

ADVANCING MARKET LEADERSHIP WITH SWIFT LEGACY MODERNIZATION

Brazilian leader in healthcare progressively expands quality access to increasing customers



AT A GLANCE

Industry

Healthcare

Headquarters

São Paulo, Brazil

Challenge

Needed to discontinue legacy and its annual costs, and move to micro services, while retaining 100% business parity

Solution

IONATE™ APPDATE offers legacy to micro services conversion using AI / ML

Results

- Cost savings
- Future readiness
- Developer velocity

The largest healthcare company in the state of São Paulo, GNDI aims to expand access to quality healthcare at an affordable cost to all of Brazilians. To continue doing this at scale, the company needed a modern ecosystem that is easy to manage, flexible to adapt, and one that preserves years of business intelligence from its legacy.

In 2019, GNDI started its migration journey from legacy to micro services. Realizing the downside of traditional approaches to modernization, one being time taken (2-5 years), GNDI evaluated and adopted IONATE™ APPDATE as their means to accelerate their digital transformation.

Case Study

GNDI

Industry

Healthcare

“

Our systems were very complex and challenging. Ionate team are experts in diagnosing legacy problems and assessing business needs accurately. They are able to execute and build the right solution.

Thiago Liano Cachello | Executive IT Manager, GNDI

IONATE™ APPDATE solution has worked out of the box as legacy to micro services conversion for the healthcare leader.

SCC Report

Language	Files	Lines	Blanks	Comments	Code	Complexity
Java	7720	1408990	146337	606500	655253	14959
Plain Text	294	19869	1	0	19868	0
Groovy	143	10659	2348	1814	6497	343
YAML	56	3255	214	435	2606	0
XML	18	2770	101	178	2491	0
Properties File	16	755	47	56	652	0
Web Services Descri...	14	1520	49	7	1464	0
Dockerfile	8	72	32	0	40	0
Total	8269	1446990	149129	608990	688871	15302

Estimated Cost to Develop \$25,801,212
Estimated Schedule Effort 47.297404 months
Estimated People Required 48.463942

Processed 50338465 bytes, 50.338 megabytes (SI)

What you see is one project statistics. It would take **48 engineers, 47 months** to write the same code that IONATE™ APPDATE did in **4 months**.

CHALLENGE

Progressive expansion of quality healthcare access to increasing number of Brazilians

As one of the largest healthcare operators in Brazil, sustainability is a core part of GNDI's DNA. To grow in the face of the Brazilian economic scenario, the company needed to rethink processes, develop new lines of reasoning, and cut costs wherever necessary.

Post-pandemic, the company also needed to rethink the strategy for maintaining competitive lead in the market. It naturally alluded towards having modern tools that can help meet the changing market demands quicker, and stay ahead in the game. There is a perpetual market push from Brazilian people regarding affordable prices. This required the company to embrace the possibility of replacing the old legacy by newer technologies to lower its own legacy cost, making it possible to provide healthcare at a lower cost.

Speaking of legacy, GNDI has a complex ecosystem of several applications that integrate through

IBM standard Enterprise Service Bus (ESB) deployed with IBM Websphere, managed via IBM Business Process Manager (BPM). Since BPM works on the principle of a centralized software component serving other systems, the governance of these services is also centralized. As a result, restrictive standards were created around this platform, which made it complex to manage, difficult to scale, and risky to operate with new technology.

IBM
BPM

IBM
WebSphere

Modernization Goals

- Move away from IBM legacy, save on license costs
- Decouple applications from Websphere and execute independently
- Enable high scalability
- Mitigate agility risks in business critical applications
- Move to the cloud swiftly

SUCCESS METRICS

Annual Cost Savings



Up to 60%

Developer Velocity



Up to 50%

A true modernization approach assists in mitigating the risk associated with legacy by working at both levels - software and architecture.

SOLUTION

Converting legacy architecture and most of the code to micro services using AI / ML

As its legacy stack could no longer keep up with constantly changing and increasing requirements, GNDI opted for a faster modernization route. When evaluating Ionate’s solution for their needs, the company stakeholders immediately liked the benefit of maintaining 100% business parity.

Developer agility and velocity was another key factor - the company’s assessment of Ionate’s solution and its output showed that their developers could save a huge time going forward. Post-trial, the set of applications and integrations were broken down into **SIX projects**. The manual effort to modernize the same projects, was captured by the tool [SCC \(Sloc, Cloc and Code\)](#).

BENEFITS



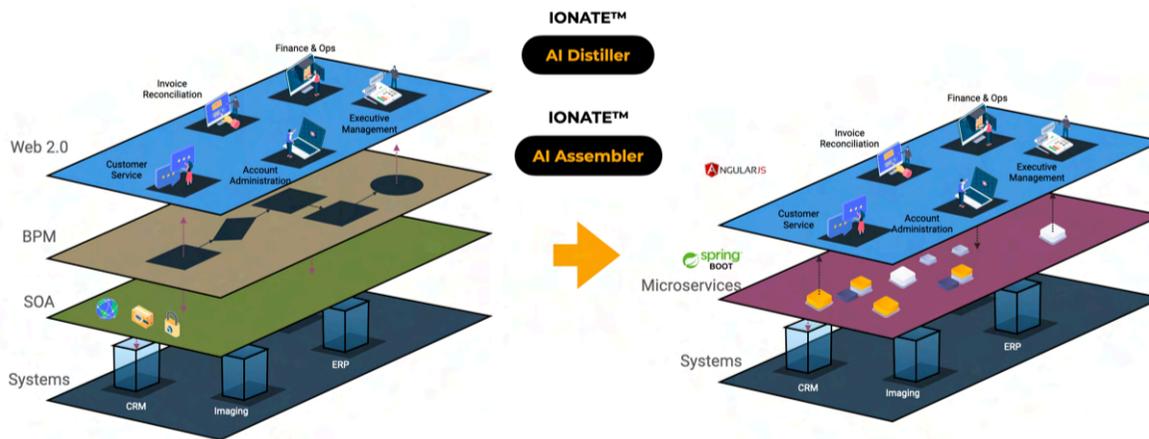
Cost savings



Future readiness



Developer velocity



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About Ionate

Ionate accelerates Digital Transformation by modernizing legacy systems using a proprietary AI/ML engine in under 6 months, while maintaining 100% business parity. Our end-to-end platform enables you with a high-performing infrastructure, to scale your business, with security, predictive forecasting, and data protection.

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