

# Cognitive Services for Restaurants

Self-Checkout & Object Recognition

**Simplify and expedite the checkout process**

*AI can recognize meals and groceries effortlessly, sending the list directly to the cashier's machine. Shorten queues and wait times, elevating customer satisfaction.*

# Cognitive Services for Restaurants

## Self-checkout & Object Recognition

- **Self-Checkout:**
  - Camera recognizes meals and groceries
  - Recognized items are sent to the POS terminal
- **Complete Solution:**
  - Integration with Simpra
  - Includes POS, payment functionalities, and more
- **Easy Installation:**
  - Requires PC or active online subscription and camera
  - Simpra + POS / integration

➤ **Enhances Customer Satisfaction**



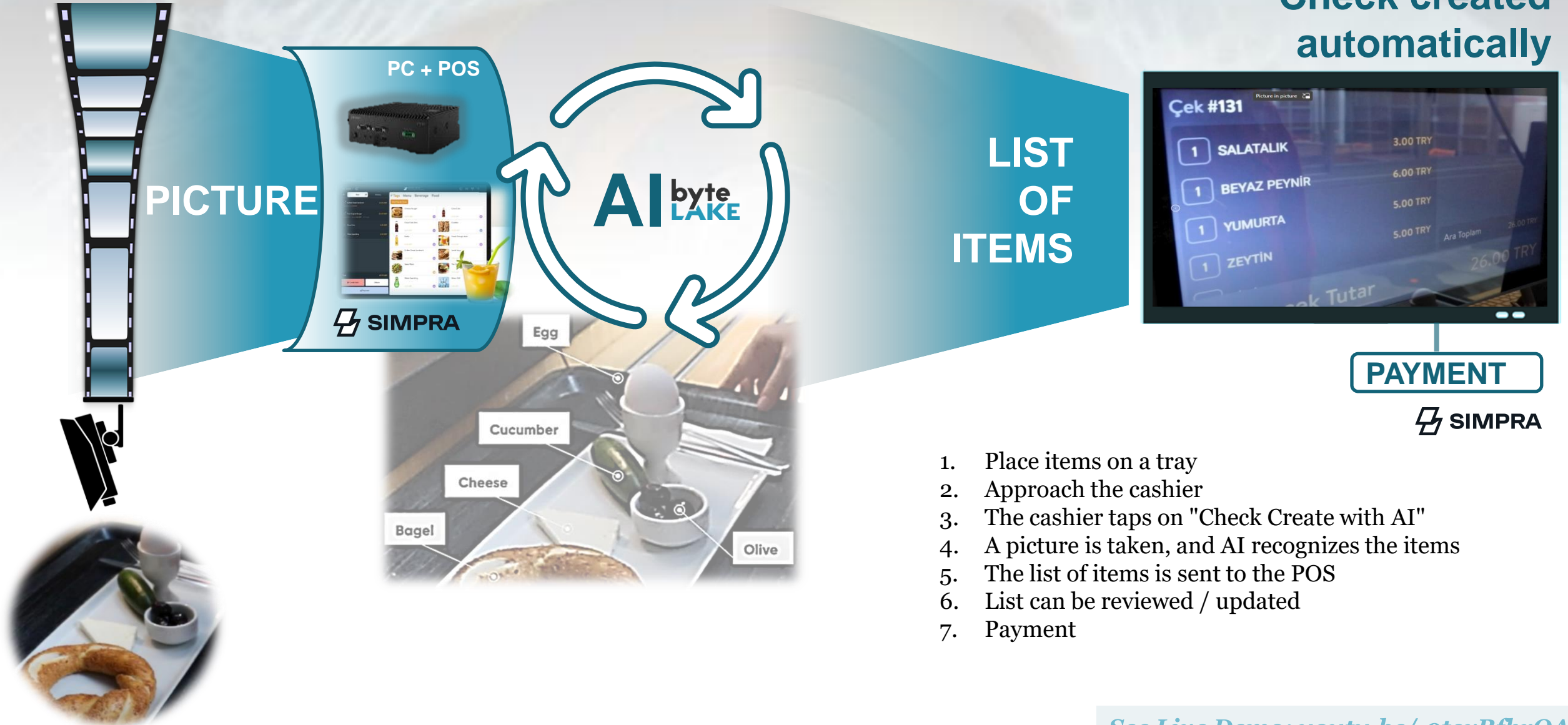
Watch on YouTube: [youtu.be/FZmfGUyvZtk](https://youtu.be/FZmfGUyvZtk)

Learn more: [bytelake.com/en/AI4Restaurants](https://bytelake.com/en/AI4Restaurants)

# Self-checkout for Restaurants

## Local AI Installation

Check created  
automatically



1. Place items on a tray
2. Approach the cashier
3. The cashier taps on "Check Create with AI"
4. A picture is taken, and AI recognizes the items
5. The list of items is sent to the POS
6. List can be reviewed / updated
7. Payment

# Self-checkout for Restaurants

## Online Subscription AI Installation

Check created  
automatically



# Integrated with Simpra

## New Generation Restaurant, Hotel and Payment Solutions



Restaurant Management

### Made Easy with Simpra Suite!

## • Key Features

- POS System
- Stock Tracking Program
- Customer Loyalty Program
- QR Menu Order
- Mobile Reporting
- Table Reservation System
- Kitchen Display System
- Waiter Order Module
- Delivery Service
- Various Integrations

**On the boss's mobile**

**Insight**

**Loyalty\***

**Inventory**

**On your tablet or mobile**

**SimpraPOS**

**On the mobile of the loyal customer**

**At Home or at Work**

Item Name	Unit	Current Price	Current Qty	Current Value	Current Price	Current Qty	Current Value	Current Price	Current Qty	Current Value
Americano	5	9,000	10.00	8,575	8,000	9,000	8,575	8,000	8,575	8,575
Berks	5	3,140	10.00	3,238	8,000	17,000	16,190	17,000	2,000	2,000
Berks Burger	2	28,000	10.00	26,647	8,000	16,000	53,333	16,000	4,667	4,667
Bottled Water	5	7,000	10.00	6,647	8,000	7,000	6,647	8,000	17,143	17,143
Capuccino	2	9,000	10.00	8,575	8,000	18,000	17,143	8,000	17,143	17,143
Chocolate Original	8	17,000	10.00	16,296	8,000	136,000	114,286	8,000	136,000	114,286
Coca Cola	3	17,000	10.00	6,000	8,000	17,000	6,000	8,000	33,333	33,333
Coca Cola Light	3	18,000	10.00	9,524	8,000	28,000	28,571	8,000	28,571	28,571
Coca Cola Zero	18	18,000	10.00	9,524	8,000	108,000	95,238	8,000	108,000	95,238
Double Cheeseburger	3	20,000	10.00	22,223	8,000	100,000	100,000	8,000	100,000	100,000
Espresso	2	7,000	10.00	6,575	8,000	10,000	17,143	8,000	17,143	17,143

(\* ) Not Available in the U.S.

Learn More: [simprasuite.com](https://simprasuite.com)

simprasuite.com

# Benefits

## offered by byteLAKE's Cognitive Services for Restaurants



### 1. Payment Automation

- AI-powered self-checkout.
- Option for manual review and updates.

### 2. Enhanced Customer Satisfaction

- Shortened queues and wait times.
- High accuracy with close to zero errors.

### 3. Innovative Solutions

- Brings innovation to every restaurant.
- Integrated with Simpra.
- Available as a complete solution, including payment.

### 4. Flexibility and Integration

- Compatible with various POS terminals.
- Option to integrate with local services.
- Easy expansion of AI capabilities for different retail scenarios.

### 5. Stability and Performance

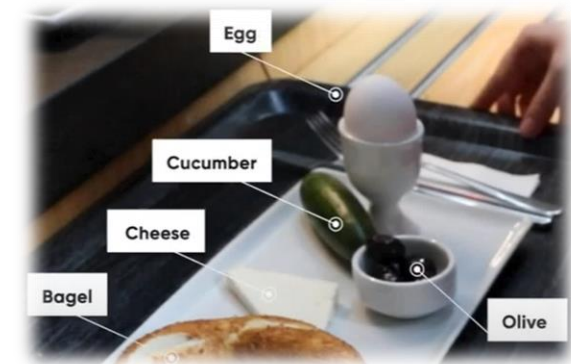
- High performance and stability guaranteed.
- **Choose between offline and online subscription options for flexible access.**

### 6. Cost-Efficiency

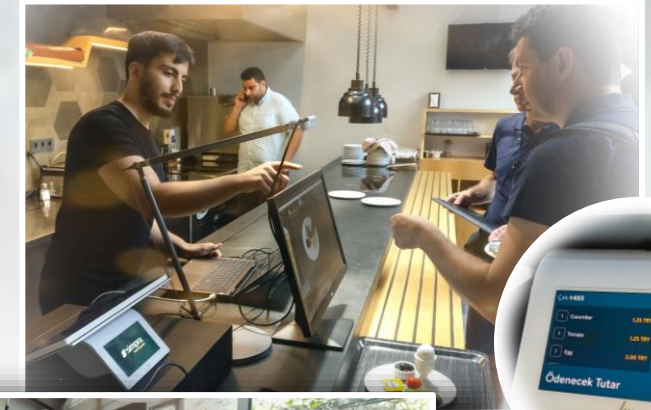
- Transparent, flat-rate pricing.
- No hidden costs or external dependencies.

### 7. Quick Deployment

- Faster service leads to increased sales and revenue.
- Reduces manual work and operational costs.



# Case Study



- ✓ Enabled efficient self-checkout
- ✓ Reduced queues and wait times
- ✓ Improved customer satisfaction

byteLAKE's

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LAKE

# Cognitive Services for Restaurants





# Deployment & Licensing

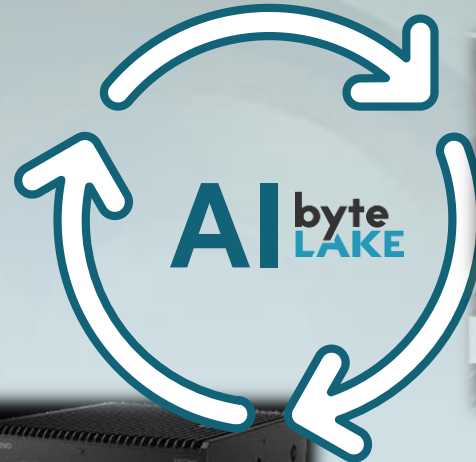
byteLAKE's Cognitive Services

# Cognitive Services for Restaurants

## Self-checkout (Local AI Installation)



EDGE AI



Data

Information

POS



INVENTORY

PAYMENT

SIMPRA



- Items on Tray
- Camera Takes Picture

- Items Recognized by AI

- Check Created Automatically
- Payment

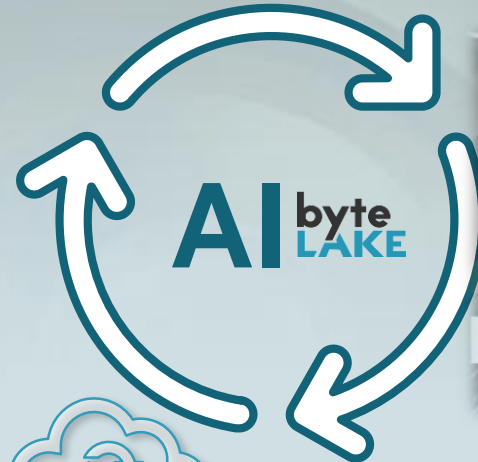
# Cognitive Services for Restaurants

## Self-checkout (Online Subscription AI Installation)



Camera Connected  
Directly to POS

Cognitive Services for Restaurants Cloud Service



Active  
Subscription

byte  
LAKE AI Model

Data

Information

POS



INVENTORY

PAYMENT

SIMPRA



- Items on Tray
- Camera Takes Picture

- Items Recognized by AI

- Check Created Automatically
- Payment

# How to Start - first steps in the project

## Cognitive Services

### 1. Scenario Explanation

- Provide example pictures, videos, or other relevant data.
- Conduct online consultations or arrange in-person meetings as needed.

### 2. Initial Data Insights

- Explain your data, including types, ranges, and dependencies.
- Identify unusual scenarios or exceptions.
- Determine if historic data is available and note any gaps.
- Discuss data storage methods and assess the need for changes or improvements.
- Share sample data with us.

### 3. Online Q&A Session

- Conduct an online Q&A session to address questions about the presented data and scenario.

### 4. Deployment Plan and Schedule

- Present a detailed deployment plan and schedule prepared by byteLAKE.



# Licensing & Cost of Deployment

## Cognitive Services

- **Licensing**

- Annual/monthly licensing plans for Cognitive Services, including upgrades, customer care, and support.

- **AI Model Development**

- Costs for AI model training and calibration.

- **Data Management**

- Expenses related to data collection and cleaning.

- **Hardware and Software**

- Hardware costs, including PCs and sensors, as well as any associated licenses.
- Installation expenses.

- **Integration and Deployment**

- Integration efforts as required for successful deployment.



# Meet byteLAKE

AI Solutions for Industries |  
Quality Inspection |  
Data Insights |  
Predictive Maintenance |  
AI-accelerated CFD |  
Self-Checkout

Empowering Industries with Artificial Intelligence Solutions.

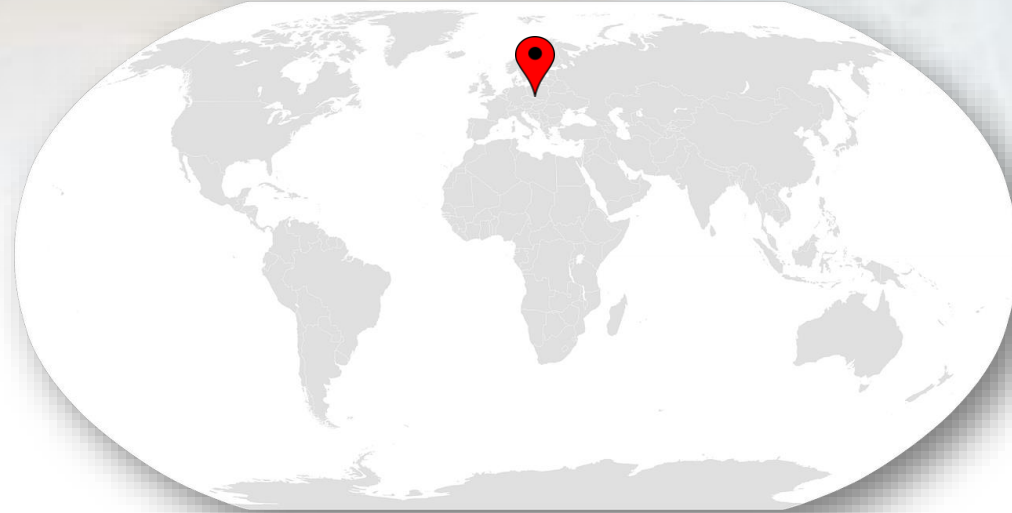
At byteLAKE, we harness cutting-edge technology to provide advanced quality inspection and data insights tailored for the Manufacturing, Automotive, Paper, Chemical, and Energy sectors.

Additionally, we offer self-checkout stations for Restaurants and object recognition solutions for Retail businesses.

[www.byteLAKE.com](http://www.byteLAKE.com)

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## Headquartered in Poland

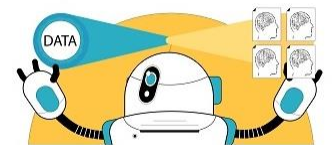


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## Products:



CFD Suite



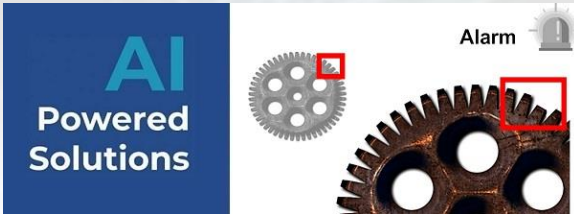
Cognitive Services

# byteLAKE's AI Products



## Cognitive Services

Advanced quality inspection and data insights.



for Manufacturing



for Automotive



for Paper Industry

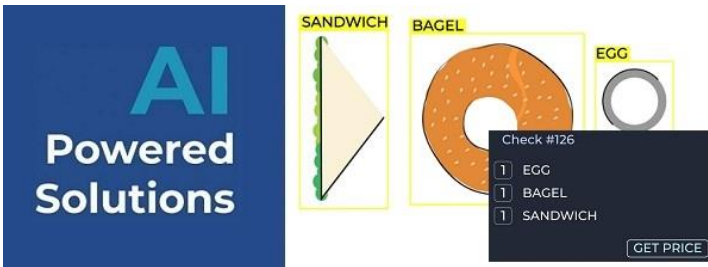
## Predictive Maintenance



Data Insights

## Cognitive Services for Restaurants

Self-checkout and object recognition.



## CFD Suite

AI-accelerated Computational Fluid Dynamics.

