high-risk facilities is highly sophisticated. Checking that it conforms to international best practice and current regulations is a complex task, even for those regulatory authorities who have substantial resources and modern equipment at their disposal.

Most national regulatory frameworks require that conformity assessment be conducted by independent, third-party inspection bodies. This is a prerequisite for safety in a sector where hazards are substantial and may involve many casualties. The **IECEX Certification System** offers a global framework for equipment, repair facilities or personal competence in this field.

High Confidentiality

Support in the complex thematic area

Communication Channel

Interaction with National Officials

## Invitation to communicate and exchange of information with the IECEx-System

The IECEx system sees themselves as a transparent organisation with the aim to have a high safety level an interaction with national officials for regulation is essential in cases of e.g. non-compliance matters. In case of non-compliance matters the IECEx-System appreciates to be contacted by national officials for regulation in the Ex-field. One of the unique and key features of the IECEx is the IECEx “On-Line” Certificate System with full public display of all IECEx Certificates, which provides a one-stop location that provides instant verification and checking of claims of holding IECEx Certification for either Ex Products, Ex related Service Organisations and Persons certified as Competent in the Ex field. For further information our contact is:

**Officials-contact@iecex.com**

The IECEx system offers high confidentiality with respect to non-compliance or also general technical matters. The secretariat in conjunction with a steering committee of IECEx can handle your concerns.

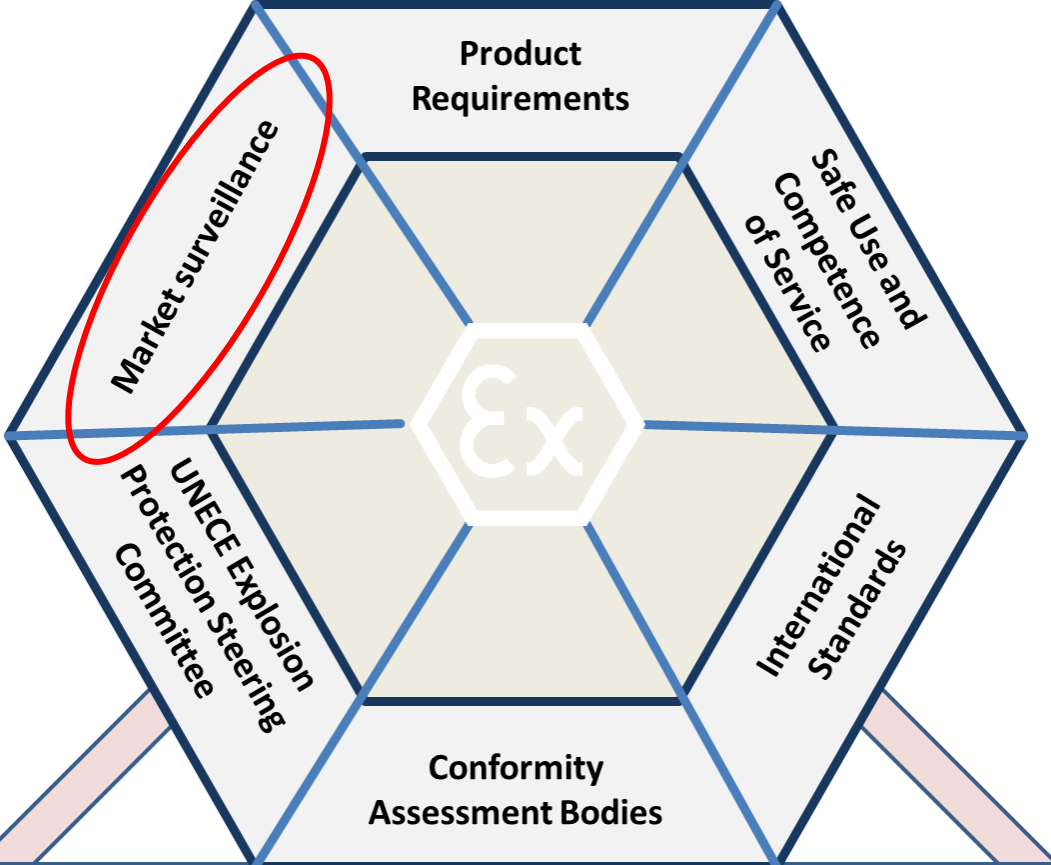
The IECEx System appreciates your trust and support by starting the communication and discussion to get a highly recognized certification system.

# The Regulatory Framework



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

A Common Regulatory Framework  
for Equipment Used in Environments  
with an Explosive Atmosphere



6 Common Regulatory Arrangements



Merci ありがとうございました Hvala Ačiū  
 شكرا جزيلًا Mahalo Дякую Teşekkür ederim  
 Рахмат Dankon ඔබට ස්තූතියි Sagbol Ευχαριστώ  
 Tack Çok sağ ol Dziękuję Ci Obrigado  
 მადლობთ תודה 감사합니다 धन्यवाद Dankon  
 Natur nuhun Баярлалаа Хвала вам Dankon  
 Спасибо Tak skal du have Diolch Хвала вам  
 Go raibh maith agat Faleminderit Paldies  
 Rahmat  
 Grazi Dank je Рахмат сага Faafetai Благодаря ти  
 Mulțumesc Ačiū Danke  
 Grazie 谢谢 សូមអរគុណ  
 Gracias Հնրիակալութիւնն Takk skal du ha  
 Salammat Aitäh Dankie Þakka þér fyrir  
 Ви благодарам Dėkuji Köszönöm Дзякуй  
 धन्यवाद Gràcies Asante  
 Kiitos



# REGULATORY COOPERATION AND STANDARDIZATION POLICIES



# Thank you

Lienesch Frank  
 Chair of SIEEE  
**UNECE – Working Party 6**  
 07/06/2022, Geneva