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CERTIFIED NMSDC MBE 2018

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

Hi, John

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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

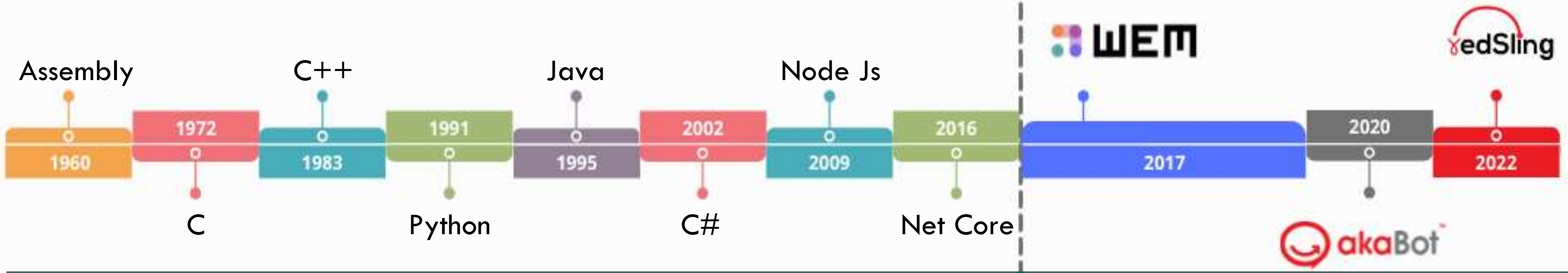
Reinventing Software Development

Traditional Coding

Requiring expensive, hard to retain code-linquists

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-linquists to build, deploy and maintain secure scalable enterprise-grade software.

10%

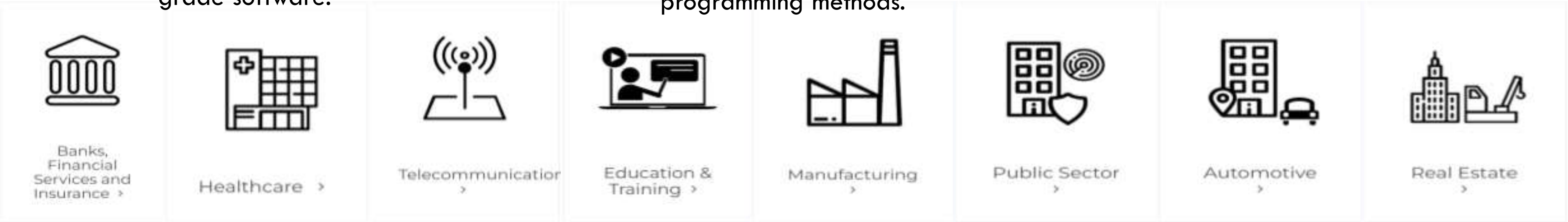
FASTER TIME-TO-MARKET

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.



SCALABLE, SECURE CLOUD ARCHITECTURE

S-Square

On-premise

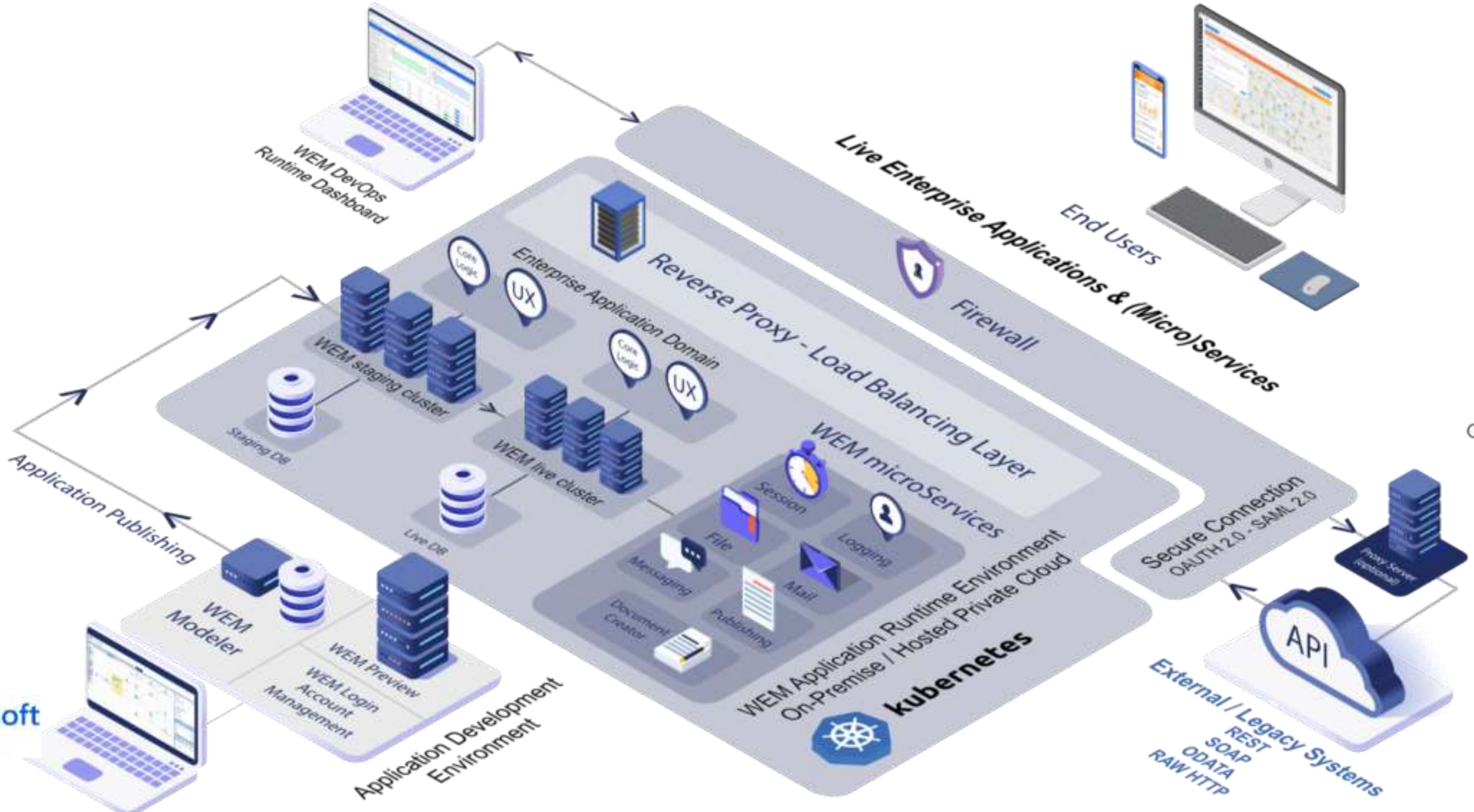
Private Cloud

aws

Google Cloud Platform

Microsoft Azure

IBM Cloud



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

3rd 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 – ETL and Digital Transformation for Contract Management Application

This company is the largest developer and manager of industrial properties for factories and logistics warehouses nationwide, managing 2.7 million sq m. of properties with over 800 building assets including residential, retail, logistics, commercial & business parks. They are also taking steps towards smart workplace technology utilizing advanced technology in the development of new property infrastructures including data centers and township development.

CUSTOMER CHALLENGES

- The contract management application needed to provide a mechanism for uploading all existing contracts according to a referencing schema that distinguished between previous contracts that were closed or in execution, and new contracts
- The ETL application needed to provide an integration with an SFTP server that does not utilize a REST API structure
- The ETL application needed to provide a transform function that accounted for multilingual character set

PROBLEM

The existing manual procedures for both application areas (the legal team's management of contracts and their IT team managing the ETL between Unifier and SAP) were found to be time-consuming and limiting in capability. The legal team determined that utilizing SAP to digitalize their contract management would not provide them with the capability to customize the process according to their specific needs.

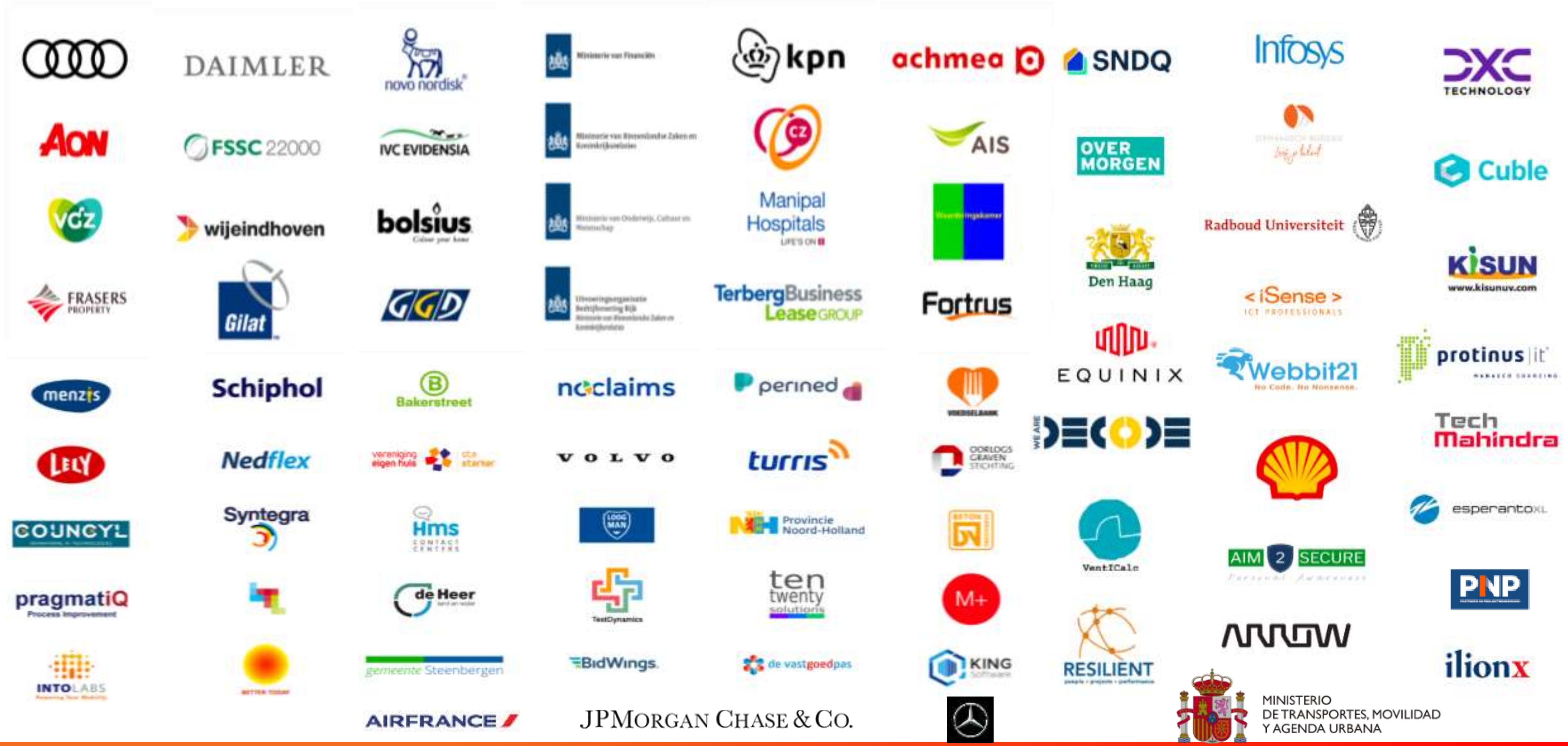
WEM ADVANTAGES

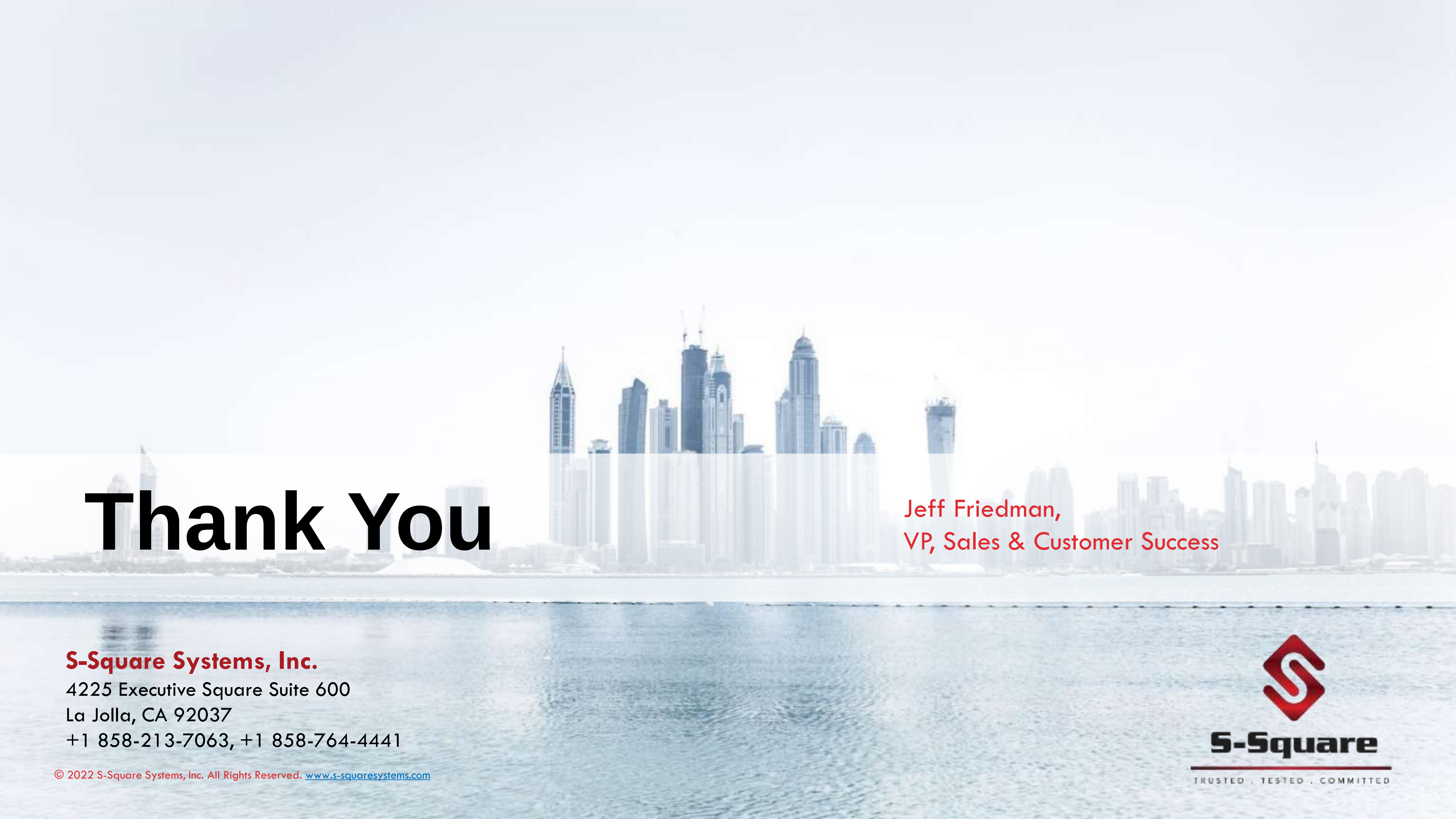
- **Conversion from a manual process to an automated process within a short period**
- **Particularly for the contract management application, the realization that new features which were not available or even considered from the manual process could now be implemented quickly and easily to provide much broader management of contracts**
- **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**
- **Fast return on investment**

SOLUTION

The Contract Management application developed on the WEM Platform provided a rapid deployment as well as enabled new features to be introduced quickly. The functionality provided was more extensive than what they had been managing with excel spreadsheets which enabled the legal team to have better control over the whole process of creating, reviewing, and signing contracts, including variations made to the contract. The IT team for the ETL application was provided with an automated ETL process, running on a scheduled basis that enabled the availability of reporting data for their financial team in readiness for processing. This required integration with an STP server requiring adapters for REST-based integration to FTP protocols. Upon this integration, the overall time required to complete these complex tasks was reduced.

Representative WEM Enterprise Customers





Thank You

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