

# Certificatie en Kwaliteitsborging

Wouter van Beers - Productmanager Kiwa FSS



Partner  
for  
Progress

# Inhoud

- Kiwa Global
- Unit - Kiwa Fire Safety & Security
- International TIC schema K21045
- Specific certification scheme 05 Protection of Lithium-Ion battery's
- Project: Mobile Locker - S4FE

# Who we are

Part of SHV



8 companies  
in 69 countries

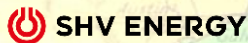


~60,000  
employees



€ 16.7bn  
sales in 2021

Family members



# Who we are

Kiwa is



Globally  
active



Founded 1948  
in the Netherlands

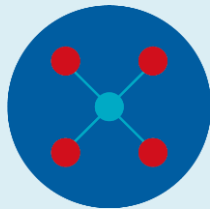


Member of the  
SHV Family of Companies

Kiwa has



Offices in 40  
countries



A partner and agent  
network



An operating income  
of € 1.1bn in 2022



~10,000  
employees



# Who we are



10,000 experts



Globally active,  
locally available



Knowing your market



Knowing your  
(business) processes



Thinking along  
and beyond

in short



**a Partner for Progress**

# What we do for you



Testing



Inspection



Certification



Training



Consultancy



Data services

There is a strict separation between our certification services and activities like training courses and consultancy



# Why we do it

We ensure



Quality



Safety



Health



Sustainability



for



Your customers  
or clients



Your  
employees



Society



Our living  
environment

# Why we do it



We create trust

in your



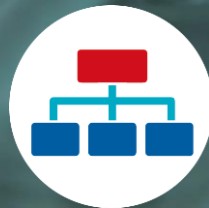
Products



Services



Processes



Organization



Management  
Systems



People



# How we do it



Professional  
partnerships



Global reach,  
local service



In every market



One-stop shop



Expert  
knowledge

so



We help you improve

# Markets



Food, Feed,  
Farm



Construction



Fire  
Safety



Industry  
Assets



Cyber  
Security



Medical  
Devices



(Renewable)  
Energy

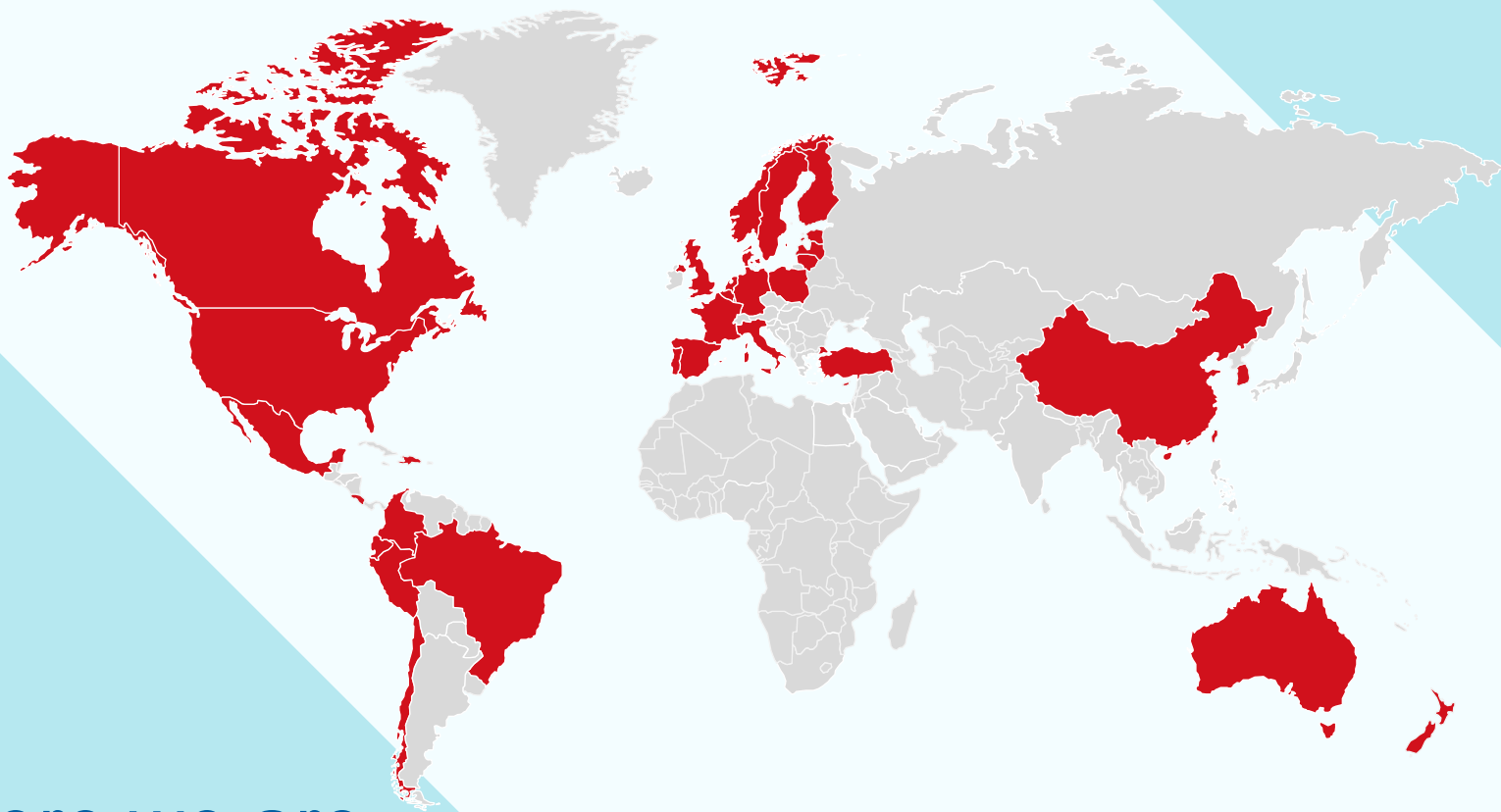


Water



Radio and  
Wireless

plus many more



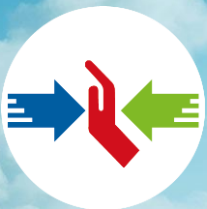
Where we are



# Our Code of Conduct and Compliance



Integrity



(Avoiding) Conflicts of Interest



Fair Business Conduct



Anti-bribery



Confidentiality and Data Protection



Competence



Fair Labour and Ethical Behaviour



Health and Safety

At Kiwa, we adhere and live up to high moral and ethical standards

# Our notifications, approvals and accepted laboratories

Kiwa is a Notified Body, has approvals and accepted laboratories\* in a wide range of areas, of which some are shown here. Find an overview of our accreditations, notifications and labs on [www.kiwa.com](http://www.kiwa.com) > About Kiwa > Accreditations and notifications

\* Product testing services only.  
Product approval and certification by other bodies.



Medical  
Equipment



Drinking  
Water



Construction



Radio  
Equipment



Pressure  
Equipment



Marine  
Equipment



Gas  
Applications



# Our supervisors

We are accredited (and thus supervised) by accreditation bodies. They continuously control our work - so, there is a 'double check' for you!





# Why have us test for you?



When you bring something new to the market, your customers will have to be confident that your product, component, material or its application performs reliably. It should work the way it is supposed to, compliant with local and international rules and regulations. Kiwa's independent, comprehensively equipped and highly qualified testing labs and services bring that trust.

# Testing at Kiwa

Testing, whether in a laboratory or on-site, includes examinations to independently determine characteristics and thus approves requirements in terms of safety, quality, performance, reliability and compliance. Of course, all tests are according to appropriate test regimes.



100+ labs



All over  
the world



Destructive and  
non-destructive testing



Components,  
materials,  
fluids, gases

## Independence

When testing or evaluating, we do so strictly independently. In turn, we are also supervised. The great majority of our testing labs have been accredited by the Accreditation Council and European accreditation institutions. Thus, we close the loop, bringing trust.

# Advantages



Testing improves  
efficiency



Testing keeps  
you going



Testing  
reduces risk



Testing delivers proof:  
quality, safety, performance  
and compliance



Testing supports  
commercialisation and  
customer satisfaction



# Why certify?



As an entrepreneur, you guarantee that your products, services, personnel and processes comply with laws and regulations concerning safety, efficiency, control and sustainability. But how can you convince potential customers, business owners or clients of these good intentions - today, tomorrow and into the future? With a certificate!

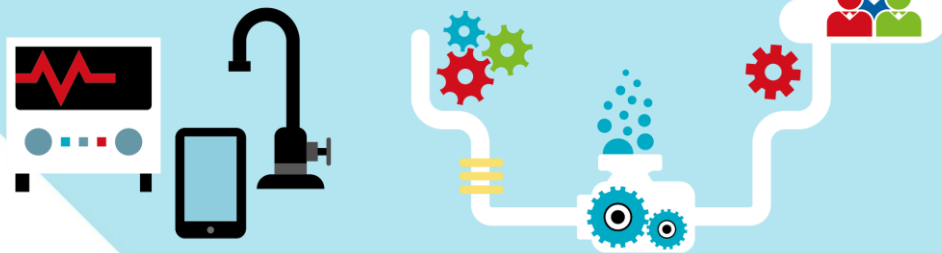
# What certification is



Certification independently confirms characteristics of a product, process, person or organisation. Kiwa's certificates and reports offer reliable, impartial, objective and internationally recognised evidence.



CE marking  $\neq$  Certification



## Independence

We act as an independent third party when certifying. As an additional layer of trust, we are being assessed by the Accreditation Council and European accreditation institutions on a regular basis as well.

# Advantages



Certification improves  
efficiency



Certification means  
certainty



Certification improves  
customer satisfaction



Certification ensures  
confidence



Certification fosters  
engagement



Certification is  
great for marketing



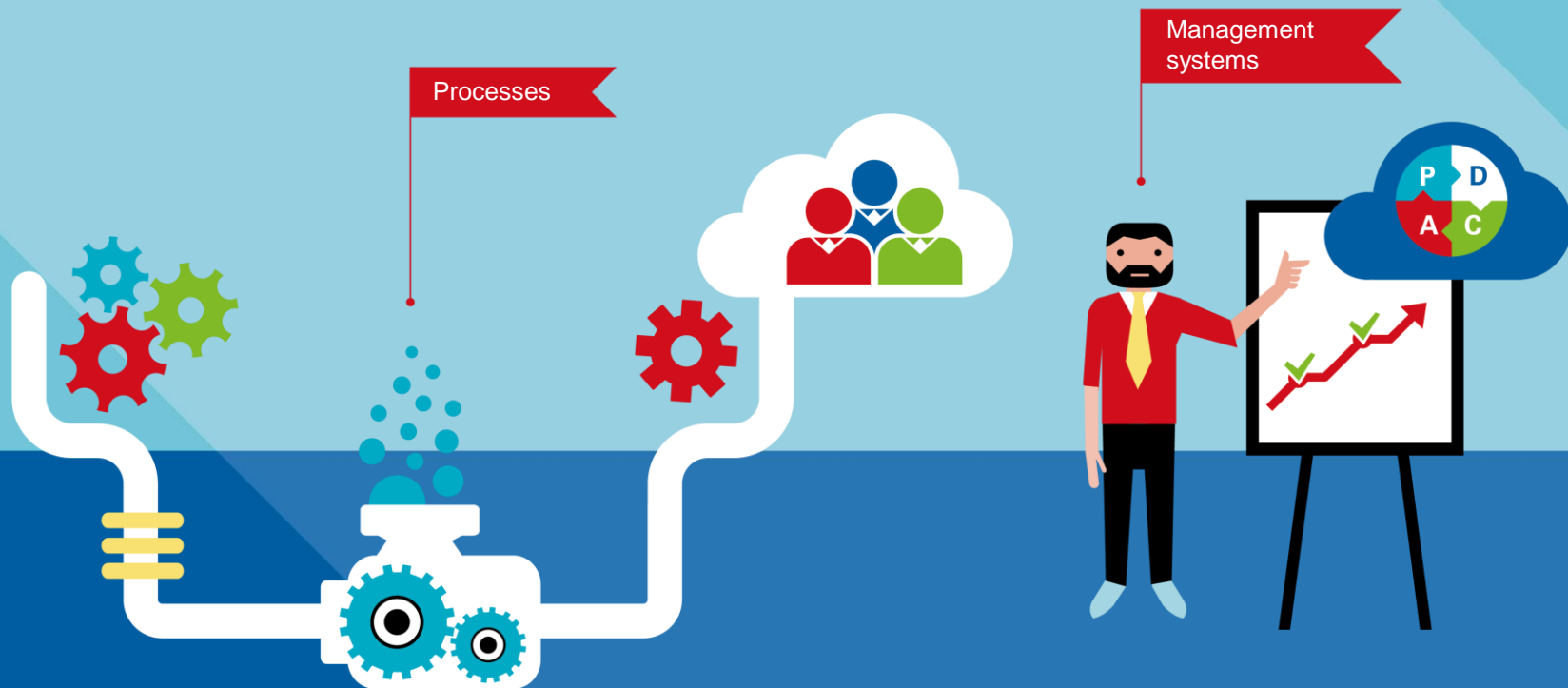
Certification creates  
trust



# What we certify



# What we certify



# The process





K21045/02

Valid  
2021-03-30

## Fire Protection Systems

assessment scheme for the testing, inspection and certification of fire protection systems



Trust  
Quality  
Progress

K21045  
SCP05/01  
2022-09-22

## Specific Certification Program Fire Protection Systems – Components

Fire Protection of Lithium-ion batteries storage



Trust  
Quality  
Progress

# Internationaal TIC Scheme K21045

K21045 maakt gebruik van de internationale standaard:

EN16763 “Services for fire safety systems and security systems”



(Vergelijkbaar met ISO 9001)

K21045 Factory Production Control :

EN-ISO/IEC 17067 “Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes”.



# KPI – Mobile Locker – S4FE

De Mobile Locker S4FE Kast :

- Beheersen van een accu brand, binnen 1 locker van de kast
- Testen fiets/scooter/step: tot 1050 Wh
- Snelle detectie en doormelding brandalarm/storing
- Overdruk klep om explosies van de cellen op te vangen.
- Aerosol blus/beheers systeem voor het onderdrukken van het brandproces
- Schade beperking
- Repressieve handling



EN15276-2 Fixed firefighting systems - Condensed aerosol extinguishing systems - Part 2: Design, installation and maintenance

EN 16763 Services for fire safety systems and security systems

ISO 15779 Condensed aerosol fire extinguishing systems - Requirements and test methods for components and system design, installation and maintenance - General requirements.

EN 12094-1: 2003; Fixed firefighting systems - Components for gas extinguishing systems - Part 1: Requirements and test methods for electrical automatic control and delay devices.

EN 54- reeks : Fire detection and fire alarm systems.



# Mobile Locker





A85812  
23 march 2022 and  
21 February 2023

## Fire Protection System for batteries

Testing a repression system for boxed lithium batteries within  
a locker system



Trust  
Quality  
Progress

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www.kiwa.nl

## Audit report

Fire Protection Systems



Trust  
Quality  
Progress



### Product Certificate K-XXXXXXX

Issued: 00000000  
Replaces: N/A  
Page: 1 of 5



### Specific Certification Program 05 for Fire Protection of Lithium-ion batteries storage

STATEMENT BY KIWA  
With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa  
declares that legitimate confidence exists that the products supplied by

#### Mobile Locker – S4FE.

as specified in this product certificate and marked with the Kiwa<sup>®</sup>-mark in the manner as indicated in this  
product certificate may, on delivery, be relied upon to comply with the international Kiwa TIC - scheme  
BRL-K21045 "Fire protection Systems" dated 30-03-2021.  
Inclusive Specific Certification Program 05 for Fire Protection of Lithium-ion batteries storage dated 22-09-  
2022.

  
Ron Scheepers  
Kiwa

Publication of this certificate is allowed.  
Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.

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info@kiwa.nl  
[www.kiwa.nl](http://www.kiwa.nl)  
Ofisio Zaltbommel  
Donsweg 10  
5301 KT Zaltbommel  
The Netherlands  
Tel: +31 88 998 51 00

Company: Mobile Locker  
Factory: XXXXXXXXXXXXXXX

Certification process  
consists of initial and  
regular assessment of:  
• quality system  
• product



# Want to know more?

See all our Testing, Inspection and Certification  
services at [www.kiwa.com](http://www.kiwa.com)

**wouter.van.beers@kiwa.com**