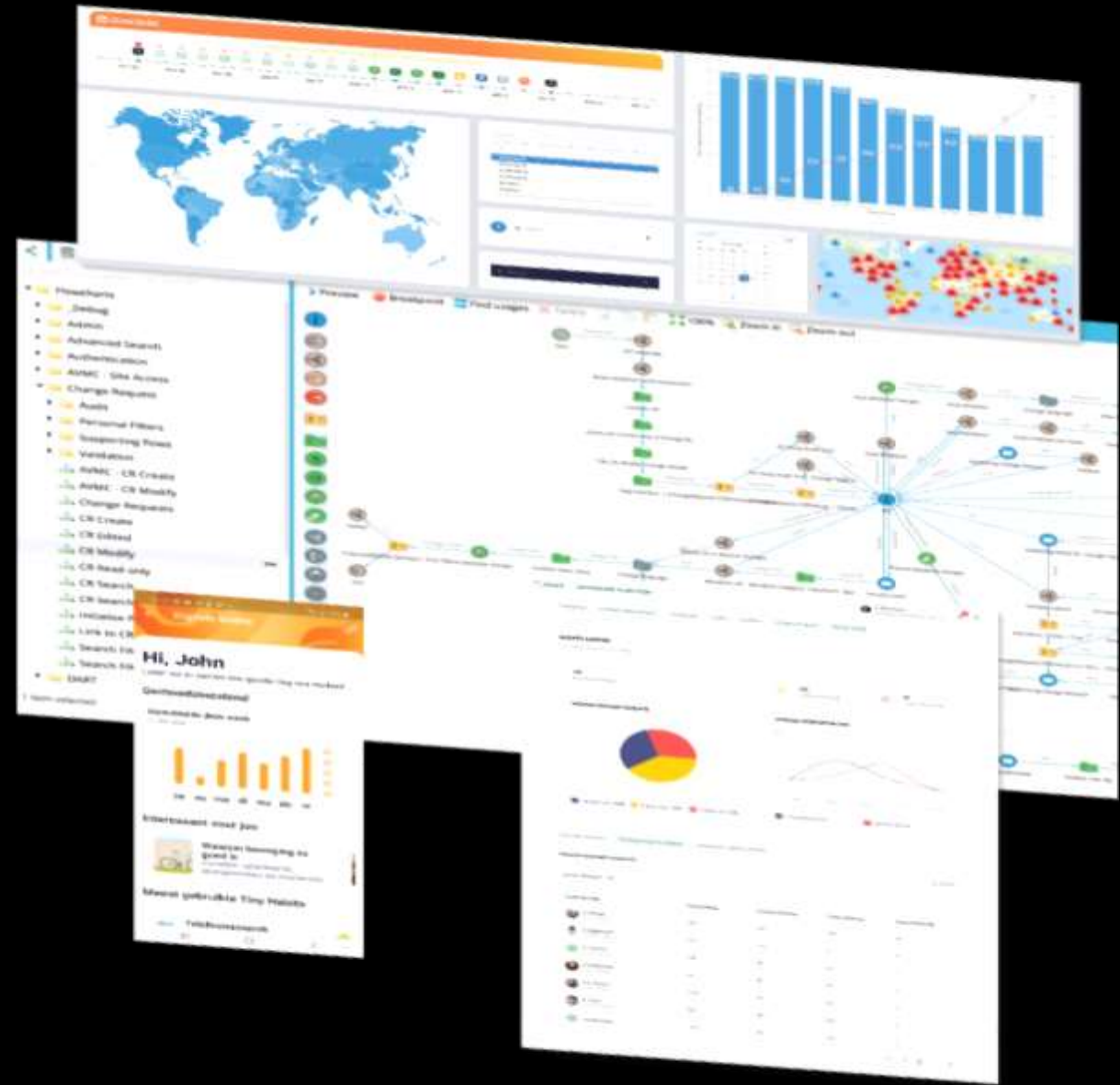




# S-Square - LowCode/NoCode (LC/NC) Enabling Technology Presentation

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# Current Challenges in Traditional Application Development

## Long Development Timelines

- Custom development with standard SDLC processes
- Long incubation period before seeing a MVP
- Minor changes require long turn around time for design, build and testing.

## High Capital Expenditure and Operating Costs

- Investment in Software platforms and Infrastructure for custom development
- Higher support costs due to diverse support requirements

## Disparate Technology Landscape

- Multiple small projects using disparate technologies
- No uniform platform to manage small developments

## Developer Shortages

- Developer shortages and skill-set challenges
- Multiple small productivity projects get deprioritized

# 6 Generations of Programming Languages

First generation (1GL) - machine-level programming language used to program first-generation computers

Examples: machine-level programming languages

Second generation (2GL) - assembly languages. Examples: Assembly

Third generation (3GL) - more machine-independent (portable) and more abstract therefore more programmer-friendly than previous generations of languages

Examples: Fortran, COBOL, BASIC, Pascal, C, C++, Perl, Python, Java, JavaScript, Ruby, PHP, C#

Fourth generation (4GL) - include support for database management, report generation, mathematical optimization, GUI development, or web development. Examples: ABAP, Unix Shell, SQL, PL/SQL, Oracle Reports, R

Fifth generation (5GL) - any programming language based on problem-solving using constraints given to the program to make the computer solve a given problem without the programmer, rather than using an algorithm written by a programmer. Examples: Prolog, OPS5, Mercury

Sixth generation (6GL) - programming language based on visual development. The overall umbrella term for these is "NoCode". Examples: Appian, WEM.io, Bubble.io

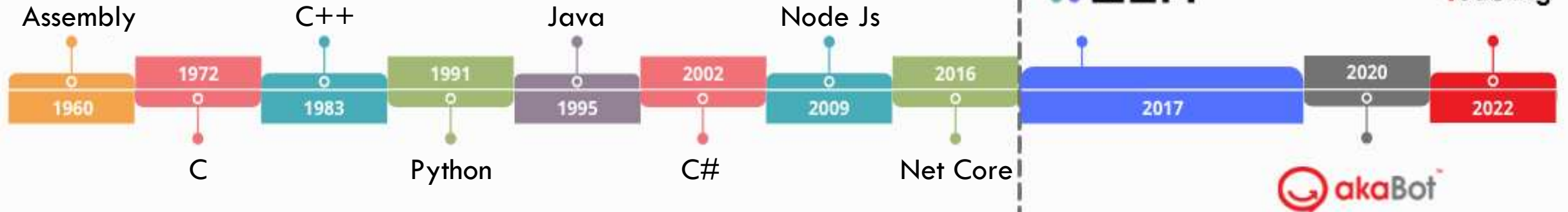
# Reinventing Software Development

## Traditional Coding

Requiring expensive, hard to retain code-linguists

## No-Code

Empowering transforming support to employ business-knowledgeable techno-functional resources



Traditional computer languages require programmers to translate their thinking process into code built for the CPU and memory

Optimized for how we humans think. Converting natural thinking process into working software

Digital Transformation.  
Legacy Modernization.  
Business Velocity.

80%

COST REDUCTION

Empowers employing business knowledgeable (techno-functional) resources instead of costly, hard to retain code-linguists to build, deploy and maintain secure scalable enterprise-grade software.

10%

FASTER TIME-TO-MARKET

View app development in real-time. Deploy and update applications with a single click. Deliver software 10 times faster than traditional programming methods.

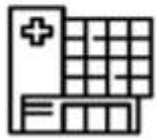
100%

ALIGNED TO BUSINESS

Translate innovative business ideas to custom software built with no code app builder at the speed of, and fully aligned with, business requirements.



Banks,  
Financial  
Services and  
Insurance >



Healthcare >



Telecommunication  
>



Education &  
Training >



Manufacturing  
>



Public Sector  
>



Automotive  
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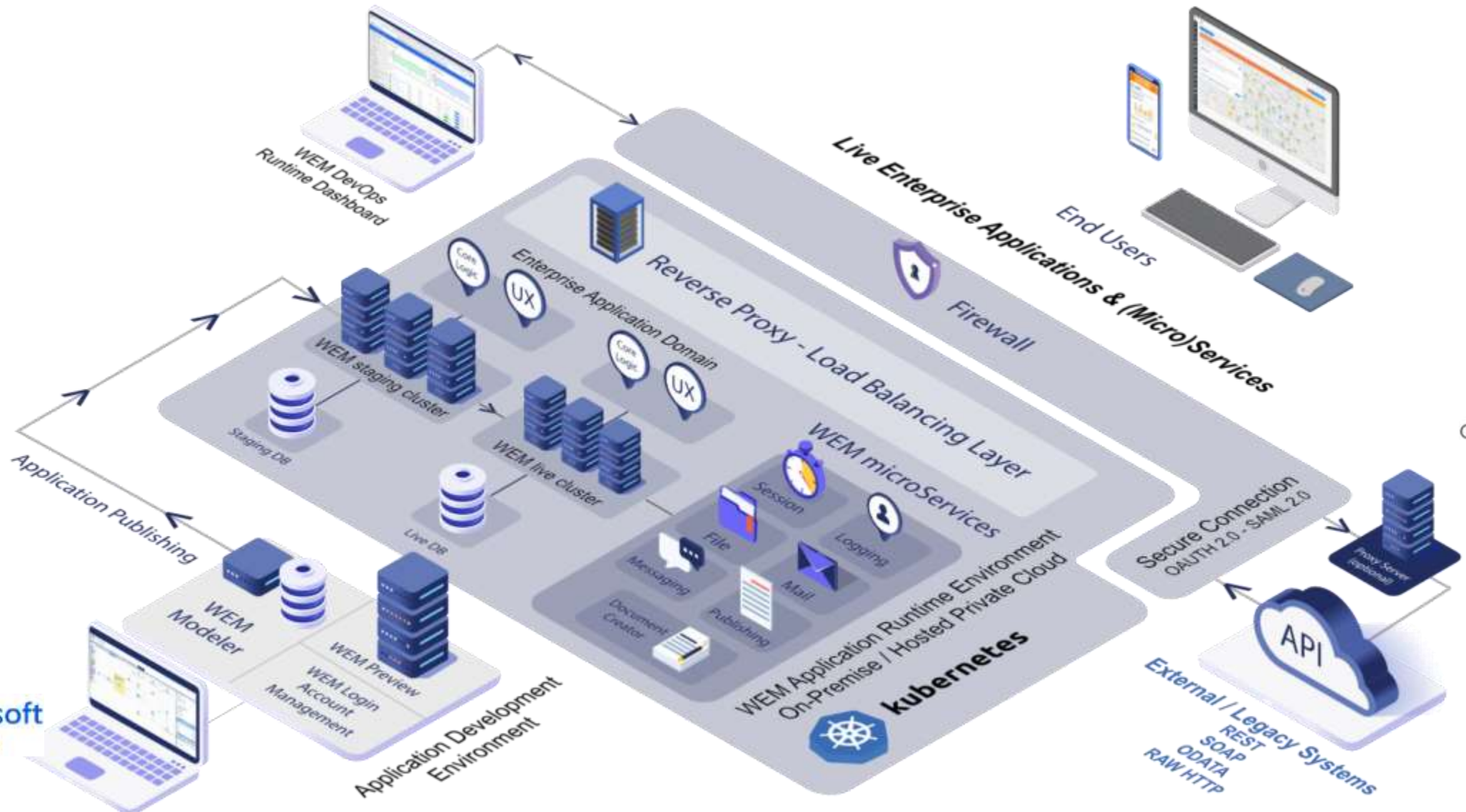
Real Estate  
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# SCALABLE, SECURE CLOUD ARCHITECTURE



Google Cloud Platform



FLEXIBLE DEPLOYMENT OPTIONS FOR SHARED HOSTING, ON-PREMISE APPLIANCE AND PRIVATE APPLICATION CLOUD

# 3<sup>rd</sup> Party LCNC Marketplace Product Evaluation



Criteria	WEM	Betty Blocks	Power Apps	OutSystems	Mendix
Category	No Code	Low code	Low code	Medium to high code	Low code
Platforms	Web, native apps	Web apps	Web, native apps	Web, native apps	Web, native apps
Data Model	Drag & Drop	Visual Editor	Tables	Visual Editor	Visual editor
Visual Editor	Web-based	For backend apps	Web-based	Many designer	Web-based, desktop-based
Workflows	Drag & Drop	Action Modeler	MS Flow	Visual modeler	Visual modeler
Look & Feel	Custom templates	Custom js/css/html	Customizable	Custom js/css	Custom js/css
Environment	Public, private cloud, on premise	Public cloud, on premise	Public, private cloud, on premise	Public, private cloud, on premise	Public, private cloud, on premise
Release Management	Fully	Fully	Partially	Fully	Fully
Integration	All API standards	JSON, SOAP/REST	Office365, REST	SOAP/REST	SOAP/REST

# Use Case – Merger Requiring Data Optimization

This organization aims to increase the quality of association data management healthcare in the Netherlands by looking together at how things can be improved and creating a safe environment in which the organization field can determine for itself, where it can improve. It secures data well and strives for objectivity, optimal correctness, completeness, and timeliness.

## CUSTOMER CHALLENGES

- They wanted to easily expand the application and create new products on their own.
- Worked on outdated databases with huge past information.
- Optimizing the information stream and making information management easier to handle.
- They needed a user-friendly system.

## WEM ADVANTAGES

- **Agile development, week to week results, short time to market (live in 3 months)**
- **Use of existing data from legacy systems/integration with legacy systems**
- **Cloud solution offers flexible workspaces (not tied to a location)**
- **Easy to extend the application**
- **No need to outsource IT services and staff**
- **Fast return on investment.**

## PROBLEM

Because of the merger of two companies, the data streams of the registration branch and the audit branch needed to be combined. They were still working with an outdated database, with a lot of information from past years. Many different types of information input and output were needed to be managed. It was decided to build a new system, instead of modifying the old one.

## SOLUTION

A new application was built in WEM, to apply data in an optimum way. The result was a user-friendly registration procedure that also creates room for innovation. The new application built with WEM was not only convenient to use for health care professionals, but also for internal use. The company was enabled to further develop and customize the application in its control. Another advantage was the fast time-to-market. The company developed the application themselves, made adjustments in the basic architecture and it could be immediately published.



# Representative WEM Enterprise Customers



JPMORGAN CHASE & CO.



MINISTERIO DE TRANSPORTES, MOVILIDAD Y AGENDA URBANA

# Thank You

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