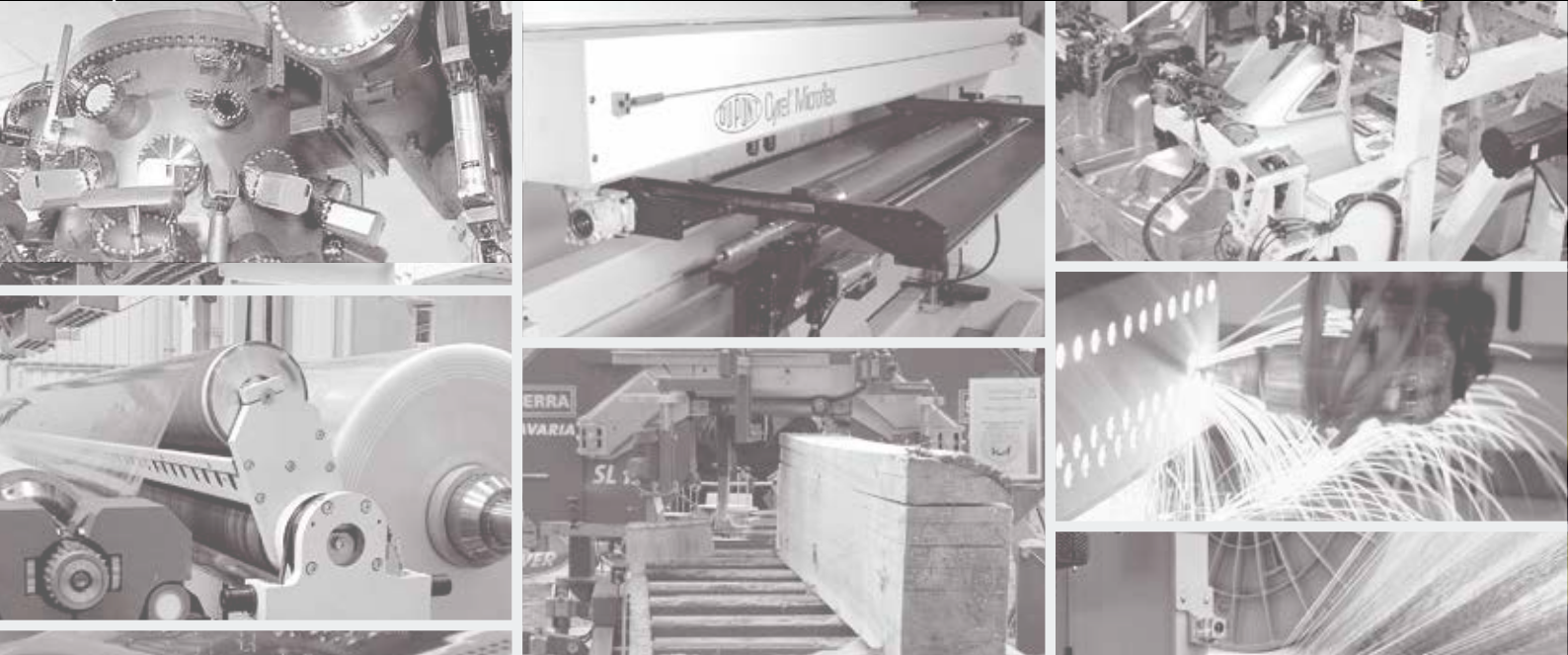


LEADING MANUFACTURERS TRUST IN openSAFETY



THE FUTURE IS WIDE OPEN.



BE ON THE SAFE SIDE!

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Connecting Industries:
 openSAFETY provides one universal safety solution for all industrial sectors

MM-ED:1419.137

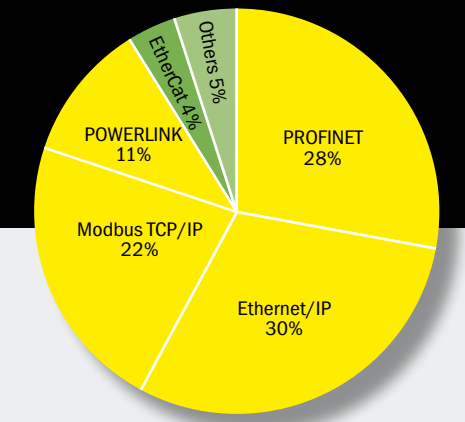
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IEC APPROVES openSAFETY AS WORLDWIDE STANDARD

The fieldbus-independent openSAFETY protocol was tested according to IEC 61784-3 FSCP 13 and approved by national IEC committees representing 27 countries including China, USA and Germany, and is therefore released for international standardization. Because openSAFETY is bus independent, it can be used with all fieldbus or industrial Ethernet systems.

End customers have been requesting a uniform and manufacturer-independent standard for years, and openSAFETY is the response to those requests. It allows increases in productivity that are currently not possible with other safety protocols.

SIL3 certification by TÜV Rheinland and TÜV Süd



Market shares of Industrial Ethernet
 (Source: IMS Research 3rd quarter 2009)

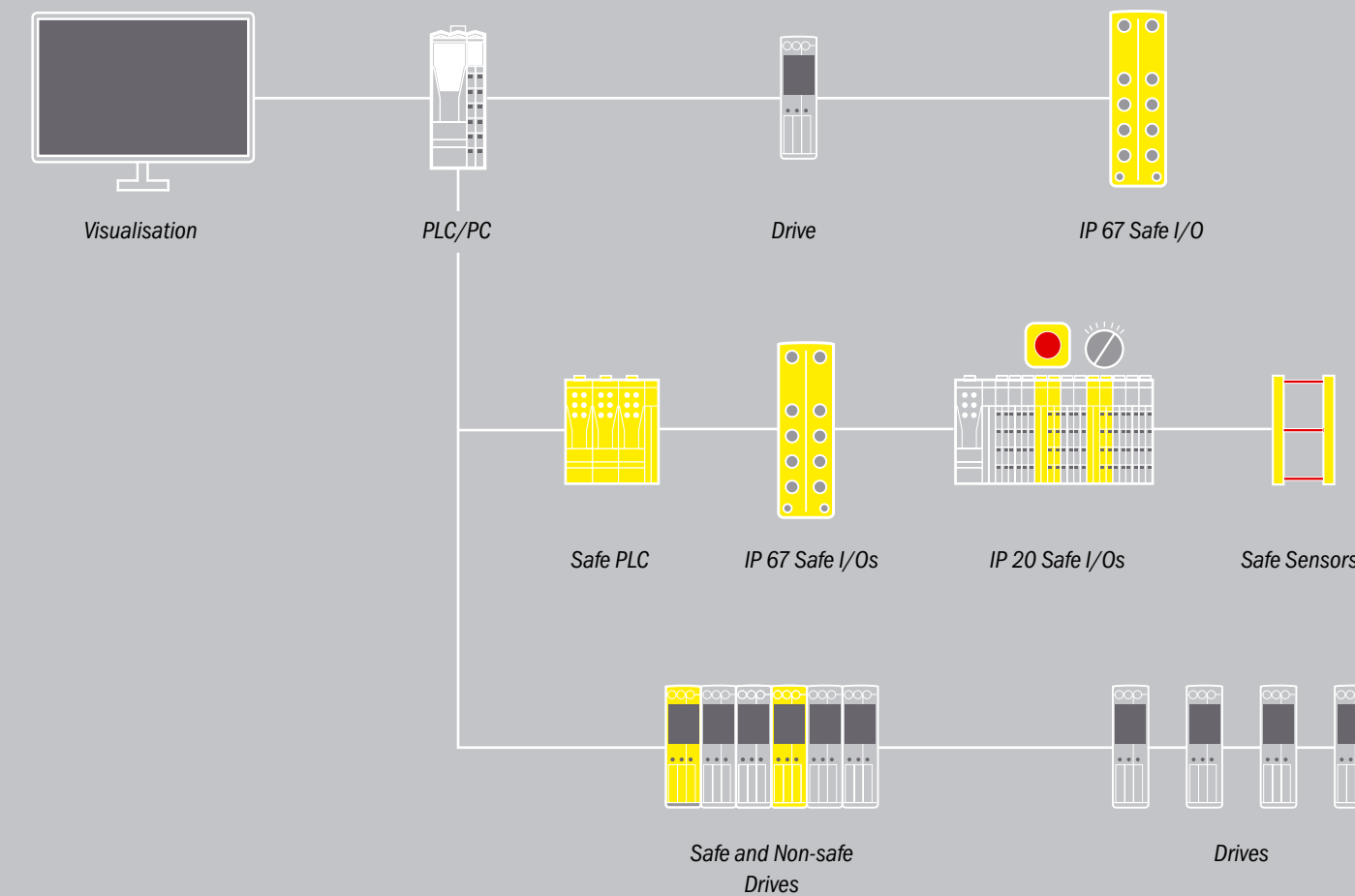
91 % realised with openSAFETY

Highlights at a glance:

- one single, uniform standard for all leading fieldbuses
- maximum productivity due to efficient cross-communication
- reduced commissioning and maintenance time
- automatic safe parameterization
- perfectly suited to safe modular machine concepts
- sole 100% open safety solution
- fastest IEC 61508 SIL3 communication solution
- no risk involved in investment: TÜV certified conformance test



MARKET ADVANTAGE BY INTEGRATED SAFETY TECHNOLOGY



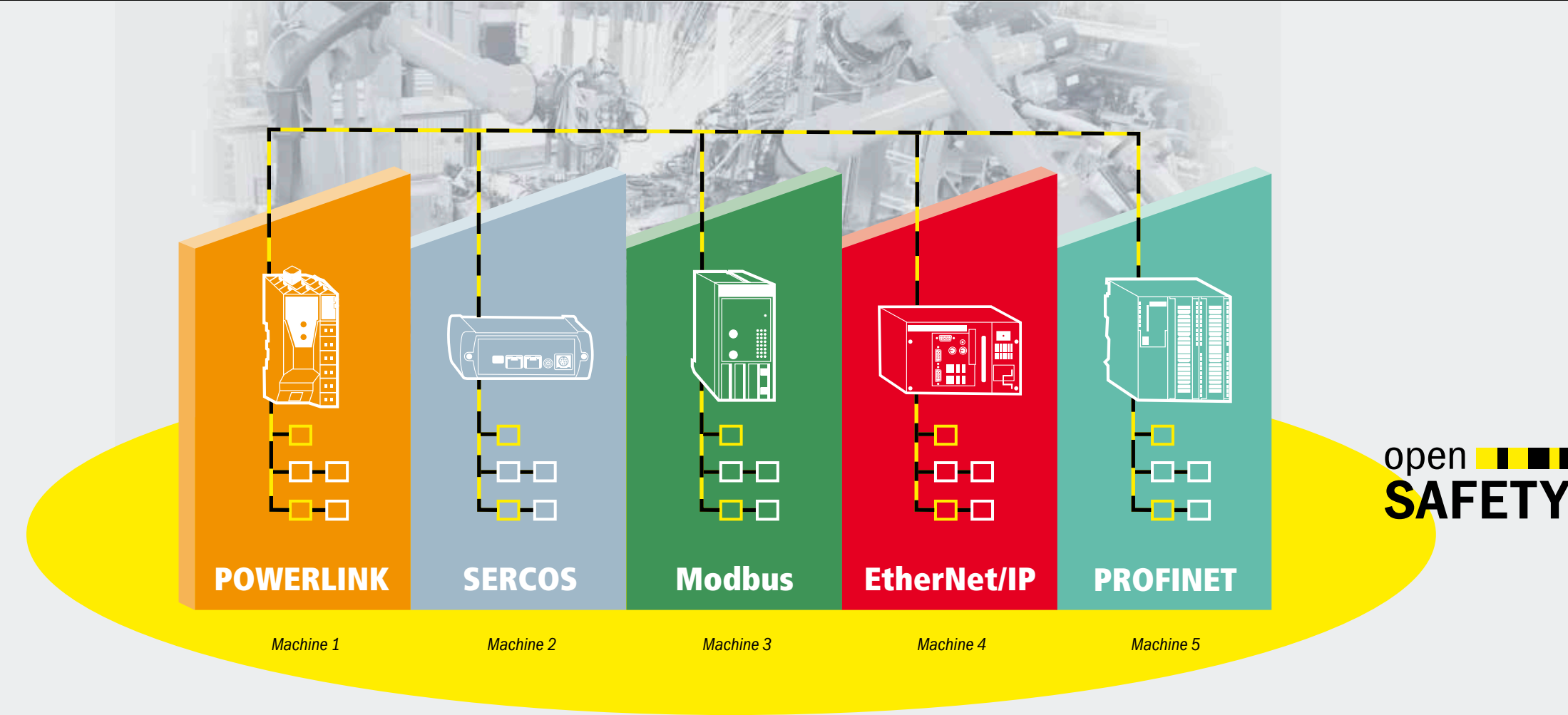
Smart Safe Reaction – it doesn't always have to mean downtime. Conventional safety technology often means stopping all the machines when the smallest disturbance occurs. Smart Safe Reaction uses a completely new approach. Flexible safety functions such as Safe Direction or Safely Limited Increment are integral parts of the drive system and open up new perspectives. Intuitive connection and graphic virtual wiring of certified function blocks makes it possible to easily and clearly represent even highly complex dependencies.



Safe Motion certified

ONE SAFETY STANDARD FOR YOUR ENTIRE PRODUCTION PLANT

openSAFETY constitutes a universal safety standard for an entire production line, irrespective of the control system manufacturer and fieldbus standard used in it. The bus-independent openSAFETY standard therefore reduces costs as well as commissioning time for production facilities as a whole.



Benefits for plant operators

- a single, consistent safety standard for an entire line or plant
- independence of control system manufacturers
- perfectly suited to safe modular plant concepts
- minimal commissioning and retrofit time
- investment security through legal and technical independence

Benefits for machine manufacturers

- free choice of safety sensors
- faster reaction times
- tighter safety distances
- higher productivity
- easy commissioning and diagnostics
- facilitation of Machinery Directive implementation

Benefits for sensor manufacturers

- only one-time development required
- reduced investment risks
- minimal time-to-market
- low costs due to open source
- interoperability guaranteed
- no risk for redesigns

openSAFETY: the first open and bus-independent safety standard for all Industrial Ethernet solutions

