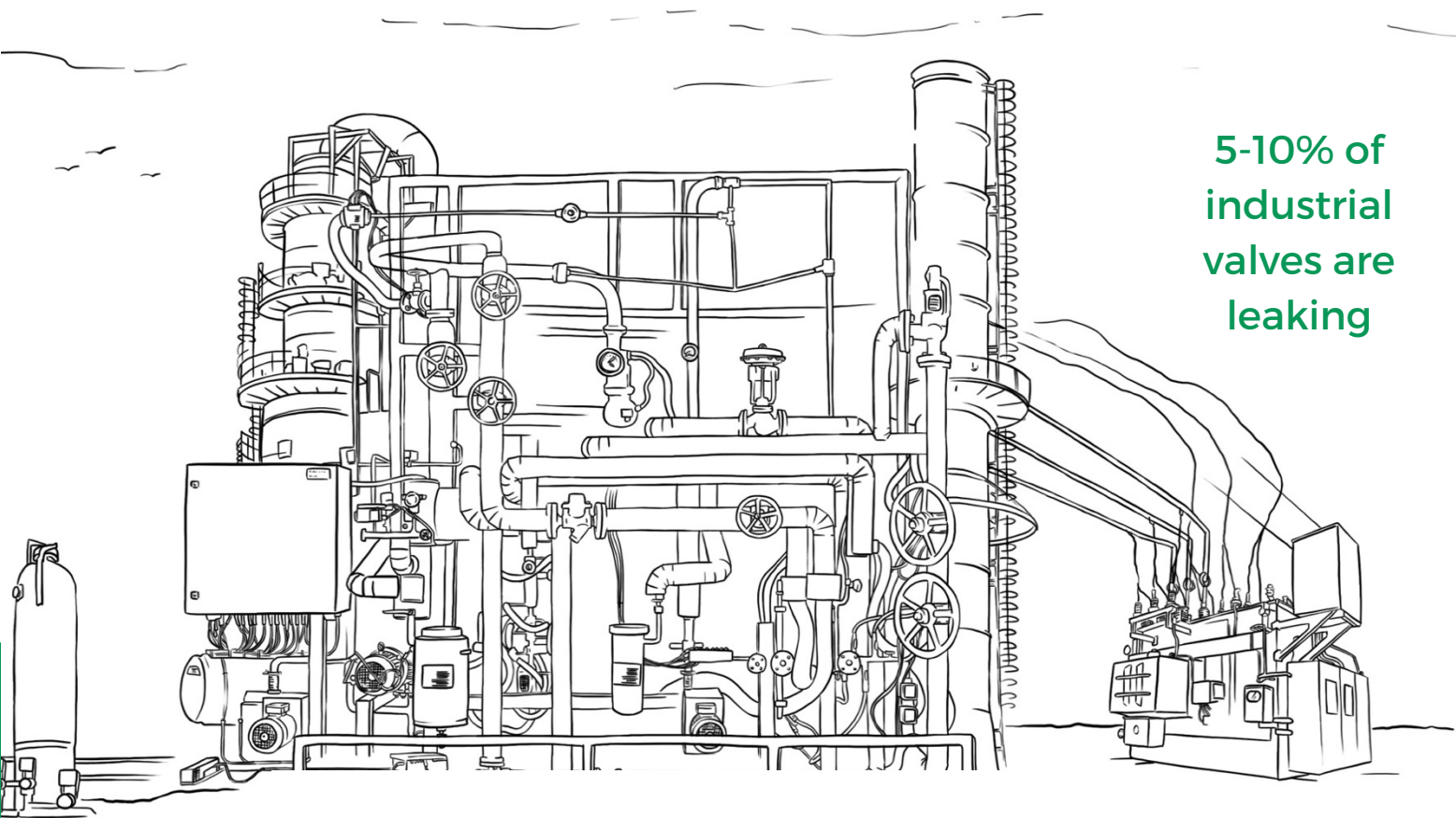


VALVE SENSE INSPECTION

FAST AND EASY LEAK DETECTION IN VALVES





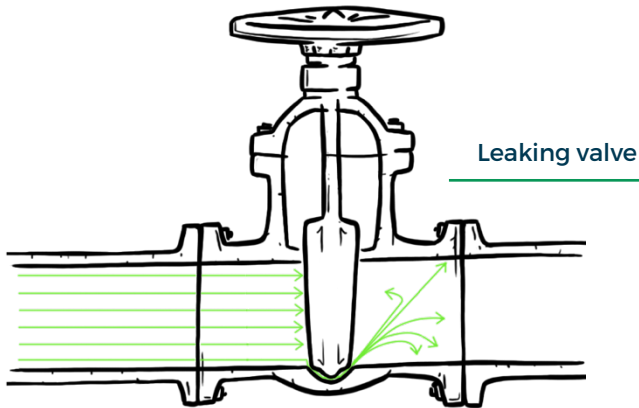
5-10% of industrial valves are leaking

START PROTECTING YOUR ASSETS TODAY

THE PROBLEM

Leaking valves in industry can lead to:

- > **Losses** (energy, steam, pressurized air, scrap, product)
- > **Risk of injury**
- > **Contamination**



Currently valves are mostly removed and tested on a test bench → This is time consuming and causes downtime.

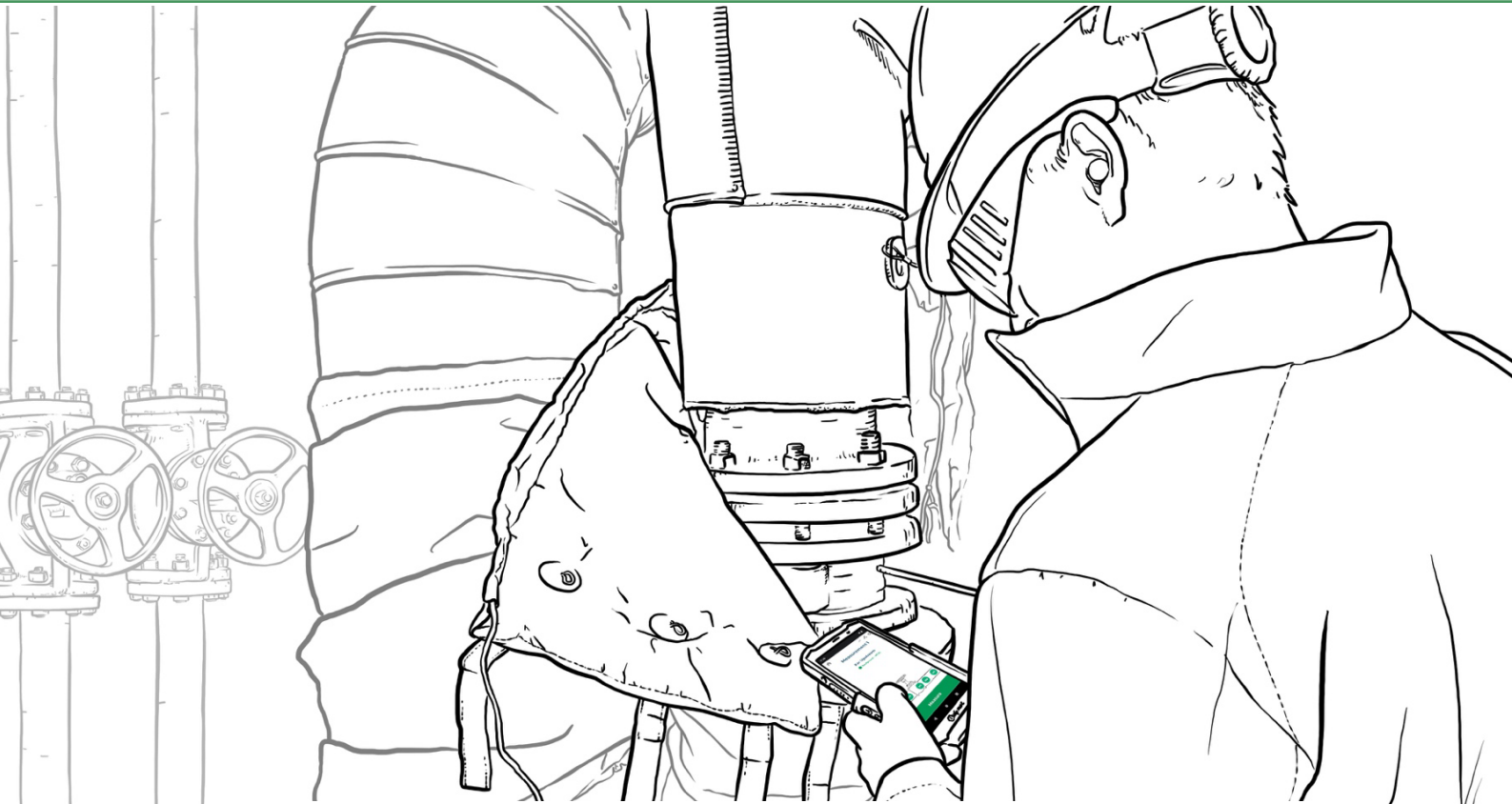
A blurred background image of an industrial facility, likely an oil or gas refinery, featuring several tall distillation columns and complex piping structures under a clear sky. The image has a warm, golden-yellow tint, suggesting a bright sun or light flare.

**VALVES ARE THEREFORE RARELY INSPECTED AND
LEAKS REMAIN UNNOTICED FOR A LONG TIME**

OUR SOLUTION

- > A smart and mobile inspection system for leak detection in valves
- > Inspect valves while process is in operation
- > Automated results immediately on site
- > All inspection data is structurally stored in a platform





IMPROVE EFFICIENCY AND REDUCE TIME & COSTS

VALVE SENSE:

EASY VALVE LEAK DETECTION



Valve Sense

Acoustic emission meets digitalization

AE sensors are connected with i.safe MOBILE's IS540.RG smartphone for industrial applications. Equipped with the Senseven App and supported by artificial intelligence

No expert knowledge necessary due to automatic leak detection

Software-guided inspection process with immediate results on site thanks to algorithms and AI



All data structurally stored



Software-guided inspection process

Automatic data synchronization

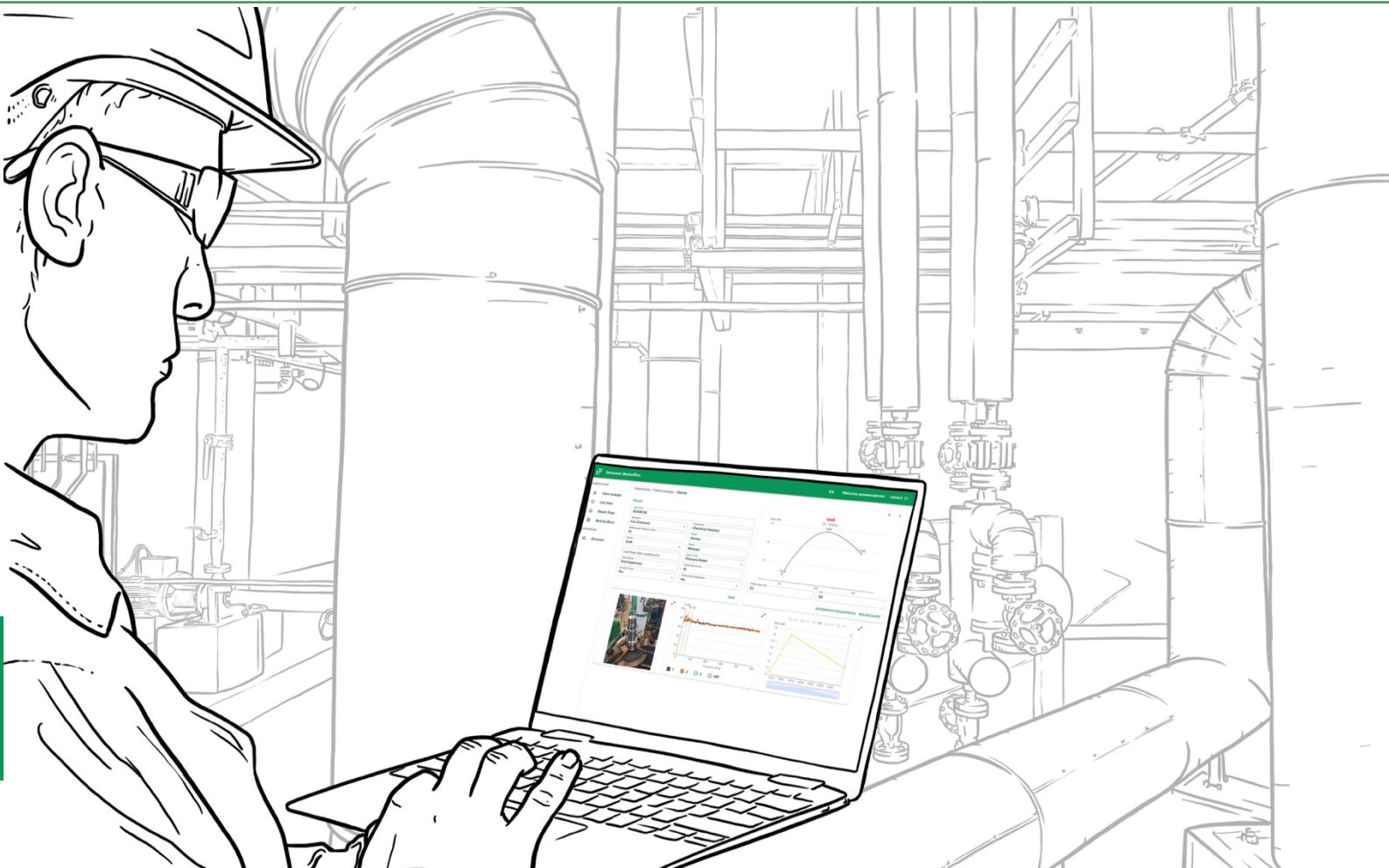
All inspection data is automatically stored in our cloud platform for further analysis and easy reporting

SENSEVEN BACKOFFICE:

Your structured web platform for all inspection data

- > Data is automatically synchronized
- > Analyze results in detail
- > Look at trends over time
- > Upload pictures
- > Add comments
- > Auto-generate reports





A CASE STUDY:



The situation:

- > Energy producer uses steam in power generation process
- > Valves need to function properly to avoid steam leakages and ensure boiler efficiency

Inspection with Valve Sense:

- > 15 valves have been inspected
- > 1 valve which was expected to be leaking was actually tight
- > 2 leaking valves were detected
- > Estimated loss: up to EUR 30,000 / year

**ELEVATE YOUR VALVE
RELIABILITY WITH
VALVE SENSE**



TECHNICAL SPECIFICATIONS

Measuring Electronic: Model MVS1A01

Analog band width	20-500kHz
Input range	90 dBAE / 100 dBAE
Sampling rate	Res.: 2 MHz / 16 bit
Power consumption	< 700 mW
Dimension	Size: 141.2 x 96.0 x 51,85 mm weight: 219.3 g
Operating temperature	Usable from -20°C to +55°C



Sensors:
IS-SU150F1.1 and
IS-SU150F2.1



Frequency range	100-450 kHz
Operating temperature	-40°C - +120°C
Dimension	22.3 x 18.2 mm 22.3 x 37.5 mm
Weight	29g 63.4g

Cable:
IS-SC120BB1.1



Length	120 cm, 2 pcs/set
Temperature range	-20°C - +60°C
Weight	20g (each)

Waveguide:
IS-WGLF1.1

Diameter	55mm
Temperature range	>120°C and < -50°C
Dimension	220 x 7 mm
Weight	89.8g



Senseven GmbH

Montleartstrasse 1b/7/14

1140 Vienna

Austria

Web: www.senseven.ai

Email: sales@senseven.ai