

Baseefa

## **ATEX Directive 94/9/EC**

- Council Directive 94/9/EC of 23
   March 1994 on the approximation of
   the laws of the Member States
   concerning Equipment and
   Protective Systems intended for use
   in Potentially Explosive Atmospheres
- ATEX = "Atmosphere Explosible" = Potentially Explosive Atmosphere

Baseefa

## ATEX Directive 94/9/EC

- Applicable throughout European Economic Area (EEA)
   = EU (25)+ EFTA (3) (+Switzerland) = 29
- Voluntary application since 1996
- Voluntary application since 1996
- Compulsory application since 2003
- It is a "Trading Directive"
- Concerns safety only to set minimum levels to prevent concerns on safety being a barrier to trade

Baseefa

# ATEX Directive 94/9/EC

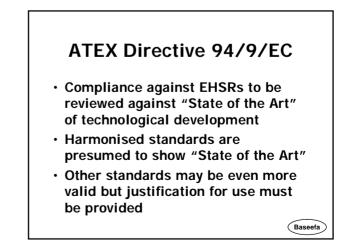
- Broad Scope
  - Equipment (Motors, Luminaires, Diesel Engines, Pumps, Fans, Conveyor Belts Instrumentation, etc.)
  - Protective Systems (Flame Arresters, Suppression Systems, Venting, etc.)
  - Safety Related Devices (IS Safety Barriers, Motor Protection Relays, etc.)

Baseefa

# ATEX Directive 94/9/EC

- Compliance against "The Essential Health and Safety Requirements" (EHSRs) from Annex II
- Standards have a subsidiary role supporting claims of compliance
- Harmonised standards are deemed to demonstrate compliance
- Use of other standards has to be justified

Baseefa



#### ATEX – Is it Certification ?

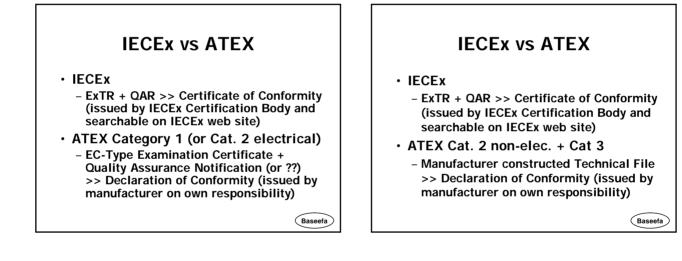
- ATEX is a mandatory legal device
- Only partly certification
  - Process depends on Category
  - The key document, "The Declaration of Conformity" (DoC) is always issued by the manufacturer without any monitoring by a third party
  - The DoC may, or may not, be reliant on evidence from a third party

Baseefa

#### **IECEx vs ATEX**

- IECEx is a true Type 5 Certification Scheme for all equipment, giving the identical level of confidence for everything
- ATEX only approaches Type 5 level for Category 1 Equipment and Protective Systems, giving progressively lower confidence for the lower Categories

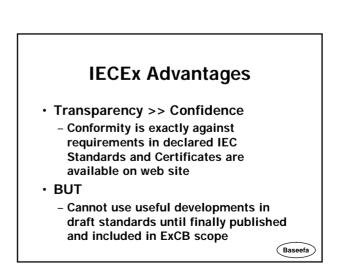
Baseefa





• Flexibility

- need not stick to exact wording of standards if alternative justification against EHSRs is contained in Technical File
- BUT
  - Not transparent as the only publicly available document is the Declaration of Conformity
  - Technical file invisible to purchaser



## **ATEX Advantages**

- Notified Bodies are readily appointed by Member States
  - Plenty of choice for manufacturers
- BUT
  - Some bodies have limited expertise and basis for notification is not clear
  - Some bodies treat essentials (such as provision of a report) as a chargeable extra

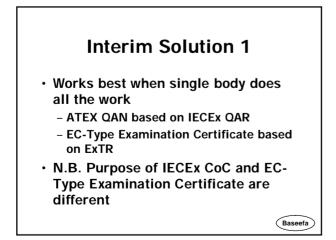
#### **IECEx Advantages**

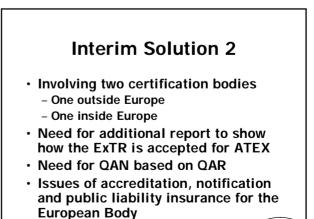
- Appointment of ExCBs and ExTLs is by a system of peer assessment
  - Transparent and leads to mutual confidence
  - Reporting is obligatory and subject to random peer review
  - Leads to customer confidence in the scheme and therefore value of certificates
- BUT
  - Prevents those that may be so inclined from cutting corners

# The Route for Europe Target End Point IECEx Certificates of Conformity fully accepted without further paperwork Problem IECEx is about Safety ATEX is about Trade European Commission would need to change the whole structure of its approach to trading directives !

# The Route for Europe

- Interim Solution 1
  - IECEx Documentation accepted with an ATEX "Cover Sheet"
  - All the technical work is done once within the IECEx framework
  - Possible currently for all 60079 series standards except 60079-11 Ex 'i'
  - Possible for all 60079 series standards as soon as next edition of 60079-11 is published





Baseefa

## **Interim Solution 2**

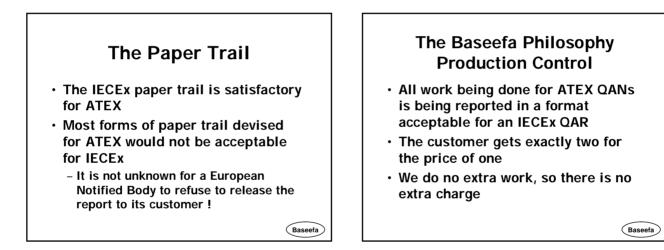
- The ATEX Notified Body has to take full legal responsibility and show the necessary paperwork
- The Notified Body is responsible to the European Commission via its national government

Baseefa

### **The Paper Trail**

- All certification activities require a paper trail
- The IECEx Scheme paper trail is prescribed to a major extent within the scheme
- The ATEX Directive does not prescribe particular forms of paperwork

Baseefa



#### The Baseefa Philosophy Design Test and Assessment

- By our customers are able to use standards acceptable to IECEx there is no extra charge for the technical work
- There are additional sheets of paper to cover ATEX and IECEx, but the cost is minimal for most projects

Baseefa

