

A multi-tenant **50k-user PowerServer** success story for HR and performance management in the Italian Healthcare

Berlin 29.04.2025 Meoni Marco, Appeon MVP



Profile



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Recent Projects

- · PowerServer addict
- · Training in Appeon products
- · WebApp driven by .NET Datastore
- · Maintenance of legacy PB apps
- · Consultant for Appeon, Novalys, SPI, Power People-IT...

Key Skills

- PowerBuilder
- PowerServer
- SnapDevelop
- .NET DataStore

- SnapObject ORM
- Vue.JS
- · Big Data
- Machine Learning

HMS Consulting



About

Activity areas

Planning and verification of

organizational performance

- Located in Florence, Italy
- Public Healthcare Domain
- Management Consulting and Training

Staff evaluation

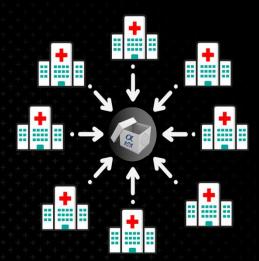
Individual performance
evaluation

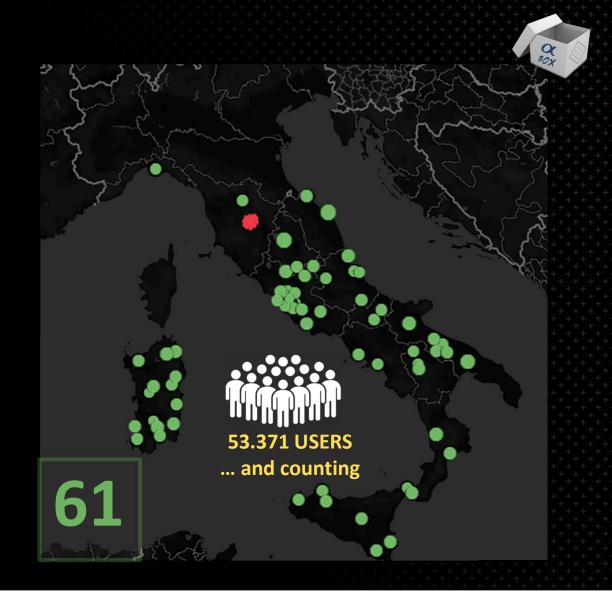
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AlfaBox

- Integrated solution for HR management and performance of the national Healthcare budgeting and process optimization
- Web and Cloud architecture
- Used at 61 administrations, hospitals and institutes in the public healthcare







Key Functionality

Organizational Performance

- Management of resources assigned to BU
- Strategy, operational goals and KPI
- Budget plans
- KPI monitoring and verification
- Dashboard Directive Conseil

Individual Score

- Programming and control of individual scores
- Parameters of personnel incentives
- Calculation of individual allowance and awards

Personnel Evaluation

- Personnel responsibility
- Professional evaluation of responsability
- Outcomes from employyes' career
- Dashboard HR

Career Path Selections

- Parameters for personnel selection in career paths
- Career path request forms
- Standing charts

Private Practice Management

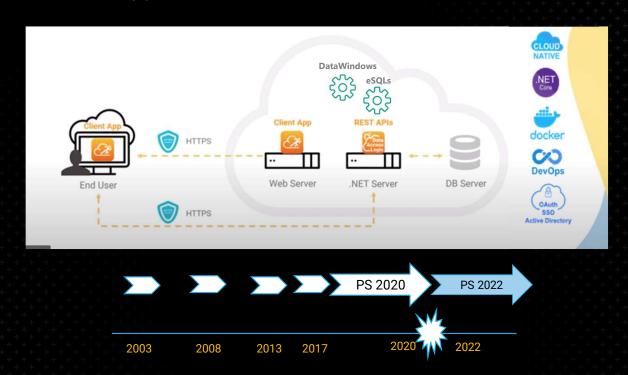
- Deployable company resources
- Medical agenda
- Private practice authorization
- Private practice management
- Accounting and Invoicing

Key Metrics

Customers	61
Employees per Institute	800 to 6,000 each
Annual Individual Profiles	~265,000
Annual Individual Scores	~2,380,000
Annual Mail notifications	~240,000
Annual Budget per Institute	1M to 10M Euro
Users	53,371
Concurrent	Up to 1000
Automation	95%
Reduction of dedicated personnel	70%
Reduction of process management time	80%

Dev Framework

- Appeon PowerServer
 - · Convert c/s projects into modern Installable Cloud Apps (ICA)
 - · Formerly Installable Web App (IWA)



Why PowerServer?

- Brand new project started in 2011
- Limited budget and human resources
 - · Consultancy in domain not supported by specialized software
- Fast development/deployment curve
 - · A-priori 3-tier programming best practice instead of a-posteriori performance tuning or re-engineering
 - · Unbeatable productivity (1 day/week dev work)

Architecture сору IWA Login Appeon PowerServer A <usr, pwd, db, proc> DB2 DB2 сору ICA A сору File Service .NET Web API WeApp/ Mobile TWL Mining / ETL Web UI Report Sign up **Active Directory**

Server Farm

 Base speed:
 2.10 GHz

 Sockets:
 2

 Cores:
 16

 Logical processors:
 32

 Virtualization:
 Enabled

 L1 cache:
 1.0 MB

 L2 cache:
 16.0 MB

 L3 cache:
 22.0 MB



- Up to 1000 users simultaneously (400 IWA, 600 ICA)
- 1GB/s symmetric connectivity

View basic information about your computer

Windows edition

Windows Server 2019 Standard

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System

Processor: Intel(R) Xeon(R) Silver 4110 CPU © 2.10GHz 2.10 GHz (2 pro Installed memory (RAM): 32.0 GB (31.6 GB usable)

System type: 64-bit Operating System, x64-based processor

© DOWNLOAD Mbps 945.29

Connections

① UPLOAD Mbps

•

⊕ 12

61

Service Model

SaaS w/ modular License
 Multi-Tenant Application
 Daily DB backup with 1' restore times
 All customers use same App+DB version



Outfit Speed





Trunk is updated continuously upon implementing Jira requests



Tag is the one - and only one - production version. Release on average each month



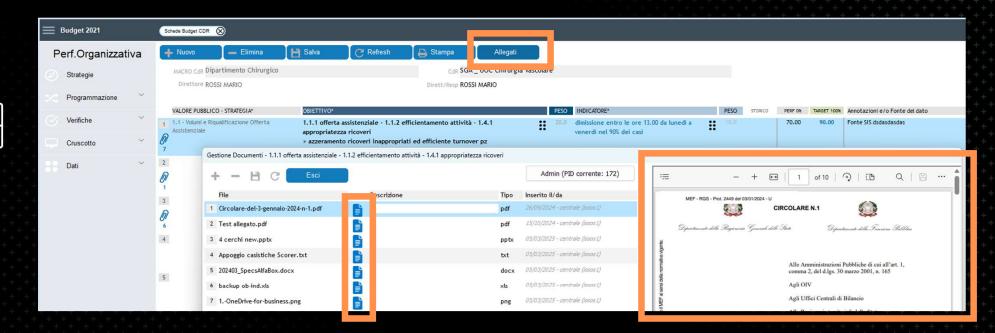
Hotfix can be released at any time. PS IWA deploy (then) and PBAutobuild (now)



Interoperability

1

Document Repository: upload, download and preview features



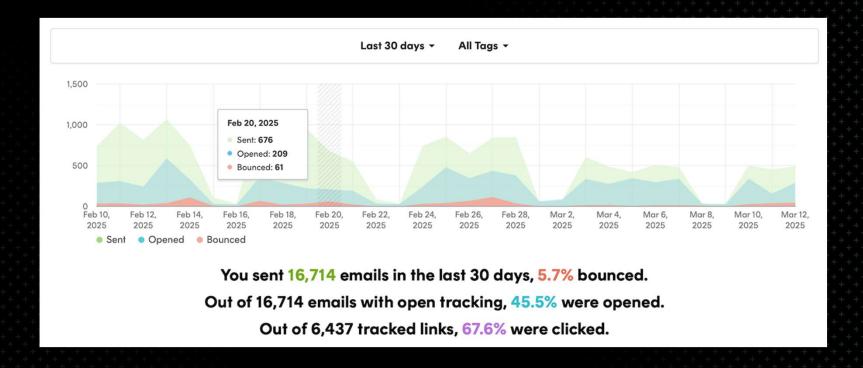


Interoperability

2

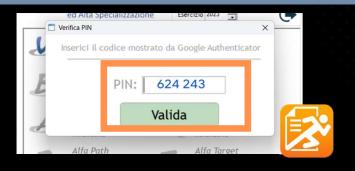
Mailing: signup, Iforgot, password reset + strategic task-completed steps among personnel

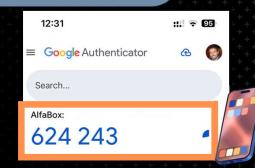




Interoperability

3) 2FA: Two-factor access authentication (GDPR 2016/679 regulation for data protection)





- 4 3rd-party Integration: exchange evaluation cards, patient invoices, medical records via REST API
- LDAP: on-demand integration with corporate Active Directories for identity and permission management according to customer policies



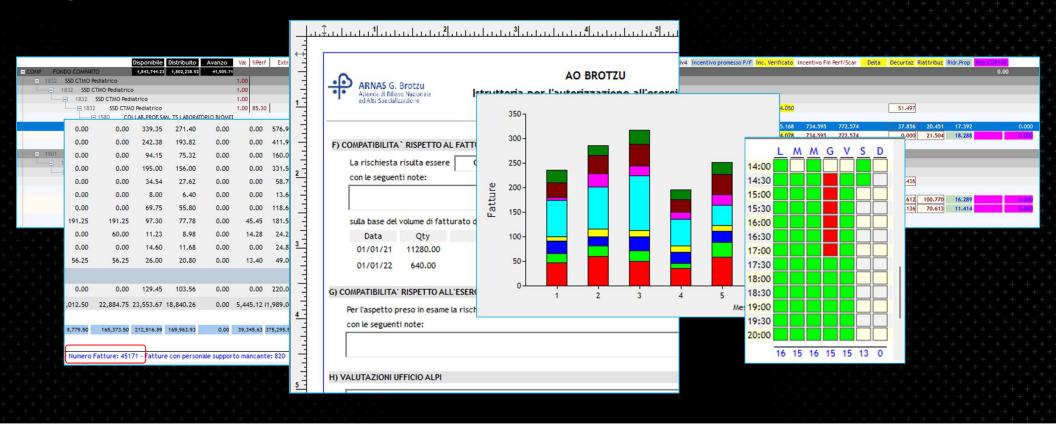


Customer perspective

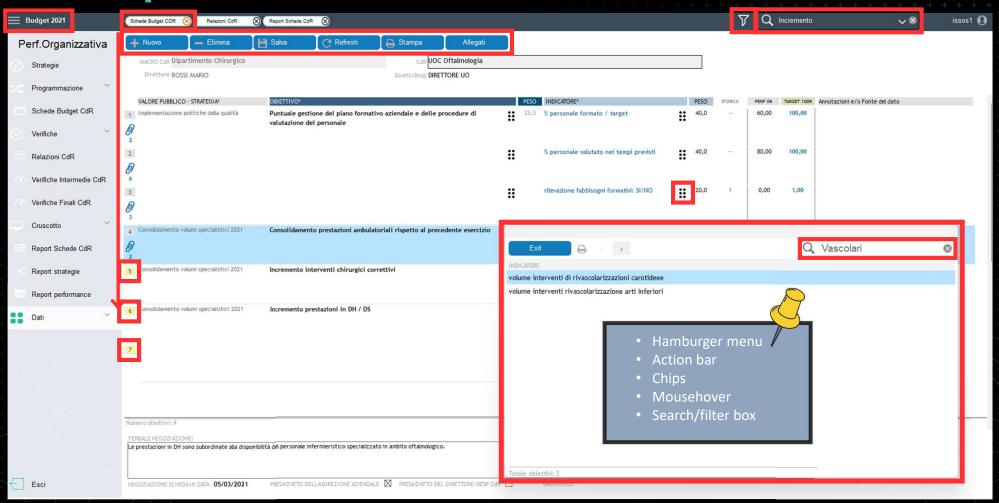


DataWindow, what else?

Real time processing of thousands of employees' work performance and incentives distribution



User Experience



Demo

Summary

- AlfaBox is 14 year old multi-tenant PS app
- 60+ healthcare institutions, 50k+ users, up to 1k concurrent sessions
- Migration from IWA to ICA
 - · State-of-the-art and scalable architecture (microservices, webdeploy, ...)
 - Extendable API-driven PS backend (UserExtensions, .NET datastore, ...)
 - · Can use PB features introduced over the last 3 years
 - · No unsupported features
 - · A PS debugger integrated and... working!
 - · Appeon today (SD, .NET, REST API, ORM C#, PS,...): revolution of traditional PB programming with datastore-powered backend for webapp/mobile dev stacks
 - · Improved self-confidence

Thank You