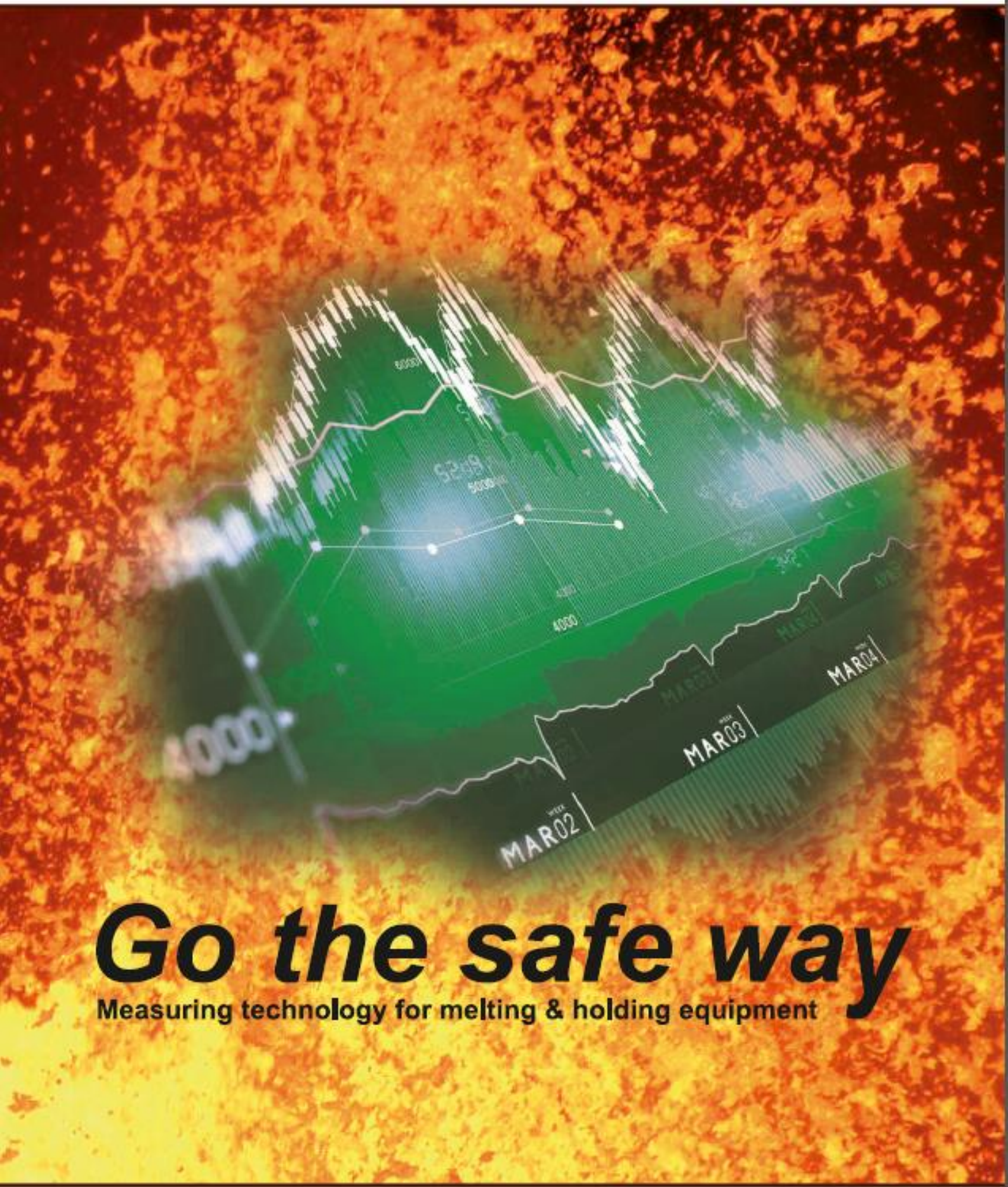
PRODUCT OVERVIEW



Go the safe way

Measuring technology for melting & holding equipment

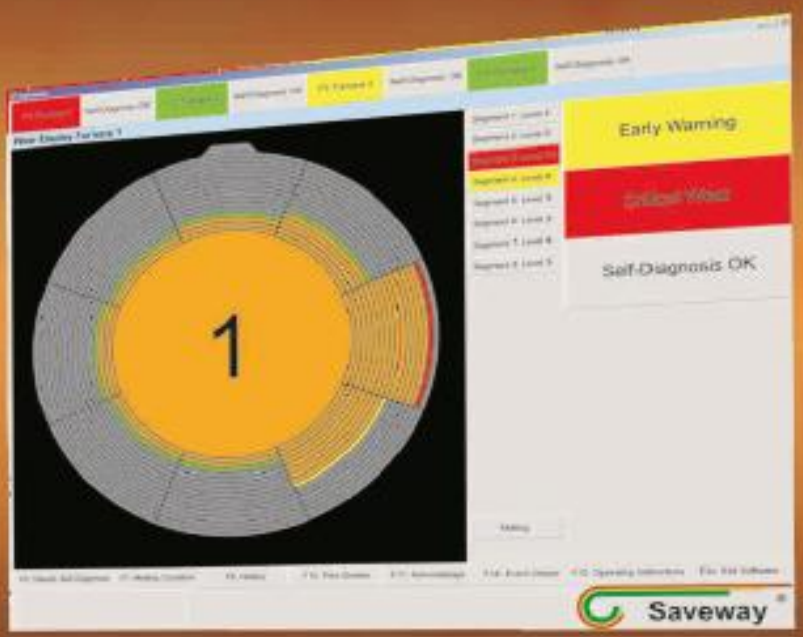
Saveway®

Measurement of remaining lining thickness

SAVEWAY®

- Continuous measurement of refractory wall thickness during furnace operation
- Display accuracy: 1/16 of initial wall thickness
- Localization of wear
- Reliable indication of local metal penetration
- Reliable indication of drying condition and cooling water leakages
- Detection of overheating caused by bridging

Example:
Display for a coreless induction furnace



Main fields of application:

Coreless induction furnaces, glass melting tanks

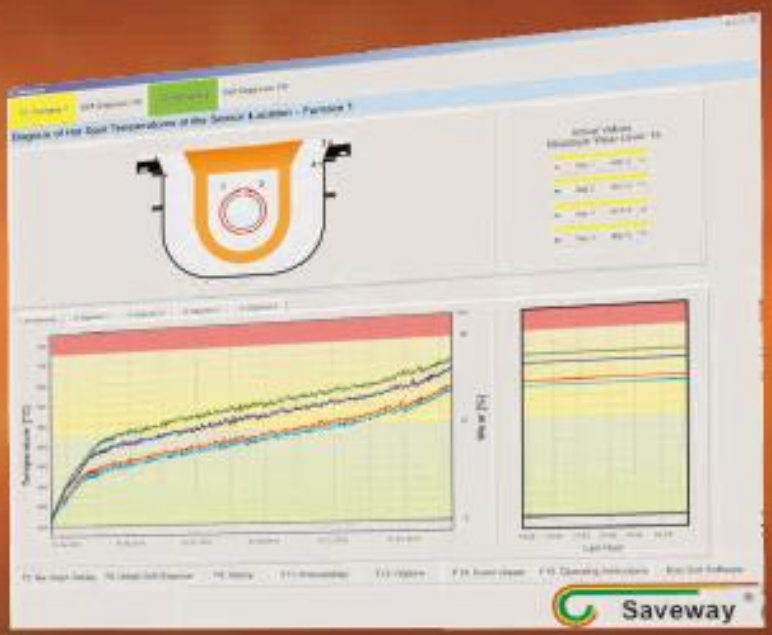
Benefits:

- Prevention of furnace damages and molten runouts
- Reduced costs for maintenance and production losses
- Optimized service life of refractory linings and components
- Increased safety for operating staff and equipment

Comprehensive measurement of hot spots

SAVELINE®

- Continuous temperature measurement between 100 °C (300 °F) and 1350 °C (2460 °F)
- Calculation of remaining lining thickness
- Comprehensive measurement of each sensor segment's highest temperature
- Localization of wear by placement of multiple sensors
- Reliable measurement in electrically conductive linings



Example:
Display for a channel induction furnace

Main fields of application:

Channel induction furnaces, porous plugs, ladles, arc furnaces, cupolas, primary metallurgy and smelting furnaces, coreless induction furnaces

Benefits:

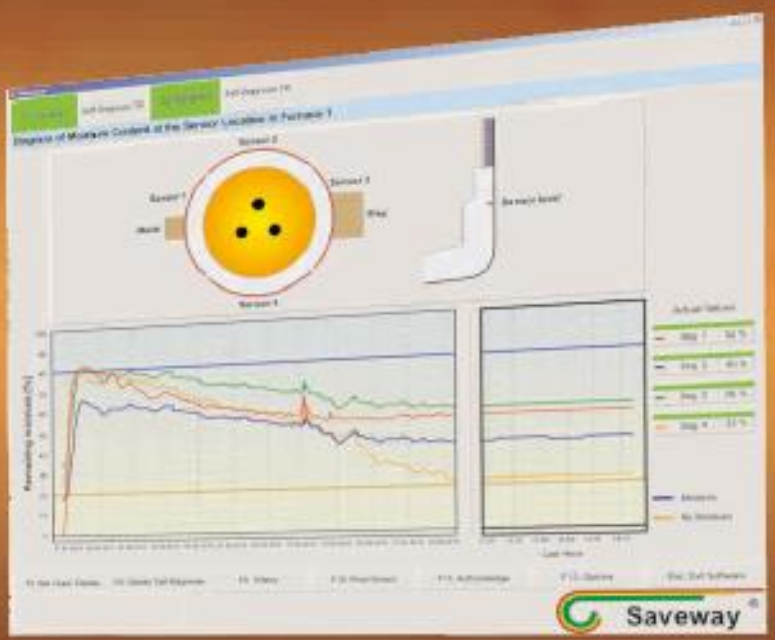
- Increased equipment uptime
- Optimized work and operating safety
- Tool for improving refractory construction and furnace handling
- Improvement of process control and documentation

Drying and leakage monitoring

SAVEDRY®

- Continuous measurement of remaining moisture in refractory linings
- Reliable detection of cooling water leakages
- Localization of moisture problems
- Reliable display of drying condition
- Monitoring of furnaces during relining, sinter heat and regular operation

Example:
Display for an arc furnace



Main fields of application:

Arc furnaces, graphitization furnaces, ladle drying, water-cooled furnace components such as tap holes, walls etc. in primary metallurgy and smelting

Benefits:

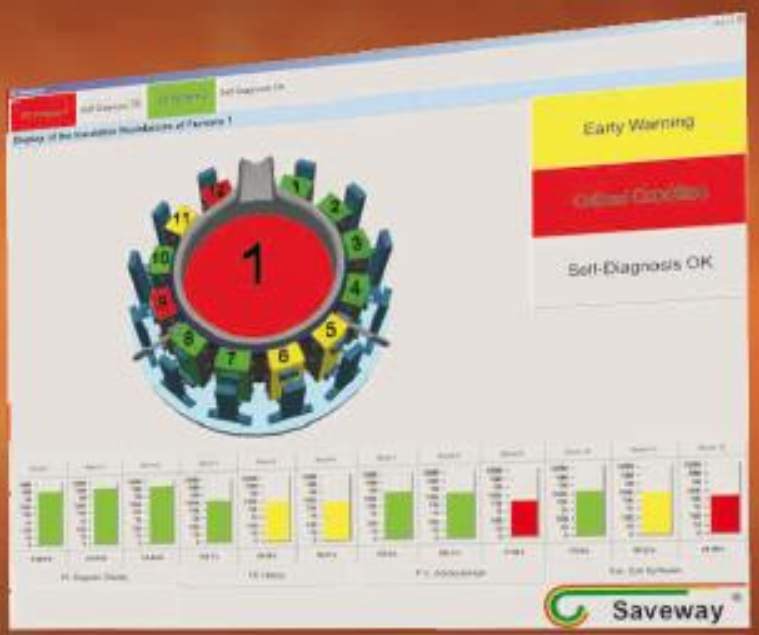
- Prevention of plant damages and furnace explosions
- Optimized sinter and drying time
- Reduced production losses and maintenance costs
- Significantly increased safety for operating staff and equipment

Monitoring of coil-shunt-insulation

SAVESEARCH®

- Separate monitoring of each shunt
- Clear localization of insulation faults
- Significantly higher ohmic measurement range compared to ground leakage indicator
- Detection of impending insulation faults
- Moisture detection in the insulation structure

Example:
Display for 12 shunts



Main field of application:

Coreless induction furnaces

Benefits:

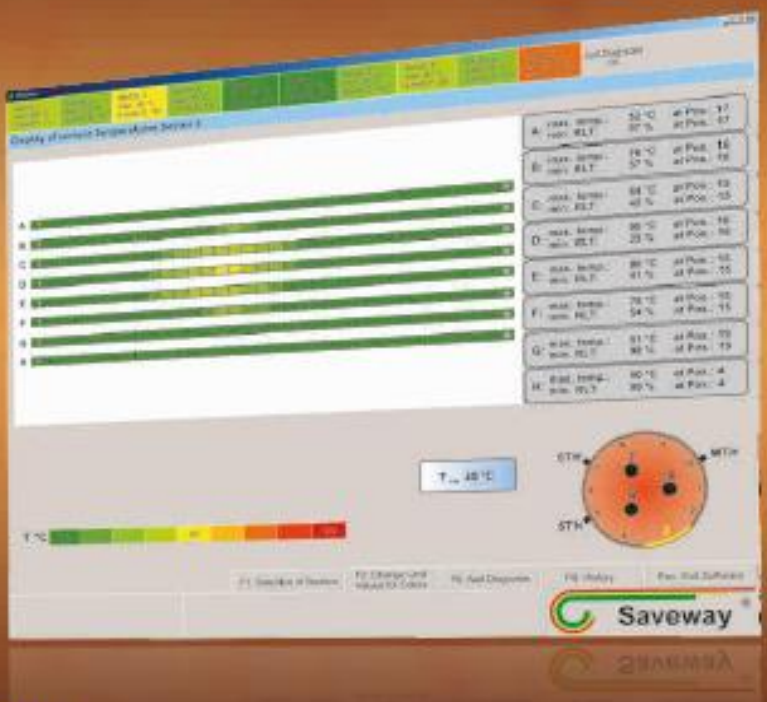
- Enormous time savings when searching for insulation faults
- Minimized production losses and maintenance costs
- Increased equipment uptime
- Preventive maintenance tool
- Optimized work and operating safety

Extensive temperature measurement

OPTISAVE F

- Continuous temperature measurement up to 600 °C (1110 °F)
- Local resolution: 0.25 m (10")
- Max. 8 sensors with sensor lengths up to 2000 m (1.25 miles)
- Up to 8000 temperature values per sensor
- Measurement not influenced by surrounding environment
- Insensitive to electric and magnetic fields
- Calculation of remaining wall thicknesses

Example:
Display for a
submerged arc furnace



Main fields of application:

Water-cooled components and surfaces, arc furnaces, melting equipment for primary metallurgy and smelting, reaction tanks, recycling smelting plants, combustion plants

Benefits:

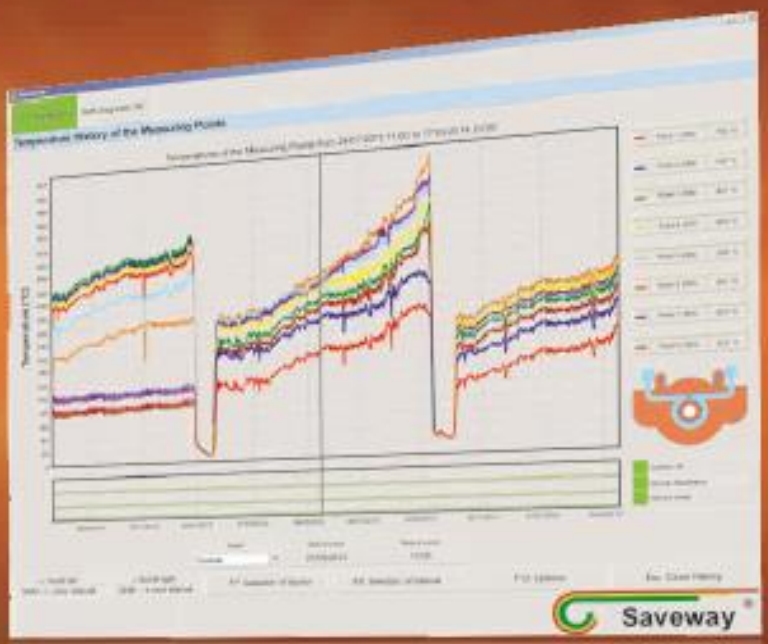
- Improved process control and documentation
- Increased equipment uptime
- Optimized work and operating safety
- Prevention of furnace damages and molten runouts

Selective temperature measurement

OPTISAVE G

- Continuous temperature measurement up to 650 °C (1200 °F)
- Punctual measurement
- Sensors with free positionable measuring points
- High measurement accuracy

Example:
Display for a
water-cooled tap hole



Main fields of application:

Equipment and components with small dimensions,
measurement tasks with high demands for local resolution

Benefits:

- Improved process control and documentation
- Increased equipment uptime
- Optimized work and operating safety
- Prevention of furnace damages and molten runouts

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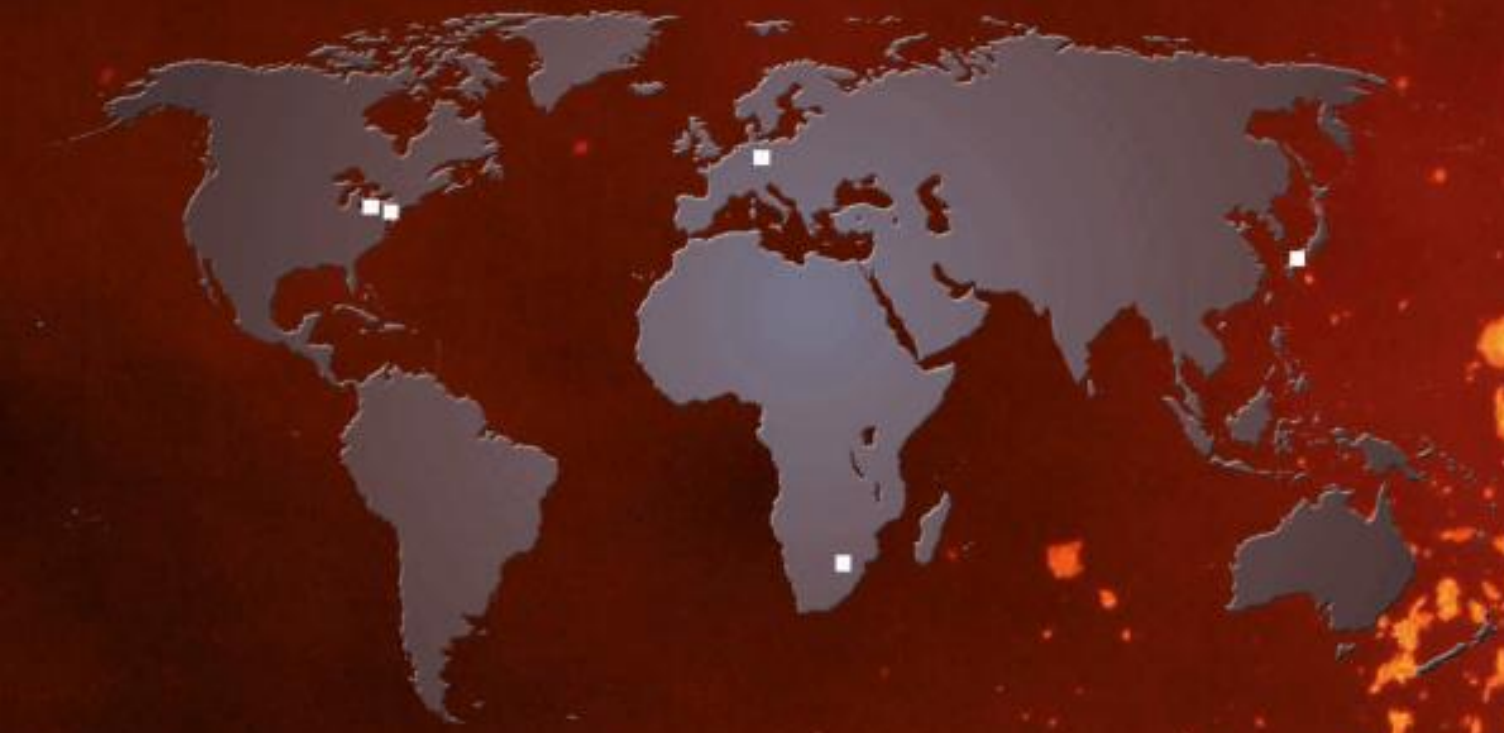

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