

UNIVERSITY HOSPITAL ERLANGEN · CASE STUDY

Utilization of remote parking areas increased from 80 to 98%

How University Hospital Erlangen solved its parking shortage with ParkEfficient, relieved doctors and nursing staff, and made a measurable contribution to sustainability at the same time.



INDUSTRY

Healthcare · University Hospital

LOCATION

Erlangen, Bavaria

TIMEFRAME

Pilot phase 2022

+158 %

More employees with parking access (Area 1: fixed assignment)

+244 %

More employees with parking access (Area 2: algorithm pool)

80→98 %

Utilization of remote parking areas

OVERVIEW

University Hospital Erlangen at a glance

CUSTOMER

University Hospital Erlangen

INDUSTRY

Healthcare · University Hospital

LOCATION

Erlangen, Bavaria

TIMEFRAME

Pilot phase 2022

PILOT AREAS

2 areas · 170 spaces total

SOLUTION

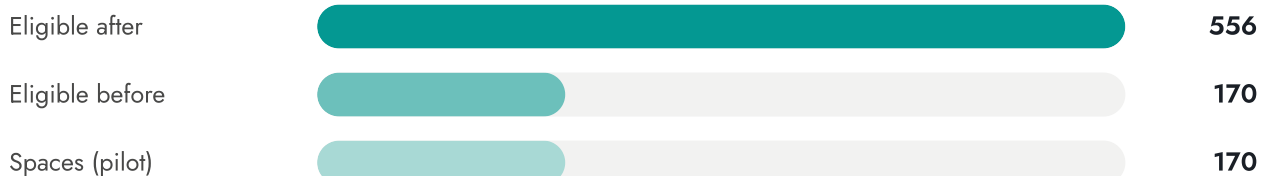
ParkEfficient

PILOT PHASE BY THE NUMBERS

Key figures at a glance

Metric	Value
Total pilot areas	2 areas
Parking spaces (pilot)	170
Eligible employees before	170 staff
Eligible employees after	556 staff
Utilization before	80%
Utilization after	98%

Parking spaces vs. eligible employees compared



Same number of parking spaces, but 3.3x more employees with parking eligibility

THE STARTING POINT

Parking shortage and growing sustainability requirements

University Hospital Erlangen faced a dual challenge: a shortage of parking for doctors and nursing staff caused daily stress and search traffic, while remote parking areas were underused at the same time. Utilization stood at just 80%.

Added to this was a strategic goal: making sustainability a permanent part of corporate governance — including a measurable reduction of car traffic on the hospital grounds.

01 INTRODUCTION

Sustainability as a strategic priority

"Sustainability" is the buzzword of the 21st century. For University Hospital Erlangen, it is not an abstract concept but lived practice. The European Commission plans to introduce mandatory sustainability reporting as part of the management report starting with fiscal year 2023.

For the hospital, that means: reducing emissions, saving energy, and limiting car traffic on the grounds to the necessary minimum. Parking management thus became a strategic lever.



SUSTAINABILITY CONTEXT

The European Commission is introducing mandatory sustainability reporting starting with fiscal year 2023. ParkEfficient helps hospitals and companies measurably reduce parking traffic and the resulting CO₂ emissions, and document that contribution.

"Sustainability plays an increasingly important role at our hospital. Naturally, this involves the big topics of 'saving energy', 'reducing emissions', and consequently also limiting car traffic to the necessary minimum."

Johannes Eissing, Press Spokesperson, University Hospital Erlangen

02 CHALLENGES

Challenges before introducing ParkEfficient

University Hospital Erlangen faced these concrete challenges:



No transparency

Employees had no way of knowing whether a free parking spot would be waiting for them in the morning.



Daily parking stress

Doctors and nursing staff lost time every day searching for a parking spot.



Low area utilization

Remote parking areas were only 80% utilized, despite existing demand.



High search traffic

Unnecessary search traffic on the hospital grounds increased CO₂ emissions and noise.



No digital allocation system

First-come, first-served with no algorithm: unfair, inefficient, and hard to manage.



Growing sustainability obligations

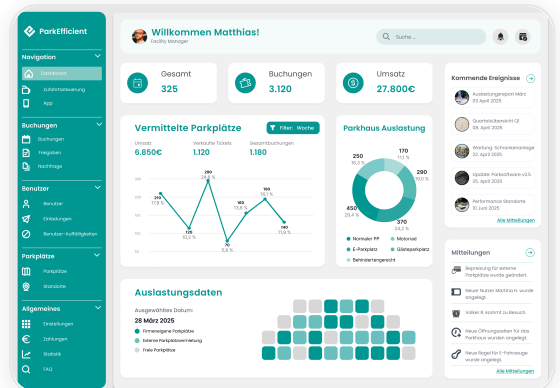
EU reporting requirements from 2024 demand verifiable measures to reduce emissions.

03 THE SOLUTION

Smart parking management across two pilot areas

University Hospital Erlangen rolled out ParkEfficient in a structured pilot phase across two different parking types. The goal was to maximize utilization without creating additional space.

The smart allocation algorithm accounts for hierarchy levels and priorities. Employees know the evening before exactly where their spot will be waiting the next morning — a stress-free commute instead of a parking search.



Model A · Fixed assignment

Optional release when absent

- Fixed spot per employee**
33 spaces, permanently assigned.
- Released when absent**
Automatically released when not needed.
- Result: 158% more staff**
33 spaces, 85 employees eligible.

Model B · Algorithm pool

Smart allocation from a shared pool

- Pool of 137 spaces**
No fixed spot — the algorithm decides fresh every day.
- Hierarchy & priorities**
Allocation based on configurable rules and groups.
- Result: 244% more staff**
137 spaces, 471 employees eligible.

HOW THE PROCESS WORKS

From evening check-in to a stress-free commute



The result: employees know the evening before where their spot will be waiting the next morning. No search traffic, no frustration — and a measurable contribution to the hospital's sustainability strategy at the same time.

04 BEFORE / AFTER COMPARISON

Pilot phase by the numbers

PILOT AREA 1 Fixed assignment with optional release (33 spaces)

BEFORE · FIRST-COME, FIRST-SERVED

33

Employees with access



+158 %

more
eligible

AFTER · OPTIONAL RELEASE

85

Employees with access

PILOT AREA 2 Algorithm-driven allocation from a shared pool (137 spaces)

BEFORE · FIRST-COME, FIRST-SERVED

137

Employees with access



+244 %

more
eligible

AFTER · ALGORITHM POOL

471

Employees with access

05 RESULTS & OUTCOMES

Results & outcomes

The rollout of ParkEfficient led to measurable improvements at University Hospital Erlangen:

80→98 %

Utilization of remote parking areas that were previously chronically underused.

+158 %

More employees with parking access on Area 1, without building any new spaces.

+244 %

More employees with parking access on Area 2 (algorithm pool).

↓ CO₂

Employee search traffic significantly reduced, with a noticeably smaller environmental footprint.

Stress ↓

Employees know in the evening where a free spot will be waiting for them the next morning.

"Parking shortage is no longer a major issue for us. Employees know in the evening where a free spot is reserved for them the next morning. That has allowed us to raise the utilization of remote parking areas from 80% to 98%."

Johannes Eissing, Press Spokesperson, University Hospital Erlangen

06 CONCLUSION

More efficient space use and greater sustainability, with no new parking spaces

With ParkEfficient, University Hospital Erlangen was able to improve its parking management simply and effectively, while strengthening the hospital's sustainability strategy at the same time. Across two pilot areas totaling 170 spaces, the number of eligible employees rose from 170 to 556. Utilization of remote parking areas improved from 80% to 98%.

The software was quick to implement, and is modular, extensible, and customizable. The solution can be applied to any organization facing similar challenges, whether hospitals, industrial sites, or corporate campuses.

CLOSING QUOTE

"We want to help ensure that scarce space in city centers and at businesses is used optimally and sustainably."

Dr. Konstantin Wilms, Managing Director of ParkEfficient GmbH

[Book a demo now](#)

Digital parking management: fair, simple, efficient

ParkEfficient GmbH provides digital parking management solutions for companies and real estate firms across the DACH region. Since 2017, we have helped facility managers, asset managers, and businesses run their parking areas more efficiently, fairly, and sustainably.

With over 300 customers and more than 10 million managed parking events per year, we are among the leading solution providers in the German-speaking region.

fair · digital · stress-free

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ParkEfficient

Parkplatzmanagement · fair · digital · stress-free

OfficeEfficient

Workplace management · intuitive · connected · secure

AssetOS

Parking monetization · transparent · profitable

300+

Customers

+1 Mio.

Parking events / month



Rule-based algorithm

Weighs priorities, time slots, and departments simultaneously for fair, automatic allocation.



Maximum space utilization

Adaptive allocation models significantly increase utilization, with no need for new space or construction.



Certified accessibility

Audited to WCAG 2.2-AA & EN 301 549. Awarded the WACA certificate. Accessibility was part of the development from day one.



Seamless integration

Compatible with barriers, license plate recognition, EV charging stations, and existing HR or FM systems.



Real-time dashboard

Full transparency into utilization, usage patterns, and peak times, available to administrators at any time.



GDPR & ISO 27001

Certified data security with servers hosted in Germany, meeting the highest compliance standards.