

Why Low-Code?

Low-Code is TOP Priority

TOP 3

Priority for US CIOs in 2025

Source: Gartner

88%

of developers use low-code

Source: Forrester

5X increase

In LCAPs for critical projects

Source: Gartner

CIO의 가장 큰 고민

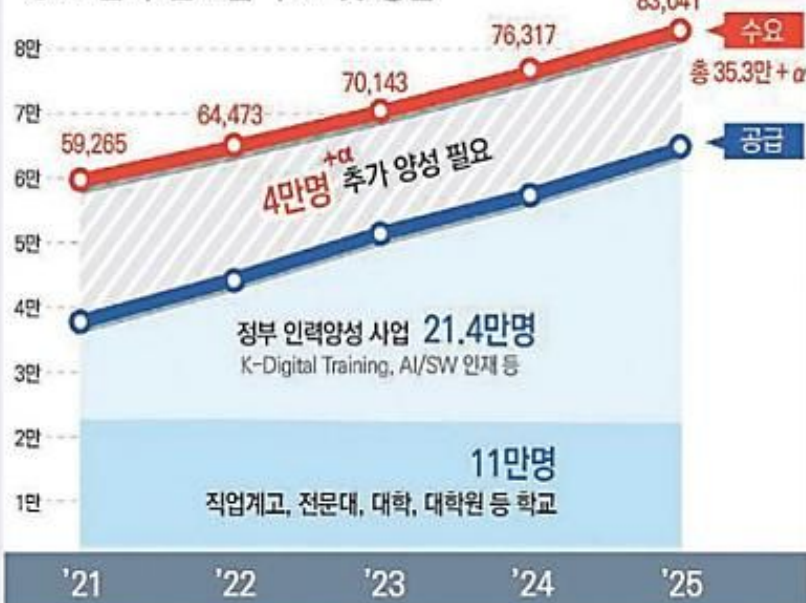
개발자 부족 현상

1,200,000명 이상

Unfilled Software Engineer positions,
by 2026 (미국)

국내의 개발자 부족 현상에 대해서

SW 인력 연도별 수요 및 공급



SW 인력 수준별 수요 및 공급



Traditional Code

```
int LongestCommonSubsequenceLength( const std::string &first,
                                     const std::string &second ) {
    const std::string &longer = first.size() > second.size() ? first : second;
    const std::string &shorter = first.size() > second.size() ? second : first;

    int longer_len = longer.size();
    int shorter_len = shorter.size();

    std::vector<int> previous( shorter_len + 1, 0 );
    std::vector<int> current( shorter_len + 1, 0 );

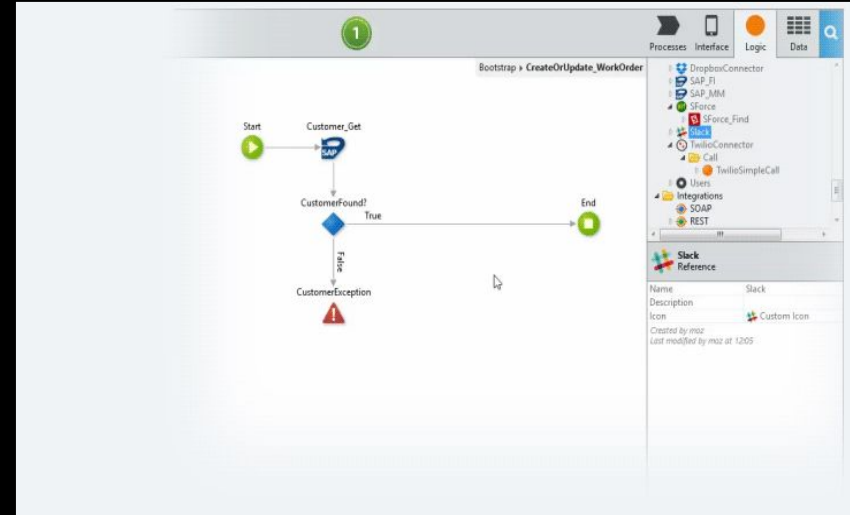
    for ( int i = 0; i < longer_len; ++i ) {
        for ( int j = 0; j < shorter_len; ++j ) {
            if ( toupper( longer[ i ] ) == toupper( shorter[ j ] ) )
                current[ j + 1 ] = previous[ j ] + 1;
            else
                current[ j + 1 ] = std::max( current[ j ], previous[ j + 1 ] );
        }

        for ( int j = 0; j < shorter_len; ++j ) {
            previous[ j + 1 ] = current[ j + 1 ];
        }
    }

    return current[ shorter_len ];
}
```

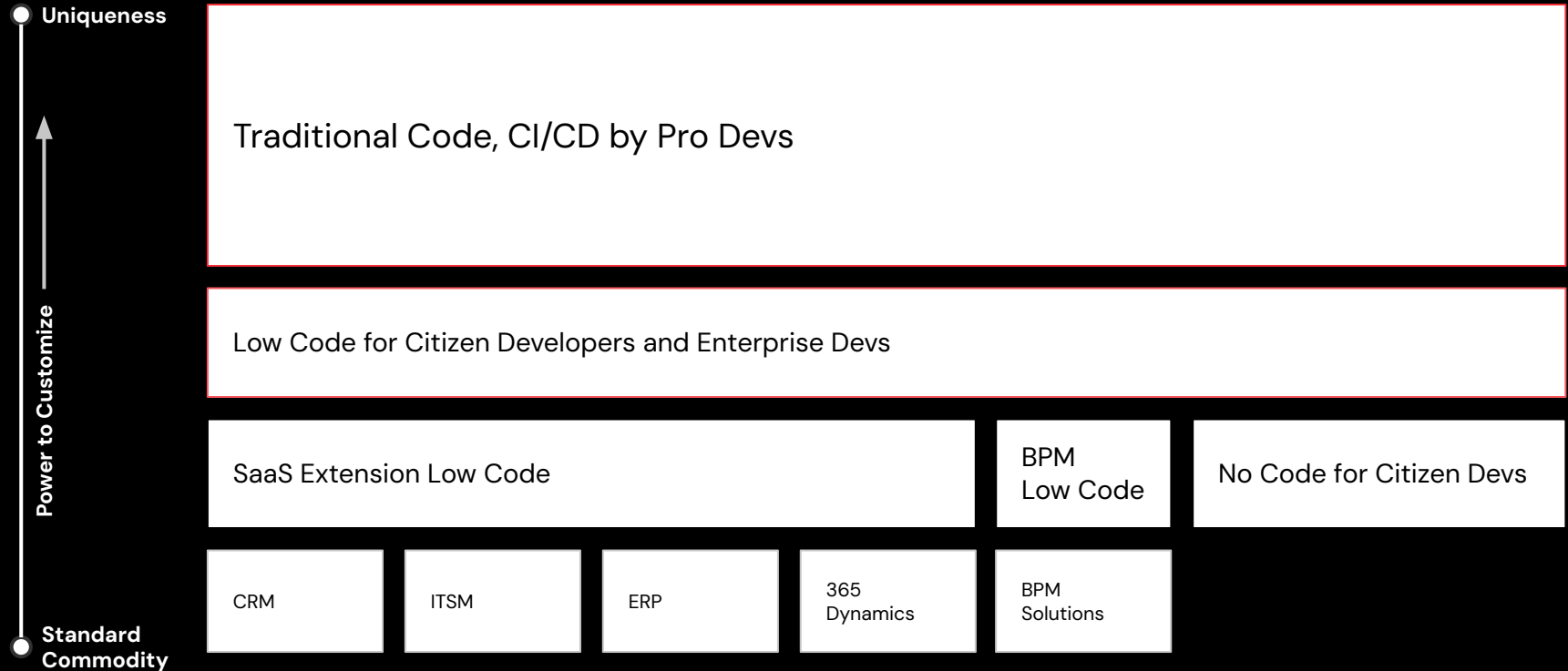
- 개발비용 높음
- 개발의 장기화
- 내용 변경이 어려움
- 엔지니어 스킬 의존 높음

Low-Code

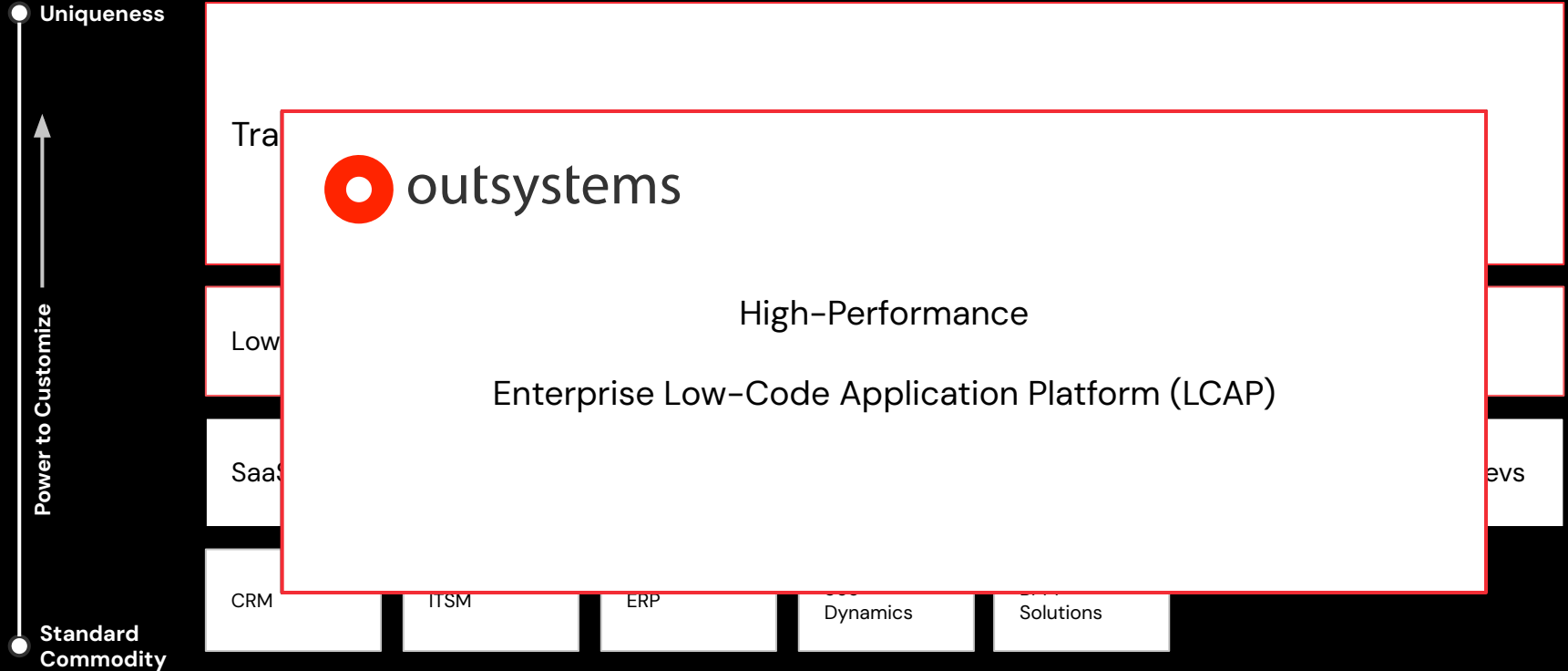


- 시각적이고 직관적인 고속 개발
- 내용 변경이 용이
- 엔지니어 업스킬 쉬움
- 코드 자동 생성

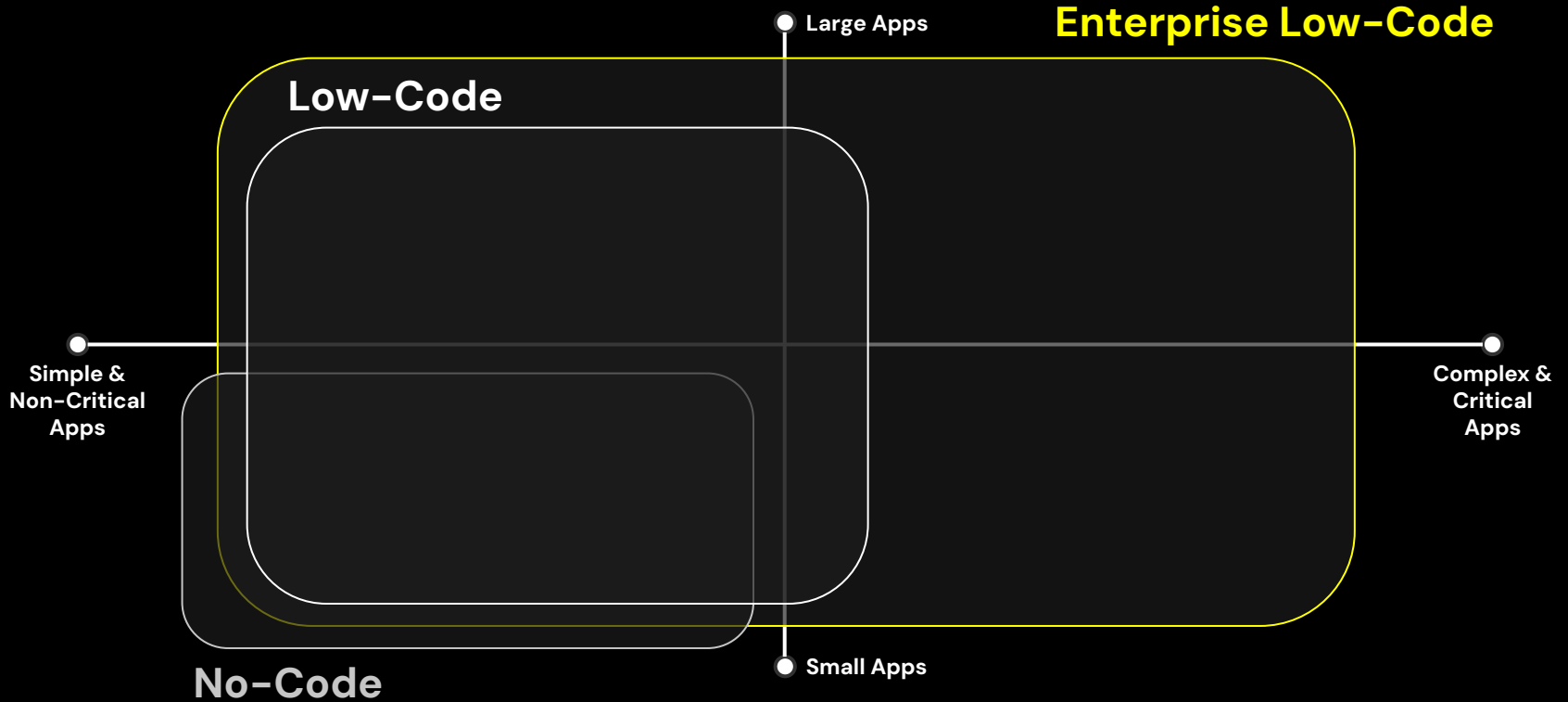
Ways of Delivering Systems



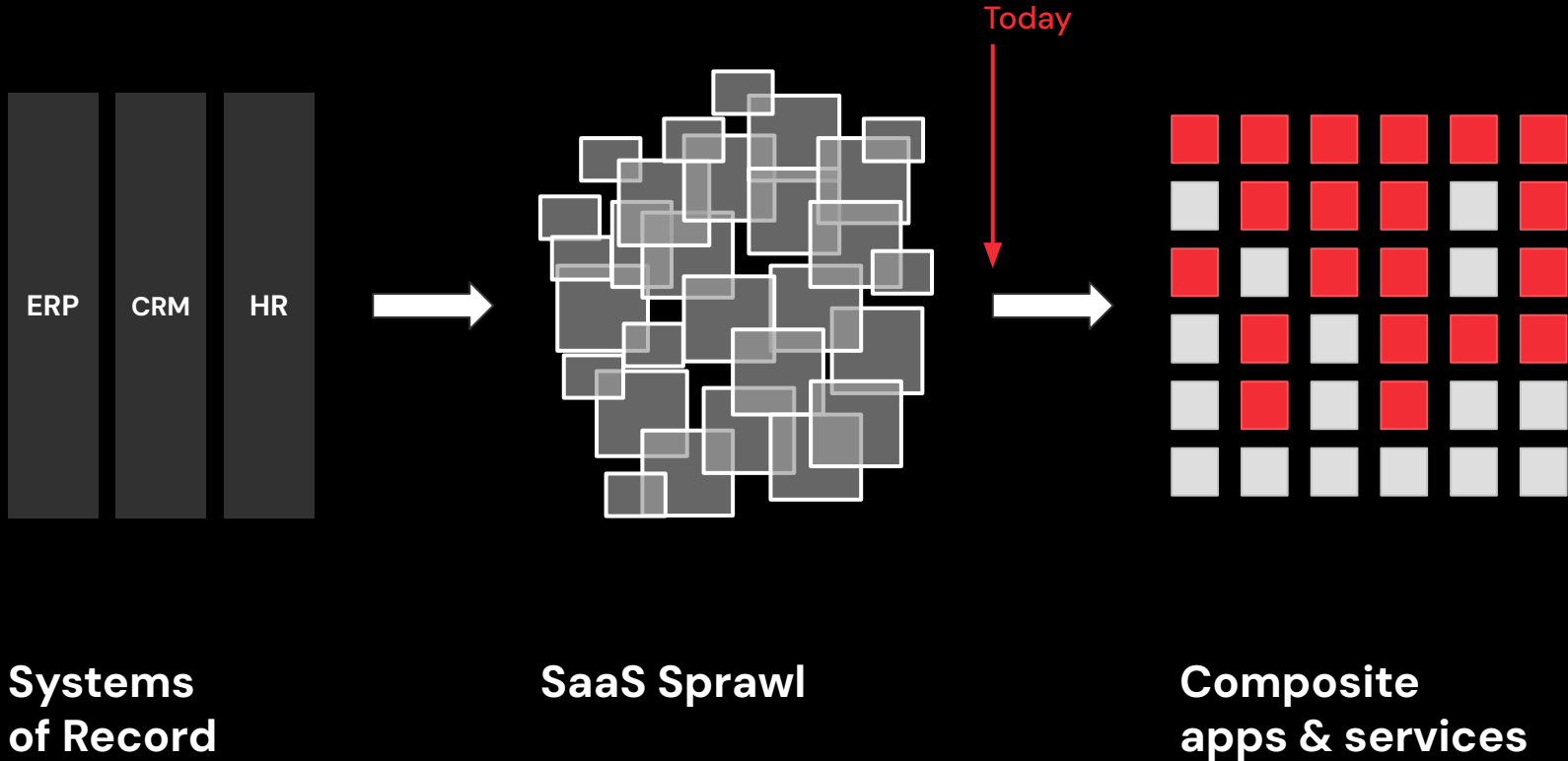
Ways of Delivering Systems



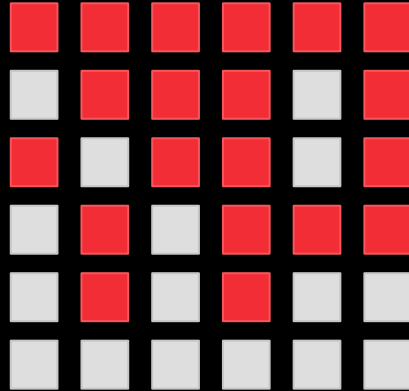
App Complexity vs Size



Evolution of Digital Landscapes



Agile landscapes are made out of (small) parts



BUILD (Differentiation)

Web apps, Mobile apps,
Automations, Workflows

BUY (Commodity)

SaaS + @

**Composite
apps & services**

Why OutSystems?

A recognized market leader



Rated #1 by
customers &
analysts



Pioneered the
category over
20 years ago



Over 2,000
enterprise
customers



Community:
750K devs +
650 partners



Powering
thousands of
apps globally

OutSystems Overview

- 2001년 포르투갈, 리스본에 설립
- 현재 본사는 미국 보스턴, R&D는 리스본 주재
- 전세계 (AMER, EMEA, APAC) 1,800+ 임직원
- 글로벌 #1 및 최대 순수 low-code 플랫폼 벤더
- 수상 경력으로 뒷받침 되는 기술
- Gartner 및 Forrester 각 2개 MQ 리더 평가
- 사모펀드로부터 5억7천만달러 이상 투자 유치 (골드만삭스, KKR, Abdiel, Tiger Global 등)
- 87개국 2,000+ 고객사 보유
- 24개 산업군 고객 보유
- 440+ 글로벌 파트너십
- >97% 고객 재계약율 (YoY) 달성
- 매년 기록적인 성장률 (YoY) 달성
- >710K+ 커뮤니티 멤버 보유
- 6,600+ 재사용 가능한 모듈
OutSystems Forge 통해 제공

"The #1 Low-Code Platform®": The Leader by Analysts

Leader in Top Rankings of Signature Industry Research – check at outsystems.com

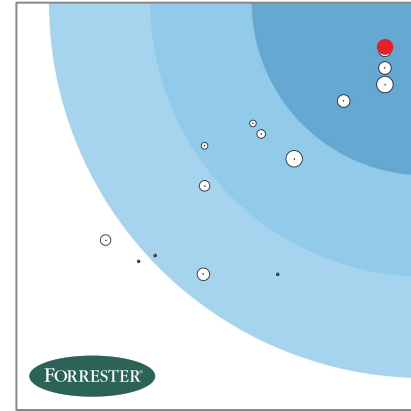
Low-Code Application Platforms



Multi Experience Dev. Platforms



Low-Code Dev Platforms for ProDevs



Mobile Low-Code Platforms For ProDevs

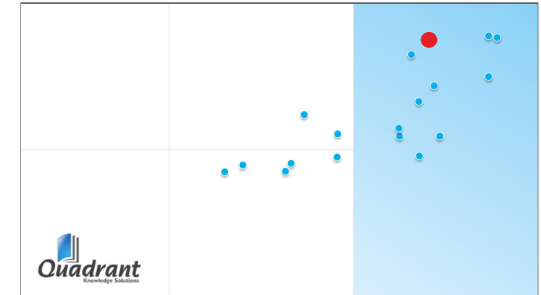
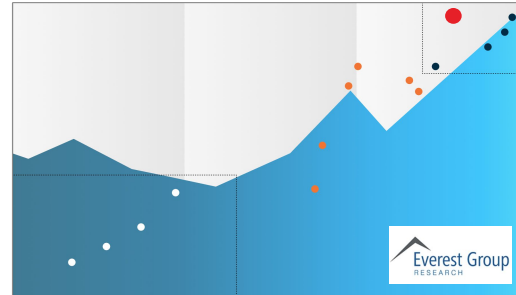
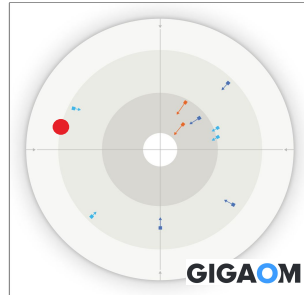
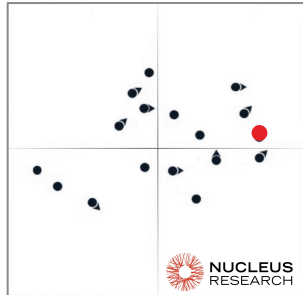


ILLUSTRATION ONLY: This is a visual summary of industry rankings performed by the various Analysts Firms. Rankings do not imply product endorsement. For full reports check www.outsystems.com or analyst site. – Status : as of 2023Q1

CUSTOMER RECOGNITION

Leader By Users in Satisfaction

as the #1 high-performer low-code platform in the biggest site of software users reviews (2020...24)

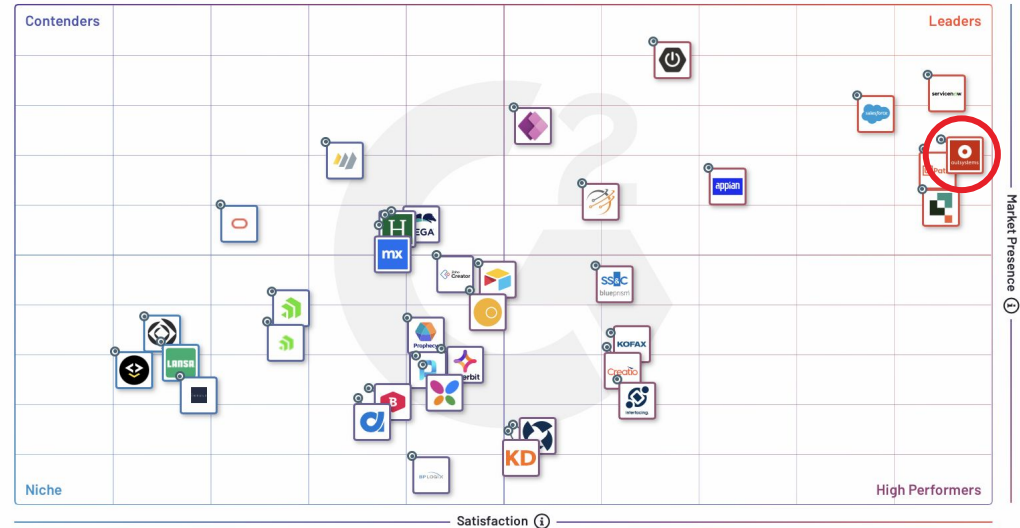
“The breadth of capabilities has allowed us to drive to our digital transformation goals much more quickly than anticipated. This has led to digitalized and automated workflows leading to improved quality, ease of use leading to an exceptional user experience, and efficiencies resulting in substantial annual dollar savings.”

“폭넓은 기능 덕분에 예상보다 빠르게 디지털 전환 목표를 달성했습니다. 이로 인해 업무 과정이 디지털화되고 자동화되어 품질이 향상되었고, 사용이 쉬워져 사용자 경험이 개선되었으며, 효율성 증대로 상당한 연간 비용 절감을 이루었습니다.”



5/5

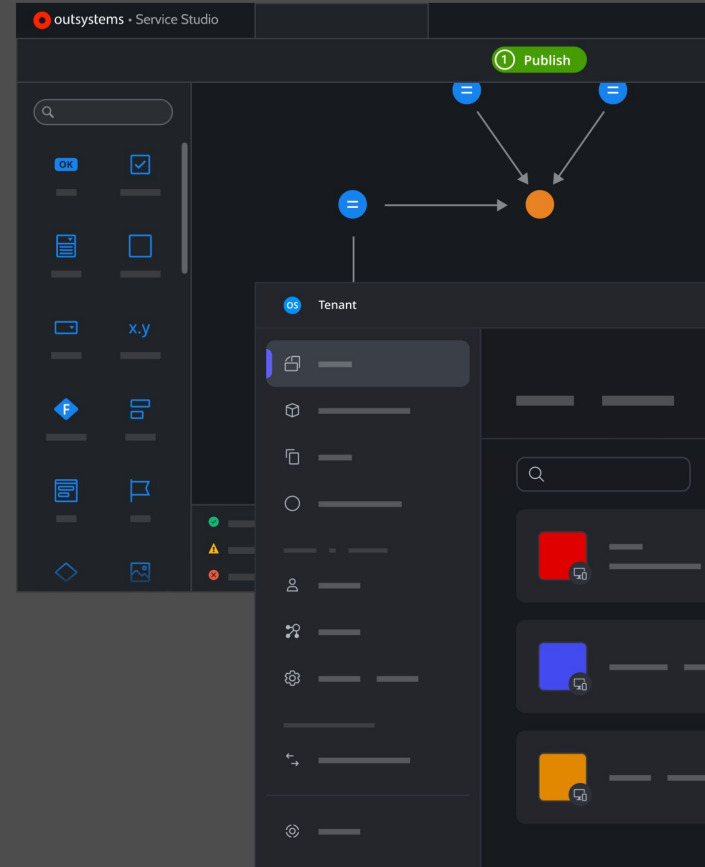
David Lloyd, Director of IT, Park Industries



G2 Grid® Scoring

[Grid® Report for Low-Code Development Platforms | Spring 2024](#)

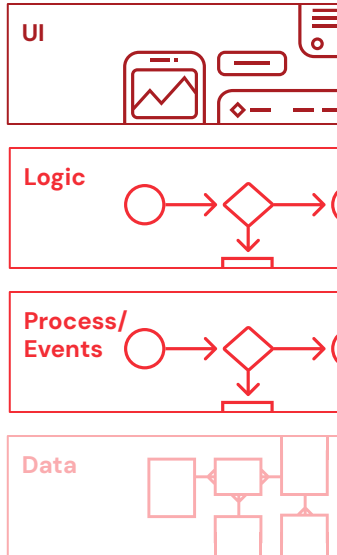
Platform Overview



OUTSYSTEMS PLATFORM OVERVIEW

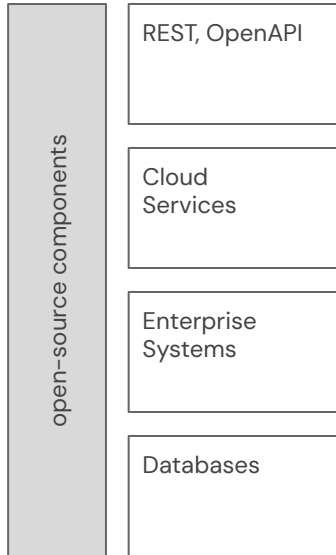
Full-Stack

Empower Developers
Extend reach outside IT



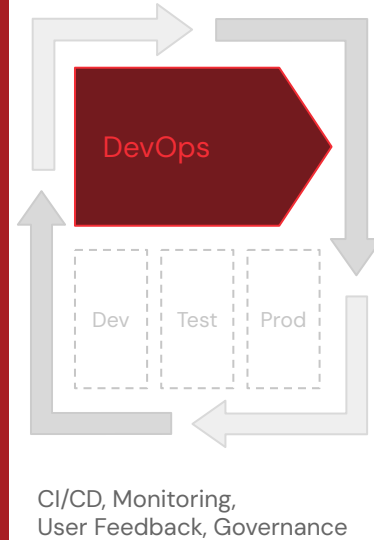
Integrate & Extend

Never start from scratch
Limitless and easy
integration



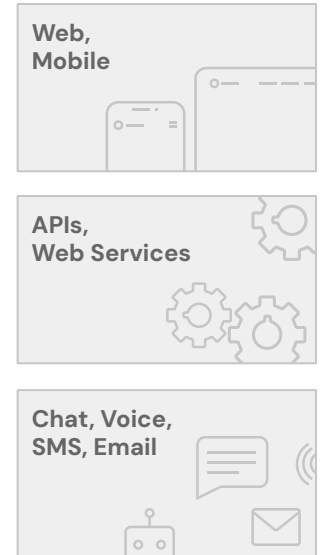
Full-Lifecycle

Be agile and
continuously change
Automated software
lifecycle



Experiences

Reach all touchpoints
Widest range of digital
experiences

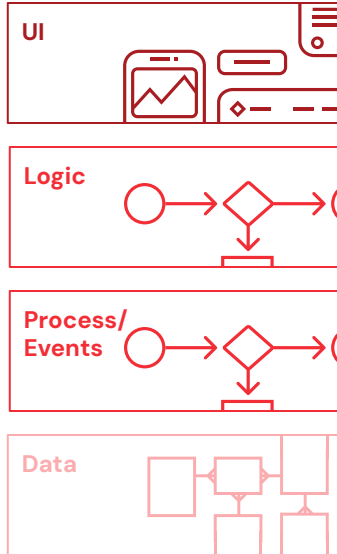


Scale | Security | Performance | Flexible Deployment

OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack

Empower Developers
Extend reach outside IT



Integrate & Extend

Full-Lifecycle

Experiences

The screenshot displays the OutSystems development environment. The central window shows a preview of a web application titled "Application Title" with a "Home" screen. The application content includes a "Rated 4.1/5 on Trustpilot" section, a paragraph of text, and a "Get a Quote" button. The interface is user-friendly, with a navigation menu and a user profile indicator.

On the right side, the "Widget Tree" shows the structure of the application:

- DoDHomeInsurancePortal
 - UI Flows
 - Common
 - Icon
 - Layouts
 - MainFlow
 - ARPreview
 - Home (selected)
 - Step1
 - Step2
 - Step3
 - Step4
 - Step5
 - Step6
 - Step7
 - Step8
 - Step9

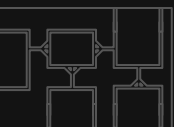
Below the widget tree, the "Home Screen" properties are visible:

| | |
|---------------|--|
| Name | Home |
| Description | Home |
| Title | "Home Insurance Portal" |
| Public | No |
| Authorization | Everyone |
| Events | phil.bartholo@outsystems.com os-int-success-ring1.outsystems.dev |

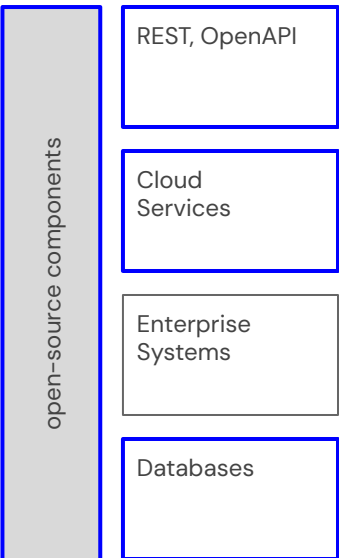
The interface also includes a "Publish" button and a "Debugger" window at the bottom.

Scale | Security | Performance | Flexible Deployment

Developers
outside IT



Integrate & Extend
Never start from scratch
Limitless and easy
integration



Full-Lifed
B
co
A
lif



Search in Forge... SEARCH

Sort by: **Most Popular** ▾

MY ACTIVITY ▾

- Downloaded
- Following ☆
- My Components

TYPE ▾

- All
- Traditional Web 🖥️
- Mobile 📱
- reactive 🔄
- Service 🌐


CURATION ⓘ ▾

- Trusted 🏆
- OutSystems Supported 🛡️

CATEGORY ⓘ ▾

- Applications
- Components
- Connectors
- Cloud Storage
- Collaboration


3353 results



Silk UI Web

A fully responsive and beautiful UI framework that works within the OutSystems Platform. Build


★★★★☆ 102
👤 38727



OutSystems UI

Create amazing applications using this fully integrated UI framework for OutSystems, with dozens of UI


★★★★☆ 85
👤 27727



Dublin Template

A fully-responsive Silk UI Theme with a prominent left menu and a gorgeous look&feel. Dublin can


★★★★☆ 50
👤 26617



OutSystems UI Web

Create amazing web responsive applications using this fully integrated UI framework for


★★★★☆ 56
👤 20330



Common Plugin

Common actions and webblocks to be used by OutSystems Now extensions plugins.


★★★★☆ 23
👤 20293



OutSystems Now


OutSystems Now brings your OutSystems experience to any device.

★★★★☆ 78
👤 18089




Google Maps

Google Maps is a Google Maps Javascript V3 API component, providing Web Blocks and Actions



OutSystems UI Web Screen Templates

Accelerate Responsive Web application development with our easy-to-use screen templates.



OutSystems Sample Data

Sample data to accelerate application prototyping and development. Contains a data

Extend
from scratch
easy

ST, OpenAPI

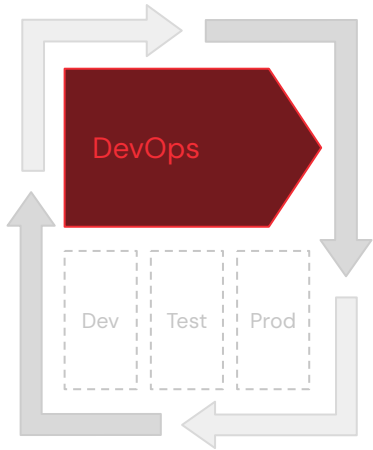
Cloud
services

Enterprise
systems

Databases

Full-Lifecycle

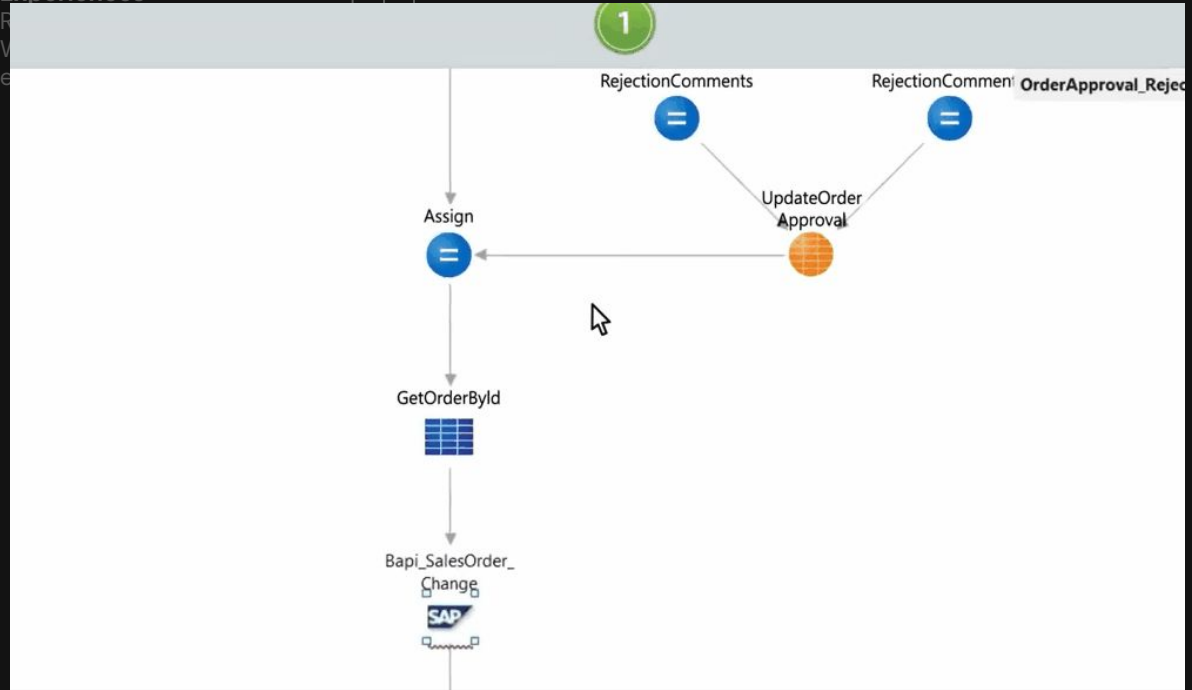
Be agile and
continuously change
Automated software
lifecycle



CI/CD, Monitoring,
User Feedback, Governance

Experiences

R
V
e





Experiences

Reach all touchpoints
Widest range of digital experiences

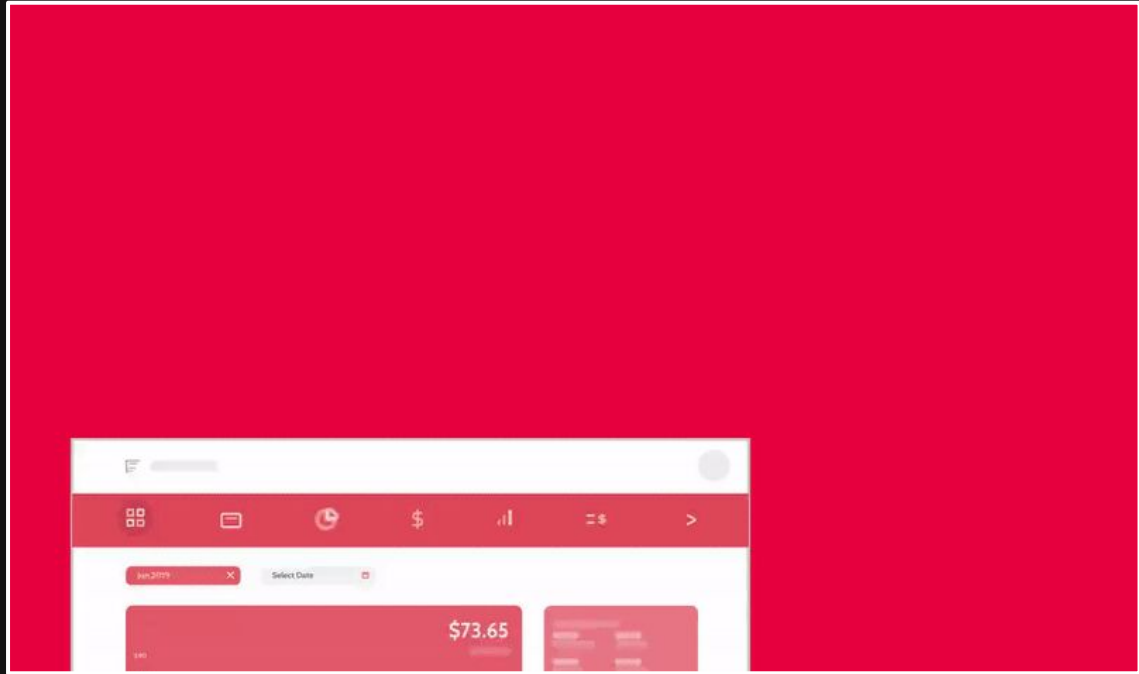
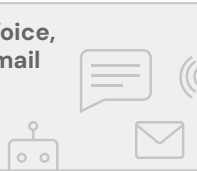
Web,
Mobile



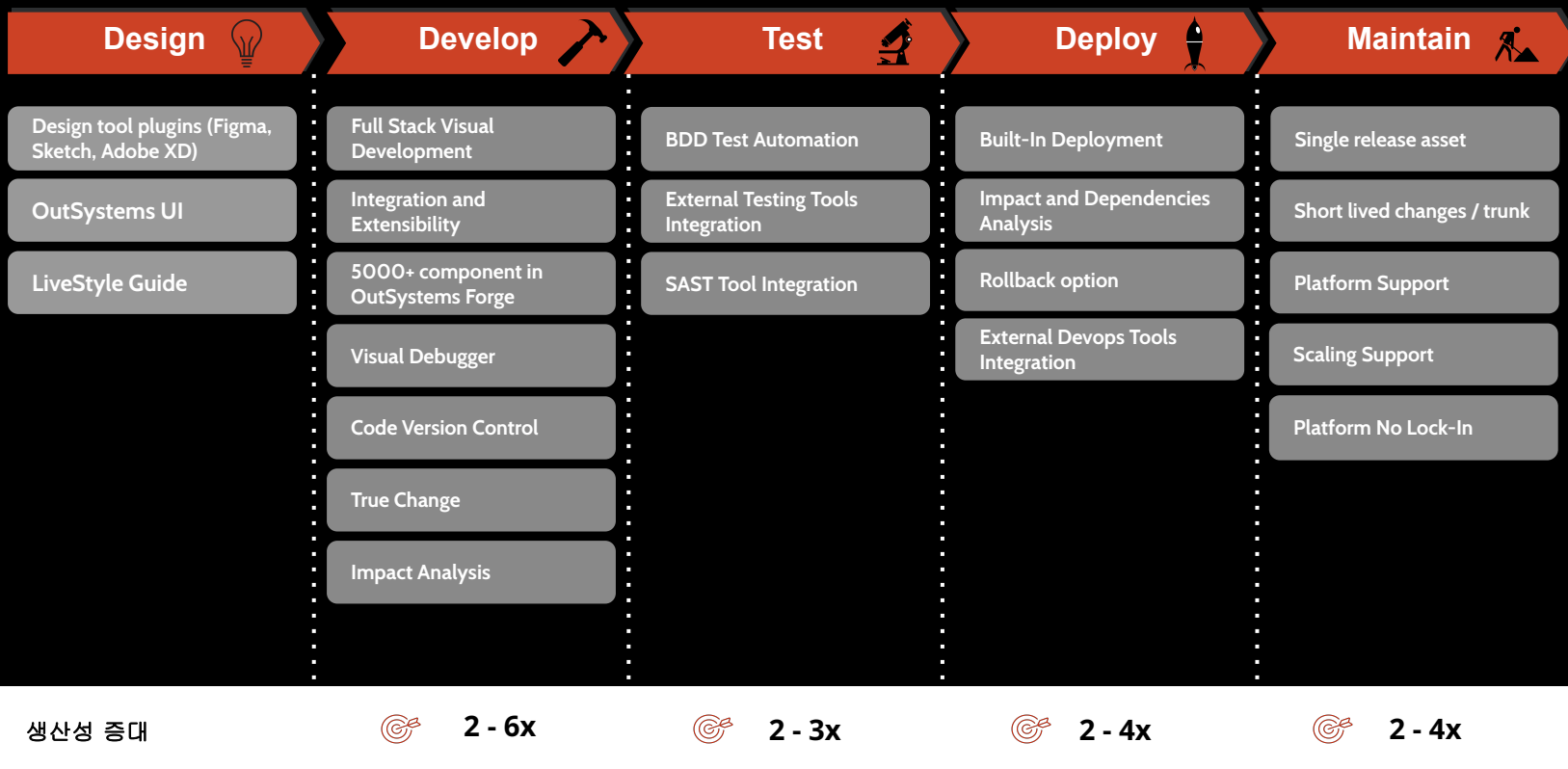
APIs,
Web Services




Chat, Voice,
SMS, Email




OutSystems SDLC

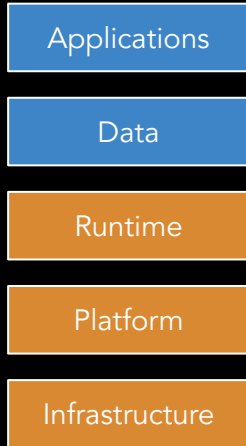


O11 vs. ODC

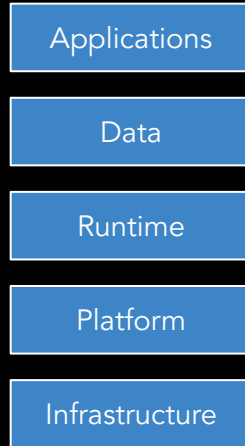
 Managed by you

 Managed by OutSystems

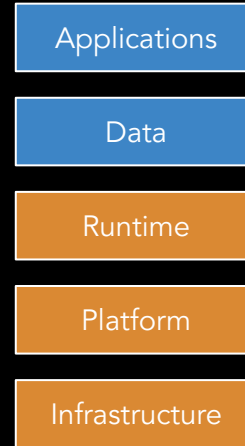
OutSystems Cloud (AWS VPC)



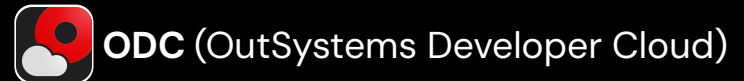
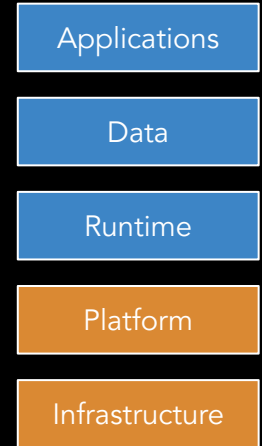
Self-Managed (Cloud or On-premise)



OutSystems Cloud (AWS EKS)



Hybrid (AWS EKS + On-premise) Available 2025



TOYOTA

Toyota's 10-Year Journey for a Faster and More Efficient App Dev Strategy



Setting up a low-code Center of Excellence at Toyota Group

- Leading automaker Toyota Motor Corporation adopted OutSystems in 2014 to modernize large-scale legacy systems and improve development productivity.
- Starting with small-scale departmental applications, Toyota slowly expanded the use of OutSystems, ultimately adopting the platform across all its companies.
- Today, Toyota operates a Center of Excellence which includes a help desk to support OutSystems development, as well as robust training programs.
- OutSystems is an essential tool to promote digital transformation in the Toyota Group, enabling a critical shift to agile methodologies, as well as the migration of core processes to the cloud.

TOYOTA

10 years

OutSystems at scale

23

Toyota Group companies

70+

Projects delivered

30%

Reduction in work hours



“In the 10 years since its introduction, OutSystems has become the obvious choice for development projects within the Toyota Group. We feel that the speed and quality of delivery have improved, and user satisfaction has also increased.”



Atsushi Inagaki

General Manager IT BPR Promotion Div. , Information Systems Group



“If your goal is to improve development productivity, then give OutSystems a try.”

Atsushi Inagaki

General Manager IT BPR Promotion Div. , Information Systems Group

Toyota

- 1.**
Business Challenge
- 2.**
Solution Built with OutSystems
- 3.**
Outcomes and Results

Business Challenge

TOYOTA

Enabling digital transformation

What people expect from a car is changing, so Toyota is moving from being a car manufacturer to becoming a mobility company.

Digital transformation is one of the main factors speeding up this change, and Toyota recognizes this initiative as one of its crucial business challenges.



Legacy modernization at scale

The Toyota Group needed to create a framework that would allow them to swiftly modernize legacy systems and enact digital reforms. Toyota's legacy systems used a variety of programming languages, including PL/I and COBOL.



Talent shortage

Furthermore, the company faced challenges with the shortage of IT talent on a global scale. Toyota wanted to create an environment that could adapt to changes in the labor market, including the retirement of engineers adept in legacy technology.



Enabling speed and quality at a low cost

Toyota's team also wanted a system that was fast, efficient, and reasonably priced, enabling shorter development periods, reduced development costs and higher quality deliverables. The company adopted OutSystems to address its digital transformation needs.

TOYOTA

Solutions Built with OutSystems

Toyota's first use case with OutSystems was an app called "Sheet Metal System." Later, the scope of the app expanded, with the migration of a system to manage the production of procured parts. Toyota also used OutSystems for front-end development, to connect legacy systems with users.

Toyota Motor Europe built a [Central Quality System](#) to improve the process to manage quality concerns.



Manufacturing apps



Legacy modernization



PL/I and COBOL replacement



Center of Excellence



Cloud migration



Agility at scale



Outcomes & Results



Increased developer productivity

After its first successful project, Toyota began to accelerate the full-scale deployment of OutSystems. Simultaneously, Toyota was starting to focus on improving development productivity and reducing lead times, so OutSystems was adopted as a core technology.



Engaged developers and engineers

After facing some resistance from engineers and developers, the interest in OutSystems grew, as more and more projects were successfully delivered. This led to the need for a more robust help desk and better training for development personnel.



Shift to Agile, shift to cloud

OutSystems has enabled the gradual shift from the traditional waterfall model of development to an Agile approach. The platform also facilitates the shift toward the cloud. Using OutSystems as the development and execution environment helps avoid lock-in by cloud vendors.



A Global Center of Excellence

By 2020, the scope of implementation of OutSystems covered the entire Toyota Group, and the group now operates with a global Center of Excellence (CoE). The information exchanges and technology sharing has expanded also to partner companies.

More Resources:

Case Study

<https://www.outsystems.com/case-studies/toyota-low-code-journey/>

Partner Case Study

<https://www.cegeka.com/en/case-studies/toyota-managed-quality-system>