S-Square

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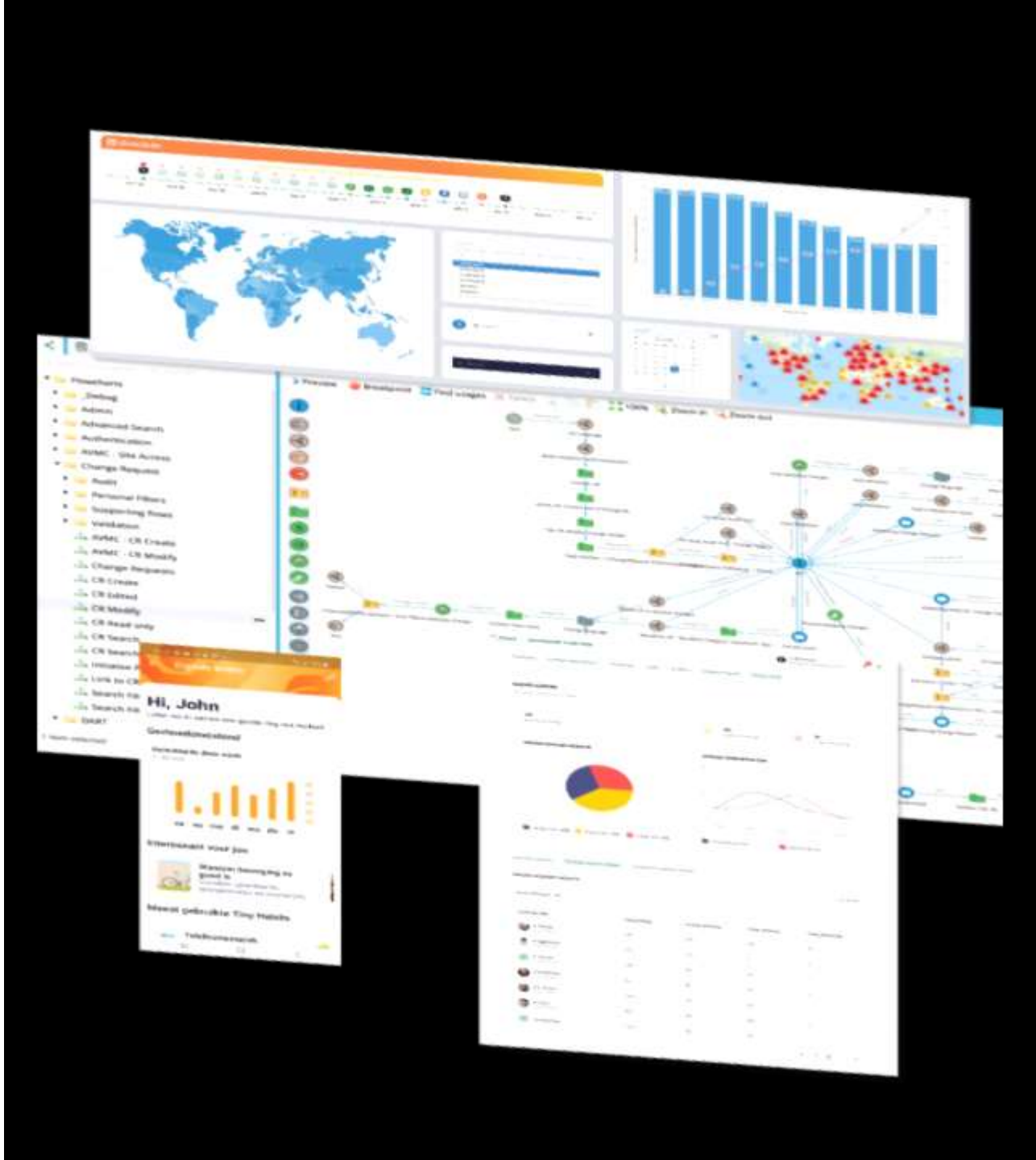
CERTIFIED NMSDC MBE 2018

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

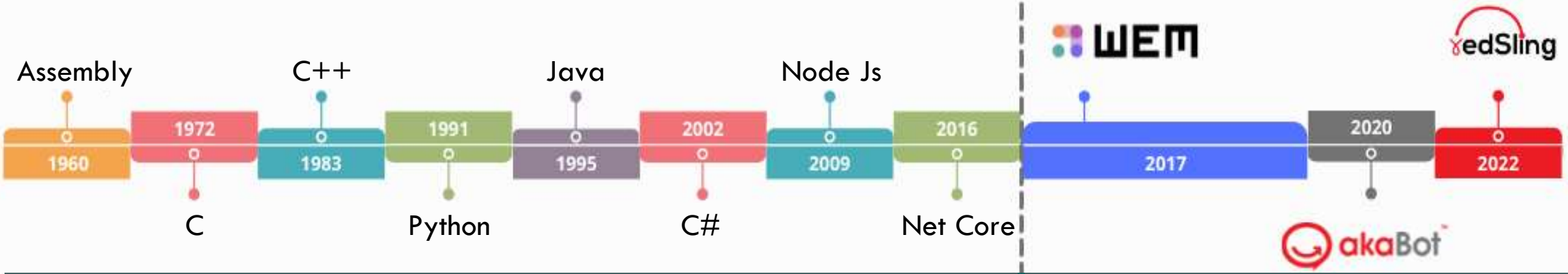
Reinventing Software Development

Traditional Coding

Requiring expensive, hard to retain code-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

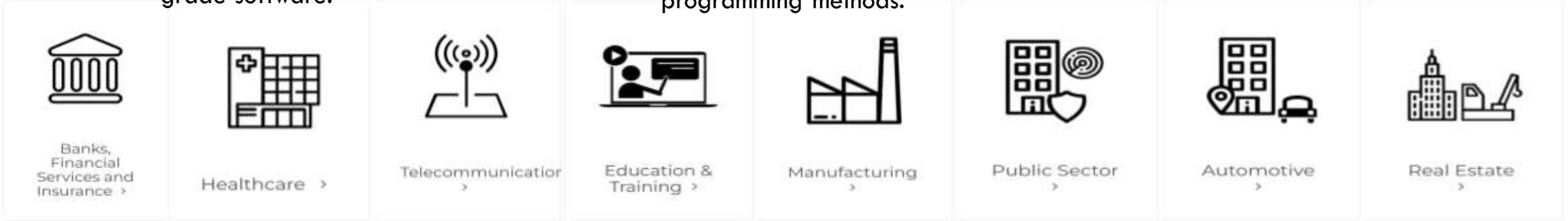
Empowers employing business knowledgeable (techno-functional) resources instead of costly, hard to retain code-linquists to build, deploy and maintain secure scalable enterprise-grade software.

10%
FASTER TIME-TO-MARKET

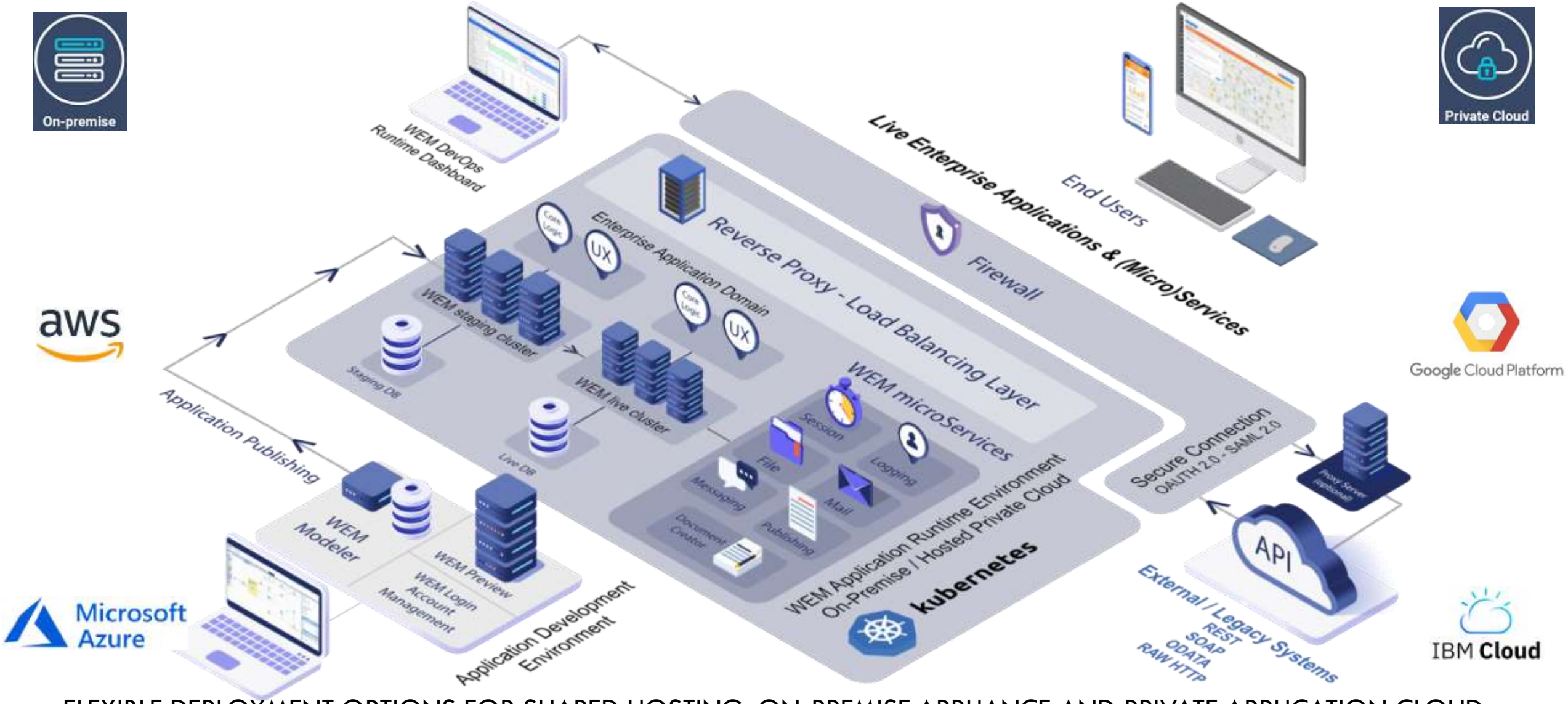
View app development in real-time. Deploy and update applications with a single click. Deliver software 10 times faster than traditional programming methods.

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



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 – Research Knowledge Collaboration

Based in China, this organization comprises an elite squad of alpha geeks, the team has great knowledge and experience in game operation, marketing, and publishing of the Asia market and specializes in Participatory Action Research. The organization strives for a global quality improvement in development through stimulating community up innovations.

CUSTOMER CHALLENGES

- To build an application for administration.
- Work on an interactive world map,
- Implementing news-portal and more functionalities that support participatory action researchers and supervisors.
- Creating a well-developed platform.
- Digitizing the platform where people all over the world can share their experiences about participatory action research.

WEM ADVANTAGES

- **Agile development, week to week results, short time to market (live in 3 months)**
- **Introduction of an interactive world map**
- **Cloud solution offers flexible workspaces (not tied to a location)**
- **Fast return on investment**
- **Easy to extend the application**

PROBLEM

The organization was growing very fast but there was no proper communication platform where people could get in contact. They were working in an environment where people from all over the world could share their experiences about participatory action research and could not develop a platform. They needed high manual processes, data capturing on excel sheets, emails to manage workflow and communication. They wanted to build an application on their own.

SOLUTION

The company, with WEM's platform, developed a platform where students as well as graduates, with or without research experience, can register for participatory action research. Participants gain experience from various countries. Problem-owners and other parties involved find the solution themselves, develop and implement. They wanted to have a real impact and sustainably use their investigations. This method seemed to be more effective and sustainable to them, compared to traditional development. The platform so developed is capable of bringing the results found during the research immediately back to the respondents, so they can act on it accordingly.

Representative WEM Enterprise Customers

Thank You

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