

An aerial night view of a city skyline, likely New York City, with numerous skyscrapers illuminated. Overlaid on the image is a complex network of glowing yellow lines that arc and intersect across the city, suggesting a global or interconnected network. The lines are most dense in the lower right quadrant, where they appear as a series of parallel streaks.

**SSI SCHÄFER**

*Think Tomorrow.*

# A STRONG GROUP



**SSI SCHÄFER**

One of the world's leading and most powerful providers of products and solutions for intralogistics and solutions for solid waste management systems.

**SCHÄFER**  
WERKE

One of the largest European companies for development, production and sale of thin steel sheet and stainless steel products.

**SCHÄFER**  
SHOP

A top supplier and mail order company for warehouse equipment and office furniture throughout Europe.



# SSI SCHAEFER – A HISTORY OF SUCCESS



**1937**

Fritz Schäfer founded his family-owned company for “factory manufacturing of sheet metal goods”.

**1953**

The revolutionary “Lager-Fix Kasten” was developed.

**1958** Plastics production began.

**1958/  
1962** Foundation of first foreign subsidiaries.

**1965** Launch of modular shelving and pallet racking.

**1970** SCHÄFER SHOP mail order business founded.

**1976/  
1977** Waste containers production began.



**2000 – 2002**

The companies Noell and Peem diversified the portfolio of SSI SCHAEFER with automation solutions and merged under the umbrella brand SSI SCHAEFER.

**2008**

Salomon Automation, an expert in software, became part of SSI SCHAEFER.

**2011 – 2018**

Purchase of Handler A/S – a Danish manufacturer of vertical lift modules.

SSI SCHAEFER acquired majority of MoTum (Belgium), an automated guided vehicle (AGV) expert.

Majority shareholder in the robotics specialist RO-BER.

Incas S.p.A., the leading Italian player in supply chain automation, becomes part of SSI SCHAEFER.

Strategic partnership and investment in the Austrian AGV specialist DS AUTOMOTION.

**TODAY**

SSI SCHAEFER is a globally active corporate group and the first point of contact worldwide for high quality intralogistics solutions for manual, partially automated and fully automated logistics centers including releasable software solutions.



# CLOSE TO CUSTOMERS WORLDWIDE

With locations across six continents, SSI SCHAEFER provides innovative concepts and solutions for our customers and combines both global and local strengths.

- 8 production sites
- Over 70 subsidiaries
- More than 11,500 employees



# WIDE RANGE OF SOLUTIONS

SSI SCHAEFER plans, designs and produces **modular storage and logistics systems** as well as solutions for **Waste Technology & Recycling**. We implement **customized general solutions** which include **Customer Service & Support** and, as one of the biggest suppliers, we offer **releasable software solutions**.



STORAGE



CONVEYING



PICKING



HANDLING



IT SOLUTIONS



GENERAL CONTRACTOR



CUSTOMER SERVICE &  
SUPPORT



WASTE MANAGEMENT &  
RECYCLING



# WASTE MANAGEMENT & RECYCLING



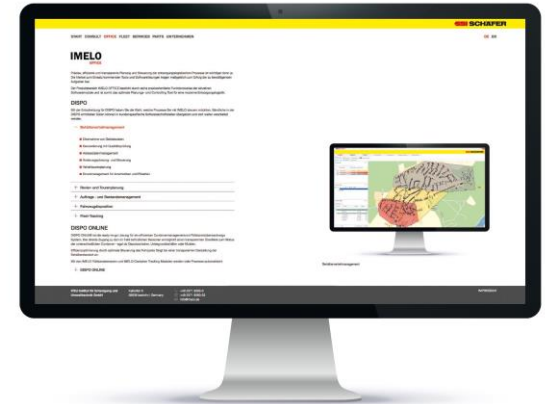
# INTELLIGENT SYSTEM SOLUTIONS FOR WASTE MANAGEMENT & RECYCLING

SSI SCHAEFER develops and manufactures containers **for collecting and transporting solid waste and in all sizes**, repeatedly tested and certified.

➤ Waste bins made of plastic with volumes of 60 up to 1,100 liters

➤ Waste bins made of steel

➤ Digital products for waste logistics



# COLLECTION OF BIODEGRADABLE WASTE – EU DIRECTIVE

- Member States shall ensure that, by 31 December 2023 and subject to Article 10(2) and (3), bio-waste is either separated and recycled at source, or is collected separately and is not mixed with other types of waste.
- From 01.01.2027, municipal biowaste that is processed in aerobic or anaerobic treatments can be considered as recycled only if it has been collected separately
- Biowaste should also only be considered 'recycled' if it is used after aerobic or anaerobic treatment as compost, fermentation product or comparable products for soil-related recovery (fertilisation, soil improvement)
- Member States should also use economic instruments and other measures to incentives for the application of the waste hierarchy (Article 4 No. 3). In addition, they should promote the use of products derived from bio-waste (recycled fertilisers) (Article 22 No. 2c).



# GENERELL INFORMATION

## 2 systems:

- Bring system
- Collection system

## Remarks:

Avoid compostable plastic bags for pre-sorting in the kitchen

## Potential of 1 ton biowaste:

- 350 – 450 Kg compost / soil improver
- 110 m<sup>3</sup> Biogas

# FACTS AND FIGURES FROM GERMANY

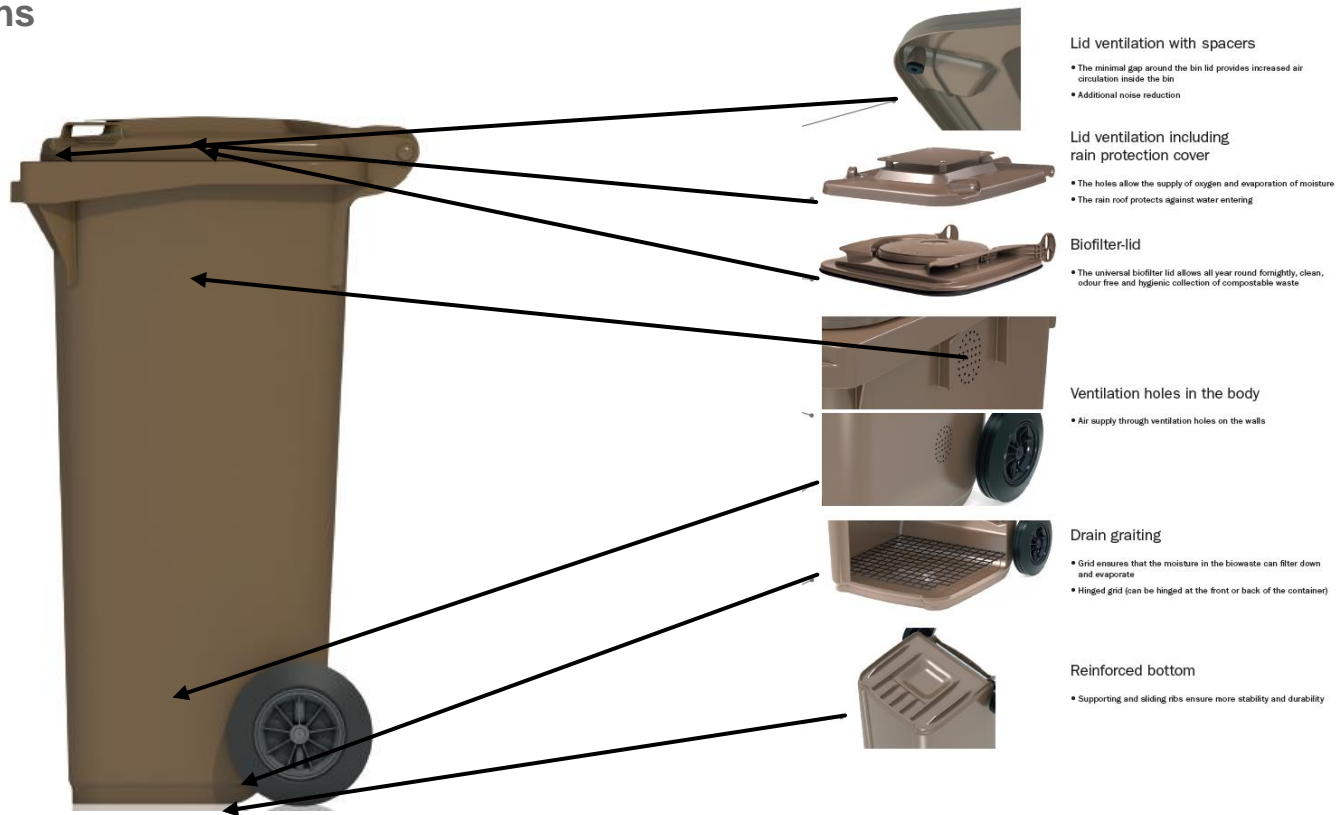
- With bin collection systems 740.000 T CO<sub>2</sub> savings / year
- 39% of the residual waste in Germany is biowaste
- More than 6 million inhabitants in Germany do not have a biobin
- 4 million inhabitants have to bring the biowaste to composting plants, recycling centers or collection points

## **Example Trier Region with a bring system**

- 19,4 Kg biowaste / inhabitant / year in 2020
- 81,9 Kg biowaste / inhabitant / year in average in Rhineland – Palatinate
- Distance from the household to the collection point in average 1,2 KM
- 12 million KM in total / year

# BIOWASTE BIN

## Several options



# ABOVEGROUND CONTAINER SYSTEM

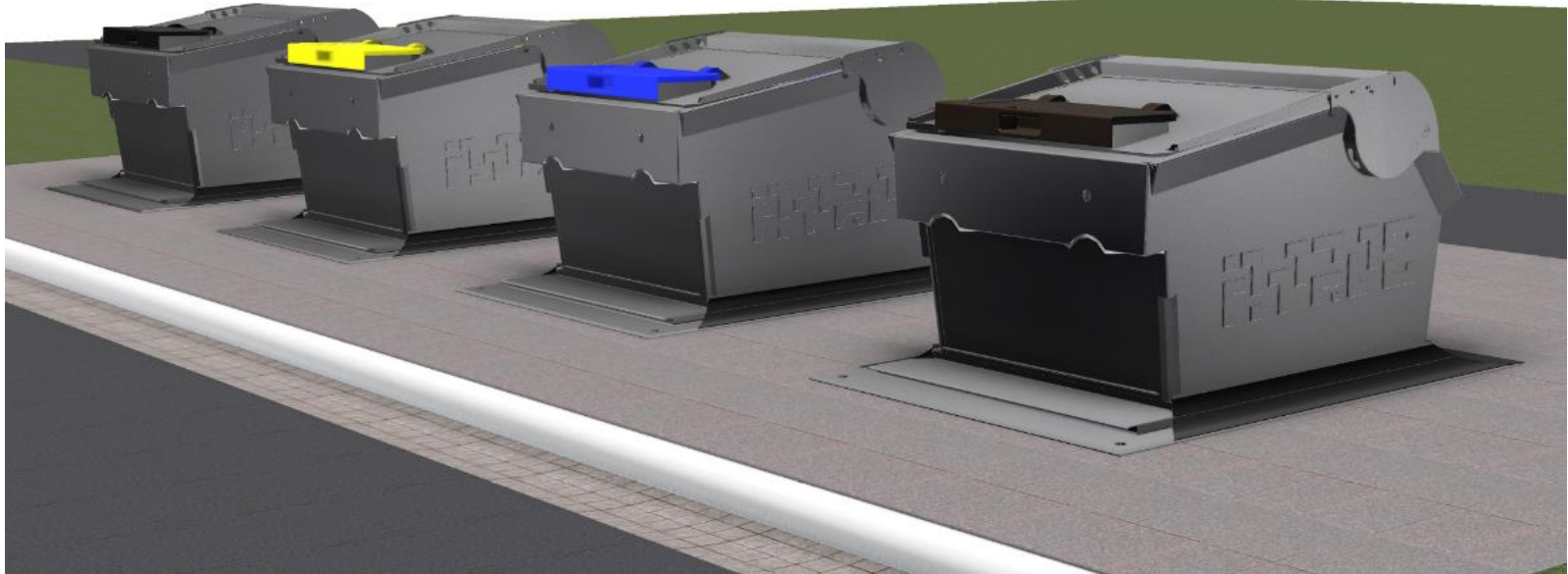




# ABOVEGROUND CONTAINER SYSTEM



# UNDERGROUND CONTAINER SYSTEM

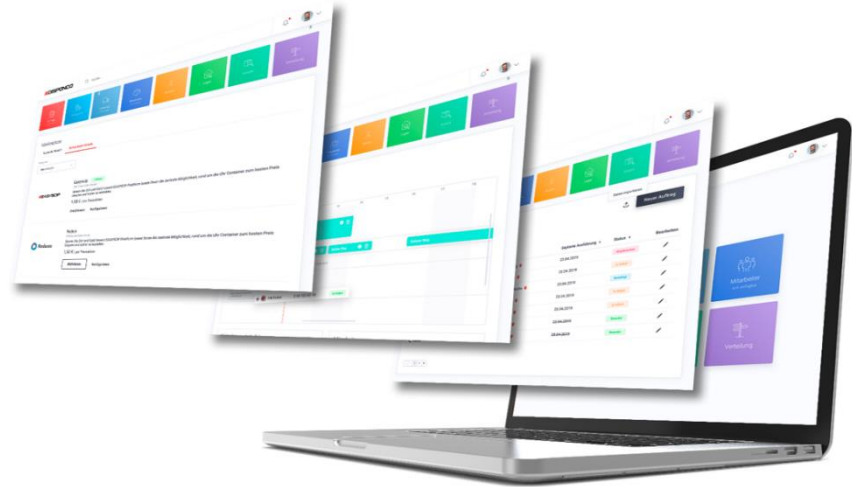


# The smart bin



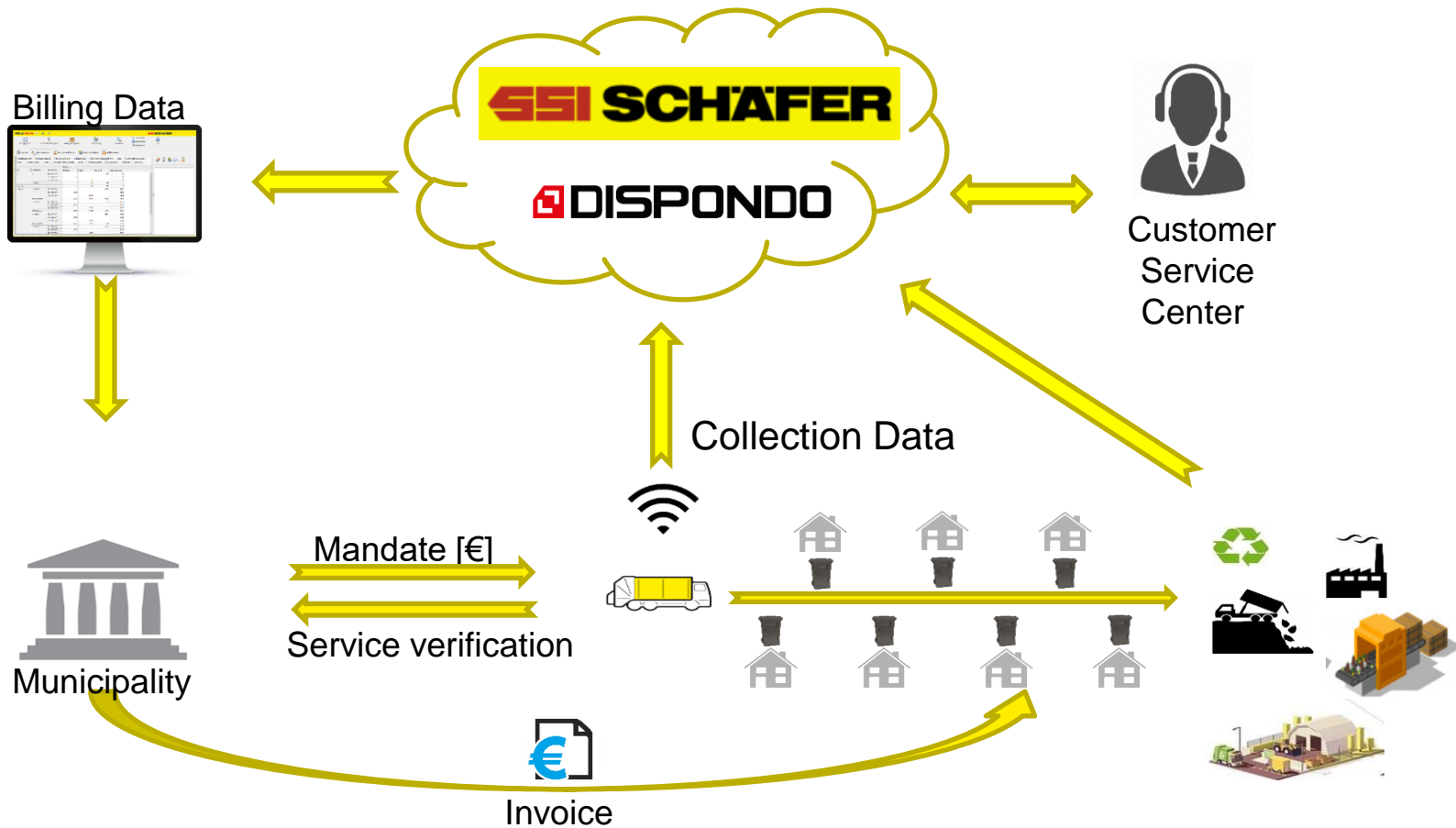
# Digital Solution for Waste Logistic

- Databank with details about:
  - Marriage of the bins (each fraction) with the geodetic location of the bins
  - Nos. of inhabitants / house respect. apartment
- Bin management system
- Truck management system
- Route optimization
- Order management
- Citizen App
- Etc.





# Waste logistic solutions i.e. Pay As You Throw



An aerial night view of a city skyline, likely New York City, with numerous skyscrapers and buildings illuminated. Overlaid on the image are several bright yellow curved lines that connect various points across the city, suggesting a network or data flow. The lines are most prominent in the foreground and middle ground, creating a sense of dynamic connectivity.

# THANK YOU!

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